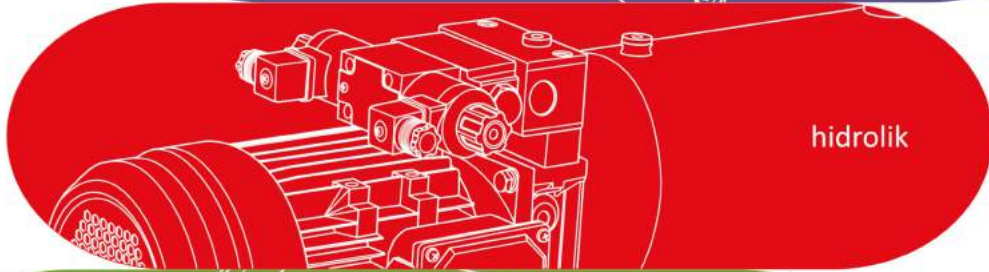


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PNÖMATİK KATALOĞU / 2016-08

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Firmamız **hidtek Sanayi ve Ticaret** olarak, 1987 yılında faaliyete başlamıştır.

O dönemde sadece Bursa ve çevresinde satış yaparken her geçen yıl ürün ve satış faaliyetlerini arttırmıştır.

1992 yılında **hidtek Ltd. Şti.** adı altında birleşen firmamız, teknik malzeme satışı ile ithalat, imalat ve ihracat yapmaya devam etmektedir.

Aynı zamanda pazarlama ve satış faaliyetlerini de günden güne tüm yurtiçi ve yurtdışına yaygınlaştırmaktadır.

Satışını yaptığımız malzemelerin genel kullanım alanları şunlardır;

- Otomotiv Sanayi
- İş Makinaları
- Hidrolik Pres İmalatı
- Ambalaj Makinaları
- PVC İşleme Makinaları
- Kaldırma Makinaları (asansör, lift)
- Gıda Sanayi
- Muhtelif Makina İmalatı

Firmamız katalogta yayınlanan resim, ölçü ve diğer değerleri değiştirme hakkına sahiptir.

Our company hidtek industry and trade established in 1987.

At the time, only in and around bursa while sales of product and sales activities increased with each passing year.

In 1992, hid-tek Ltd.Şti. combined under the name of our company, with the sale of technical equipment imports, continues to manufacture and export.

At the same time, in the day to day marketing and sales activities extends all domestic and abroad.

General uses of the materials we sell are as follows:

- Automotive industry
- Heavy equipment
- Manufacture of hydraulic press
- Packaging machines
- Pvc processing machines
- Lifting equipment (elevator, lift)
- Food industry
- Various Machinery Manufacturing

Our company reserves the right to modify photos, measurement, and the other values which published in catalog.



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TEKNİK BİLGİLER
TECHNICAL INFORMATION

PNÖMATİK SİLİNDİRLER
PNEUMATIC CYLINDERS

SENSÖRLER
SENSORS

SELENOİD & HAVA KUMANDALI VALFLER
SOLENOID & PNEUMATIC ACTUATED VALVES

MEKANİK KUMANDALI VALFLER
MECHANICALLY ACTUATED VALVES

HAVA HAZIRLAYICILAR
AIR PREPARATION UNITS

BAĞLANTI ELEMANLARI
FITTINGS

AKSESUARLAR
ACCESSORIES

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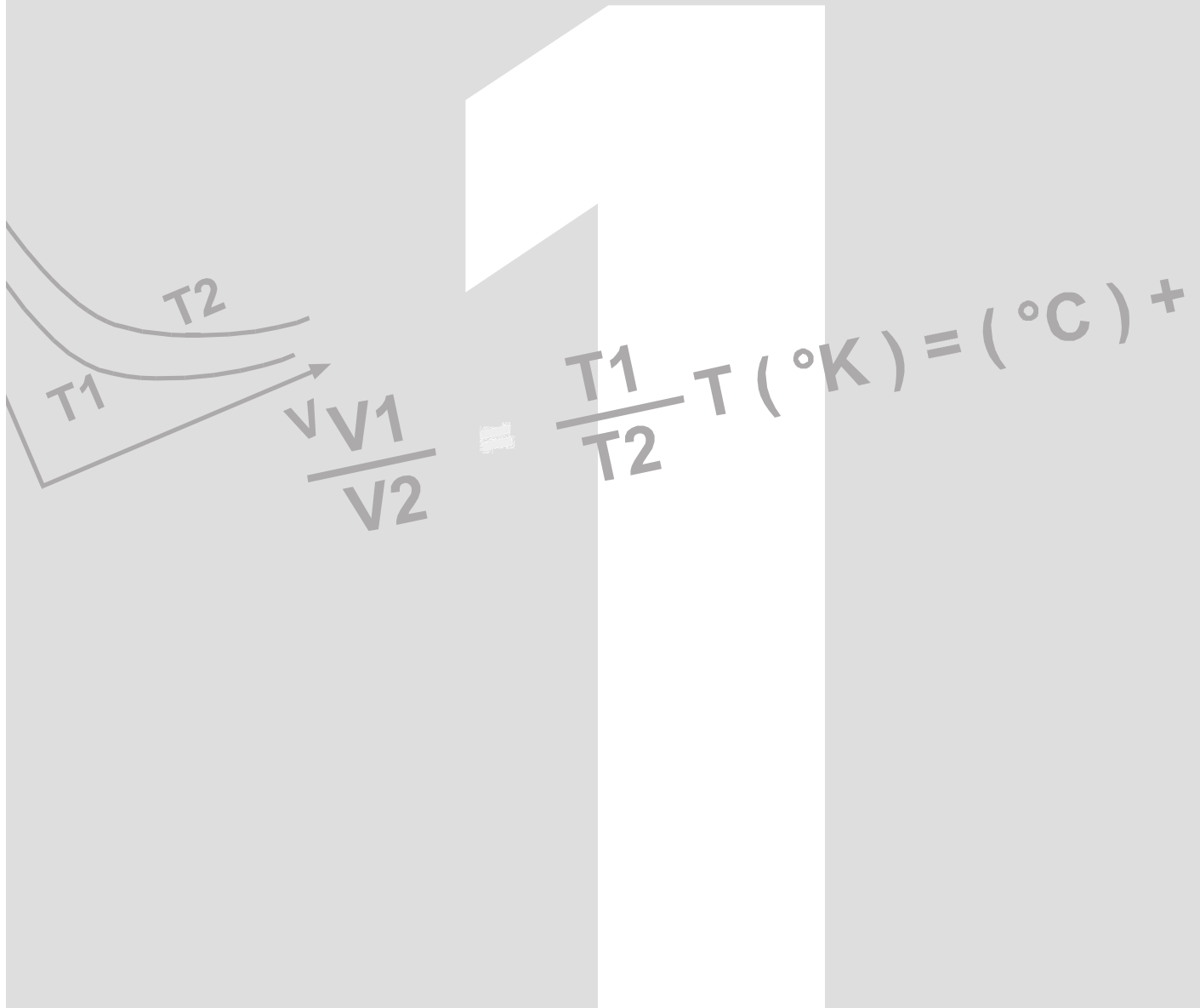
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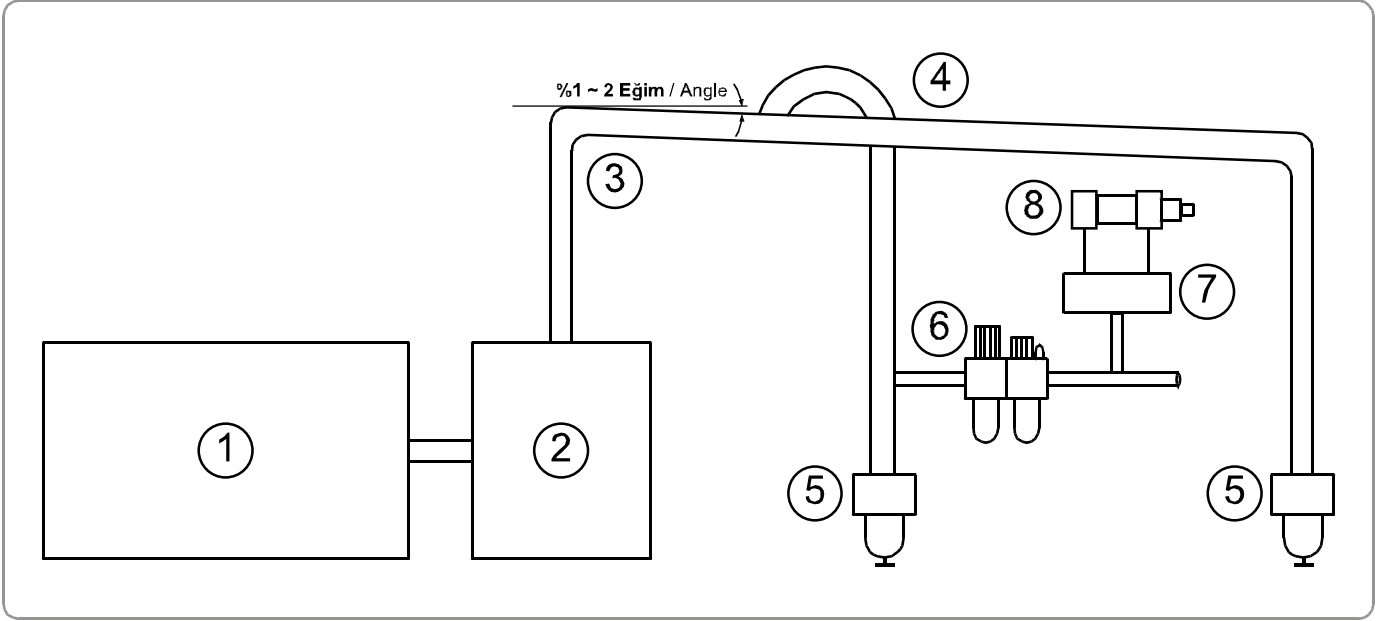
TEKNİK BİLGİLER

TECHNICAL INFORMATION



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Temel Hava Hattı / Basic Air Line



1 - Kompresör / Compressor

Bir elektrik motoru yardımıyla atmosfer havasını sıkıştırarak yüksek basınçta sisteme gönderir. Compresses the atmosphere air with aid of any rotary force and provides compressed air to the system.

2 - Kurutucu / Air Dryer

Sıkıştırılmış havanın sıcaklığını donma noktasına yaklaştırarak havadaki nemi yoğuşturur. Sisteme kuru hava gitmesini sağlar. Decreases the temperature of compressed air close to freezing point therefore moisture condenses. Providing dry air.

3 - Ana Hava Hattı / Main Air Line

Kurutulmuş hava bu hat vasıtasıyla sisteme dağıtılır. Hat sonunda yoğuşan suyun birikmesi için bu hat %1-2 gibi bir eğimle kurulur. Dry air distributed by this line. There must be %1-2 gradient to collect the condensed air.

4 - Branşman / Air Line Branch

Ana hatta ki yoğuşan suyun, ana boru içinde kalması için Ana Hattın üst kısmından alınır. En alt kısımlar yoğuşan suyun tahliyesi için otomatik tahliye konulur. This line connected to top of the main line to keep the condensed water in the main line. There are auto - drainers end of this lines.

5 - Otomatik Tahliye / Automatic Drainer

Hatların en alt noktasına konur. Yoğuşan su, haznesinde birikir ve içindeki şamandıralı sistem ile su dışarı atılır. Auto - Drainers are connected to end of lines. Condensed water collected in those drainers and with their float system water releases.

6 - Hava Hazırlayıcı / F.R.L. Unit

Sistemdeki pnömatik elemanların uzun ömürlü olması için, hava hattındaki su ve pisliği filtre kısmında tutar, sisteme verilen basıncı regülatörde sabitler ve çalışan valf ve iş elemanlarının sürtünmelerini azaltmak için havayı yağlayıcı kısmında yağlar. Hava Hazırlayıcının etkisi 5 mt sonra biter. This unit holds particles and water with it's filter, regulates the pressure by regulator and lubricates the compressed air to have long life service of system. Effect of F.R.L. unit lasts within 5 m.

7 - Yön Kontrol Valfi / Directional Control Valve

İş elemanının hareket yönünü kontrol etmekte kullanılır. Selenoid, pnömatik ve mekanik kumandalama tipleri vardır. They are used to control the direction of working unit. There are soleonid, Pneumatic and mechanical types of command system.

8 - İş Elemanı / Working Unit

Basıncılı havadaki potansiyel enerjiyi, kinetik enerjiye (silindir - doğrusal hareketi ve döner iş elemanı - dönel Those unit convert the potential energy into kinetic energy (cylinders - linear motion, rotating units - rotary motion).

Temel Birim Değişim Tablosu / Basic Unit Conversation Chart

Özellik / Item Characteristic	Birim / Unit	Soldaki ile Çarpınca Multiply with left	Birim / Unit
Uzunluk / Length	Metre / Meter	0.0254 0.3048	İnç / Inch (in) feet (ft)
Alan / Area	Metre kare / Square Meter (m ²)	0.00064516 0.092900304	İnç kare / Inch square (in ²) feet kare / feet square (ft ²)
Hacim / Volume	Metre küp / Cubic Meter (m ³)	16.387064 x 10.6 0.028316846	İnç küp / Inch cube (in ³) feet küp / feet cube (ft ³)
Kütle / Mass	Kilogram / Kilogram (Kg)	0.45359237	libre (lb)
Kuvvet, Ağırlık / Force / Weight	Kilogram Kuvvet / Kilogramforce (kgf)	9.8066 4.448221615	Newton (N) libre (lb)
Enerji / Energy		9.8066 1.355817948	Joule (J) libre - feet (lb - ft)
Güç / Power	Watt (W)	745.70 0.092900304	Beygir gücü Horse power (HP)
Özellik / Item	Birim / Unit	Soldakine Bölünce Divided by right	Birim / Unit

Basınç Değişim Tablosu / Pressure Conversation Chart

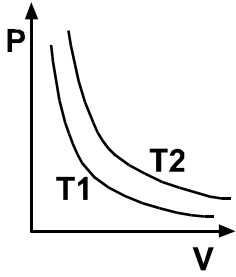
Basınç Pressure	Pa	kPa	Mpa	bar	mbar	kg / cm	mm Hg	psi
Pa	1	0.001	1 x 10 ⁻⁶	1 x 10 ⁻⁵	0.01	10.1972 x 10 ⁻⁶	0.00750062	0.000145038
kPa	1000	1	0.001	0.01	10	0.0101972	7.50062	0.145038
Mpa	1000000	1000	1	10	10000	10.1972	7500.62	145.038
bar	100000	100	0.1	1	1000	1.01972	750.062	14.5038
mbar	100	0.1	0.0001	0.001	1	0.00101972	0.750062	0.0145038
kg / cm	98066.5	98.0665	0.0980665	0.980665	980.665	1	735.559	14.2233
mm Hg	132.322	0.132322	133.322 x 10 ⁻⁵	133.322 x 10 ⁻⁵	1.33322	0.00135351	1	0.0193368
psi	6894.76	6.89476	0.0689476	0.0689476	68.9476	0.070307	51.7149	1

Debi Değişim Tablosu / Flow Conversation Chart

Debi / Flow	m ³ / s	l/s	cm ³ / s	m ³ / sa - m ³ / h	m ³ /dak - m ³ /min	l / sa - l / h	l / dak - l / min
m ³ /s	1	1000	1000000	0.000277	0.016667	0.278	16.667
l/s	0.001	1	1000	3.6	16.67 x 10 ⁻⁶	0.000277	0.016667
cm ³ /s	1 x 10 ⁻⁶	0.001	1	277.78	16666.67	0.278	0.06
m ³ /sa - m ³ /h	3600	0.278	0.0036	1	60	1000	60000
m ³ /dak - m ³ /min	60	60000	60 x 10 ⁻⁶	0.016667	1	16.667	1000
l/sa - l/h	3.6	3600	3.6	0.001	0.06	1	60
l/dak - l/min	0.06	60	16.667	16.67 x 10 ⁻⁶	0.001	0.016667	1

Gazların Temel Özellikleri / Basic Specifications of Gases

Sabit Sıcaklıklı Değişim (Boyle Yasası) / Constant Temperature Changing (Boyle Rule)



Sabit sıcaklık altında, gazların basıncı ve hacmi ters orantılıdır.

Under constant temperature, gas' pressure and volume is inverse proportional.

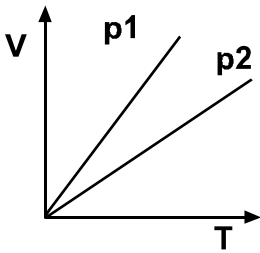
$$p1.V1=p2.V2 \quad V1/V2 = cr - \text{Sıkıştırma Oranı / Press Rate}$$

p	1	2	3	4	5	6	7	8	9	10
cr	0.987	1.987	2.974	3.961	4.948	5.935	6.922	7.908	8.895	9.882

Pnömatikte Boyle Yasasını kullanmak hatalıdır. Silindirlerde sabit sıcaklıklıda değişim yoktur, daima adyabatiktir.

In pneumatic, using boye rule is wrong. because in the cylinders the changing is not constant temperatured, always is adiabatic.

Sabit Basıncılı Değişim / Constant Pressured Changing



Charles Yasası: Sabit Basınc altında gazların hacmi ve sıcaklığı doğru orantılıdır.

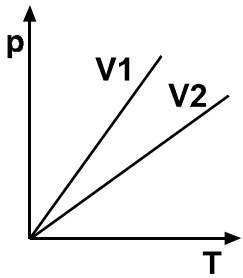
Charles Rule: Under constant pressure, gas' volume and temperature is proportional.

Gay Lussac Yasası: Herhangi bir gaza ısı verildiğinde hacmindeki değişim sıcaklığındaki değişim ile orantılıdır.

Gay Lussac Rule: When the heat is applied any gas' changing on the volume is proportional changing temperature.

$$\frac{V1}{V2} = \frac{T1}{T2} \quad T (^\circ K) = (^\circ C) + 273$$

Sabit Hacimli Değişim / Constant Volumes Changing



Sabit hacim altında, gazların basınc ve sıcaklıkları doğru orantılıdır.

Under constant volume, gas' pressure and temperature is proportional.

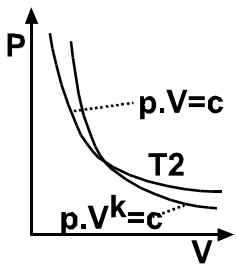
$$\frac{P1}{T1} = \frac{P2}{T2} \quad T (^\circ K) = (^\circ C) + 273$$

Önceki ilişkiler birleştirilirse, genel gaz denklemini elde edilir.

If the before relations is connected each other the general gas formula is achieved.

$$\frac{P1 V1}{T1} = \frac{P2 V2}{T2} = \text{Sabit / Constant}$$

Adyabatik Değişim (İzentropik) / Adiabatic Changing



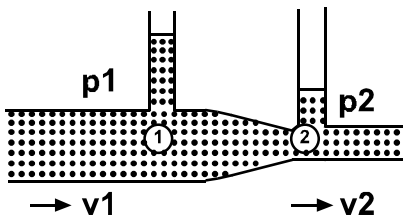
Önceki yasalarda değişimlerin yavaş gerçekleştiği varsayılır, fakat gerçek yaşamda bu değişimler hızlıdır.

At the before rules the changings is became as allowly, but in the real life this changings is became as fast.

Bu sebepten Boyle Yasası (p.V=sabit) yerine (p.V^k=sabit) olur.

Therefore Boyle Rule is changed from (p.V=constant) to (p.V^k=constant)

Bernoulli Denklemi / Bernoulli Equation



Özgül ağırlığı belirli bir sıvı, çapı değişen bir boru içinde yatay olarak akıyorsa toplam enerji 1 ve 2 noktalarında aynıdır.

A Liquid has constant density, is flowing in a tube has different diameter size, the total energy is equal at the 1 and 2 points.

$$p1 + \frac{1}{2} r.v1^2 = p2 + \frac{1}{2} r.v2^2 \quad r = \text{sıvının yoğunluğu / liquid density}$$

Akış hızı yaklaşık olarak 330 m/s'yi aşmıyorsa bu eşitlik gazlara da uygulanabilir.

The flowvelocity is not exceed 330 m/s this equation can used at the gases.

Hava Tüketimi Tablosu / Air Consumption Chart (Lt / cm - strok / stroke)

Piston Ø	ØMil ØRod	Hareket Action	Piston Alanı Piston Area (cm ²)	Çalışma Basıncı / Operation Pressure (bar)									
				1	2	3	4	5	6	7	8	9	10
12	6	İtme / Push	1.13	0.0034	0.0045	0.0057	0.0068	0.0079	0.0090	0.0102	0.0113	0.0124	
		Çekme / Pull	0.85	0.0025	0.0033	0.0042	0.0050	0.0059	0.0067	0.0076	0.0084	0.0093	
16	6	İtme / Push	1.13	0.0060	0.0080	0.0100	0.0121	0.0141	0.0161	0.0181	0.0202	0.0221	
		Çekme / Pull	0.85	0.0052	0.0069	0.0086	0.0104	0.0121	0.0138	0.0156	0.0173	0.0190	
20	8	İtme / Push	1.13	0.0094	0.0126	0.0157	0.0188	0.0220	0.0251	0.0283	0.0314	0.0346	
		Çekme / Pull	0.85	0.0079	0.0106	0.0132	0.0158	0.0185	0.0211	0.0238	0.0264	0.0290	
25	10	İtme / Push	1.13	0.0147	0.0196	0.0245	0.0295	0.0344	0.0393	0.0442	0.0491	0.0540	
		Çekme / Pull	0.85	0.0113	0.0151	0.0189	0.0227	0.0264	0.0302	0.0340	0.0378	0.0415	
32	12	İtme / Push	1.13	0.024	0.032	0.040	0.048	0.056	0.064	0.072	0.080	0.088	
		Çekme / Pull	0.85	0.021	0.028	0.035	0.042	0.049	0.058	0.063	0.070	0.076	
40	16	İtme / Push	1.13	0.038	0.050	0.063	0.075	0.088	0.101	0.113	0.126	0.138	
		Çekme / Pull	0.85	0.032	0.042	0.053	0.063	0.074	0.084	0.095	0.106	0.116	
50	20	İtme / Push	1.13	0.059	0.079	0.098	0.118	0.137	0.157	0.177	0.196	0.216	
		Çekme / Pull	0.85	0.049	0.066	0.082	0.099	0.115	0.132	0.148	0.165	0.181	
63	20	İtme / Push	1.13	0.094	0.125	0.156	0.187	0.218	0.249	0.281	0.312	0.343	
		Çekme / Pull	0.85	0.084	0.112	0.140	0.168	0.196	0.224	0.252	0.280	0.308	
80	25	İtme / Push	1.13	0.151	0.201	0.251	0.302	0.352	0.402	0.452	0.503	0.553	
		Çekme / Pull	0.85	0.136	0.181	0.227	0.272	0.317	0.363	0.408	0.454	0.499	
100	25	İtme / Push	1.13	0.236	0.314	0.393	0.471	0.550	0.628	0.707	0.785	0.864	
		Çekme / Pull	0.85	0.221	0.295	0.368	0.442	0.515	0.589	0.663	0.736	0.810	
125	32	İtme / Push	1.13	0.368	0.490	0.613	0.736	0.859	0.981	1.104	1.226	1.349	
		Çekme / Pull	0.85	0.344	0.459	0.573	0.688	0.803	0.917	1.032	1.147	1.262	
160	45	İtme / Push	1.13	0.603	0.804	1.005	1.206	1.407	1.608	1.809	2.010	2.211	
		Çekme / Pull	0.85	0.565	0.754	0.942	1.130	1.319	1.508	1.696	1.884	2.073	
200	45	İtme / Push	1.13	0.942	1.257	1.571	1.885	2.199	2.513	2.827	3.145	3.456	
		Çekme / Pull	0.85	0.905	1.206	1.508	1.810	2.111	2.413	2.714	3.016	3.318	

Teorik Kuvvet/ Theoretical Force (kg)

Piston Ø	ØMil ØRod	Hareket Action	Piston Alanı Piston Area (cm ²)	Çalışma Basıncı / Operation Pressure (bar)									
				2	3	4	5	6	7	8	9	10	
8	4	Çekme / Pull	0.38	0.8	1.1	1.5	1.9	2.3	2.6	3.0	3.4	3.8	
		İtme / Push		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	
10	4	Çekme / Pull	0.66	1.3	2.0	2.6	3.3	4.0	4.6	5.3	5.9	6.6	
		İtme / Push		1.6	2.4	3.1	3.9	4.7	5.5	6.3	7.1	7.9	
12	6	Çekme / Pull	0.85	1.7	2.5	3.4	4.2	5.1	5.9	6.8	7.6	8.5	
		İtme / Push		2.3	3.4	4.5	5.7	6.8	7.9	9.0	10.2	11.3	
16	6	Çekme / Pull	1.73	3.5	5.2	6.9	8.6	10.4	12.1	13.8	15.5	17.3	
		İtme / Push		4.0	6.0	8.0	10.0	12.1	14.1	16.1	18.1	20.1	
20	8	Çekme / Pull	2.64	5.3	7.9	10.6	13.2	15.8	18.5	21.1	23.7	26.4	
		İtme / Push		6.3	9.4	12.6	15.7	18.8	22.0	25.1	28.3	31.4	
25	10	Çekme / Pull	4.12	8.2	12.4	16.5	20.6	24.7	28.8	33.0	37.1	41.2	
		İtme / Push		9.8	14.7	19.6	24.5	29.4	34.3	39.3	44.2	49.1	
32	12	Çekme / Pull	6.91	14	21	28	35	41	48	55	62	69	
		İtme / Push		16	24	32	40	48	56	64	72	80	
40	16	Çekme / Pull	10.55	21	32	42	53	63	74	84	95	106	
		İtme / Push		25	38	50	63	75	88	100	113	126	
50	20	Çekme / Pull	16.49	33	49	66	82	99	115	132	148	165	
		İtme / Push		39	59	79	98	118	137	157	177	196	
63	20	Çekme / Pull	28.02	56	84	112	140	168	196	224	252	280	
		İtme / Push		62	93	125	156	187	218	249	280	312	
80	25	Çekme / Pull	45.33	91	136	181	227	272	317	363	408	453	
		İtme / Push		100	151	201	251	301	352	402	452	502	
100	25	Çekme / Pull	73.59	147	221	294	368	442	515	589	662	736	
		İtme / Push		157	236	314	393	471	550	628	707	785	
125	32	Çekme / Pull	114.62	229	344	458	573	688	802	917	1032	1146	
		İtme / Push		245	368	491	613	736	859	981	1104	1227	
160	45	Çekme / Pull	185.06	370	555	740	925	1110	1295	1481	1666	1851	
		İtme / Push		402	603	804	1005	1206	1407	1608	1809	2010	
200	45	Çekme / Pull	298.10	596	894	1192	1491	1789	2087	2385	2683	2981	
		İtme / Push		628	942	1256	1570	1884	2198	2512	2826	3140	

Burkulma Mukavemeti / Streight of Buckling

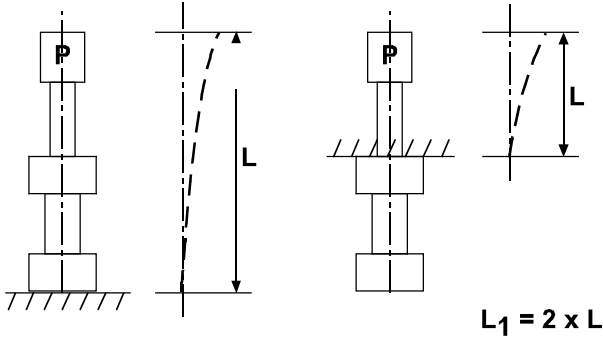
Silindirlere basma gerilimi uygulanması veya silindirin uzun stroklu ve narin olması durumunda burkulma hesabı yapılmalıdır.

Buckling calculation has had to make when the cylinder is under the impress tensile or the cylinder has long stroke and slender body.

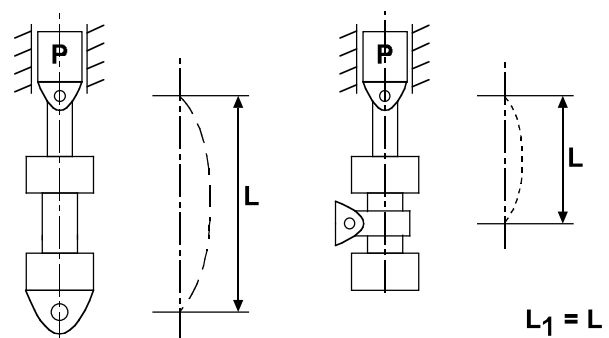
Burkulma mukavemeti silindirlerin bağlantı şekline bağlıdır. Dört tip temel bağlantı şekli mevcuttur.

Buckling streight is according to the mounting type. There is four type basic mounting type.

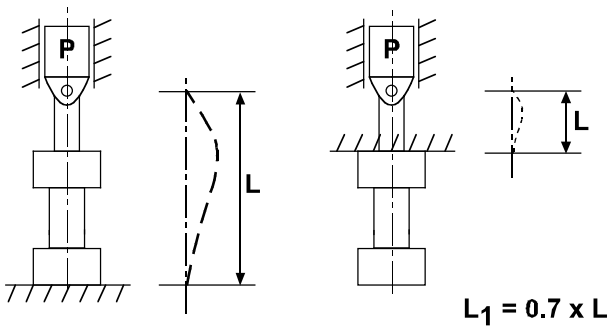
1- Rijit + Serbest / Rigid + Free



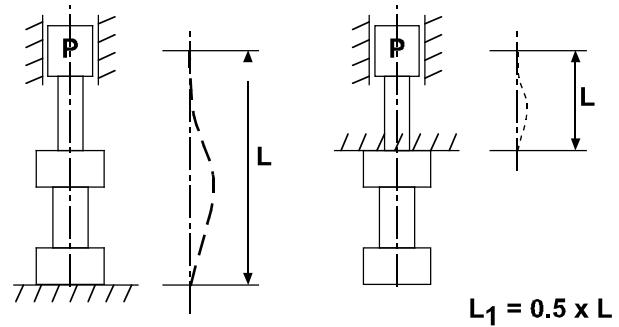
2- Mafsal + Mafsal / Joint + Joint



3- Rijit + Mafsal / Rigid + Joint



4- Rijit + Rijit / Rigid + Rigid



Bu durum önerilmez. / This condition is not suggested.

Bu koşullar göz önünde bulundurulursa burkulma (Euler) formülü;
This conditions are considered, the buckling (Euler) formula;

$$F_b = \frac{\pi \times E \times J}{L_1^2 \times S}$$

F_b = Uygulanan Kuvvet, yük / Applied force, load (kg)

E = Elastisite Modülü / Elasticity Module (kg / cm²) - Çelik için / For Steel = 2.1 x 10⁶ kg / cm²

J = Atalet Momenti / Moment of Inertia (cm⁴) - Yuvarlak mil için / For round rod = 0.0491 x d⁴ (cm⁴)

S = Emniyet Katsayısı / Security Coefficient (2.5 ~ 3.5)

L_1 = Eşdeğer Burkulma Boyu / Buckling Length (cm) Yukarıdaki verilen formüllerden eşdeğer burkulma boyu L_1 hesaplanır.
Buckling length is calculated formulas given charts.

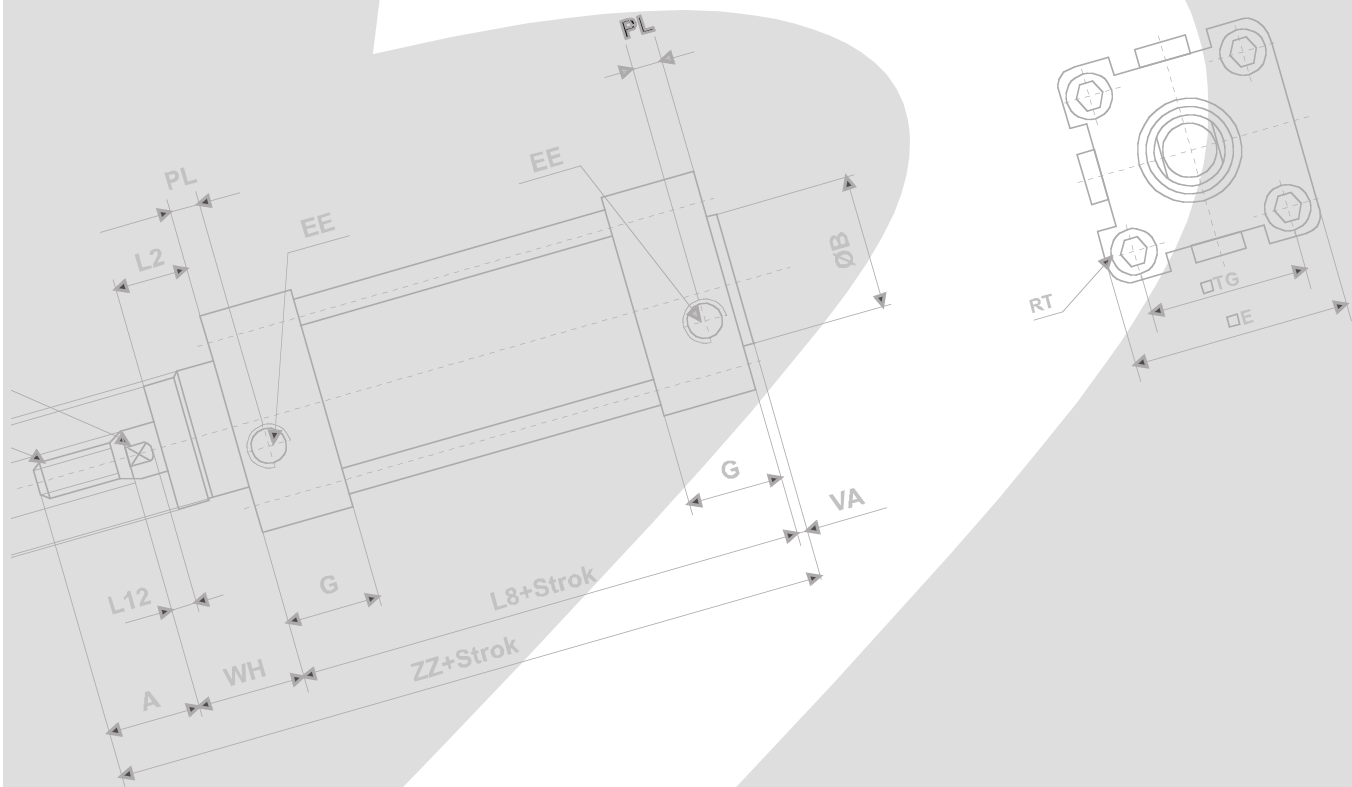
d = Mil Çapı / Rod diameter (cm)

Pratik yöntem / Practical Method

50 mm' den büyük çaplı silindirlere burkulmasız strok $d \times 3$ / The piston size is bigger then 50 mm, unbuckled strok $d \times 3$
50 mm' den küçük çaplı silindirlere burkulmasız strok $d \times 5$ / The piston size is smaller then 50 mm, unbuckled strok $d \times 5$

PNÖMATİK SİLİNDİRLER

PNEUMATIC CYLINDERS



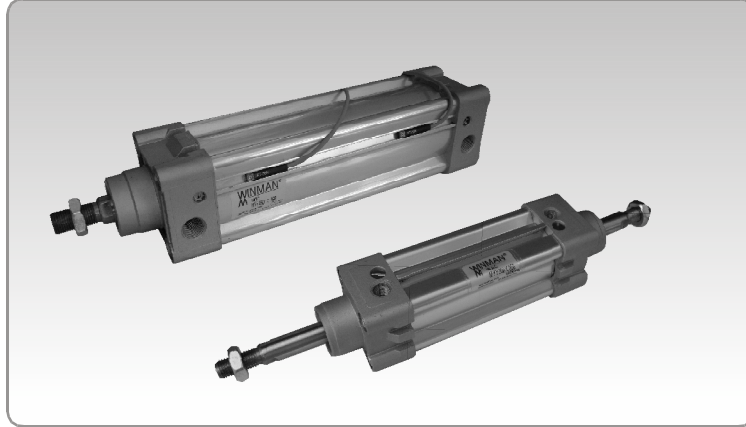
PNÖMATİK SİLİNDİRLER

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WAC - Alüminyum Gövdeli Silindirler

WAC - Aluminium Body Cylinders ISO 15552 (DIN ISO 6431)



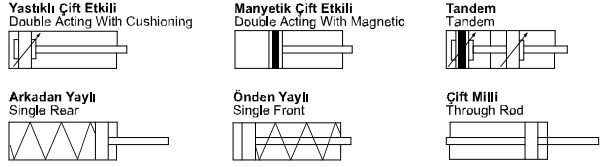
Sipariş Kodu / Ordering Code

WAC M YY 000 X 000

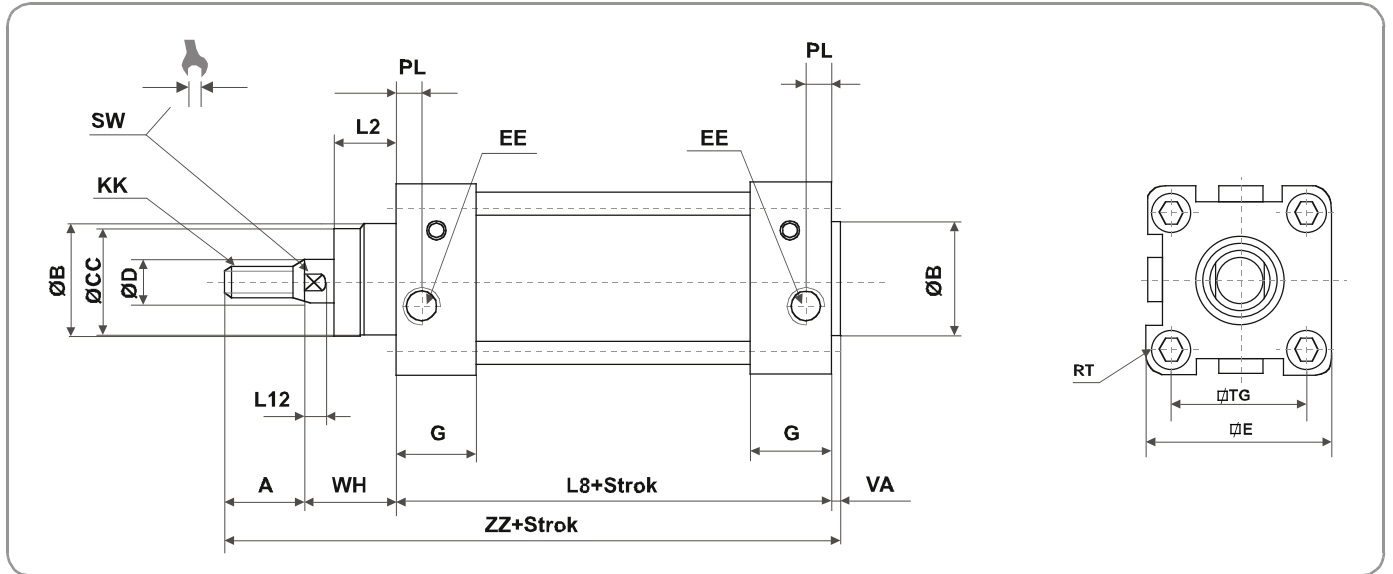


Sensörler / Sensors KT-21R (Sy/Pg:3-04) KT-50 (Sy/Pg:3-07)

Opsiyon Çizelgesi / Option Chart



Teknik Çizim / Technical Drawing



Piston Ø	A	B	D	EE	PL	RT	L12	KK	SW	G	L8	VA	WH	ZZ	E	TG	CC	L2
32	22	30	12	G1/8"	15.5	M6	7	M10x1.25	10	25	94	4	26	146	46	32.5	28.7	18
40	24	35	16	G1/4"	14	M6	7.5	M12x1.25	13	29.5	105	4	30	163	54	38	33.7	21
50	32	40	20	G1/4"	14	M8	8	M16x1.5	17	29.5	106	4	37	179	64	46.5	37.5	28
63	32	45	20	G3/8"	17	M8	8	M16x1.5	17	35.5	121	4	37	194	75	56.5	42.3	28.5
80	40	45	25	G3/8"	16.4	M10	10	M20x1.5	21	36	128	4	46	218	93	72	43	34.7
100	40	55	25	G1/2"	18.8	M10	11	M20x1.5	21	39	138	4	51	233	110	89	53	38.2
125	54	60	32	G1/2"	18	M12	17	M27x2	27	45	160	6	65	285	136	110	58	46

Teknik Özellikler

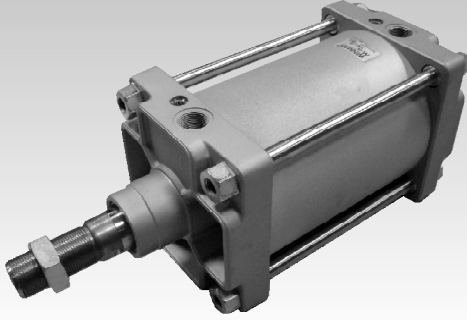
- ISO 15552 (DIN ISO 6431) Standardına uygundur.
- Alüminyum gövde (Bakınız Sayfa 2-26)
- Ø 32 - 40 - 50 - 63 - 80 - 100 - 125 mm.ye kadar nominal çaplarda.
- 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm kurs standartlarında (DIN 4393)
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Korozyona karşı dayanımı arttırmak için mil paslanmaz yapılabilir.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

Technical Specifications

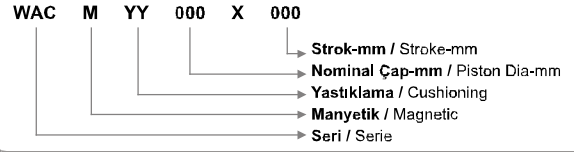
- Produced according to ISO 15552 (DIN ISO 6431)
- Aluminium body (Look page 2-26)
- In nominal diameters Ø 32 - 40 - 50 - 63 - 80 - 100 - 125 mm.
- In standart strokes (DIN 4393) 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- For Increasing of corrosion strenght guide is used as stainless steel.
- Please contact us for option dimensions.

WAC - Saplmalı Silindirler (160 - 200)

WAC - Tie Rod Cylinders ISO 15552 (DIN ISO 6431)



Sipariş Kodu / Ordering Code

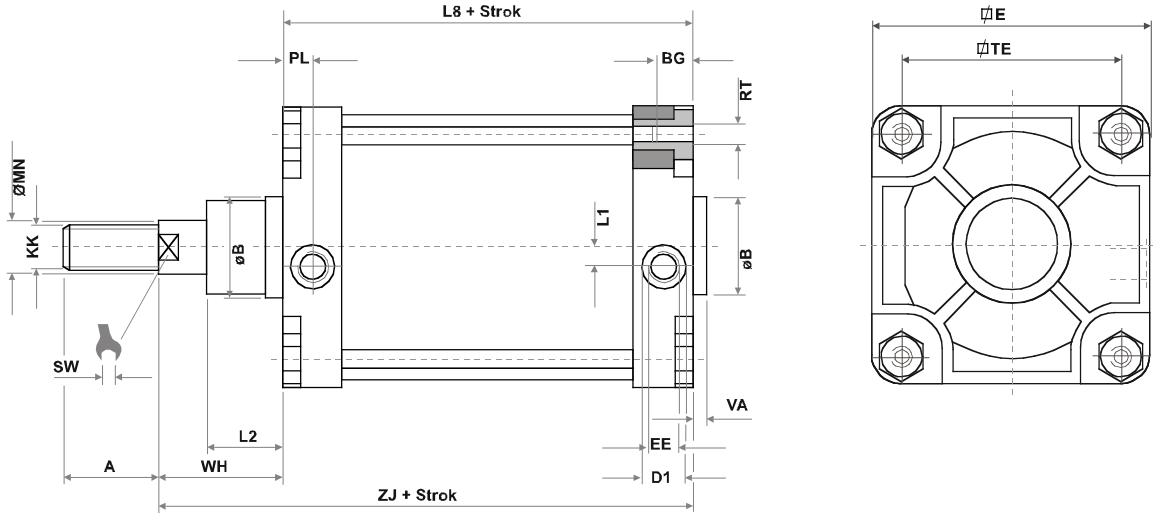


Sensörler / Sensors KT-21R (Sy/Pg:3-04)

Opsiyon Çizelgesi / Option Chart



Teknik Çizim / Technical Drawing



Piston Ø	A	B	BG	D1	E	EE	KK	SW	L1	MM	L8	RT	TE	PL	VA	L2	WH	ZJ
160	72	65	24	33	180	G 3/4	M 36 x 2	36	15	40	180	M16	140	20	5	50	80	260
200	72	75	24	33	220	G 3/4	M 36 x 2	36	15	40	180	M16	175	22.5	7	60	95	275

Teknik Özellikler

- ISO 15552 (DIN ISO 6431) Standardına uygundur.
- Çelik gövde standart, Alüminyum gövde opsiyonel.
- Ø 160 -200 mm.ye kadar nominal çaplarda.
- 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm kurs standartlarında (DIN 4393)
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Korozyona karşı dayanımı arttırmak için mil paslanmaz yapılabilir.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

Technical Specifications

- Produced according to ISO 15552 (DIN ISO 6431)
- Steel Body is standard, Aluminium body is optional.
- In nominal diameters Ø 160 - 200 mm.
- In standart strokes (DIN 4393) 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- For Increasing of corrosion strenght guide is used as stainless steel.
- Please contact us for option dimensions.

WSI-WSB Serisi Silindirler / WSI-WSB Series Cylinders

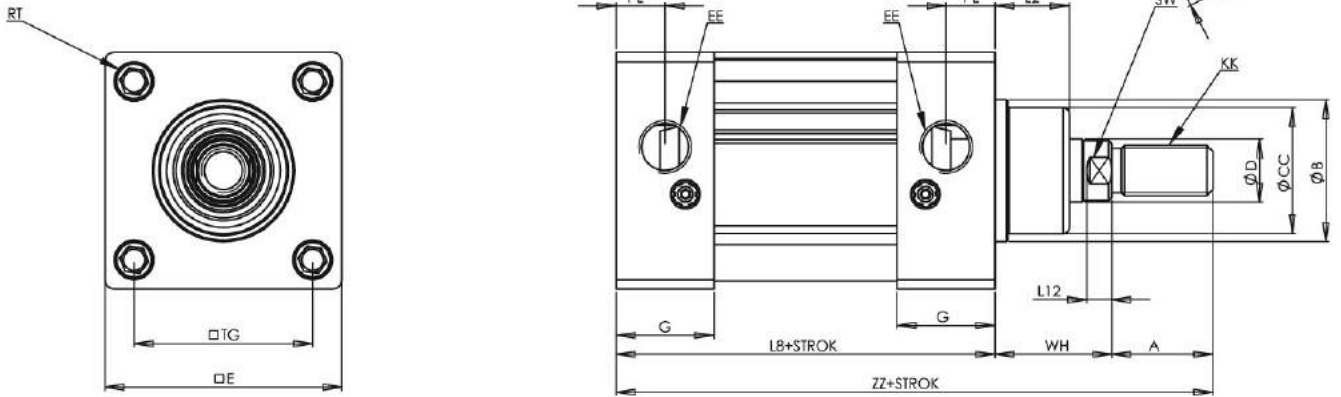
Teknik Özellikler / Technical Specifications

- ISO 15552 (DIN ISO 6431) Standardına uygundur.
- Standart ayarlanabilir yastıklamalı
- Opsiyonel manyetiklik
- Yağsız çalışabilir
- Sıcak ortamda çalışabilir (+150 °C)
- Paslanmaz ve indüksiyonlu mil seçenekleri
- Plastik kapak seçeneği ile korozif ortamlarda dayanım sağlar

- Suitable for ISO 15552 (DIN ISO 6431) standards
- Standard adjustable cushioning
- With magnet option
- Work without oil
- Heat resistant up to +150 °C
- Stainless and inductioned rod options
- Plastic cover option provides resistance in corrosive environments



Teknik Çizim / Technical Drawing



	Piston Ø	A	B	D	EE	PL	RT	L12	KK	SW	G	L8	L2	WH	ZZ	E	TG	CC
WSI	32	22	30	12	G1/8"	14	M6	5	M10x1.25	10	27,5	93,50	16	26	142	46,50	32,5	-
	40	24	35	16	G1/4"	14	M6	6	M12x1.25	13	29,5	105,50	18	29,5	159	53	38	-
	50	32	40	20	G1/4"	15	M8	7	M16x1.5	17	30	106	25	37	175	65	46,5	-
	63	32	45	20	G3/8"	15,50	M8	7	M16x1.5	17	31	120	23,50	37	189	75	56,5	40
	80	40	45	25	G3/8"	17,50	M10	10	M20x1.5	21	35	128	30	46	214	95	72	-
WSI WSB	100	40	55	25	G1/2"	18	M10	10	M20x1.5	21	36	138	32	51	229	115	89	45
	125	54	60	32	G1/2"	23	M12	17	M27x2	27	46	160	44,50	65	279	140	110	-
WSB	160	72	65	40	G3/4	26	M16	17	M36x2	36	51	182	57	80	334	180	140	-
	200	72	75	40	G3/4	25	M16	17	M36x2	36	50	180	56	94	346	220	175	-
	250	84	90	50	G1	26,5	M20	20	M42x2	46	52	198	67,50	105	387	270	220	81,50

Sipariş Kodu / Ordering Code

Model	OPSİYON OPTIONS	MANYETİK MAGNETIC	YASTIKLAMA CUSHIONING	ÇAP DIA.	STROK STROKE	STROK STROKE	MİL MALZEMESİ ROD MATERIAL	MİL UZUNLUĞU ROD LENGTH	DİŞ TİPİ SCREW TYPE	DİŞ ÖLÇÜSÜ SCREW SIZE	DİŞ UZUNLUĞU SCREW LENGTH	
WSI WSB	K	M	YY	80	250	50	N	L25	F	Z18M15	T15	
	BOŞ : STANDART T : TANDEM P : POZİSYONER D : ÇİFT MİLLİ A : STROK AYARLI HR : DÖNMEZ MİLLİ FS : ÖNDEM YAYLI RS : ARKADAN YAYLI LF : DÜŞÜK SÜRTÜNME V : SICAGA DAYANIKLI LR : YAGDA ÇALIŞABİLEN	- Blank Standart - Tandem - Positioner - Double Rod - Stroke Adjustable - Hexagonal Rod - Front Spring (60mm ye kadar) - Rear Spring (60mm ye kadar) - Low Friction - Heat Resistance (0 to 150°C) - Working With oil (Bar oil pressure)	BOŞ : MANYETİKSİZ Blank : Without Magnet M : MANYETİK M : With Magnet	BOŞ : YASTIKSIZ Blank : Uncushioned YY : YASTIKLI YY : Cushioned	PİSTON ÇAPII mm Piston Dia	STROK (mm) Stroke	STROK (mm) Stroke SADECE POZİSYONER İÇİN Just Positioner Cylinders	SS : PASLANMAZ Inox N : İNDÜKSİYONLU Induction BOŞ : STANDART Blank : Standart	Lx (mm) - BOŞ : STANDART Blank : Standart	F : DİŞİ BOŞ : STANTART Blank : Standart	Zx : ÇAP x HATVE Zx : Dia x Pitch BOŞ : STANDART Blank : Standart	Ex (mm) BOŞ : STANDART Blank : Standart

WAHRC - Dönmez Milli Silindir ISO 15552 (DIN ISO 6431)
WAHRC - Non Rotating Rod Cylinders



Sipariş Kodu / Ordering Code

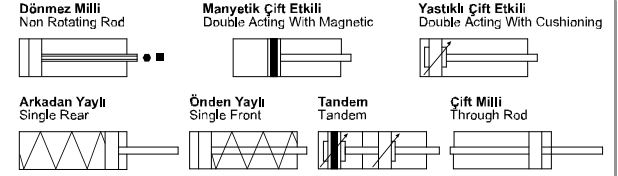
WAHRC M YY 000 X 000

- Strok-mm / Stroke-mm
- Nominal Çap-mm / Piston Dia-mm
- Yastıklama / Cushioning
- Manyetik / Magnetic
- Seri / Serie

Sensörler / Sensors

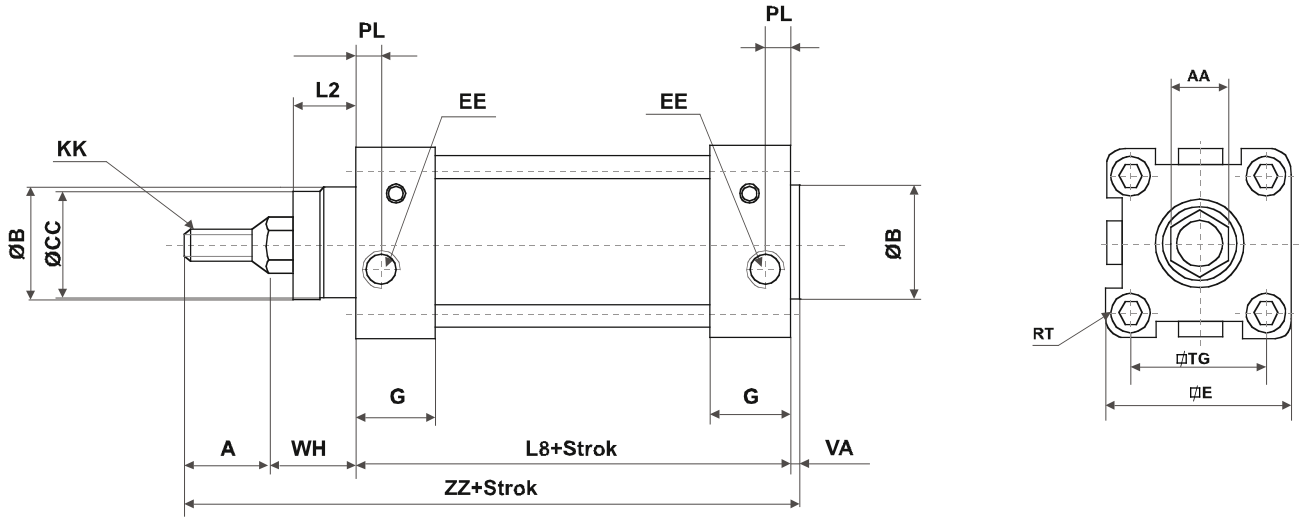
KT-21R (Sy/Pg:3-01) KT-50 (Sy/Pg:3-07)

Opsiyon Çizelgesi / Option Chart



* Opsiyonların birlikte kullanımı için bilgi alınır. / Please contact us different configurations.

Teknik Çizim / Technical Drawing



Piston Ø	A	AA	EE	PL	RT	KK	G	L8	VA	WH	ZZ	E	TG	CC	L2
32	22	10	G1/8"	15.5	M6	M10x1.25	25	94	4	26	146	46	32.5	28.7	18
40	24	14	G1/4"	14	M6	M12x1.25	29.5	105	4	30	163	54	38	33.7	21
50	32	19	G1/4"	14	M8	M16x1.5	29.5	106	4	37	179	64	46.5	37.5	28
63	32	19	G3/8"	17	M8	M16x1.5	35.5	121	4	37	194	75	56.5	42.3	28.5
80	40	23	G3/8"	16.4	M10	M20x1.5	36	128	4	46	218	93	72	43	34.7
100	40	23	G1/2"	18.8	M10	M20x1.5	39	138	4	51	233	110	89	53	38.2

Teknik Özellikler

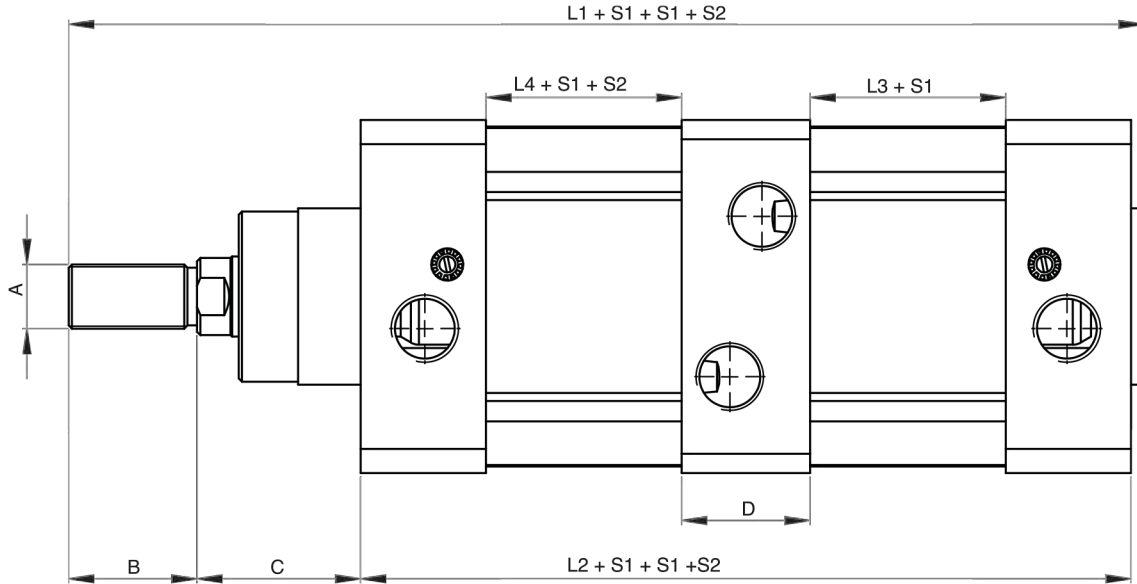
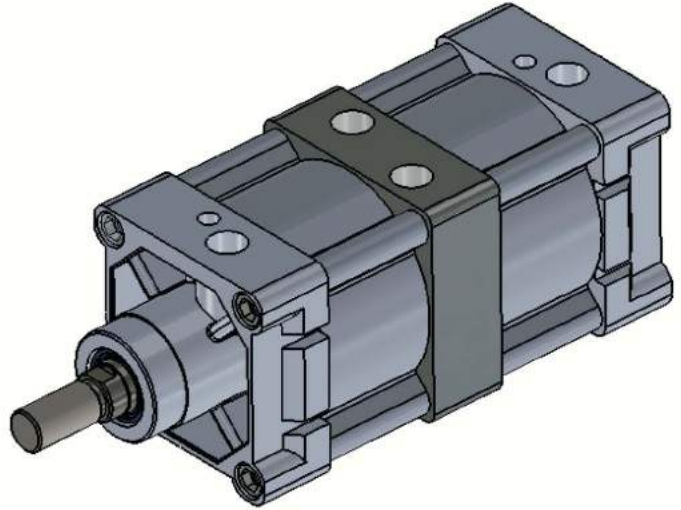
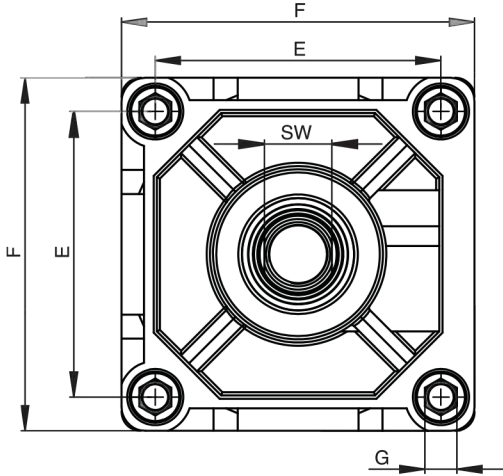
- ISO 15552 (DIN ISO 6431) Standardına uygundur.
- Alüminyum gövde (Bakınız Sayfa 2-26)
- Ø 32 - 40 - 50 - 63 - 80 - 100 mm.ye kadar nominal çaplarda.
- 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm kurs standartlarında (DIN 4393)
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Köşeli mil yapısı nedeniyle ilave klavuz yataklama gerektirmez.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

Technical Specifications

- Produced according to ISO 15552 (DIN ISO 6431)
- Aluminium body (Look page 2-26)
- In nominal diameters Ø 32 - 40 - 50 - 63 - 80 - 100 mm.
- In standart strokes (DIN 4393) 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- Additional guide is not necessary by it's hexagonal rod shape.
- Please contact us for option dimensions.

WAC MYY-POZİZYONER PİSTON ÖLÇÜ TABLOSU

WAC MYY-POSITIONER PISTON SIZE TABLE

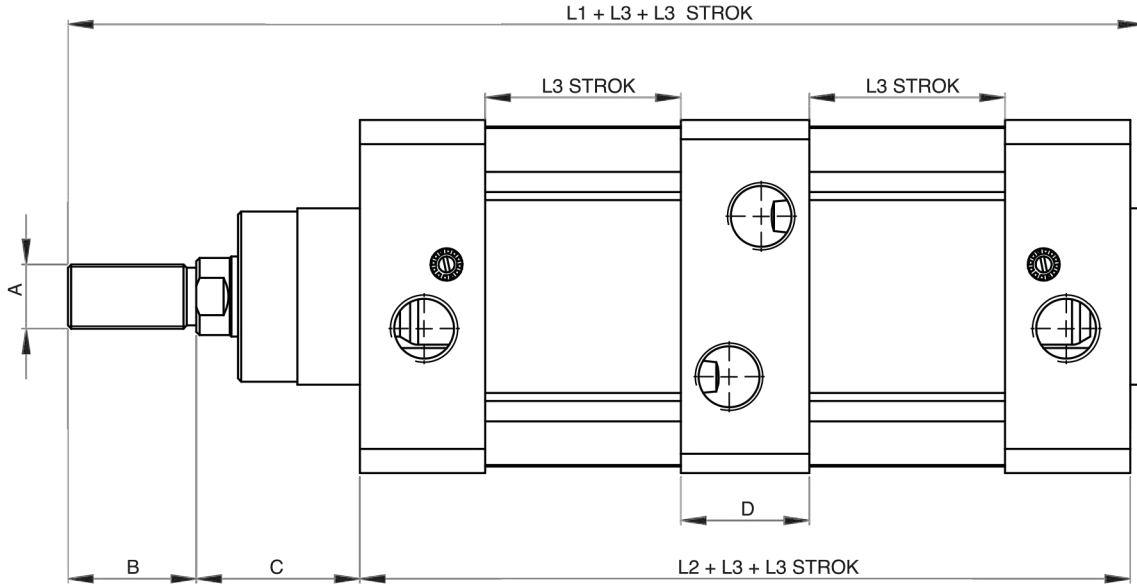
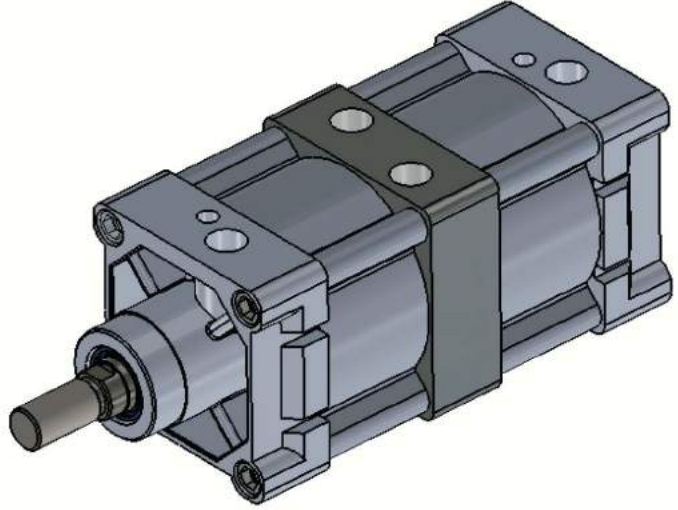
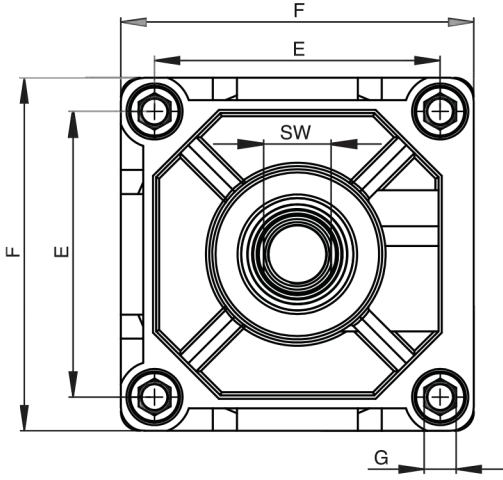


WAC POZİZYONER ÖLÇÜLERİ	A	B	C	D	E	F	G	L1	L2	L3
Ø32	M10 x 1.25	22	26	25	32,5	46	M6	215	163	44
Ø40	M12 x 1.25	24	30	29,5	38	54	M6	238,5	180,5	46
Ø50	M16 x 1.5	32	37	29	46,5	64	M8	253	180	46
Ø63	M16 x 1.5	32	37	35	56,5	75	M8	279	206	50
Ø80	M20 x 1.5	40	46	36	72	93	M10	310	220	56
Ø100	M20 x 1.5	40	51	40	89	110	M10	335	240	61
Ø125	M27 x 2	54	65	43	110	136	M10	400	281	71

Not: WAC silindir sayfasından sipariş ediniz.

WAC MYY-TANDEM PİSTON ÖLÇÜ TABLOSU

WAC MYY-TANDEM PISTON SIZE TABLE

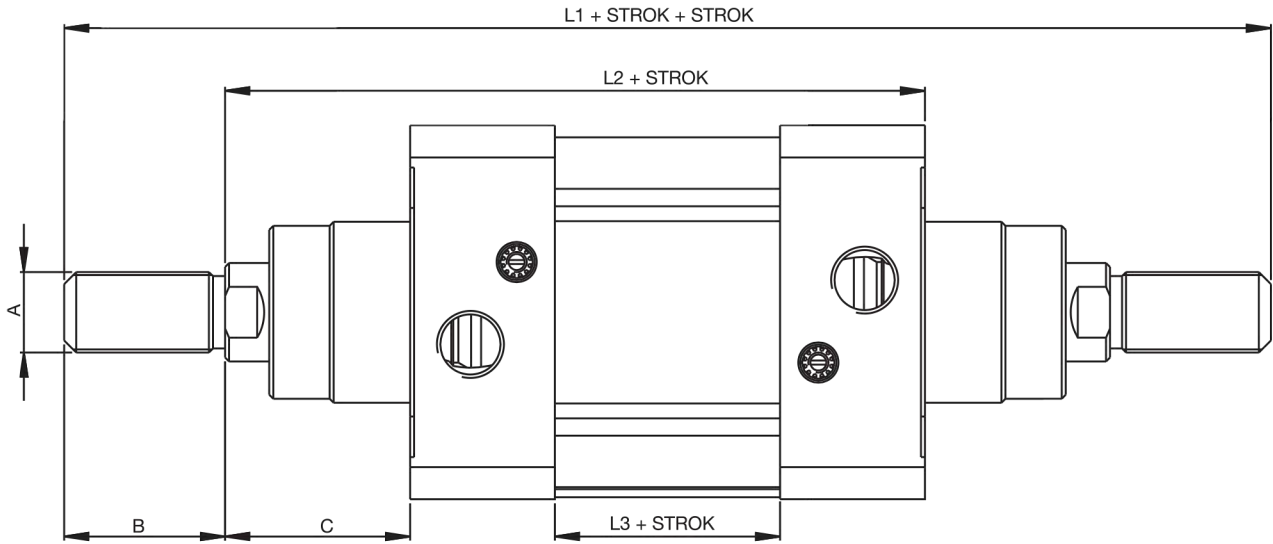
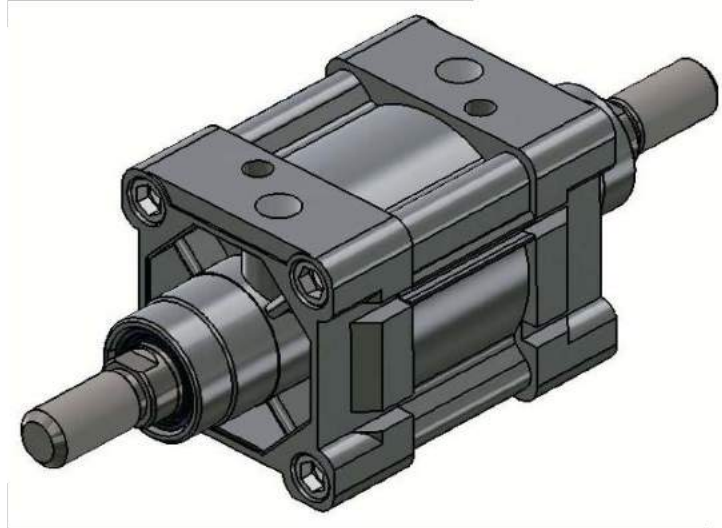
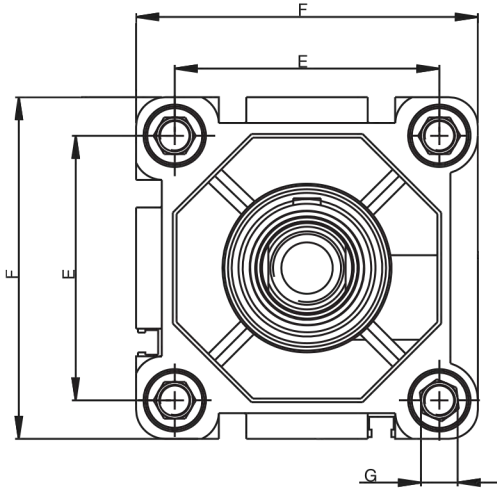


WAC TANDEM ÖLÇÜLERİ	A	B	C	D	E	F	G	SW	L1	L2	L3
Ø32	M10 x 1.25	22	26	25	32,5	46	M6	10	215	163	44
Ø40	M12 x 1.25	24	30	29,5	38	54	M6	14	238,5	180,5	46
Ø50	M16 x 1.5	32	37	29	46,5	64	M8	17	253	180	46
Ø63	M16 x 1.5	32	37	35	56,5	75	M8	17	279	206	50
Ø80	M20 x 1.5	40	46	36	72	93	M10	21	310	220	56
Ø100	M20 x 1.5	40	51	40	89	110	M10	21	335	240	61
Ø125	M27 x 2	54	65	43	110	136	M10	27	400	275	71

Not: WAC silindir sayfasından sipariş ediniz.

WAC ÇİFT MİLLİ ÖLÇÜ TABLOSU

WAC DOUBLE MILE SIZE TABLE

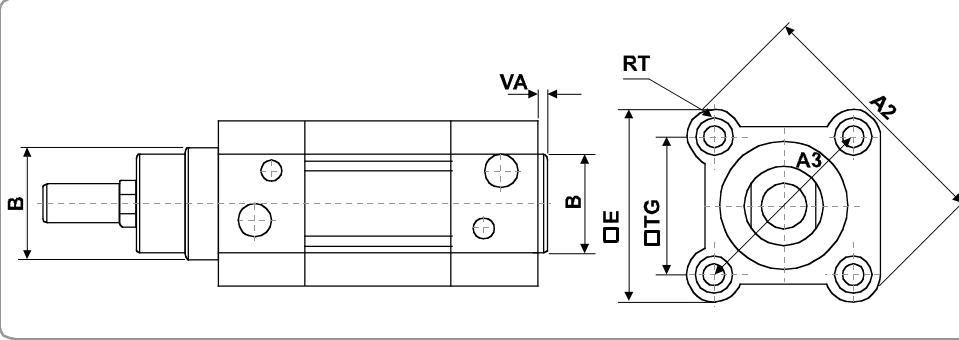


WAC ÇİFT MİLLİ ÖLÇÜLERİ	A	B	C	E	F	G	L1	L2	L3
Ø32	M10 x 1.25	22	26	32,5	46	M6	190	120	44
Ø40	M12 x 1.25	24	30	38	54	M6	213	135	46
Ø50	M16 x 1.5	32	37	46,5	64	M8	245	144	46
Ø63	M16 x 1.5	32	37	56,5	75	M8	260	159	50
Ø80	M20 x 1.5	40	46	72	93	M10	300	174	56
Ø100	M20 x 1.5	40	51	89	110	M10	319	229	61
Ø125	M27 x 2	54	65	110	136	M10	399	280	71

Not: WAC silindir sayfasından sipariş ediniz.

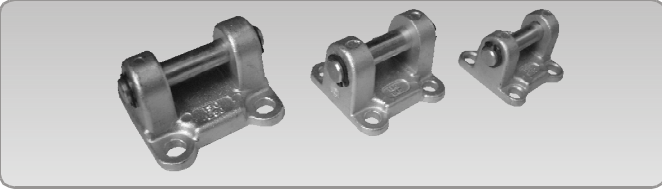
SİLİNDİR BAĞLANTI ELEMANLARI / CYLINDER MOUNTING PARTS ISO 15552 (DIN ISO 6431)

Piston Ø	A2	A3	B	E	RT	TG	VA
32	59	46	30	45	M6	32.5	4
40	70.2	53.7	35	54	M6	38	4
50	84.2	65.7	40	65	M8	46.5	4
63	99.5	80	45	76	M8	56.5	4
80	123.8	101.8	45	94	M10	72	5
100	148.8	125.9	55	112	M10	89	6
125	180.5	155.5	60	135	M12	110	7

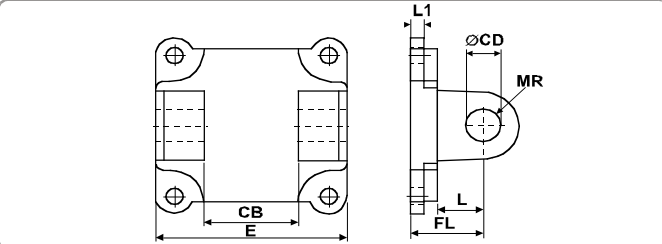


Eklem Bağlantı / Swivel Flange ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC



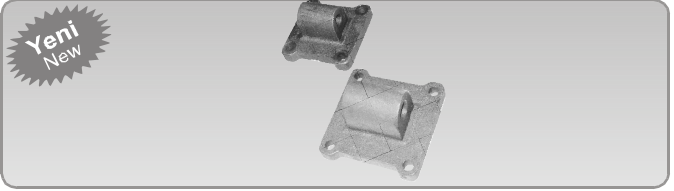
Teknik Çizim / Technical Drawing



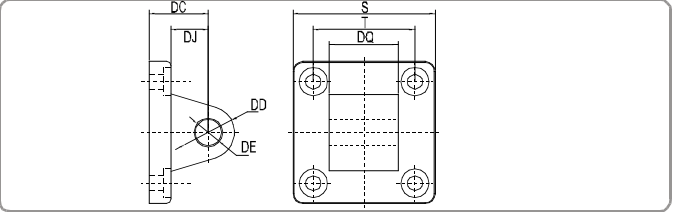
Piston Ø	CB	CD	E	FL	L	L1
32	26	10	45	22	13	9
40	28	12	52	25	16	9
50	32	12	60	27	16	11
63	40	16	70	32	21	11
80	50	16	90	36	22	14
100	60	20	110	41	27	14
125	70	25	130	50	35	15

CA - Eklem Bağlantı / Swivel Flange ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC



Teknik Çizim / Technical Drawing



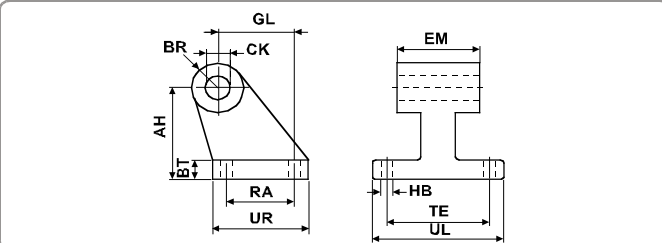
Piston Ø	S	T	DC	DD	DE	DJ	DQ
32	47	32.5	22	9	10	13	25.8
40	53	38	25	12	12	16	27.8
50	65	46.5	27	12	12	17	31.7
63	75	56.5	32	15	16	22	39.7
80	95	72	36	15	16	22	49.7
100	115	89	41	20	20	27	59.7
125	140	110	50	25	25	33	69.7
160	180	140	55	30	30	33.5	89.7
200	220	175	60	30	30	37	89.7

Yer Bağlantı / Clevis Foot Mounting ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC



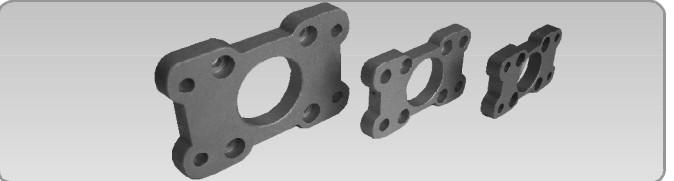
Teknik Çizim / Technical Drawing



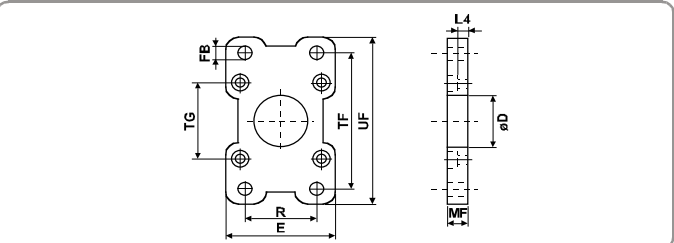
Piston Ø	AH	BR	BT	CK	EM	GL	HB	RA	TE	UL	UR
32	32	10	8	10	26	21	6.5	18	38	51	31
40	36	11	10	12	28	24	6.5	22	41	54	35
50	45	13	12	12	32	33	9	30	50	65	45
63	50	15	12	16	40	37	9	35	52	67	50
80	63	15	14	16	50	47	11	40	66	86	60
100	71	19	15	20	60	55	11	50	76	96	70
125	90	22.5	20	25	70	70	14	60	94	124	90

Flanş Bağlantı / Mounting Flange ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC



Teknik Çizim / Technical Drawing

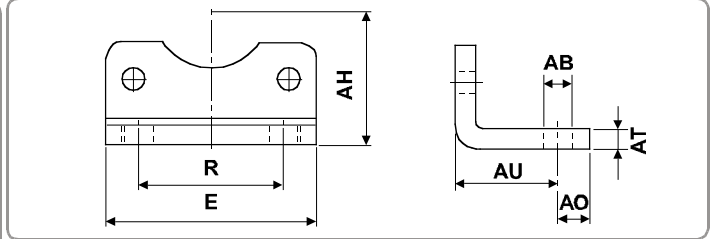
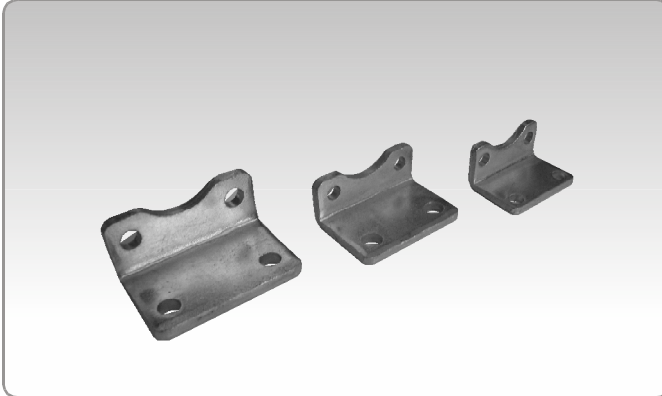


Piston Ø	D	E	FB	L4	MF	R	TF	TG	UF
32	30	45	7	5	10	32	64	32.5	80
40	35	54	9	5	10	36	72	38	90
50	40	65	9	6.5	12	45	90	46.5	110
63	45	76	9	6.5	12	50	100	56.5	120
80	45	94	12	9	16	63	126	72	150
100	55	112	14	9	16	75	150	89	175
125	60	135	16	10.5	20	90	180	110	210

Ayak Bağlantı / Clevis Foot Bracket ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC

Teknik Çizim / Technical Drawing

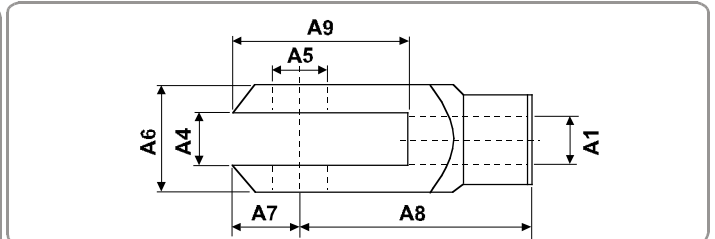


Piston Ø	AB	AH	AO	AT	AU	E	R
32	7	32	6	5	24	45.5	32
40	10	36	9	5	28	54.5	36
50	10	45	9	6	32	65	45
63	10	50	12	6	32	76	50
80	12	63	15	6	41	94	63
100	14	71	17	6	41	112	75
125	16	90	22	8	45	131	90

Çatal Bağlantı / Rod Clevis ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC

Teknik Çizim / Technical Drawing

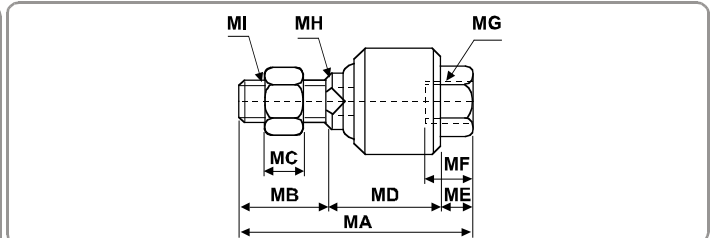


Piston Ø	A1	A4	A5	A6	A7	A8	A9
32	M10x1.25	10	10	20	12	40	32
40	M12x1.25	12	12	24	14	48	38
50	M16x1.5	16	16	32	19	64	51
63	M16x1.5	16	16	32	19	64	51
80	M20x1.5	20	20	40	25	80	65
100	M20x1.5	20	20	40	25	80	65
125	M27x2.0	25	25	50	38	110	92

Kasıntı Alıcı / Float Connect ISO 15552 (DIN ISO 6431)

Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC

Teknik Çizim / Technical Drawing

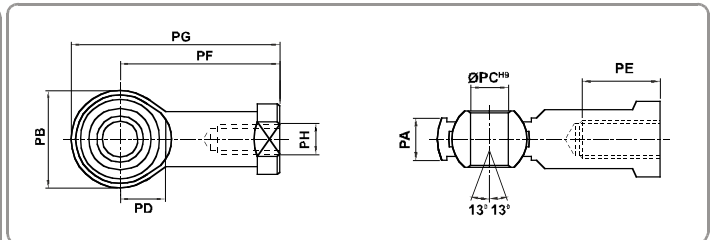


Piston Ø	MA	MB	MC	MD	ME	MF	MG	MH	MI
32	73	20	6	45	8	14	M10x1.25	12	M10x1.25
40	77	24	7	46	7	14	M12x1.25	12	M12x1.25
50	106	32	8	62	12	20	M16x1.5	19	M16x1.5
63	106	32	8	62	12	20	M16x1.5	19	M16x1.5
80	122	40	10	68	14	32	M20x1.5	19	M20x1.5
100	122	40	10	68	14	32	M20x1.5	19	M20x1.5
125	147	54	13.5	77	16	38	M27x2.0	24	M27x2.0

Manda Gözü / P-shape Joint ISO 15552 (DIN ISO 6431)

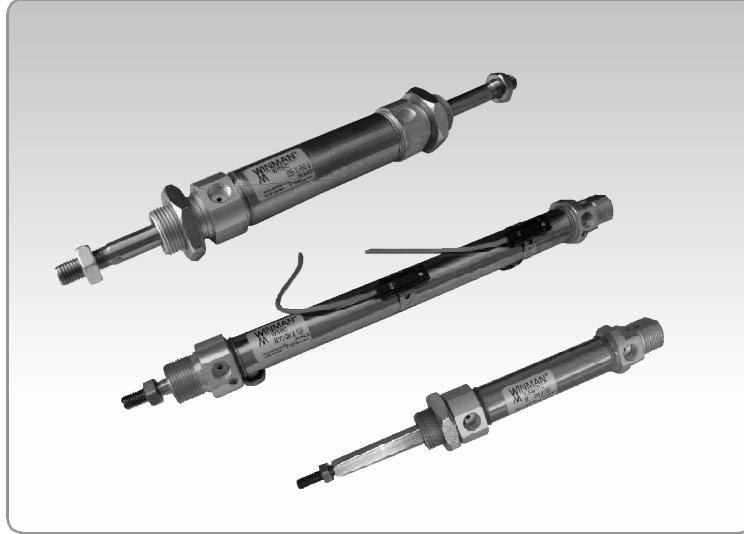
Kullanıldığı Ürünler / Used Product WAC, WAP, WAHRC

Teknik Çizim / Technical Drawing

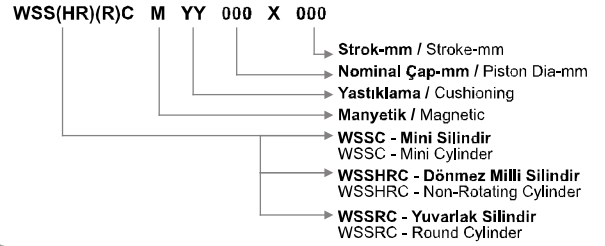


Piston Ø	PA	PB	PC	PD	PE	PF	PG	PH
32	14	28	10	26	20	43	57	M10x1.25
40	16	32	12	30	22	50	66	M12x1.25
50	21	42	16	39	28	64	85	M16x1.5
63	21	42	16	39	28	64	85	M16x1.5
80	25	50	20	46	33	77	102	M20x1.5
100	25	50	20	46	33	77	102	M20x1.5
125	37	70	30	64	51	110	145	M27x2.00

WSS (HR) (R) C - Mini Silindirler DIN ISO 6432 / DIN ISO 6432
WSS (HR) (R) C - Mini Cylinders

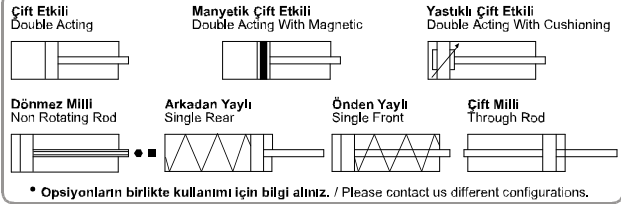


Sipariş Kodu / Ordering Code

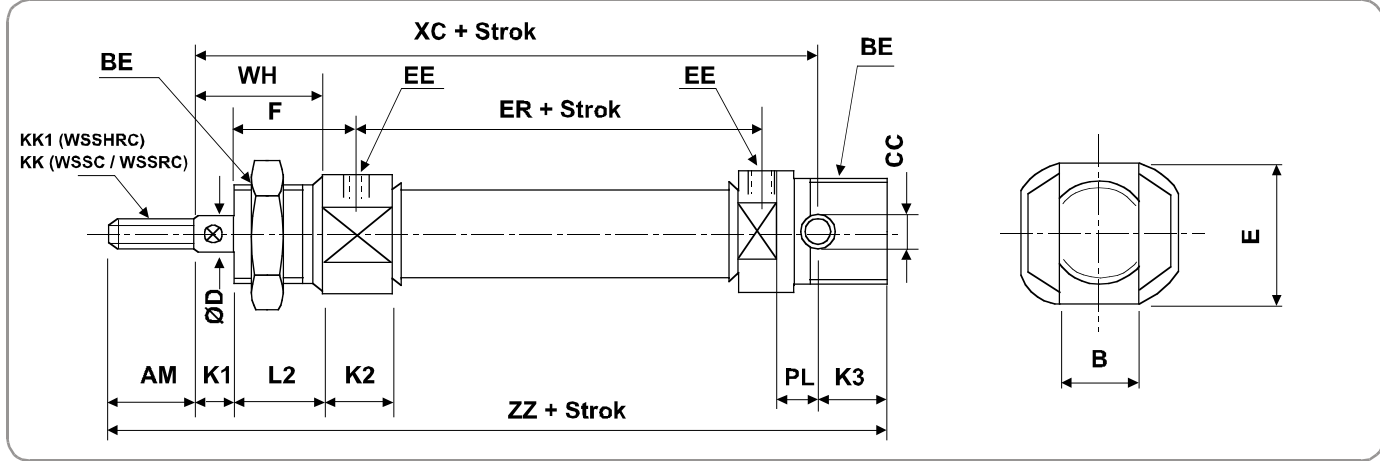


Sensörler / Sensors KT-50 (Sy/Pg:3-07)+BL1

Opsiyon Çizelgesi / Option Chart



Teknik Çizim / Technical Drawing



	Piston Ø	AM	KK	KK1	ØD	∅D	EE	PL	BE	WH	XC	B	ZZ	L2	CC	E	K1	K2	K3	F	ER
WSSC	8	12	M4 x 0.7	-	4	-	M5	6	M 12 x 1.25	16	64	8	86	12	4	15	4	9	10	16.5	37
	10	12	M4 x 0.7	-	4	-	M5	6	M 12 x 1.25	16	64	8	86	12	4	15	4	9	10	16.5	37
	12	16	M6 x 1.0	-	6	-	M5	9	M 16 x 1.50	22	75	12	105	16	6	19	5	9	14	21.5	41
	16	16	M6 x 1.0	-	6	-	M5	9	M 16 x 1.50	22	82	12	111	16	6	22	5	10.5	13	22.5	45
WSSHRC	20	20	M8 x 1.25	M6 x 1.0	8	8	1/8"	12	M 22 x 1.50	24	95	17	130	18	8	27	6	15.5	15	26	52
	25	22	M10 x 1.25	M6 x 1.0	10	8	1/8"	12	M 22 x 1.50	28	104	17	141	22	8	27	6	15.5	15	30	53
WSSRC	32	22	M10 x 1.25	-	12	-	1/8"	13	M 26 x 1.50	21	96	20	134	13	10	34	8	15	12	20	44
	40	24	M12 x 1.25	-	16	-	1/8"	14	M 32 x 2.00	25	124	20	164	16	10	42	9	21.5	12	26.5	61

Teknik Özellikler

- DIN ISO 6432 Standardına uygundur.
- Paslanmaz çelik gövde (Bakınız Sayfa 2-26)
- Ø 8 - 10 - 12 - 16 - 20 - 25 - 32 - 40 mm. ye kadar nominal çaplarda.
- 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm kurs standartlarında (DIN 4393)
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- WSSHRC serilerinde köşeli mil yapısı nedeniyle ilave klavuz yataklama gerektirmez.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

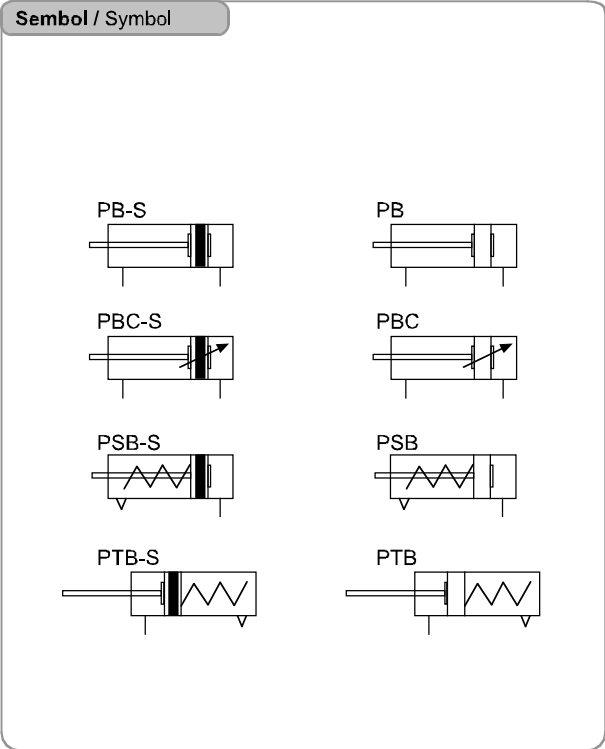
Technical Specifications

- Produced according to DIN ISO 6432
- Stainless Steel body (Look page 2-26)
- In nominal diameters Ø 8 - 10 - 12 - 16 - 20 - 25 - 32 - 40 mm.
- In standart strokes (DIN 4393) 25 - 50 - 80 - 100 - 125 - 160 - 200 - 250 - 320 - 400 - 500 mm
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- At the WSSHRC series, additional guide is not necessary by it's hexagonal rod shape.
- Please contact us for option dimensions.

PB - Mikro Silindirler / PB - Micro Cylinders



Yeni
New



Sensörler / Sensors KT-50 (Sy/Pg:3-07)+BL1 (Sy/Pg:3-09)

Özellikler / Specification

Piston Çapı / Bore Size	4	6	10	12	16
Çalışma Tipi / Action Type	Çift Etkili / Double Acting Tek Etkili (Önden Yaylı) Single Acting (Push)	Çift Etkili Double Acting	Tek Etkili (Önden Yaylı) Single Acting (Push)	Tek Etkili (Arkadan Yaylı) Single Acting (Pull)	
Akışkan / Fluid	40 µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)				
Basınç Aralığı / Pressure Range	Çift Etkili / Double Acting	2.0~7.0bar (0.2~0.7MPa) (28~100Psi)	1.2~7.0bar (0.12~0.7MPa) (16~100Psi)	0.6~7.0bar / 0.06~0.7MPa / 9~100Psi	
	Tek Etkili / Single Acting	3.0~7.0bar (0.3~0.7MPa) (36~100Psi)	2.0~7.0bar (0.2~0.7MPa) (28~100Psi)	2~7.0bar / 0.2~0.7MPa / 28~100Psi	
Test Basıncı / Proof Pressure	10.5bar / 1.05MPa / 150Psi				
Sıcaklık / Temperature	-5~70				
Hız Aralığı / Speed Range (mm/s)	50~500	50~750			
Yastıklama Tipi / Cushion Type	-	Tampon / Bumper			
	-	Ayarlanabilir / Variable			
Bağlantı Ölçüsü / Port Size	Hortum / Tube	M5 x 0.8			

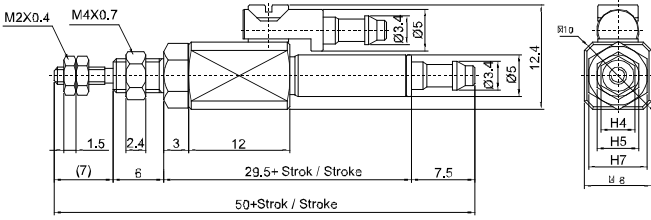
Sipariş Kodu / Ordering Code

PB	10	30	S	CB
Model	Piston Çapı(mm)	Strok	Manyetik	Arka Kapak Tipi
Model	Bore Size(mm)	Stroke	Magnet	Back Cover Type
PB: Çift Etkili / Double Acting			Boş: Manyetiksiz Blank: Without Magnet S: Manyetikli / With Magnet	U: Dikey / Perpendicular (90 0*) R: Eksenel / Axial CB : Çift Çatalı / Double Clevis
PCB: Çift Etkili ve Yastıklamalı/ Double Acting with Cushioning				
PSB: Tek Etkili (Önden Yaylı) / Double Acting (Push Type)				
PTB: Tek Etkili (Arkadan Yaylı) / Double Acting (Pull Type)				

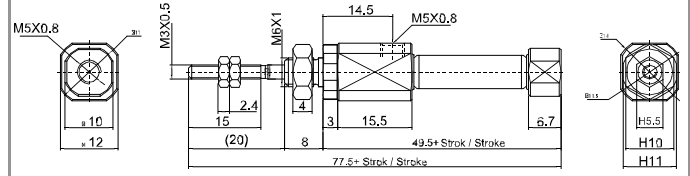
PB - Mikro Silindirler / PB - Micro Cylinders

Teknik Çizimler / Technical Drawings

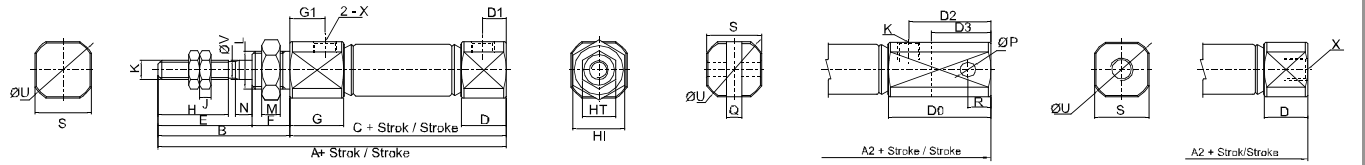
PB 4



PB 6



PB 10 ~ 16



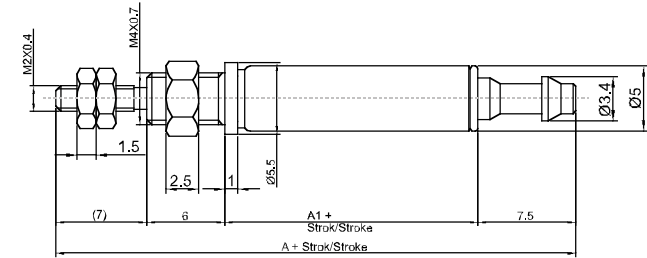
PB10CB

PB10-R

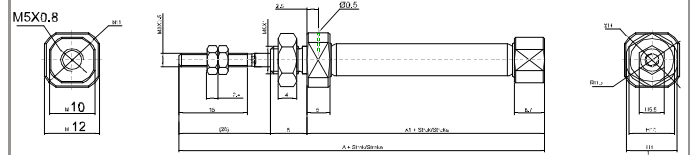
Ölçü / Model Item / Model	A	A1	A2	B	C	D	D0	D1	D2	D3	E	F	G	G1	H	I	J
10	74	87	74	28	46	9.5	22.5	5	18	13	20	8	11.5	7.5	15	11	2.4
12	74	92	74	28	46	9.5	27.5	5	23	18	20	8	11.5	7.5	15	14	4
16	76	94	76	28	48	9.2	27.2	4.8	22.8	18	20	8	11.8	7.5	15	14	4

Ölçü / Model Item / Model	K	L	M	N	P	Q	R	S	T	U	V	X
10	M4 x 0.7	M8 x 1.0	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

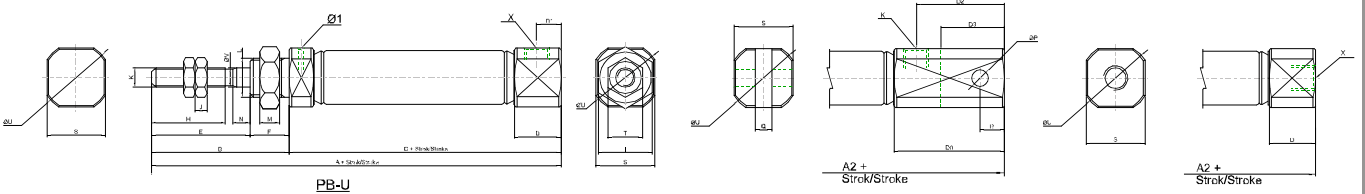
PSB 4



PSB 6



PSB 10 ~ 16



PB-CB

PB-R

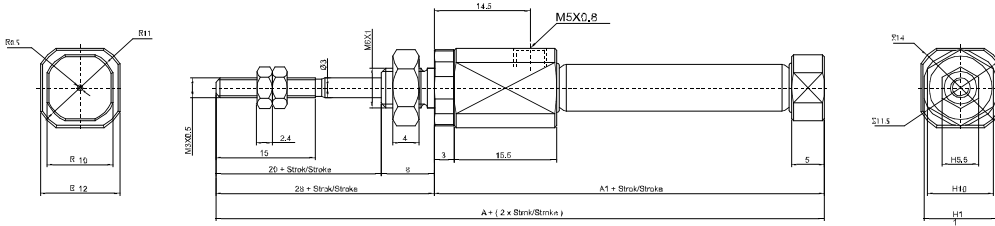
Ölçü / Model Item / Model	A				A1				A2				B	C				D	D0
	Stroke	5~15	16~30	31~45	46~60	5~15	16~30	31~45	46~60	5~15	16~30	31~45		46~60	5~15	16~30	31~45		
10	73.5	81	93	105	91.5	99	111	123	73.5	81	93	105	28	45.5	53	65	77	9.5	22.5
12	73.5	81	93	105	91.5	99	111	123	73.5	81	93	105	28	45.5	53	65	77	9.5	27.5
16	74.5	83	95	107	92.5	101	113	125	74.5	83	95	107	28	46.5	55	67	79	9.2	27.2

Ölçü / Model Item / Model	D1	D2	D3	E	F	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	X
10	5	18	13	20	8	15	11	2.4	M4 x 0.7	M8 x 1.0	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	5	23	18	20	8	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	4.8	22.8	18	20	8	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

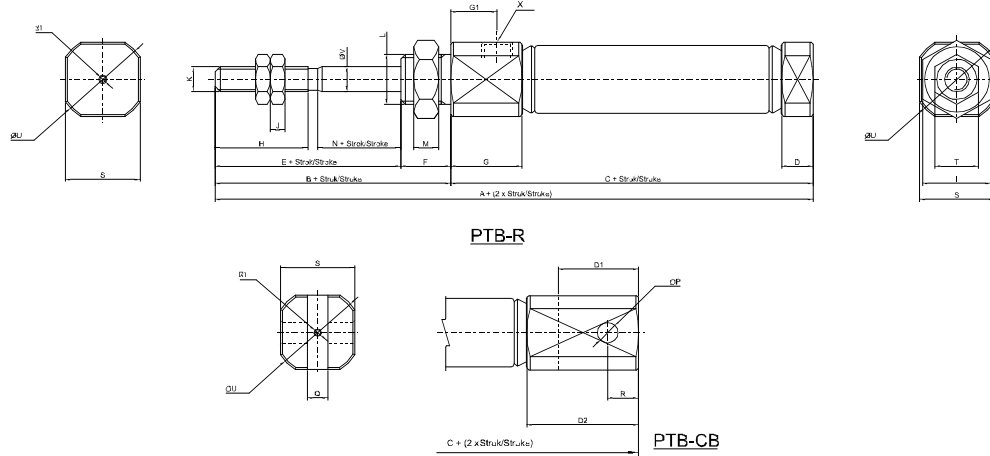
PB - Mikro Silindirler / PB - Micro Cylinders

Teknik Çizimler / Technical Drawings

PTB 4



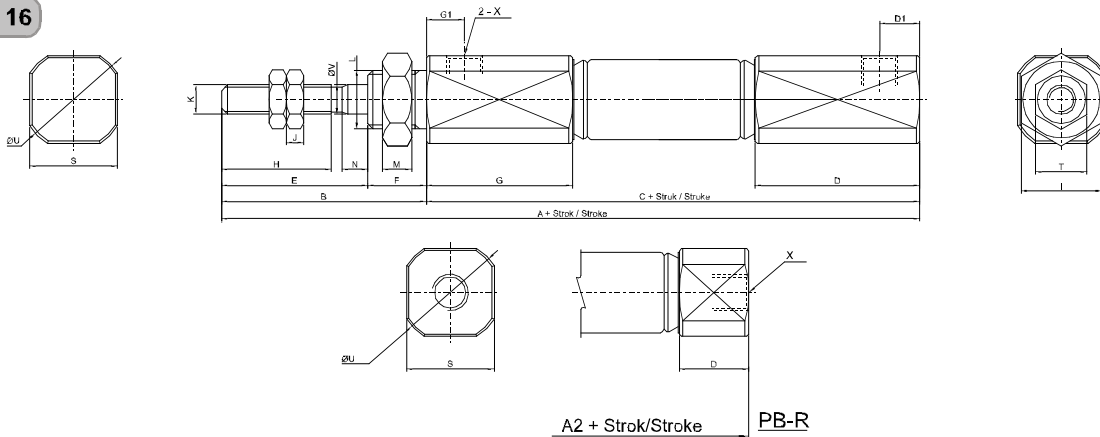
PTB 10 ~ 16



Ölçü / Model Item / Model	A				A1				B	C				D	D1	D2
	Stroke	5~15	16~30	31~45	46~50	5~15	16~30	31~45		46~50	5~15	16~30	31~45			
10	76.5	84	96	108	89.5	97	109	121	28	48.5	56	68	80	5	13	18
12	76.5	84	96	108	94.5	102	114	126	28	48.5	56	68	80	5	18	23
16	77.5	86	98	110	95.5	104	116	128	28	49.5	58	70	82	5	18	23

Ölçü / Model Item / Model	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	X
10	20	8	11.5	15	11	2.4	M4 x 0.7	M8 x 1.0	4	3.5	3.3	3.3	5	12	7	14	4	M5 x 0.8
12	20	8	11.5	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	15	8	17	5	M5 x 0.8
16	20	8	11.5	15	14	4	M5 x 0.8	M10 x 1.0	4	3.5	5	6.6	8	18	8	20	5	M5 x 0.8

PCB 10 ~ 16



Ölçü / Model Item / Model	A	C	D	D1	E	F	G	G1	H	I	J
10	93	65	20	6.5	20	8	21	7.5	15	11	2.4
12	93	65	20	6.5	20	8	21	7.5	15	14	4
16	94	66	20	6.5	20	8	21	7.5	15	14	4

Ölçü / Model Item / Model	K	L	M	S	T	U	V	X
10	M4 x 0.7	M8 x 1.0	4	12	7	14	4	M5 x 0.8
12	M5 x 0.8	M10 x 1.0	4	15	8	17	5	M5 x 0.8
16	M5 x 0.8	M10 x 1.0	4	18	8	20	5	M5 x 0.8

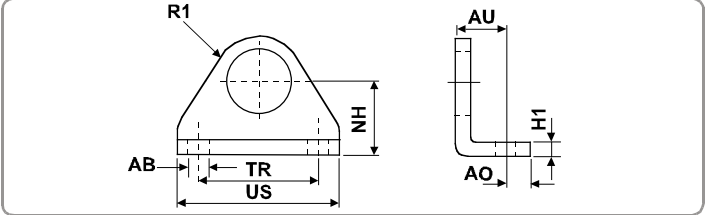
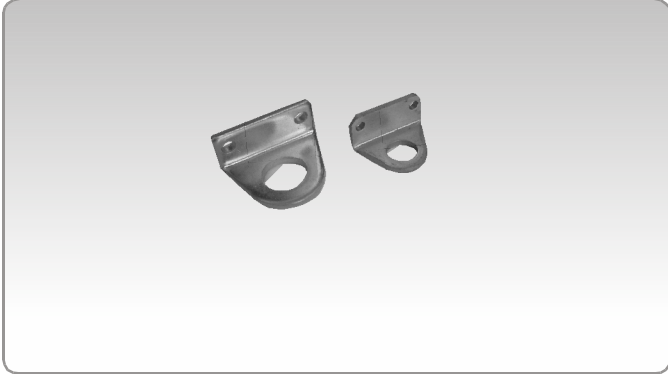
Mini Silindir Bağlantı Elemanları / Mini Cylinder Mounting Parts

DIN ISO 6432

Mini Ayak Bağlantı / Mini Foot Bracket DIN ISO 6432

Kullanıldığı Ürünler / Used Product **WSSC, WSSRC, WSSHRC**

Teknik Çizim / Technical Drawing

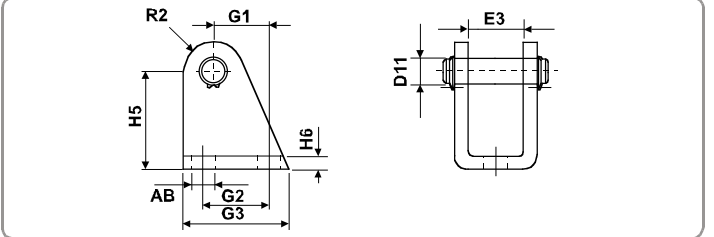


Piston Ø	AB	AO	AU	H1	NH	R1	TR	US
12	5.5	6	14	4	20	13	32	42
16	5.5	6	14	4	20	13	32	42
20	6.6	8	17	5	25	20	40	54
25	6.6	8	17	5	25	20	40	54

Mini Eklem Bağlantı / Mini Swivel Flange DIN ISO 6432

Kullanıldığı Ürünler / Used Product **WSSC, WSSRC, WSSHRC**

Teknik Çizim / Technical Drawing

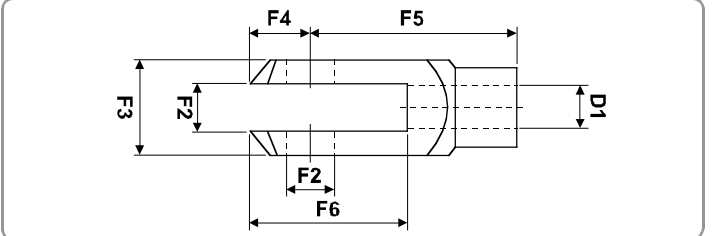
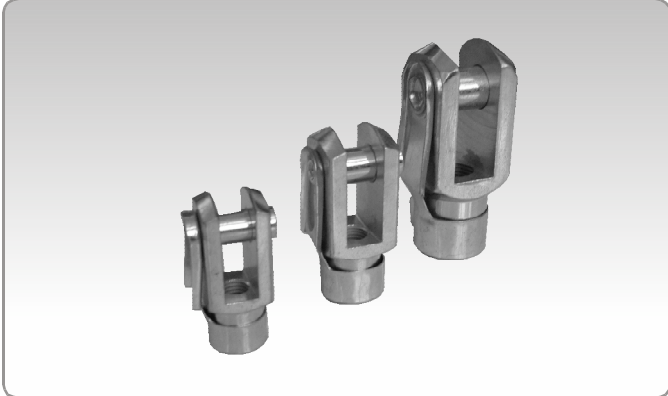


Piston Ø	AB	D11	E3	G1	G2	G3	H5	H6	R2
12	5.5	6	12.1	13	15	25	27	3	7
16	5.5	6	12.1	13	15	25	27	3	7
20	6.6	8	16.1	16	20	32	30	4	10
25	6.6	8	16.1	16	20	32	30	4	10

Mini Çatal / Mini Rod Clevis DIN ISO 6432

Kullanıldığı Ürünler / Used Product **WSSC, WSSRC, WSSHRC**

Teknik Çizim / Technical Drawing

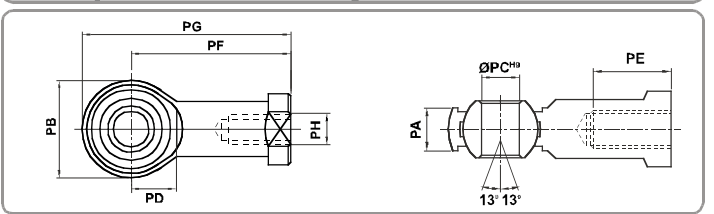


Piston Ø	D1	F2	F3	F4	F5	F6
12	M4	4	8	5	16	13
16	M6	6	12	7	24	19
20	M8	8	16	10	32	26
25	M10x1.5	10	20	12	40	32

Manda Gözü / P-shape Joint DIN ISO 6432

Kullanıldığı Ürünler / Used Product **WSSC, WSSRC, WSSHRC**

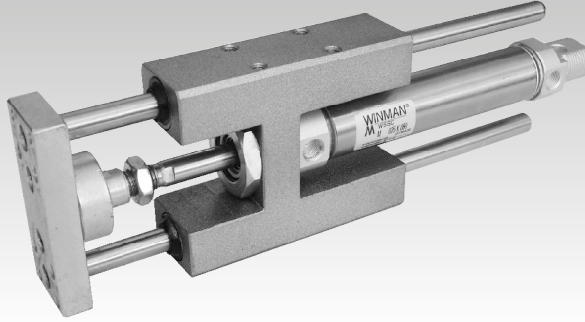
Teknik Çizim / Technical Drawing



Piston Ø	PA	PB	PC	PE	PF	PG	PH
12	7	16	6	14	30	39	M6x1.0
16	7	16	6	14	30	39	M6x1.0
20	9	19	8	17	36	47	M8x1.25
25	11	22	10	21	43	56	M10x1.25
32	11	22	10	21	43	56	M10x1.25
40	12	26	12	24	50	65	M12x1.25

WHRC - H Yataklar / WHRC - H Guides

ISO 15552 (DIN ISO 6431)

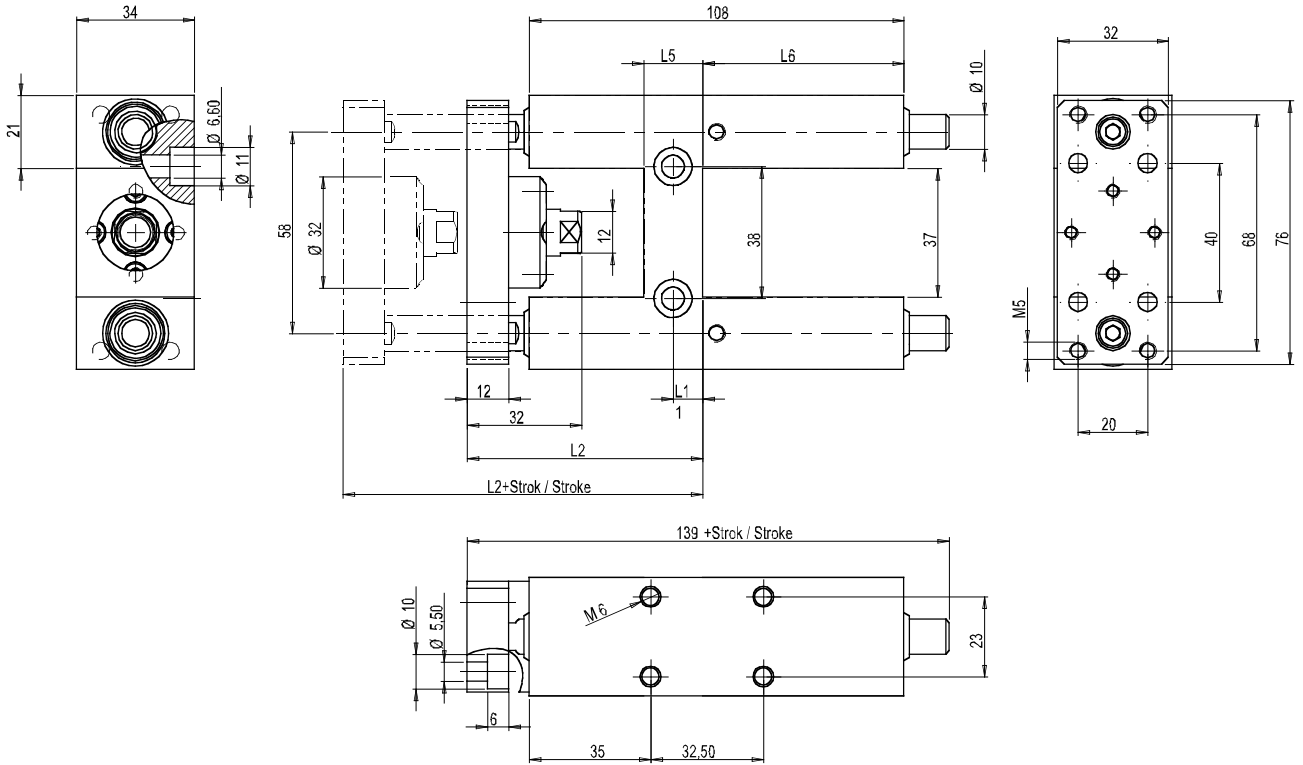


Sipariş Kodu / Ordering Code

WHRC 000 X 000
 Seri / Serie Strok-mm / Stroke-mm
 Nominal Çap-mm / Piston Dia-mm

Teknik Çizim / Technical Drawing

Ø 20 / 25



Piston Ø	L2	L5	L6	L11
WHRC 20 WHBC 20	63	13	60	6.5
WHRC 25 WHBC 25	65	17	58	8.5

Teknik Özellikler

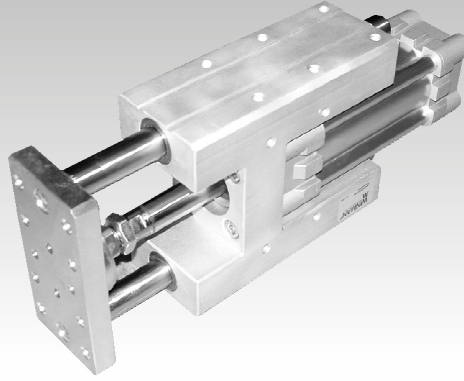
- DIN ISO 6432 Silindir ölçülerine uygundur.
- Ø 20 - 25 mm.ye kadar nominal çaplarda.
- Kılavuzlar bushing ve rulmanlı olabilmektedir.

Technical Specifications

- Produced according to DIN ISO 6432 cylinder dimension
- In nominal diameters Ø 20 - 25 mm.
- Brass bush or linear bearing type guiding available.

WHRC - H Yataklar / WHRC - H Guides

ISO 15552 (DIN ISO 6431)

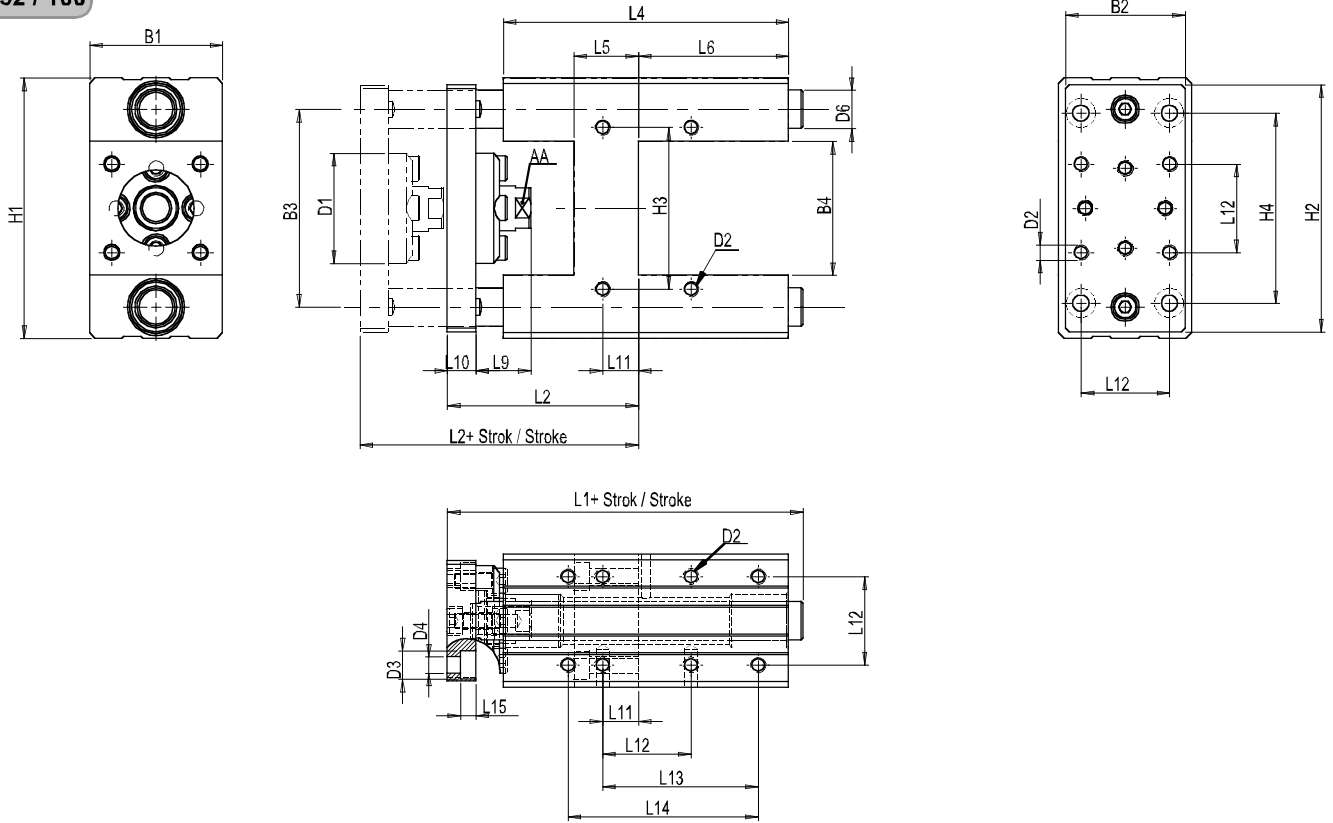


Sipariş Kodu / Ordering Code

WHRC 000 X 000
 Seri / Serie Strok-mm / Stroke-mm
 Nominal Çap-mm / Piston Dia-mm

Teknik Çizim / Technical Drawing

Ø 32 / 100



Piston Ø	AA	B1	B2	B3	B4	ØD1	D2	ØD3	ØD4	D6	H1	H2	H3	H4	L1	L2	L4	L5	L6	L9	L10	L11	L12	L13	L14	L15
32	15	50	45	74	50	42	M6	11	6.6	12	97	95	61	78	159	67	125	24	76	20	12	4.3	32.5	70.3	78	6
40	15	58	54	87	58.5	42	M6	11	6.6	16	115	110	69	84	169	75	140	28	81	20	12	11	38	84	-	7
50	21	70	63	104	70.5	58	M8	15	8.5	20	137	130	85	100	187	89	150	34	79	29	15	18.8	46.5	81.8	100	8
63	21	85	80	119	85.5	58	M8	15	8.5	20	152	145	100	105	222	89	182	34	111	29	15	15.3	56.5	105	-	8
80	27	105	100	148	106	78	M10	18	11	25	189	180	130	130	258	111	128	40	128	32	20	21	72	-	-	11
100	27	130	130	172	131	78	M10	18	11	25	213	200	150	150	263	116	138	40	128	32	20	24.5	89	-	-	11

Teknik Özellikler

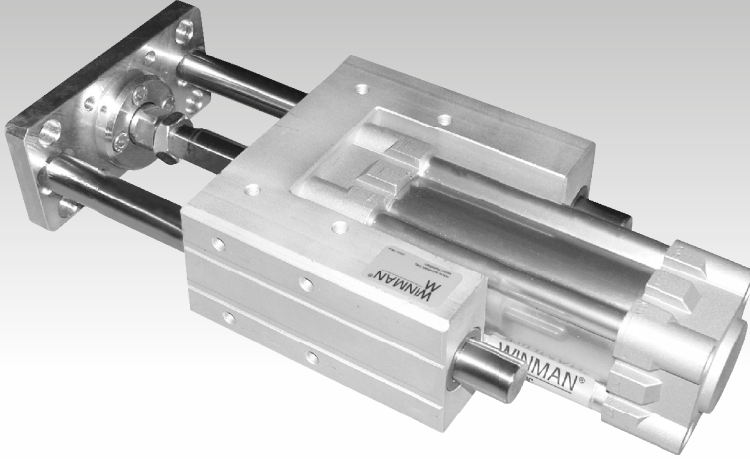
- ISO 15552 (DIN ISO 6431) Silindir ölçülerine uygundur.
- Ø 32 - 40 - 50 - 63 - 80 - 100 mm.ye kadar nominal çaplarda.
- Kılavuzlar bushing ve rulmanlı olabilmektedir.

Technical Specifications

- Produced according to ISO 15552 (DIN ISO 6431) cylinder dimension
- In nominal diameters Ø 32 - 40 - 50 - 63 - 80 - 100 mm.
- Brass bush or linear bearing type guiding available.

WURC - U Yataklar / WURC - U Guides

ISO 15552 (DIN ISO 6431)

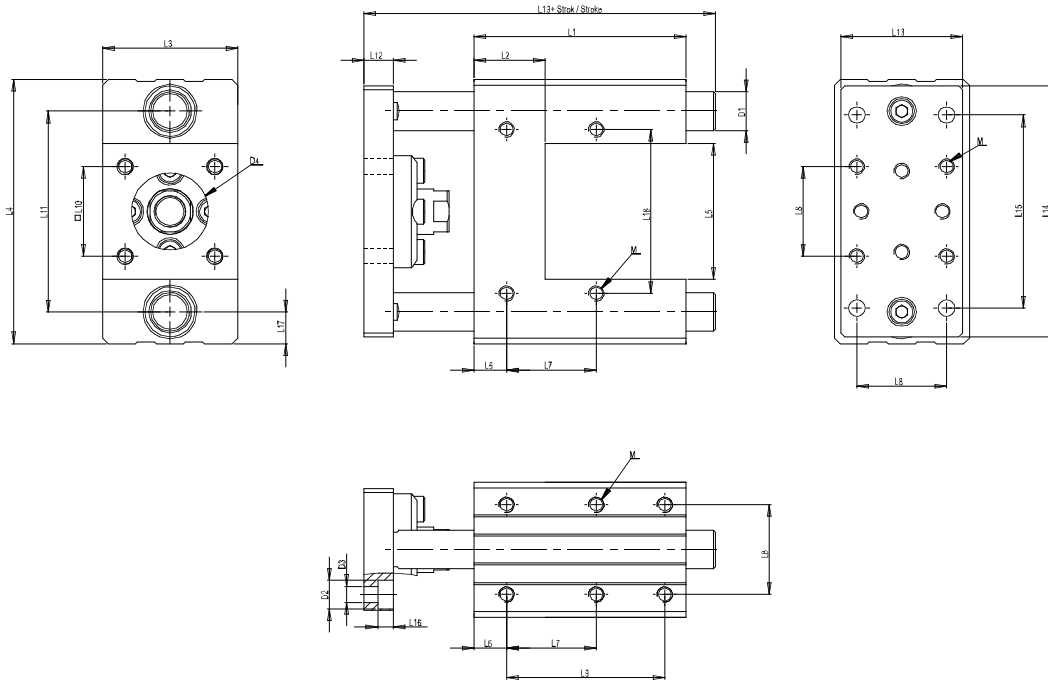


Sipariş Kodu / Ordering Code

WURC 000 X 000

Seri / Serie Strok-mm / Stroke-mm
Nominal Çap-mm / Piston Dia-mm

Teknik Çizim / Technical Drawing



Piston Ø	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
32	85	24	50	97	50	20	32.5	32.5	-	32.5	74	12
40	103	27	58	115	58.5	16	38	38	-	38	87	12
50	110	37	70	137	70.5	17	46.5	46.5	82	46.5	104	15
63	145	38	85	152	8.5	20	56.5	56.5	113	56.5	119	15

Piston Ø	L13	L14	L15	L16	L17	L18	L19	D1	D2	D3	D4	M
32	45	95	78	6	11.5	61	154	12	11	6.5	30	M6
40	54	110	84	7	14	69	159	16	11	6.5	35	M6
50	63	130	100	8	16.5	85	182	20	15	8.5	40	M8
63	80	145	105	8	16.5	100	222	20	15	8.5	45	M8

Teknik Özellikler

- ISO 15552 (DIN ISO 6431) Silindir ölçülerine uygundur.
- Ø 20 - 25 - 80 - 100 için bilgi alınır.
- Kılavuzlar bushing ve rulmanlı olabilmektedir.

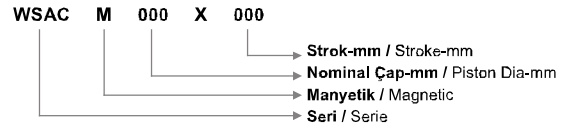
Technical Specifications

- Produced according to ISO 15552 (DIN ISO 6431)
- Please contact us for dia Ø 20 - 25 - 80 - 100.
- Brass bush or linear bearing type guiding available.

WSAC - Short Strok Silindirler
WSAC - Short Stroke Cylinders



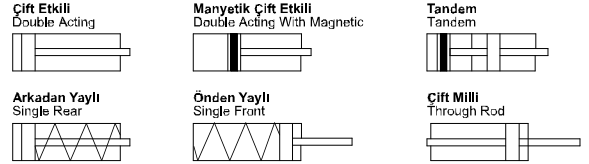
Sipariş Kodu / Ordering Code



Sensörler / Sensors

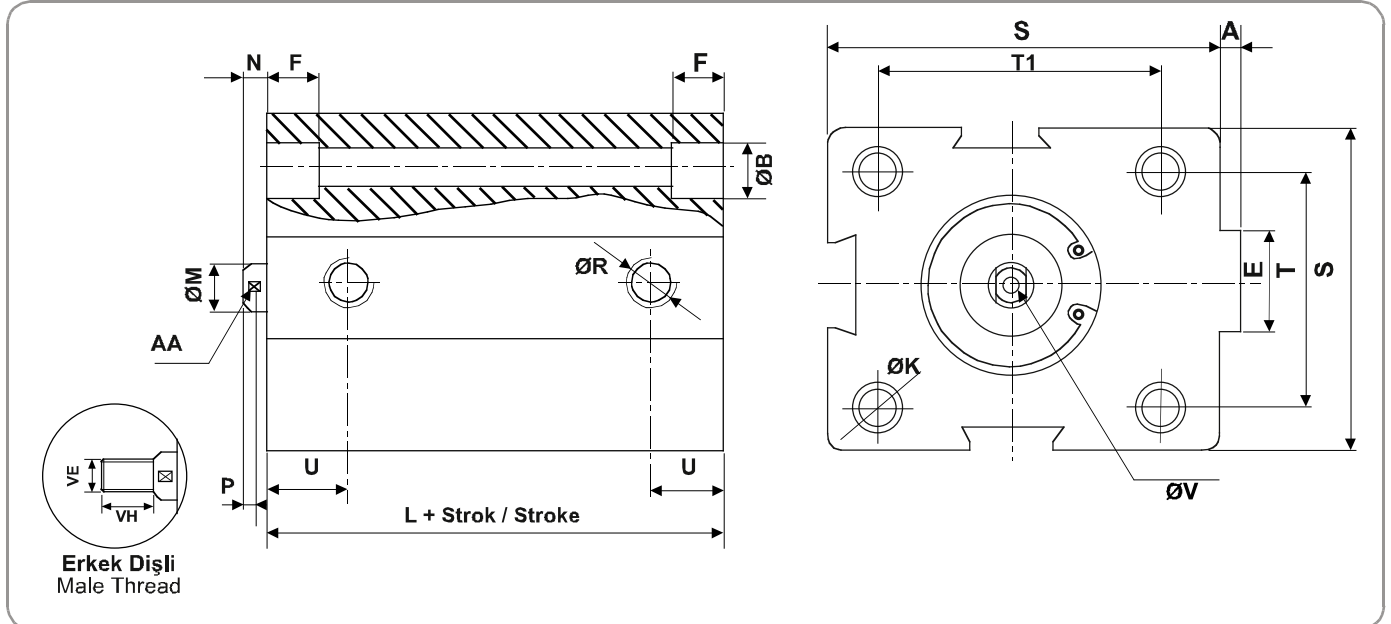
CS-7500R (Sy/Pg:3-08)

Opsiyon Çizelgesi / Option Chart



* Opsiyonların birlikte kullanımı için bilgi alınır. / Please contact us different configurations.

Teknik Çizim / Technical Drawing



Piston Ø	L	N	S	T	T1	A	E	F	B	K	R	V	U	AA	M	P	VE	VH
20	32	4.5	32	22	22	2	10	6	8	5	M5	M5 x 0.8	10	8	10	3	M8 x 1.25	12
25	36	4.5	40	26	28	3	16	6	8	5	G1/8	M5 x 0.8	11	8	10	3	M8 x 1.25	12
32	39.5	5	46	34	34	3.5	16	6	10	5	G1/8	M6 x 1.0	11.5	10	12	3	M10 x 1.25	14
40	39.5	5	54	40	40	4	16	6	10	6.75	G1/8	M6 x 1.0	12	10	12	3	M10 x 1.25	14
50	39.5	6	65	50	50	6	20	7	11	6.75	G1/8	M8 x 1.25	12	13	16	4	M12 x 1.25	16
63	46	6	79	60	60	6	22	9	15	8.5	G1/8	M8 x 1.25	14.5	13	16	4	M12 x 1.25	16
80	46	7	98	77	77	6	26	9	15	10.25	G1/4	M10 x 1.5	16	17	20	5	M16 x 1.5	22
100	56	7	118	94	94	6	30	11	18	10.25	G1/4	M12 x 1.75	17	22	25	5	M20 x 1.5	28

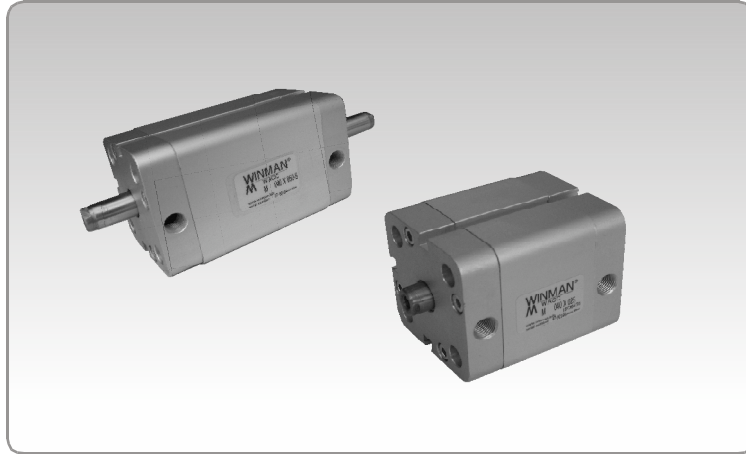
Teknik Özellikler

- Alüminyum gövde.
- Ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm.ye kadar nominal çaplarda.
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C--+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Korozyona karşı dayanımı arttırmak için mil paslanmaz yapılabilir.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

Technical Specifications

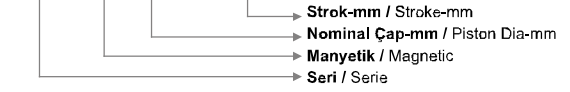
- Aluminium body.
- In nominal diameters Ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm.
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C--+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- For Increasing of corrosion strenght guide is used as stainless steel.
- Please contact us for option dimensions.

WACC - Kompakt Silindirler
WACC - Compact Cylinders



Sipariş Kodu / Ordering Code

WACC M 000 X 000

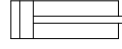


Sensörler / Sensors

KT 40 (Sy/Pg:3-06)

Opsiyon Çizelgesi / Option Chart

Çift Etkili
Double Acting



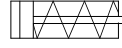
Manyetik Çift Etkili
Double Acting With Magnetic



Tandem
Tandem



Arkadan Yaylı
Single Rear



Önden Yaylı
Single Front

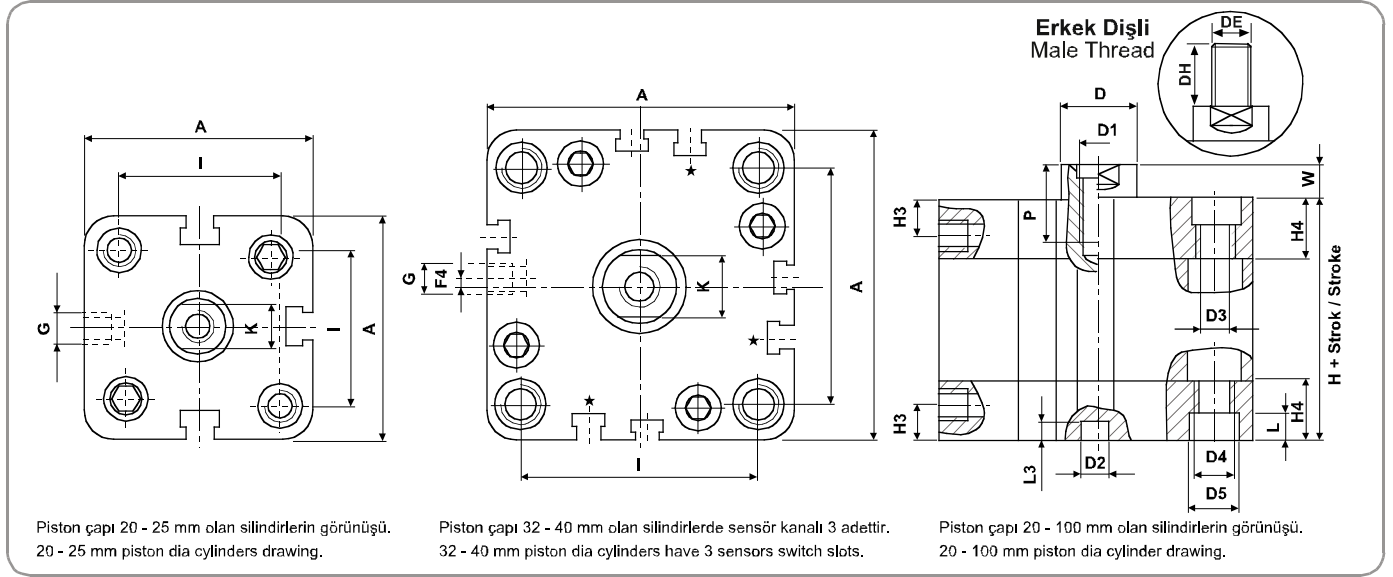


Çift Milli
Through Rod



* Opsiyonların birlikte kullanımı için bilgi alınız. / Please contact us different configurations.

Teknik Çizim / Technical Drawing



Piston Ø	H	A	D	D1	D2	D3	D4	D5	F4	G	H3	H4	I	K	L	L3	P	W	DE	DH
20	38	36	10	M5 x 0.8	6	4.2	M5 x 0.8	7.5	0	M5	8	12.25	22	8	4.5	4	10	4.5	M8 x 1.25	16
25	39.5	40	10	M5 x 0.8	6	4.2	M5 x 0.8	7.5	0	M5	8	12.75	26	8	4.5	4	10	5.5	M8 x 1.25	16
32	44.5	50	12	M6 x 1.0	6	5.2	M6 x 1.0	9	4	G1/8	8	14.5	32.5	10	5.5	4	12	6	M10 x 1.25	19
40	45.5	58	12	M6 x 1.0	6	5.2	M6 x 1.0	9	3	G1/8	8	14.75	38	10	5.5	4	12	6.5	M10 x 1.25	19
50	45.5	67	16	M8 x 1.25	6	6.7	M8 x 1.25	10.5	0	G1/8	8	14.75	46.5	13	6.5	4	12	7.5	M12 x 1.25	22
63	50	80	16	M8 x 1.25	8	8.5	M8 x 1.25	13.5	0	G1/8	8	14.25	56.5	13	8.5	4	14	7.5	M12 x 1.25	22
80	56	100	20	M10 x 1.5	8	8.5	M10 x 1.5	13.5	0	G1/8	8.5	16	72	17	8.5	4	15	8	M16 x 1.5	28
100	66.5	124	25	M12 x 1.75	8	8.5	M12 x 1.75	13.5	0	G1/4	10.5	19.25	89	22	8.5	4	20	10	M20 x 1.5	28

Teknik Özellikler

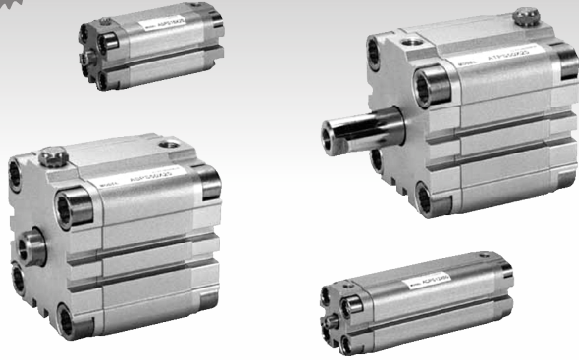
- Alüminyum gövde
- Ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm. ye kadar nominal çaplarda.
- WINMAN Silindirler aksesuar çeşidi ile montaj kolaylığı sağlamaktadır.
- WINMAN Silindirlerde sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
- Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Korozyona karşı dayanımı arttırmak için mil paslanmaz yapılabilir.
- Silindirlerin bağlantı ölçüleri DIN ISO 6431' uygundur.
- Opsiyon ölçüleri için lütfen firmamıza danışın.

Technical Specifications

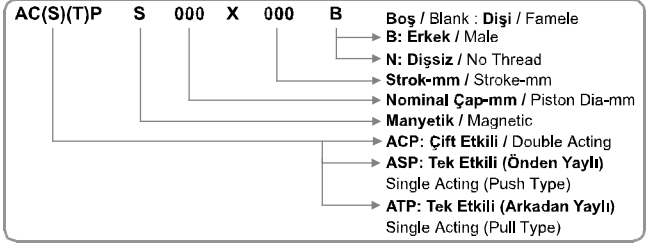
- Aluminium body
- In nominal diameters Ø 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 mm.
- WINMAN cylinders has advantage of easy installation by wide range of accessories
- WINMAN cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
- Seals are used that can increase efficiency.
- For Increasing of corrosion strenght guide is used as stainless steel.
- The mounting dimensions of cylinders suit DIN ISO 6431
- Please contact us for option dimensions.

AC(S)(T)P - Kompakt Silindirler / AC(S)(T)P - Compact Cylinders

Yeni
New



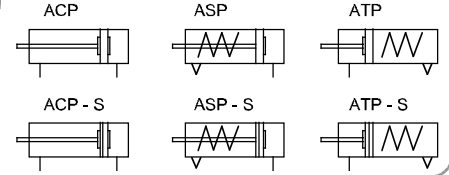
Sipariş Kodu / Ordering Code



Sensörler / Sensors

KT 062R (Sy/Pg:3-02)

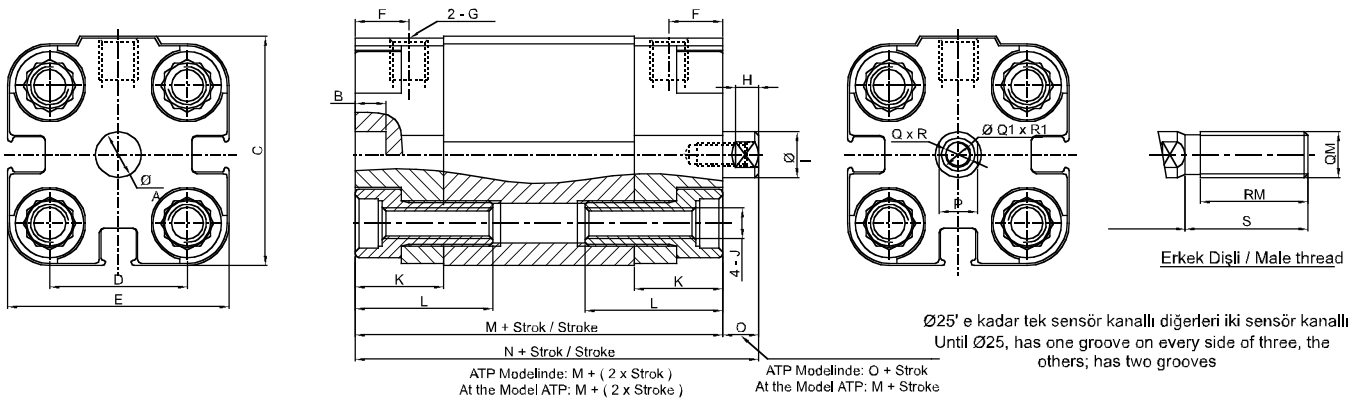
Sembol / Symbol



Özellikler / Specification

Piston Çapı / Bore Size (mm)	12	16	20	25	32	40	50	63	80	100
Çalışma Tipi / Action Type	Çift Etkili / Double Acting									
	Tek Etkili (Önden Yaylı) / Single Acting (Push)					Tek Etkili (Arkadan Yaylı) / Single Acting (Pull)				
Akışkan / Fluid	40 µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)									
Basınç Aralığı / Pressure Range	Çift Etkili / Double Acting									
	Tek Etkili / Single Acting									
Test Basıncı / Proof Pressure	1.0~9.0bar / 0.1~0.9MPa / 15~130Psi									
Sıcaklık / Temperature	2.0~9.0bar / 0.2~0.9MPa / 30~130Psi									
Hız Aralığı / Speed Range mm/s	15.0bar / 1.5MPa / 213Psi									
	-5~70									
Yastıklama Tipi / Cushion Type	Tampon / Bumper									
Bağlantı Ölçüsü / Port Size	M5 x 0.8					1/8				1/4"

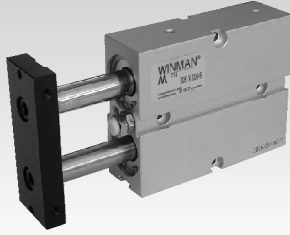
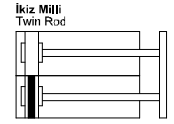
Teknik Çizim / Technical Drawing



Piston Ø	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	QM	Q1	R	RM	R1	S
12	6	4	30	18	29	7	M5 x 0.8	3	6	M4 x 0.7	11.5	18.5	38	42.5	4.5	5	M3 x 0.5	M6 x 1.0	3.3	8	14	1.5	16
16	6	4	30	18	29	7	M5 x 0.8	3	8	M4 x 0.7	11.5	18.5	38	42.5	4.5	6	M4 x 0.7	M8 x 1.25	4.5	10	18	1.5	20
20	6	4	37.5	22	36	7	M5 x 0.8	3	10	M5 x 0.8	11.5	18.5	38	42.5	4.5	8	M5 x 0.8	M10 x 1.25	5.5	12	20	2	22
25	6	4	41.5	26	40	7	M5 x 0.8	4	10	M5 x 0.8	11.5	18.5	39.5	45	5.5	8	M5 x 0.8	M10 x 1.25	5.5	12	20	2	22
32	6	4	52	32	50	8	1/8"	4.5	12	M6 x 1.0	14	21.5	44.5	50.5	6	10	M6 x 1.0	M10 x 1.25	6.5	14	20	2.6	22
40	6	4	62.5	42	60	8	1/8"	4.5	12	M6 x 1.0	14	21.5	45.5	52	6.5	10	M6 x 1.0	M10 x 1.25	6.5	14	20	2.6	22
50	6	4	71	50	68	8	1/8"	5	16	M8 x 1.25	14	22	45.5	53	7.5	13	M8 x 1.25	M12 x 1.25	8.5	16	22	3.3	24
63	8	4	91	62	87	8	1/8"	5	16	M10 x 1.5	15	24.5	50	57.5	7.5	13	M8 x 1.25	M12 x 1.25	8.5	16	22	3.3	24
80	8	4	111	82	107	8.5	1/8"	5.5	20	M10 x 1.5	16	27.5	56	64	8	17	M10 x 1.5	M16 x 1.5	10.5	20	30	4.7	32
100	8	4	133	103	128	10.5	1/4"	7.5	25	M10 x 1.5	19	32.5	66.5	76.5	10	22	M12 x 1.75	M20 x 1.5	12.5	24	38	6.1	40

TN - İKİZ SİLİNDİRLER / TN - TWIN CYLINDERS
SİPARİŞ KODU / ORDERING CODE
SEMBOLE / SYMBOL
TN 000 X 000

→ Strok-mm / Stroke-mm
→ Nominal Çap-mm / Piston Dia-mm
→ Seri / Serie


SENSÖRLER / SENSORS

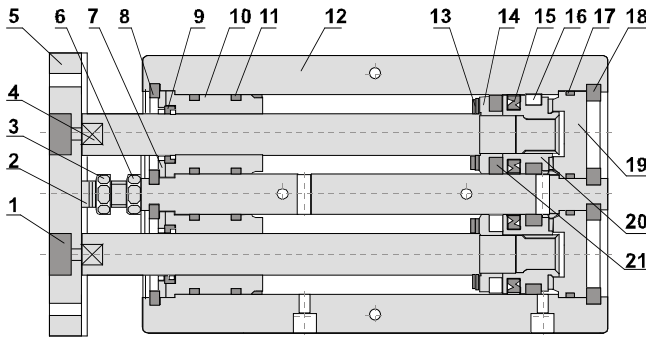
KT-11 (Sy/Pg:3-03)

STROK LİSTESİ / STROKE LIST

Piston Ø	Standart Strok / Standart Stroke											Max. Strok	Ulaşılabilir Strok
10	10	20	30	40	50	60	70	-	-	-	-	70	100
16	10	20	30	40	50	60	70	80	90	100	125	150	200
20	10	20	30	40	50	60	70	80	90	100	125	150	200
25	10	20	30	40	50	60	70	80	90	100	125	150	200
32	10	20	30	40	50	60	70	80	90	100	125	150	200

ÖZELLİKLER / SPECIFICATION

Piston Ø	10	16	20	25	32
Çalışma Tipi / Action	Çift Etkili / Double Acting				
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air to be filtered by 40µ				
Basınç Aralığı / Pressure range	1.0 ~ 9.0bar / 0.1 ~ 0.9MPa / 14 ~ 128Psi				
Test Basıncı / Proof range	15.0bar / 1.5MPa / 213Psi				
Sıcaklık Aralığı / Temperature range (C°)	-5 ~ 70				
Hız Aralığı / Speed range (mm/s)	100 ~ 500				
Ayarlanabilir Strok / Adjustable Strok (mm)	-10 ~ 0				
Yastıklama / Cushioning	Tampon / Bumper				
Dönmezlik Toleransı / Non-Rotate tolerance	± 0.4°		± 0.3°		
Bağlatı Ölçüsü / Port size	M5 x 0.8				1/8"

İÇ YAPISI / INNER STRUCTURE


No	Parça / Item	No	Parça / Item
1	Civata / Screw	2	Tampon / Bumper
3	Ayarlama Civatası / Adjustable screw	4	Mil / Rod
5	Sabitleme Plakası / Fixing plate	6	Civata / Screw
7	Ön Kapak Rondelası / Front cover washer	8	Segman / C clip
9	Ön Kapak Contası / Front cover gasket	10	Ön Kapak / Front Cover
11	Ön Kapak Oringi / Front cover O-ring	12	Gövde / Body
13	Tampon / Bumper	14	Manyetik Tutucu / Magnet holder
15	Piston Oringi / Piston O-ring	16	Aşınma Plakası / Wearing ring
17	Arka Kapak Oringi / Back Cover O-ring	18	Segman / C clip
19	Arka Kapak / Back Cover	20	Piston / Piston
21	Manyetik Halka / Magnet		

ÖNEMLİ PARÇALARIN MALZEMELERİ / MATERIAL OF MAJOR PARTS

Piston Ø	10	16	20	25	32
Piston / Piston	Alüminyum Alaşım / Aluminum alloy				
Gövde / Body	Alüminyum Alaşım / Aluminum alloy				
Mil / Rod	20µ Sert Krom Kaplı Karbon Çeliği / Carbon steel with 20µ hard chrome plated				
Arka Kapak Contası / Front cover gasket	NBR				
Piston Oringi / Piston O-ring	NBR				
Arka ve Ön Kapak Oringi / Front and back cover O-ring	NBR				
Tampon / Bumper	PU				
Ön kapak Rondelası / Front cover washer	Bakır / Copper				
Sabitleme Plakası / Fixing plate	Çelik / Steel				
Yastık İğnesi / Cushion needle	Bakır / Copper				
Segman / C clip	Yay Çeliği / Spring Steel				
Ön Kapak / Front Cover	Alüminyum Alaşım / Aluminum alloy				
Arka Kapak / Back Cover	Alüminyum Alaşım / Aluminum alloy				
Manyetik Halka / Magnet	Plastik / Plastic				

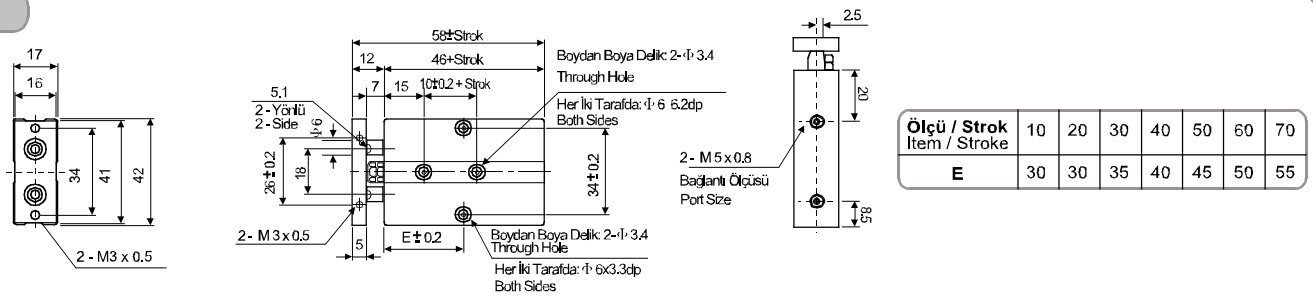
TN - İkiz Silindirler / TN - Twin Cylinders

Teorik Kuvvet / Theoretical Force (kg)

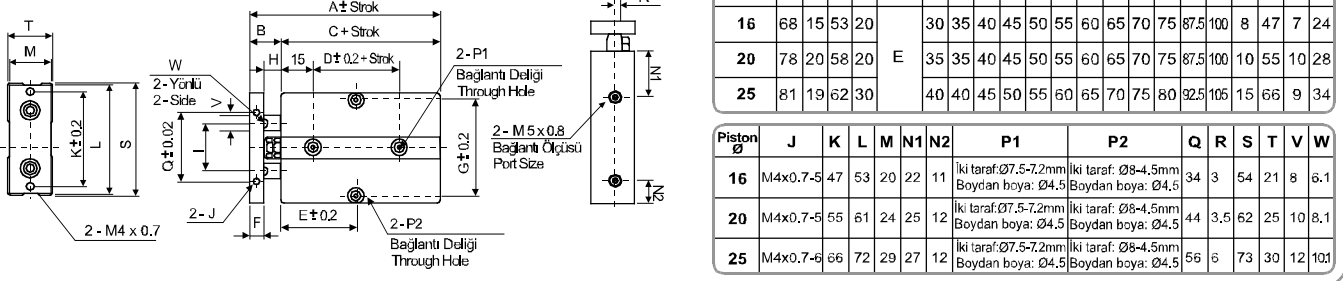
Piston Ø	10		16		20		25		32	
Ø Mil / Rod Size (mm)	6		8		10		12		16	
Çalışma Tipi / Acting Type	Çift Etkili / Double Acting		Çift Atkili / Double Acting		Çift Etkili / Double Acting		Çift Etkili / Double Acting		Çift Etkili / Double Acting	
	İtme kuvveti Push side (kg)	Çekme kuvveti Pull side (kg)	İtme kuvveti Push side (kg)	Çekme kuvveti Pull side (kg)	İtme kuvveti Push side (kg)	Çekme kuvveti Pull side (kg)	İtme kuvveti Push side (kg)	Çekme kuvveti Pull side (kg)	İtme kuvveti Push side (kg)	Çekme kuvveti Pull side (kg)
Etkin Alan / Pressure Area (cm ²)	1.57	1.00	4.02	3.01	6.28	4.71	9.81	7.55	16.07	12.05
Çalışma Basıncı Operating Pressure (Bar)	1	-	4.1	3.07	6.40	4.80	10.0	7.70	16.39	12.29
	2	3.20	2.04	8.20	6.14	12.81	9.60	20.01	15.40	32.78
	3	4.79	3.06	12.30	9.21	19.21	14.41	30.01	23.10	49.17
	4	6.40	4.08	16.40	12.28	25.62	19.21	40.02	30.80	65.56
	5	7.99	5.1	20.50	15.35	32.02	24.02	50.03	38.50	81.95
	6	9.60	6.12	24.60	18.42	38.43	28.82	60.03	46.20	98.34
	7	11.2	7.14	28.70	21.49	44.83	33.62	70.04	53.90	114.74

Teknik Çizimler / Technical Drawings

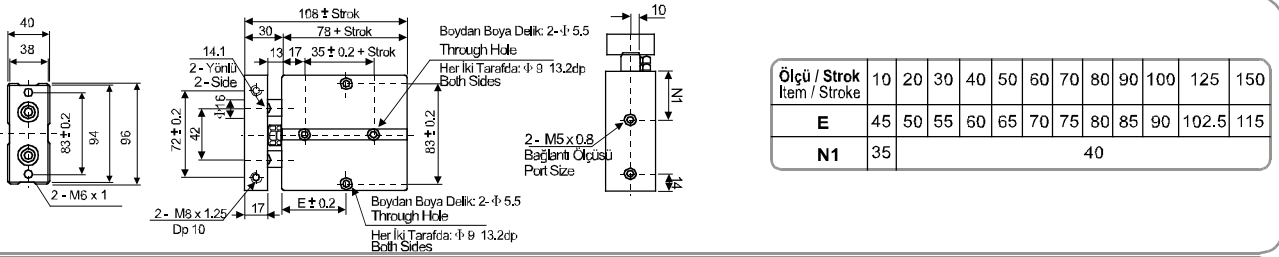
Ø10



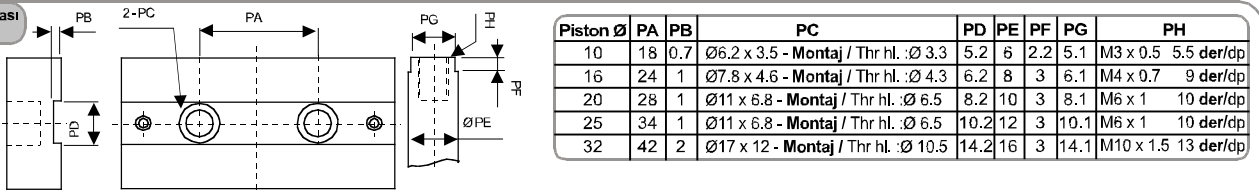
Ø16-Ø25



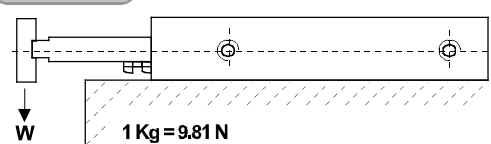
Ø32



Sabitlenme Plakası
Fixing Plate

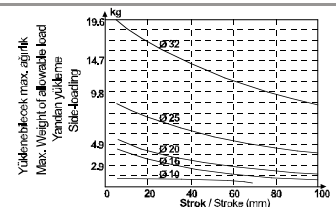


Yükleme Grafiği
Load Graphic



• Eğer silindir gövdesi şeklindeki gibi bağlanırsa , yüklenilecek maksimum ağırlık, W, yandaki grafiğe belirtildiği gibi olmalıdır.

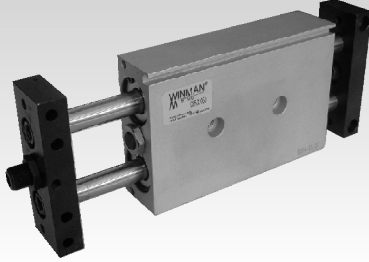
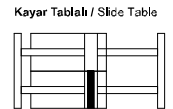
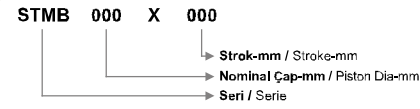
• If the cylinder body is mounted as shown in the drawing, the max. Weight of allowable side-load, W, must be below the value given in the graph right.



STMB - Kayar Tablalı Silindirler
STMB - Slide Table Cylinders

Sipariş Kodu / Ordering Code

Sembol / Symbol



Sensörler / Sensors

KT 062R (Sy/Pg:3-02)

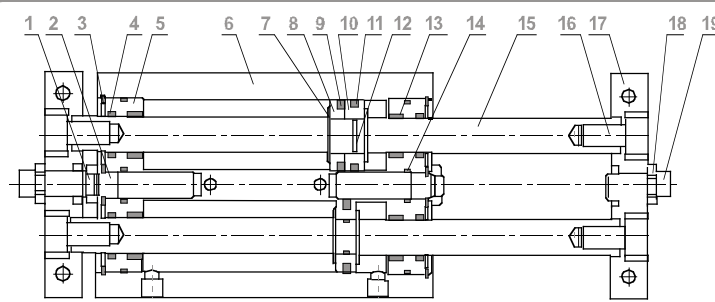
Strok Listesi / Stroke List

Piston Ø	Standart Strok / Standart Stroke							
10	25	50	75	100	-	-	-	-
16	25	50	75	100	125	150	200	-
20	25	50	75	100	125	150	200	250
25	25	50	75	100	125	150	200	250

Özellikler / Specification

Piston Ø	10	16	20	25
Çalışma Tipi / Action	Çift Etkili / Double Acting			
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air to be filtered by 40µ			
Basınç Aralığı / Pressure range	1.0 ~ 9.0bar / 0.1 ~ 0.9MPa / 14 ~ 128Psi			
Test Basıncı / Proof range	15.0bar / 1.5MPa / 213Psi			
Sıcaklık Aralığı / Temperature range (C°)	-5 ~ 70			
Hız Aralığı / Speed range (mm/s)	50 ~ 200			
Ayarlanabilir Strok / Adjustable Stroke (mm)	-10 ~ 0			
Yastıklama / Cushion	Tampon / Bumper			
Dönmezlik Toleransı / Non-Rotate tolerance	± 0.1°		± 0.05°	
Bağlatı Ölçüsü / Port size	M5 x 0.8			1/8"

İç Yapı / Inner Structure



No	Parça / İtem	No	Parça / İtem
1	Tampon / Bumper	2	Ayarlama Cıvatası / Adjustable screw
3	Segman / C clip	4	Mil Keçesi / Rod packing
5	Ön Kapak / Front Cover	6	Gövde / Body
7	Ayarlama Cıvatası / Adjustable screw	8	Manyetik Tutucu / Magnet holder
9	Manyetik Halka / Magnet	10	Piston / Piston
11	Piston O-ring / Piston O-ring	12	Mil O-ring / Rod O-ring
13	Burç / Bushing	14	Conta / Gasket
15	Mil / Rod	16	Sabitleme Cıvatası / Fixing Screw
17	Plaka / Plate	18	Somun / Nut
19	Ayarlama Cıvatası / Adjustable screw		

Önemli Parçaların Malzemeleri / Material of Major Parts

Piston Ø	10	16	20	25
Piston / Piston	Alüminyum Alaşım / Aluminum alloy			
Gövde / Body	Alüminyum Alaşım / Aluminum alloy			
Mil / Rod	20µ Sert Krom Kaplı Karbon Çeliği / Carbon steel with 20µ hard chrome plated			
Oringler / O-rings	NBR			
Piston O-ring / Piston O-ring	XNBR			
Mil Keçesi / Rod Packing	PU			
Tampon / Bumper	NBR			
Burç / Bushing	Bakır / Copper			
Sabitleme Plakası / Fixing plate	Karbon Çeliği / Carbon Steel			
Somun / Nut	Karbon Çeliği / Carbon Steel			
Segman / C clip	Yay Çeliği / Spring Steel			
Ön Kapak / Front Cover	Alüminyum Alaşım / Aluminum alloy			
Manyetik Tutucu / Magnet Holder	Alüminyum Alaşım / Aluminum alloy			
Manyetik Halka / Magnet	Plastik / Plastic			
Sabitleme Cıvatası / Fixing Screw	Karbon Çeliği / Carbon Steel			
Ayarlama Cıvatası / Adjusting Screw	Karbon Çeliği / Carbon Steel			

Oring Listesi / O-ring List

Tip / Type	Mil O-ring / Rod Packing	Piston O-ring / Piston O-ring	Mil O-ring / Rod O-ring	Kapak O-ring / Cover O-ring	Tapa O-ring / Plug O-ring
Piston Ø / Adet	4	2	2	4	2
10	Ø6 x Ø9	Ø1,5 x Ø6,5	Ø1 x Ø4	Ø1,5 x Ø9	-
16	Ø8 x Ø11	PZ1805	Ø1 x Ø6	Ø2 x Ø13	Ø7,5 x Ø9,5 x 1,4
20	Ø10 x Ø14	PZ2013	Ø1 x Ø8	Ø2 x Ø17	Ø9,5 x Ø11,5 x 1,4
25	Ø12 x Ø14	PZ2518	Ø1 x Ø10	Ø2 x Ø22	Ø11,5 x Ø13,5 x 1,4

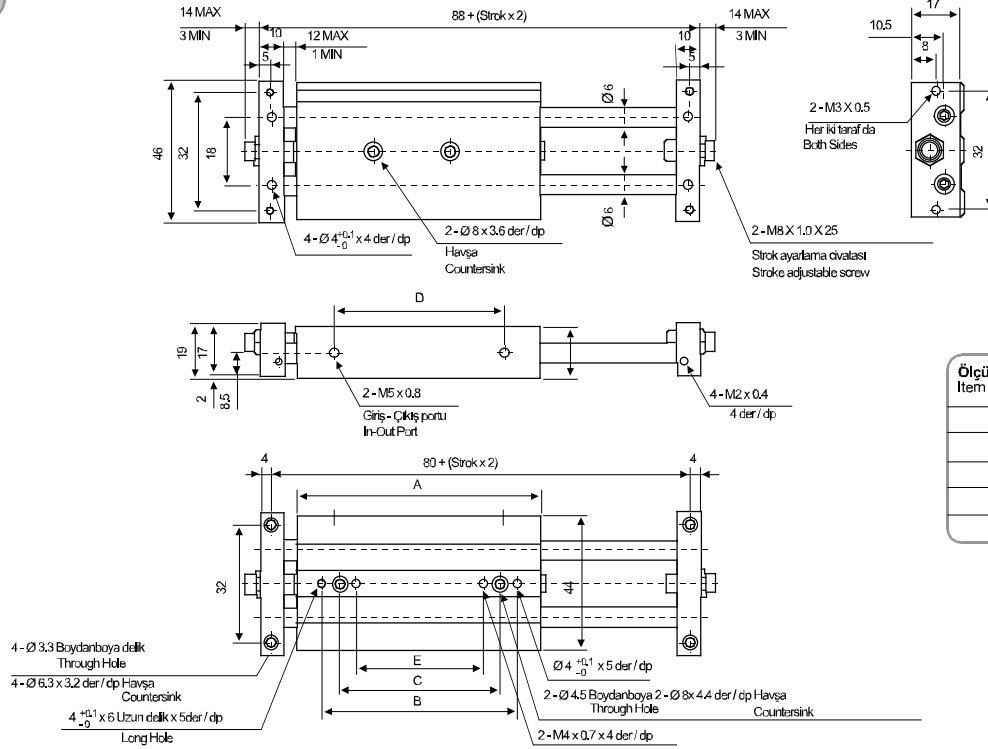
STMB - Kayar Tablalı Silindirler
STMB - Slide Table Cylinders

Teorik Kuvvet / Theoretical Force (kg)

Piston Ø (mm)	Ø Mil / Rod Size (mm)	Etkin Alan Pressure Area (cm ²)	Çalışma Basıncı / Operating Pressure (bar)								
			1	2	3	4	5	6	7	8	9
10	6	0.50	0.49	0.96	1.45	1.93	2.42	2.90	3.49	3.87	4.36
16	8	1.51	1.45	2.92	4.38	5.85	7.31	8.78	10.24	11.70	13.16
20	10	2.36	2.28	4.57	6.86	9.14	11.43	13.71	16.0	18.29	20.58
25	12	3.78	3.58	7.32	10.98	14.64	18.31	21.98	25.64	29.30	32.96

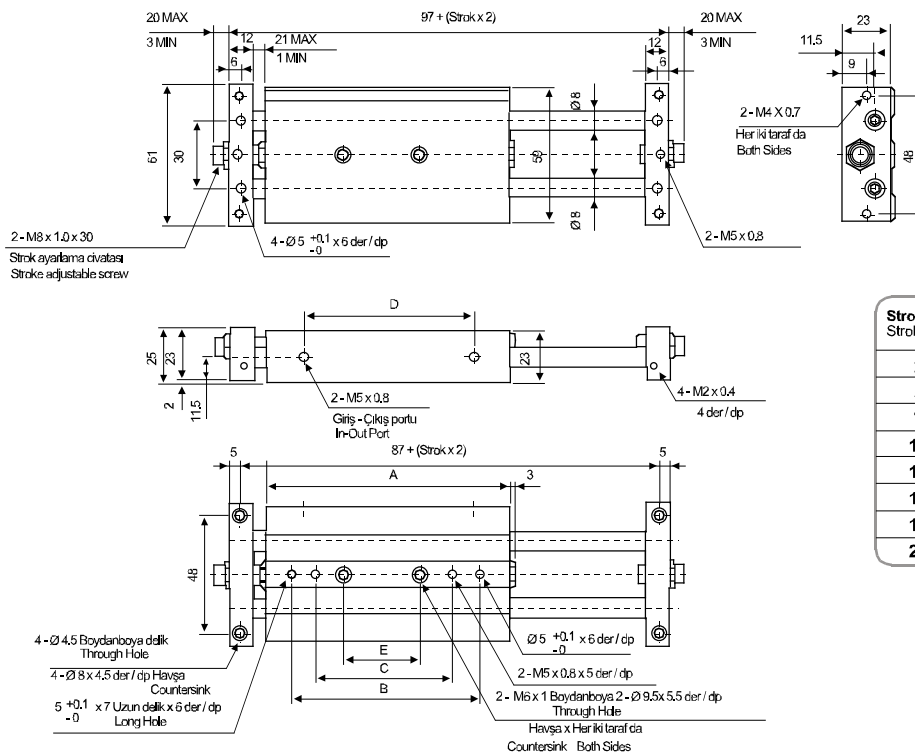
Teknik Çizimler / Technical Drawings

Ø10



Ölçü / Strok Item / Stroke	25	50	75	100
A	81	106	131	156
B	65	85	85	85
C	35	60	60	60
D	46	71	96	121
E	15	40	40	40

Ø16

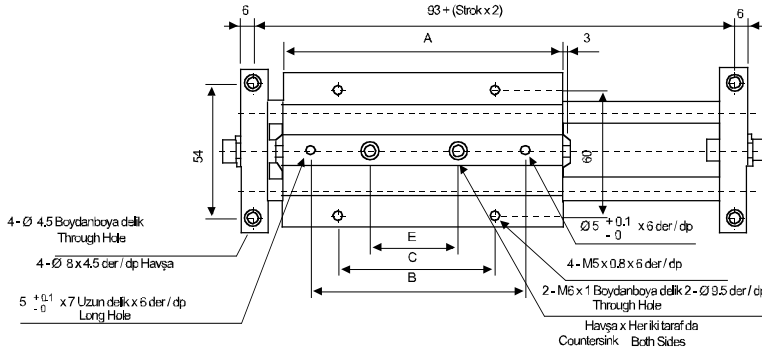
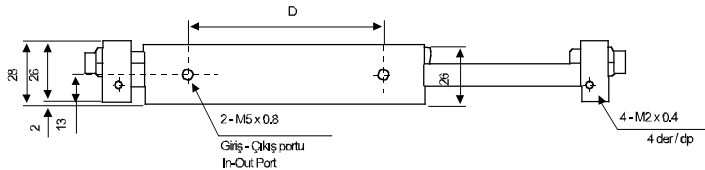
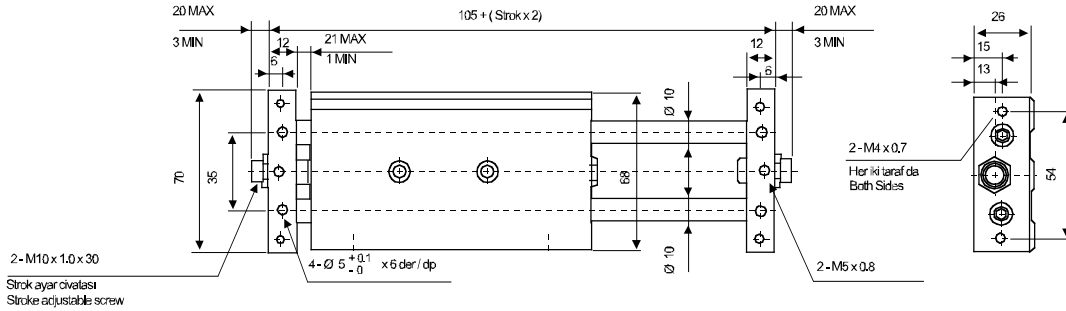


Strok / Ölçü Stroke / Item	A	B	C	D	E
25	86	55	-	48	25
50	111	80	-	73	50
75	136	105	75	98	45
100	161	130	100	123	70
125	186	150	120	148	90
150	211	150	120	173	90
175	236	150	120	198	90
200	261	150	120	223	90

STMB - Kayar Tablalı Silindirler
STMB - Slide Table Cylinders

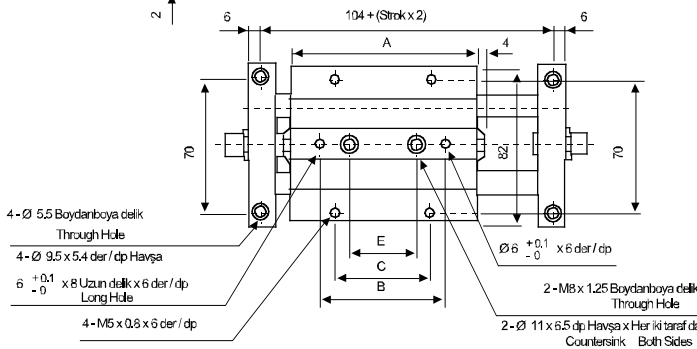
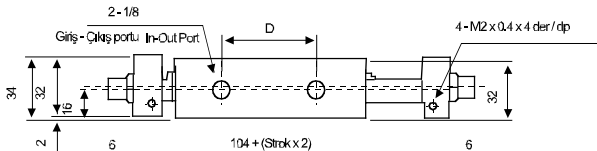
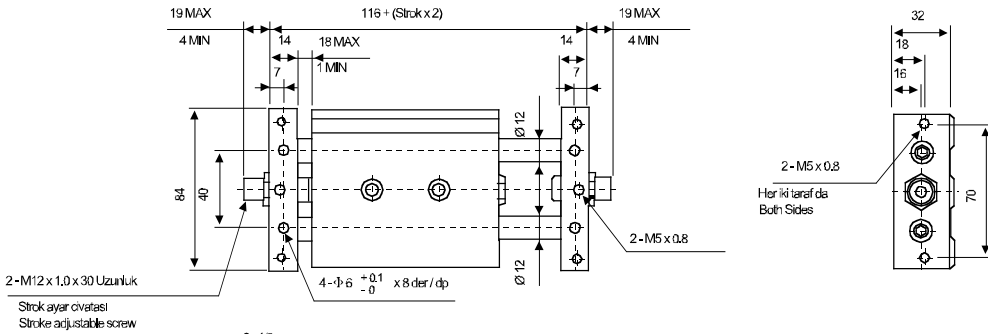
Teknik Çizimler / Technical Drawings

Ø20



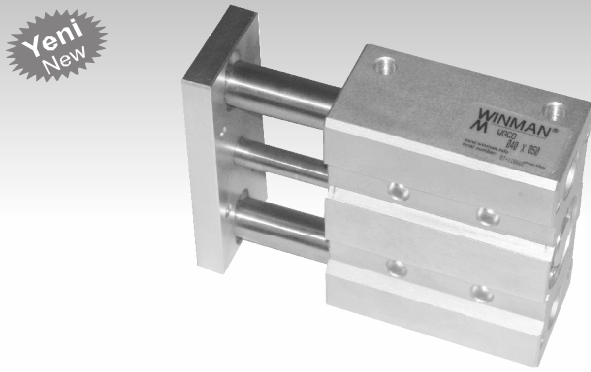
Strok / Ölçü Stroke / Item	A	B	C	D	E
25	94	60	50	53	35
50	119	85	50	78	45
75	144	110	75	103	45
100	169	135	100	128	70
125	194	150	120	153	90
150	219	150	120	178	90
175	244	150	120	203	90
200	269	150	120	228	90
250	319	150	120	278	90

Ø25



Strok / Ölçü Stroke / Item	A	B	C	D	E
25	101	65	50	50	35
50	126	90	50	75	45
75	151	115	75	100	45
100	176	140	100	125	70
125	201	140	100	150	95
150	226	140	100	175	100
175	251	140	100	200	100
200	276	140	100	225	100
250	326	140	100	275	100

WGC - Yataklı Silindir / WGC - Guided Cylinder



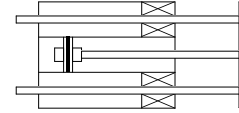
Sipariş Kodu / Ordering Code

WGC	R	B	M	000	X	000
						→ Strok-mm / Stroke-mm
						→ Nominal Çap-mm / Piston Dia-mm
						→ Manyetik / Magnetic
						→ Bushing / Bushing
						→ Rulman / Bearing
						→ Seri / Serie

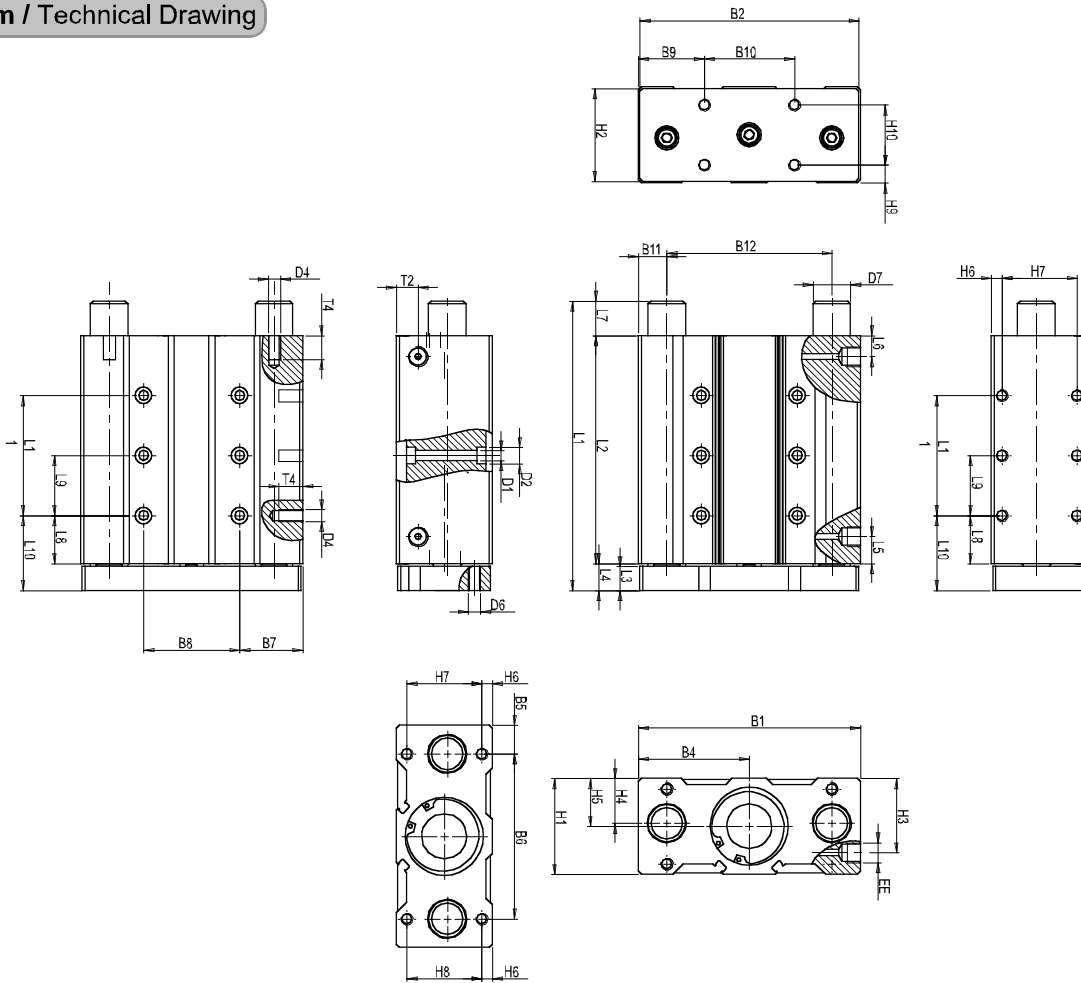
Sensörler / Sensors

KT 50 (Sy/Pg:3-07)

Sembol / Symbol



Teknik Çizim / Technical Drawing



Teknik Özellikler

- Alüminyum gövde
- Ø 20 - 25 - 32 - 40 - 50 - 63 mm.ye kadar nominal çaplarda.
- **WINMAN** Silindirede sağlam gövde yapısı ve uzun ömürlü kaliteli sızdırmazlık elemanları (keçeler) kullanılmak suretiyle uzun yıllar sorunsuz kullanım sağlanmıştır.
- İsteğiniz doğrultusunda;
 - Sıcak ortamlarda (+90°C~+230°C) : Viton
 - Yağsız çalışma durumunda : Poliüretan
 Sızdırmazlık elemanları kullanılarak verimlilik artırılabilir.
- Korozyona karşı dayanımı arttırmak için mil paslanmaz yapılabilir.
- Kılavuzlar bushing ve rulmanlı olabilmektedir.

Technical Specifications

- Aluminium body
- In nominal diameters Ø 20 - 25 - 32 - 40 - 50 - 63 mm.
- **WINMAN** cylinders are used without any problem, thanks to strong body design, very high quality seals.
- According to your needs;
 - At the high temperature ambient (+90°C~+230°C) : Viton
 - At the non-lubricate conditions : Polyurethane
 Seals are used that can increase efficiency.
- For Increasing of corrosion strenght guide is used as stainless steel.
- Brass bush or linear bearing type guiding available.

WGC - Yataklı Silindir / WGC - Guided Cylinder

Ø / mm	B1	B2	B4	B5	B6	B7	B8	B9	B10	B11	B12	D1 Ø	D2 Ø	D4
20	83	81	41.5	6.5	70	26.5	30	26.5	30	12.5	58	5	9	M5
25	95	93	47.5	15.5	64	30	35	27.5	40	13.5	68	5	9	M6
32	110	108	55	20	70	33.5	43	35	40	16	78	6.5	11	M6
40	124	118	62	17	90	36.5	51	37	50	18	88	6.5	11	M8
50	148	146	74	19	110	42	64	44	60	19	110	6.5	11	M8
63	162	160	81	9	144	41	80	41	80	18.5	125	8.5	15	M10

Ø / mm	D6	D7 Ø		EE	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
		WGCB	WGCR											
20	M5	14	12	M5	36	34	30	17	17	4.5	27	-	7	20
25	M6	16	14	G1/8"	44	42	34.8	19	23	4.5	35	35	12	20
32	M6	20	16	G1/8"	49	47	37	21	23.5	6	37	37	8.5	30
40	M6	20	16	G1/8"	54	52	40.5	30	29	6	42	42	10	30
50	M8	25	20	G1/4"	64	62	49.5	30	32	7	50	50	12	40
63	M8	25	20	G1/4"	78	76	57	32	37	9	60	60	19	40

Ø / mm	Ø Stroke mm	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	T2	T4
20	20	75	61	12	14	11	11	-	26	-	40	-	6	10
	25	80	66					-		20		-		
	30	85	71					-		20		-		
	40	121	81					26		20		-		
	50	131	91					26		40		-		
	80	161	121					26		40		-		
	100	181	141					26		40		80		
25	20	93	65.6	12	14	11	11	13.4	26	-	40	-	9.2	12
	25	98	70.6					13.4		20		-		
	30	103	75.6					13.4		20		-		
	40	123	85.6					23.4		20		-		
	50	133	95.6					23.4		40		-		
	80	163	125.6					23.4		40		-		
	100	183	145.6					23.4		40		80		
32	20	101	68	14	16	13.5	13.5	17	29	-	45	-	12	12
	25	106	73					17		20		-		
	30	111	78					17		20		-		
	40	121	88					17		20		-		
	50	131	98					17		40		-		
	80	179	128					35		40		-		
	100	199	148					35		40		80		
	125	244	173					55		40		80		
	160	279	208					55		40		120		
	200	319	248					55		40		160		
40	25	106	76	14	16	12.5	13	14	29	20	45	-	13.5	16
	50	131	101					14		40		-		
	80	179	131					32		40		-		
	100	199	151					32		40		80		
	125	244	176					52		40		80		
	160	279	211					52		40		120		
	200	319	251					52		40		160		
50	25	118	77	16	18	18	14	23	32	20	50	-	14.5	16
	50	143	102					23		40		-		
	80	194	132					44		40		-		
	100	214	152					44		40		80		
	125	259	177					64		40		80		
	160	294	212					64		40		120		
	200	334	252					64		40		160		
63	25	118	83	16	18	16	16	17	32	20	50	-	21	15
	50	143	108					17		40		-		
	80	194	138					38		40		80		
	100	214	158					38		40		80		
	125	259	183					58		40		120		
	160	294	218					58		40		160		
	200	334	258					58		40		200		

HLH Serisi Silindirler / HLH Series Compact Cylinders



Teknik Özellikler / Technical Specifications

- 1- Minyatür lineer yataklı silindir
- 2- Dönmez mil ve mükemmel doğrusalıkla yüksek hassasiyete sahiptir. Hassas montaj için uygundur.
- 3- Montajı 4yüzeyinden olabilmektedir.
- 4- Hortum girişi 3 yönden olabilmektedir.

- 1- Miniature roller ball linear bearing integrated wise cylinder;
- 2- It has the excellent straightness and non rotation precision, and is more suitable for using in the condition of precision assembly;
- 3- Mounting is possible from 4 directions;
- 4- Piping is possible from 3 directions.

Çap Ölçüsü	Bore Size (mm)	6	10	16	20
Klavuz ray genişliği	Guide rail width (mm)	5	7	9	12
Hareket tipi	Acting type	Double acting type			
Akışkan	Fluid	Air (to be filtered by 40um filter element)			
Çalışma basıncı	Operating pressure	0.06 or 0.15 (Ø6) ~ 0.7 MPa (9 or 22 ~ 100 psi)			
Patlama basıncı	Proof pressure	1.05 MPa (150 psi)			
Yastıklama	Cushion	Rubber bumpers at both ends			
Sıcaklık	Temperature	-20 ~ 70°C			
Hız sınırları	Speed range	50 ~ 500mm/sec			
İzin verilebilir kinetik enerji	Allowable kinetic energy (J)	0.008	0.025	0.05	0.1
Sensör	Auto switches	WT 07-R			
Giriş portu	Port size	M5 x 0.8			

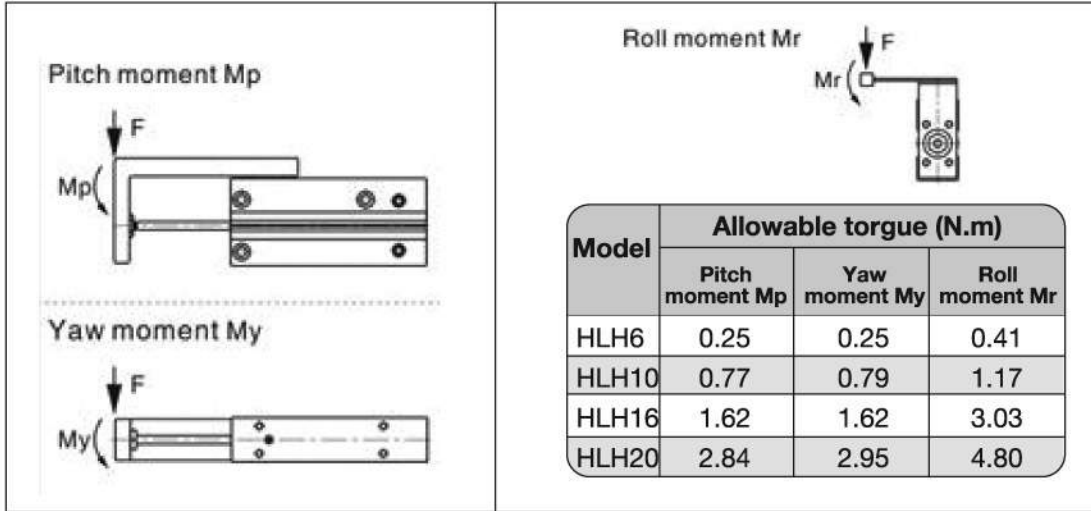
HLH Serisi Silindirler / HLH Series Compact Cylinders

1- Silindirin gerçek yüklemesi ve momenti izin verilen az olmalıdır.

1.1- Silindirin izin verilebilir momentleri

1- The actual loading and moment of cylinder must be less than its allowable loading and moment:

1.1- The allowable moment of cylinder

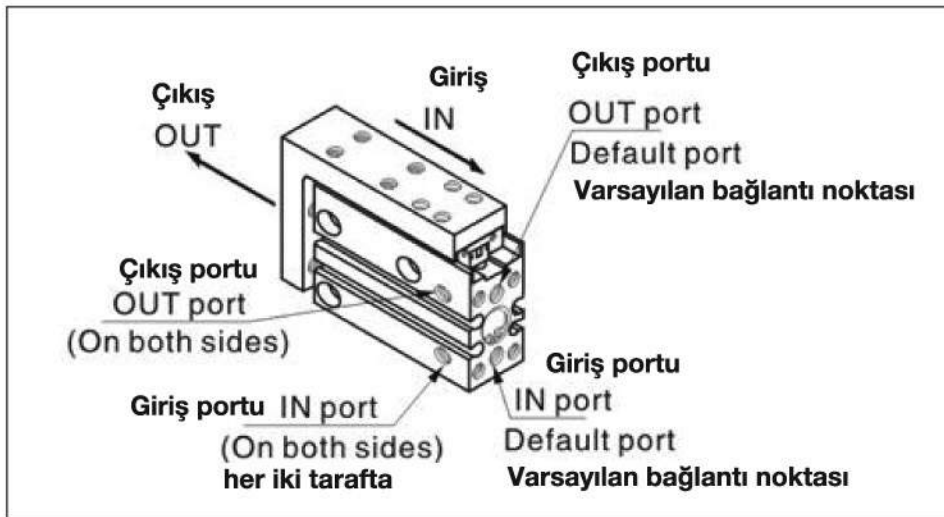


1.2- Silindire farklı yönlerde uygulanan moment, yük kapasitesinde farklılık gösterecektir.

2- Hortum girişi 3 yönden yapılabilir, aşağıdaki resimden kontrol ediniz.

1.2- When the cylinder is subjected to different type of moment, there will be different degree of shift in performance.

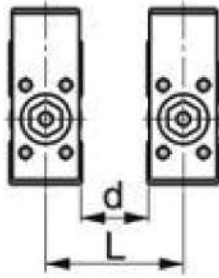
2- The compact slide can be piped from 3 directions. Confirm the pressure ports and operating direction. (See drawing right)



3- İki silindir yan yana kullanılacaksa aralarındaki mesafe tabloda belirtilen ölçülerden fazla olmalı aksi halde sensörlerin hatalı sinyal alma problemi doğabilir.

3- In compact slides with sensor switch, there is a danger of sensor switch malfunction if the mounting pitch is less than the dimensions shown in table right. Be sure to allow at least the indicated interval.

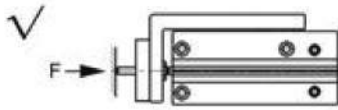
HLH Serisi Silindirler / HLH Series Compact Cylinders



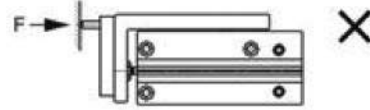
Model	Aralarında en az olması gerekli mesafe (mm) At least the indicated	
	d	L
HLH6	5	21
HLH10	5	25
HLH16	10	35
HLH20	15	47

4- Kuvvet silindirin miline dik ve karsıdan uygulanmalı. Aşağıdaki çizime bakınız.

4- When the output of the compact slide will be directly applied to the table, it should be applied along the rod axis. (See drawing below.)



Kuvvet piston miline dik.
The loading and piston rod are coaxial



Kuvvet piston milinden farklı uzaklıkta
The loading and piston rod are offset

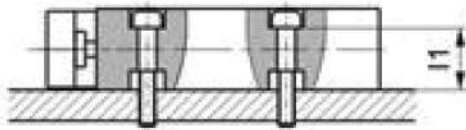
5- Silindir hızının 500 mm/s ve altında ayarlanmış olmasına dikkat edin.

6- Silindir 4 yönde montaj edilebilir. Montaj esnasında civataları sıkma torku tablodaki değerleri geçmemelidir.

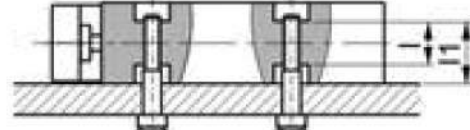
5- Be sure to use a flow control value, and adjust the speed to 500mm/s or less.

6- A compact slide can be mounted from 4 directions. Don't exceed the max. fastening torque then tightening the mounting bolts.

Lateral Mounting (Through Holes)



Lateral Mounting (Tapped Holes)

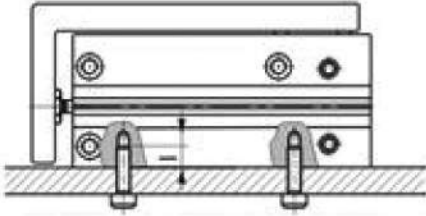


Model	Bolts	Max. fastening torque	L1
HLH6	M3 x 0.5	1.1 (N.m)	12.7
HLH10	M4 x 0.7	2.5 (N.m)	15.6
HLH16	M4 x 0.7	2.5 (N.m)	20.6
HLH20	M5 x 0.8	5.1 (N.m)	24.0

Model	Bolts	Max. fastening torque	L1	L
HLH6	M4 x 0.7	2.5 (N.m)	12.7	9.4
HLH10	M5 x 0.8	5.1 (N.m)	15.6	11.2
HLH16	M5 x 0.8	5.1 (N.m)	20.6	16.2
HLH20	M6 x 1.0	8.1 (N.m)	24.0	16.0

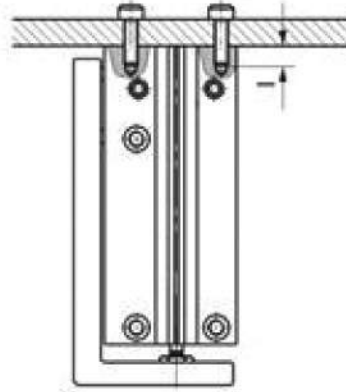
HLH Serisi Silindirler / HLH Series Compact Cylinders

Vertical Mounting (Tapped Holes)



Model	Bolts	Max. fastening torque	L
HLH6	M3 x 0.5	1.1 (N.m)	5
HLH10	M4 x 0.7	2.5 (N.m)	6
HLH16	M4 x 0.7	2.5 (N.m)	6
HLH20	M5 x 0.8	5.1 (N.m)	8

Axial Mounting (Tapped Holes)



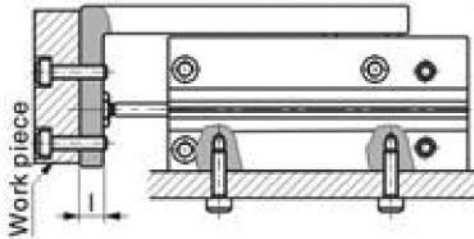
7- Parça montajlama

7- Work Piece Mounting

7.1- Silindire 2 ayrı şekilde parça bağlanabilir. Parça montaj edilirken belirlenen sıkma torklarını geçmeyiniz.

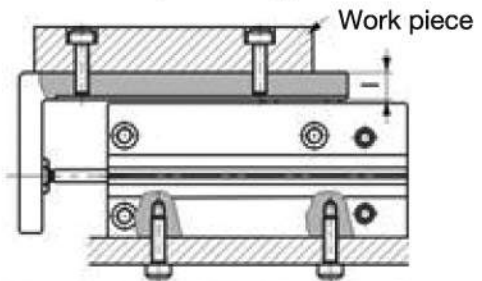
7.1- Work pieces can be mounted on 2 surfaces of the compact slide. When mounting a work piece, tighten the bolts properly at a torque value within the limiting range.

Front Mounting



Model	Bolts	Max. fastening torque	L
HLH6	M3 x 0.5	1.1 (N.m)	5.5
HLH10	M4 x 0.7	2.5 (N.m)	7.5
HLH16	M4 x 0.7	2.5 (N.m)	10
HLH20	M5 x 0.8	5.1 (N.m)	11

Top Mounting



Model	Bolts	Max. fastening torque	L
HLH6	M3 x 0.5	1.1 (N.m)	6.5
HLH10	M4 x 0.7	2.5 (N.m)	8
HLH16	M4 x 0.7	2.5 (N.m)	9
HLH20	M5 x 0.8	5.1 (N.m)	9.5

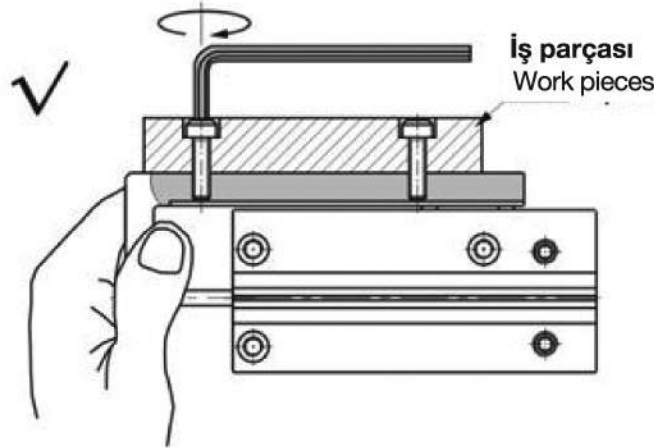
HLH Serisi Silindirler / HLH Series Compact Cylinders

7.2/tabla lineer rayla desteklendiği için yandan güçlü etki ve moment uygulanmamalıdır.

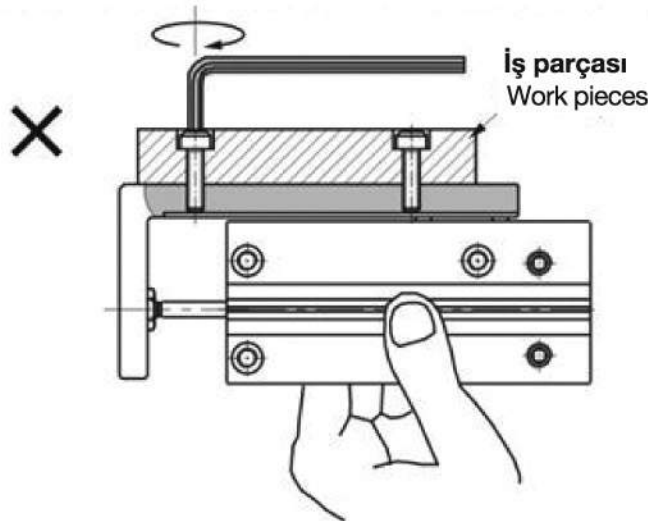
7.3/tablaya iş parçası monte edilirken şekildeki gibi tabla elle tutularak desteklenmeli, gövdeden tutulup takıldığında hassas kayıplar oluşabilir.

7.2- Since the table is supported by the linear guide, take care not to apply strong impact or large moment to the guide section.

7.3- Hold the slide when fastening work pieces to it with bolts, If the body is held while tightening bolts, the guide section will be subjected to large moment, and there may be a loss of precision.



Tablayı tutun ve civatayı sıkın.
Hold the slide and fasten the bolt



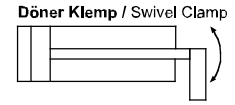
Gövdeyi tutun ve civatayı sıkın.
Hold the body and fasten the bolt

AS1 - Profil Gövdeli Döner Klem / Profil Body Swivel Clamp

Sipariş Kodu / Ordering Code

AS1	SL	000	X	000

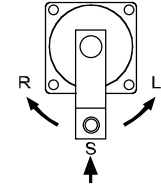
→ Dönme Açısı / Swivel Angle
 → Nominal Çap-mm / Piston Dia-mm
 → SL - Sol Dönüş / SL - Swivel Left
 → SR - Sağ Dönüş / SR - Swivel Right
 → Seri / Serie

Sembol / Symbol

Sensörler / Sensors

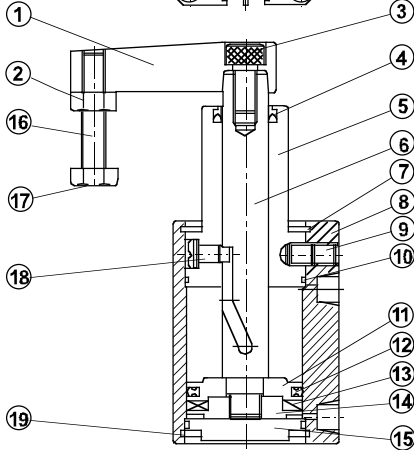
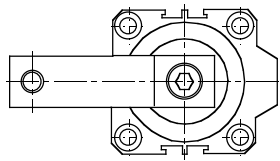
JFS-02 (Sy/Pg:3-08)

Özellikler / Specification

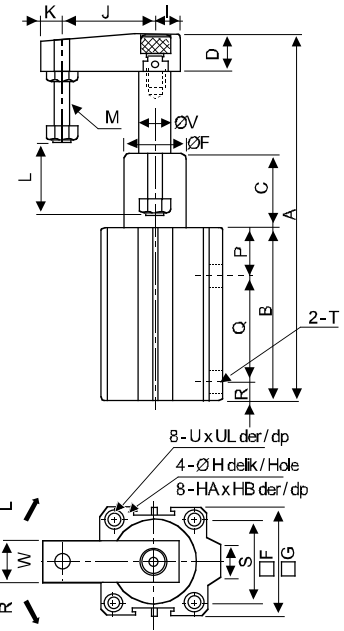
Piston Ø	Ø 20, Ø 25	Ø 32, Ø 40	Ø 50, Ø 63
Çalışma Tipi / Acting Type	Çift Etkili / Double Acting		
Dönme Açısı / Swivel Angle	90° / 180° ± 2°		
Dönme Yönü / Swivel Direction	Sol ve Sağ / Left or Right		
Dönme Stroku / Swivel Stroke (mm)	9.5	15	20
Kenetleme Stroku / Clamp Stroke (mm)	20		
Akışkan / Fluid	Hava / Air		
Çalışma Basıncı / Working Pressure	< = 9.9 bar		
Test Basıncı / Test Pressure	15 bar		



L: Saat yönü tersinde sola dönüş.
 L: Left swivel at counter clockwise direction.
R: Saat yönünde sağa dönüş.
 R: Right swivel at clockwise direction.
S: Başlama Noktası.
 S: Starting Point.

İç Yapı / Inner Structure


No	Parça adı / Part name	Adet Qty.
1	Plaka / Plate	1
2	Altı köşe somun / Hex. nut	1
3	Altı köşe civata / Hex bolt	1
4	Mil keçesi / Rod seal	1
5	Mil kapağı / Rod cover	1
6	Mil / Rod	1
7	Segman / C snap ring	1
8	Gövde / Body	1
9	Altı köşe setskur / Hex.set screw	2
10	Oring / O-ring	2
11	Ön piston / Front piston	1
12	Piston keçesi / Piston packing	1
13	Manyetik halka / Magnet	1
14	Arka Piston / Rear piston	1
15	Arka kapak / Rear cover	1
16	Gijon / Plat bolt	1
17	Baskı somunu / Press nut	1
18	Pilot pimi / Pilot pin	1
19	Segman / C snap ring	1

Teknik Çizim / Technical Drawing


Piston Ø Ölçü / Item	A	B	C	D	E	F	G	H	HA	I	J	K	L	M	P	Q	R	S	T	U	UL	V	W
20	156	82	26	14	16	24	34	3.5	6	9	35	7	29.5	M6 x 1.0	32	41.5	8.5	10	M5x0.8	M5 x 0.8	7	10	16
25	157	83	26	14	18	28	40	4.6	8	9	35	7	29.5	M6 x 1.0	31	43.5	8.5	10	M5x0.8	M6 x 1.0	9	10	16
32	186.5	84	44	18	25	34	44	4.6	8	12	45	10	35	M8 x 1.25	24	50	10	16	G 1/8	M6 x 1.0	9	12	18
40	187	85	44	18	30	40	52	5.7	9.5	12	45	10	35	M8 x 1.25	24	51	10	16	G 1/8	M8 x 1.25	12	16	20
50	214.5	96.5	50	22	37	48	62	6.8	11	13	65	10	40	M10 x 1.5	29.5	56	11	20	G 1/4	M8 x 1.25	12	20	22
63	217	100	50	22	48	60	75	6.8	11	13	65	10	40	M10 x 1.5	30	58	12	20	G 1/4	M8 x 1.25	12	20	22

Teorik Kuvvet / Theoretical Force (kg)

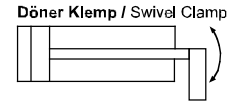
Piston Ø (mm)	Ø Mil / Ø Rod (mm)	Etkin Alan Pressure Area (cm ²)	Çalışma Basıncı / Operating Pressure (bar)								
			2	3	4	5	6	7	8	9	
20	10	2.3	4.6	6.9	9.2	11.5	13.8	16.1	18.4	20.7	
25	10	4.0	8	12	16	20	24	28	32	36	
32	12	6.9	13.8	20.7	27.6	34.5	41.4	48.3	55.2	62.1	
40	16	10.5	21	31.5	42	52.5	63	73.5	84	94.5	
50	20	16.5	33	49.5	66	82.5	99	115.5	132	148.5	
63	20	28	56	84	112	140	168	196	224	252	

AS2 - Yuvarlak Gövdeli Döner Klemp / Round Body Swivel Clamp

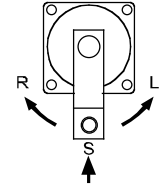
Sipariş Kodu / Ordering Code

AS2	SL	000	X	000

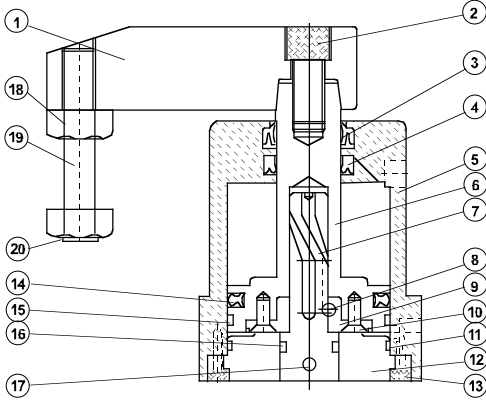
→ Dönme Açısı / Swivel Angle
 → Nominal Çap-mm / Piston Dia-mm
 → SL - Sol Dönüş / SL - Swivel Left
 → SR - Sağ Dönüş / SR - Swivel Right
 → Seri / Serie

Sembol / Symbol

Özellikler / Specification

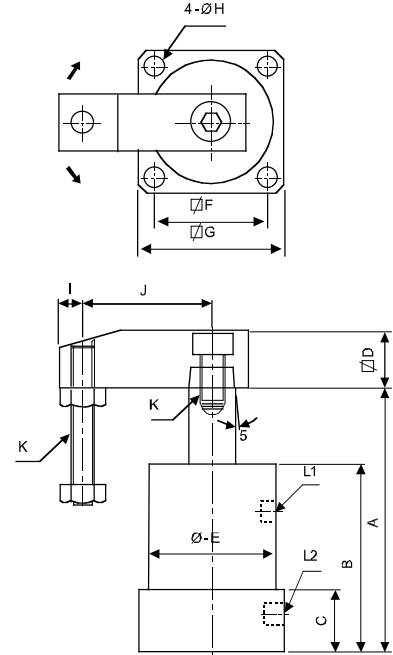
Piston Ø	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Çalışma Tipi / Acting Type	Çift etkili / Double acting				
Dönme Açısı / Swivel Angle	90° / 180° ± 2°				
Dönme Yönü / Swivel Direction	Sol ve Sağ / Left or Right				
Dönme Stroku / Swivel Stroke (mm)	12 - 90 21 - 180			14 - 90 21 - 180	
Kenetleme Stroku / Clamp Stroke (mm)	14 - 90 5 - 180	15 - 90 6 - 180	15 - 90 8 - 180		
Akışkan / Fluid	Hava / Air				
Çalışma Basıncı / Working Pressure	< = 9.9 bar				
Test Basıncı / Test Pressure	15 bar				



L: Saat yönü tersinde sola dönüş.
 L: Left swivel at counter clockwise direction.
R: Saat yönünde sağa dönüş.
 R: Right swivel at clockwise direction.
S: Başlama Noktası.
 S: Starting Point.

İç Yapı / Inner Structure


No	Parça adı / Part name	Adet Qty.
1	Plaka / Plate	1
2	Altı Köşe Somun / Hex. Nut	1
3	Toz Keçesi / Dust Seal	1
4	Mil Keçesi / Rod Seal	1
5	Gövde / Body	1
6	Mil / Rod	1
7	Pilot Ucu / Pilot Pin	1
8	Çelik Bilya / Steel Ball	3
9	Sabitleme Halkası / Holding Ring	1
10	Vida / Screw	3
11	Kapak Oringi / Cover o-ring	1
12	Arka Kapak / Rear Cover	1
13	İmbus Civata / Hex. Bolt	6
14	Piston Keçesi / Piston Packing	1
15	Aşınma Halkası / Wearing	1
16	O-ring / O-ring	1
17	Pilot Ucu / Pilot Pin	1
18	Altı Köşe Somun / Hex. Nut	1
19	Plaka Civatası / Plate Screw	1
20	Baskı Somunu / Press Nut	1

Teknik Çizim / Technical Drawing


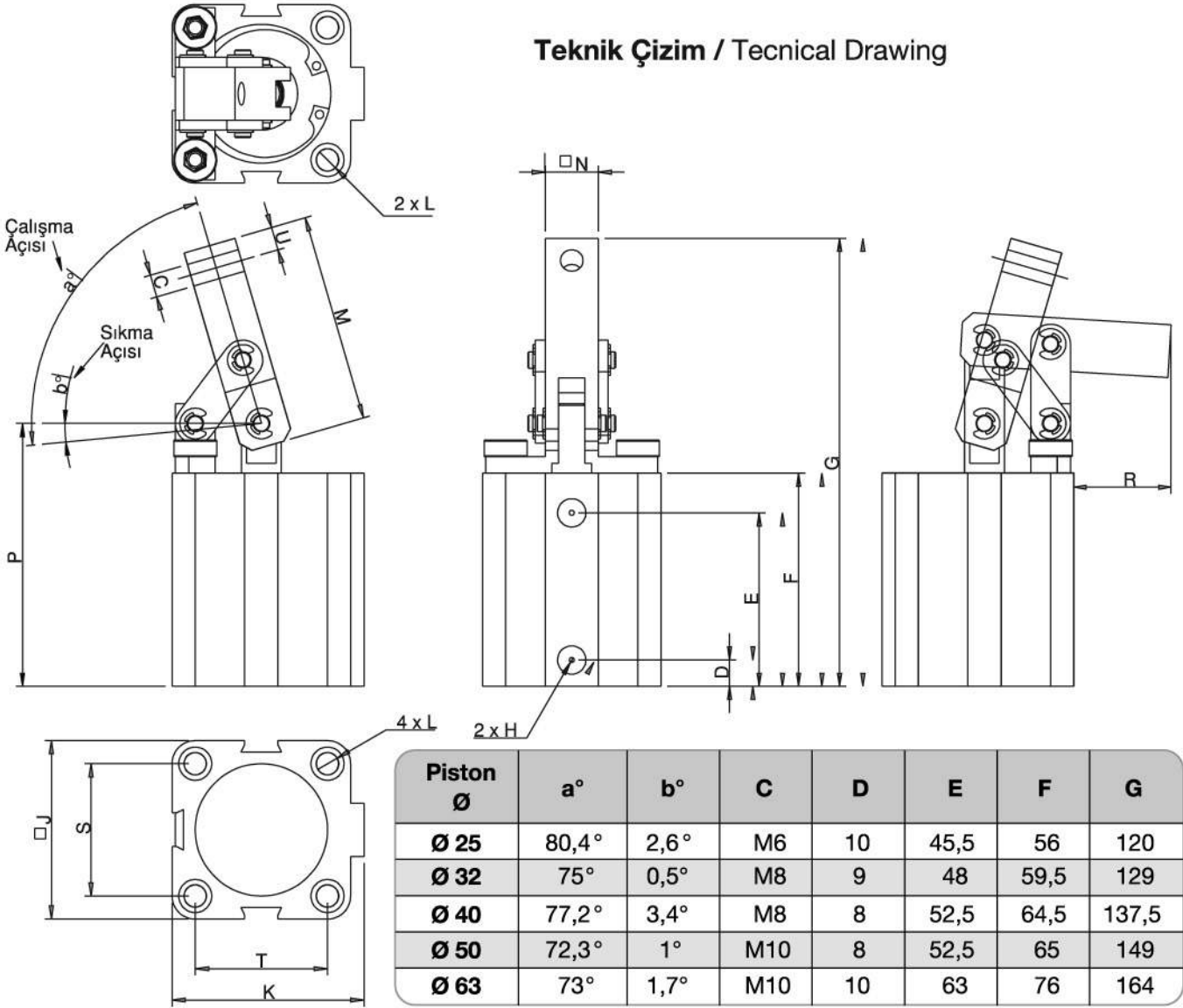
Piston Ø Ölçü / Item	A	B	C	D	E	F	G	H	I	J	K	L1 / L2	M
25	95	65	23	16	35	31	40	4.5	8	30	M6 x 1.0	M5 x 0.8	6
32	102	73	23	19	50	44	54	6.5	9	50	M8 x 1.25	G 1/8	8
40	106	74	26	19	55	48	58	6.5	9	50	M8 x 1.25	G 1/8	8
50	113	80	26	25.4	60	55	68	8.5	10	70	M10 x 1.5	G 1/8	8
63	119	86	30	25.4	70	64	82	8.5	10	70	M10 x 1.5	G 1/8	8

Teorik Kuvvet / Theoretical Force (kg)

Piston Ø (mm)	Ø Mil / Ø Rod (mm)	Etkin Alan Pressure Area (cm ²)	Çalışma Basıncı / Operating pressure (bar)								
			2	3	4	5	6	7	8	9	
25	14	3.4	6.8	10.2	13.6	17	20.4	23.8	27.2	30.6	
32	16	6.0	12	18	24	30	36	42	48	54	
40	16	10.5	21	31.5	42	52.5	63	73.5	84	94.5	
50	20	16.5	33	49.5	66	82.5	99	115.5	132	148.5	
63	20	28	56	84	112	140	168	196	224	252	

AS4 KLEMPLER / AS4 CLAMPS

Teknik Çizim / Technical Drawing

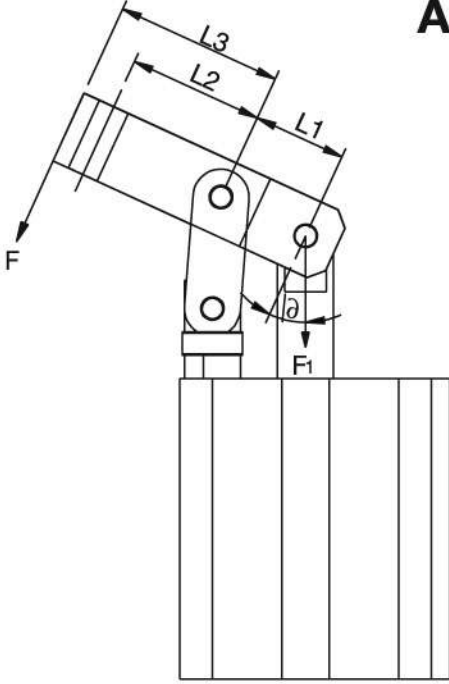


Piston Ø	H	J	K	L	M	N	P	R	S	T	U
Ø 25	G1/8	40	45	Ø 8 ∇ 6 M6 ∇ 12	57	13	70	31,5	26	28	5
Ø 32	G1/8	46	49,5	Ø 10 ∇ 6 M6 ∇ 12	60	16	75	31	34	34	7
Ø 40	G1/8	54	58	Ø 10 ∇ 6 M8 ∇ 16	65	16	80	31,5	40	40	7
Ø 50	G1/8	65	71	Ø 11 ∇ 7 M8 ∇ 16	75	22	85,5	31	50	50	8
Ø 63	G1/8	79	85	Ø 15 ∇ 9 M10 ∇ 20	80	22	92	33	60	60	8

*a° ve b° açıları ölçüsel toleranslardan dolayı maksimum sapma değeri ±3°

AS4 KLEMPLER / AS4 CLAMPS

Kuvvet Hesabı (Force Calculation)



$$F = \frac{F_1 \times \cos \theta \times L_1}{L_2}$$

F ; Klempe sıkıştırma kuvveti
(Clamp Pushing Force)

F1; Piston kuvveti
(piston force)

θ ; Üst parçanın konumuna bağlı değişken açı
(Variable angle depending on the upper part location)

L1; Üst parçaya paralel olarak kısa pim merkezi ile üst parçanın yan mafsala bağlandığı pimin merkezi arasındaki mesafe
(Parallel distance between short pin to the long pin which joints to the upper part)

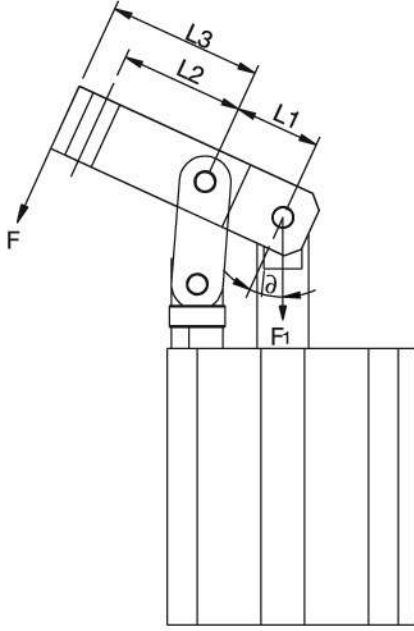
L2; Üst parçaya paralel olarak üst parça bağlantı dişi merkezi ile parçanın yan mafsala bağlandığı pimin merkezi arasındaki mesafe
(Parallel distance between centre of upper part threaded area to the long pin which joints to the upper part)

Piston Ø	25	32	40	50	63
L1 (mm)	16,5	17	20	20	20
L2 (mm)	30	29	31	35	44
L3 (mm)	35	37	38	43	52

1 bar Basınç için Pistondan Alınabilecek Maksimum Teorik Değerler; (Theoretical maximum piston force can be taken from piston)

Piston Ø	25	32	40	50	63
F (N) arka (back)	49	80	125	196	311
F (N) ön (front)	41	69	113,5	175,5	290

Yukarıda belirtilen değerler ideal değerlerdir. Sürtünmeler, atalet kuvvetleri, ortam şartları...vs bağlı olarak değişimler olacaktır. Bu nedenlerden dolayı en verimli çalışmayı elde edebilmemiz için seçimlerimizde emniyet faktörünüzü en az 2 olarak kabul ediniz. Düşük veya yüksek(sınır değerdeki) basınçlarda çalışmanız önerilmez çünkü yapılan deneylerde diğer faktörler ideale yakın olarak denemeler yapılmıştır. Mümkün ise ara değerlerde çalışmanızı öneririz. Bu sayede sistem verim ve ömrüde yükselerek; ideale yakın değerler elde edilecektir. The values shown in the above calculated in ideal conditions. The values depend on friction, inertia forces, atmospheric conditions...etc. We don't recommend more than one value at the same time. If possible we recommended that you work intermediate values. So that your system efficiency and system life can be maximum; approximate values to ideal conditions.



Kuvvet Hesabı (Force Calculation)

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(Clamp Pushing Force)

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(piston force)

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(Parallel distance between short pin to the long pin which joints to the upper part)

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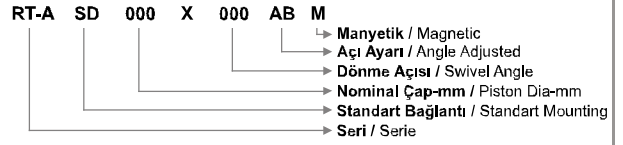
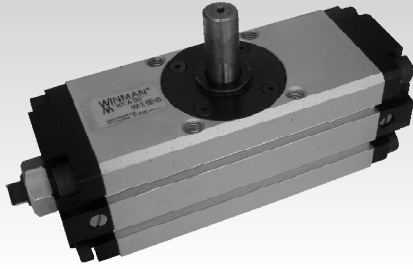
The values shown in the above calculated in ideal conditions. The values depend on friction, inertia forces, atmospheric conditions...etc. We don't recommend more than one value at the same time. If possible we recommended that you work intermediate values. So that your system efficiency and system life can be maximum; approximate values to ideal conditions.

ÖZELLİKLER (Specifications)

Piston Ø	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Çalışma Tipi (Acting Type)	Çift Etkili (Double Acting)				
Dönme Yönü (Swivel Direction)	Yukarı Aşağı (Up and Down)				
Strok (mm)	20	20	25	25	30
Akışkan (Fluid)	Filtrelenmiş Hava (Filtered Air)				
Çalışma Basıncı (Working Pressure)	2,5 bar ≤ ≤ 9 bar				
Çalışma Sıcaklığı (Working Temperature)	-30 °C ≤ ≤ +80 °C				

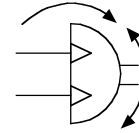
RTA - Aktüatör / Actuator

Sipariş Kodu / Ordering Code



Sembol / Symbol

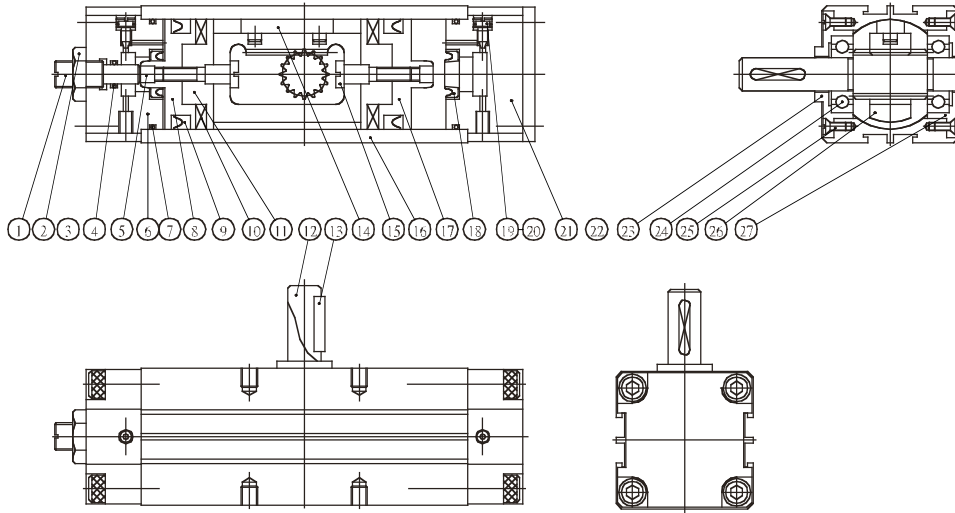
Aktüatör / Actuator



Özellikler / Specification

Piston Ø	40	50	63	80	100
Çalışma Tipi / Action	Çift Etkili / Double Acting				
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air to be filtered by 40µ				
Basınç Aralığı / Pressure Range	1.0 ~ 9.0bar / 0.1 ~ 0.9MPa / 14 ~ 128Psi				
Test Basıncı / Proof Range	15.0bar / 1.5MPa / 213Psi				
Sıcaklık Aralığı / Temperature Range (C°)	-5 ~ 70				
Dönme Açısı / Rotation Angle	90°, 180°				
Dönmezlik Toleransı / Non-Rotate Tolerance	0 ~ 4°				

İç Yapı / Inner Structure



Önemli Parçaların Malzemeleri / Material of Major Parts

No.	Parça adı / Part name	No.	Parça adı / Part name	No.	Parça adı / Part name
1	Ayar vidası / Alignment screw	10	Manyetik halka / Magnet	19	Yastıklama vidası / Cushion screw
2	Somun / Nut	11	Piston / Real piston	20	Oring / O-ring
3	Altı köşe civata / Hexagon screw	12	Dişli mil / Gear rod	21	Kapak / Cover
4	Oring / O-ring	13	Kama / Bar	22	Bağlama pedi / Mount pad
5	Durdurucu / Stopper	14	Ped / Pad	23	Üst rulman kapağı / Upper bearing cover
6	Kapak / Cover	15	Bağlantı mili / Connect rod	24	Rulman / Bearing
7	Oring / O-ring	16	Silindir borusu / Tube	25	Düz vida / Flat screw
8	Ön piston / Front piston	17	Ön piston / Front piston	26	Dişli çubuk / Gear bar
9	Piston keçesi / Piston packing	18	Yastıklama keçesi / Cushion packing	27	Arka rulman kapağı / Rear bearing cover

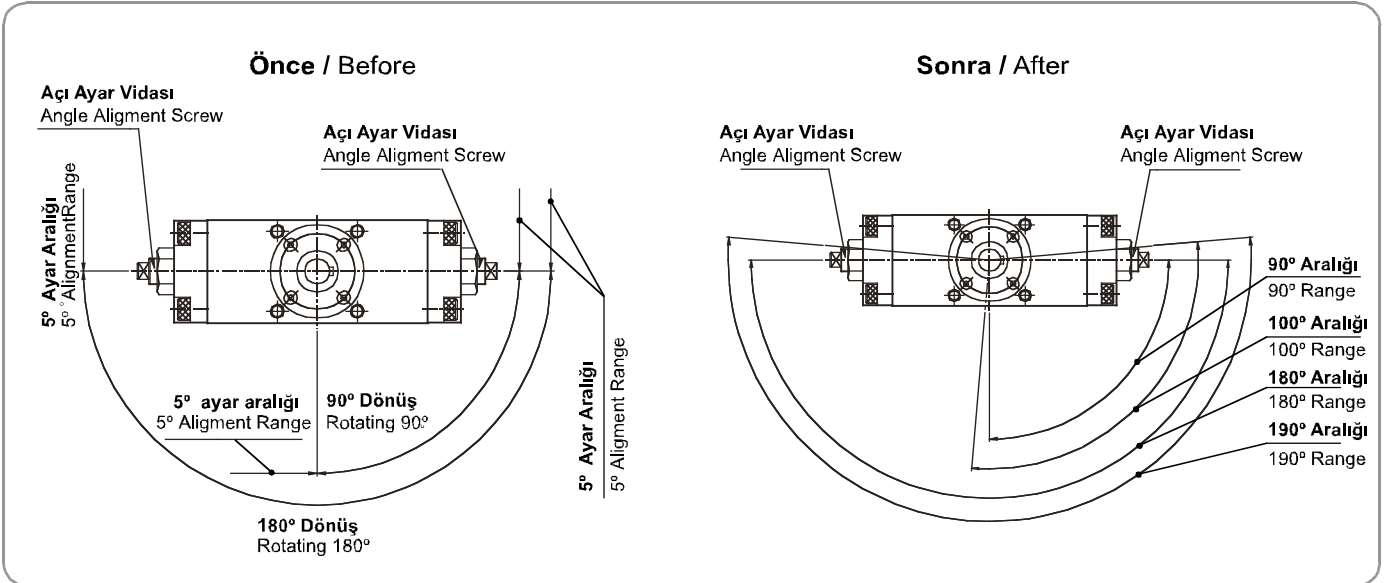
RTA - Aktüatör / Actuator

Teorik Tork / Theoretical Torque (kg - m)

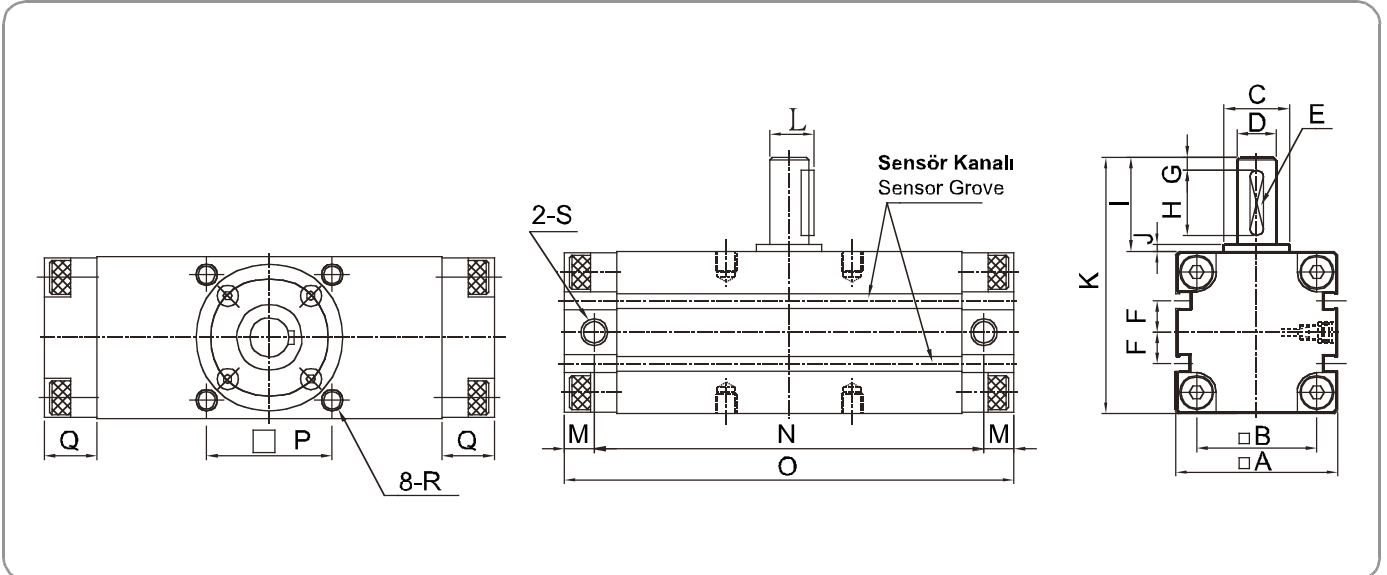
Çalışma Basıncı / Operation Pressure (bar)

Piston Ø	3	4	5	6	7	8	9	10
40	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
50	0.62	0.82	1.03	1.24	1.44	1.65	1.85	2.06
63	1.12	1.50	1.87	2.24	2.62	2.99	3.36	3.74
80	2.11	2.81	3.52	4.22	4.92	5.63	6.33	7.03
100	3.77	5.02	6.28	7.54	8.79	10.05	11.30	12.56

Dönüş Ayarı / Rotation Setting



Teknik Çizim / Technical Drawing

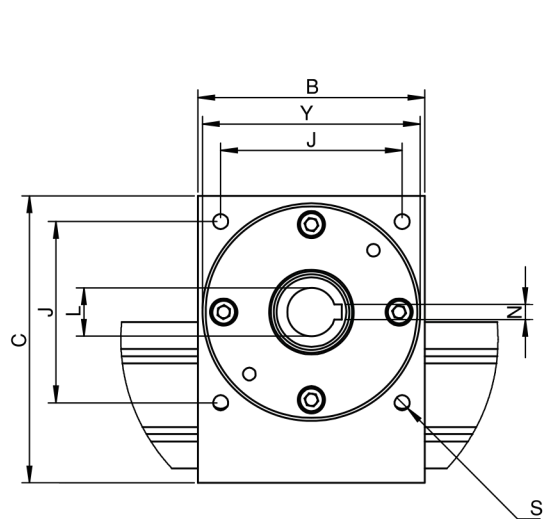
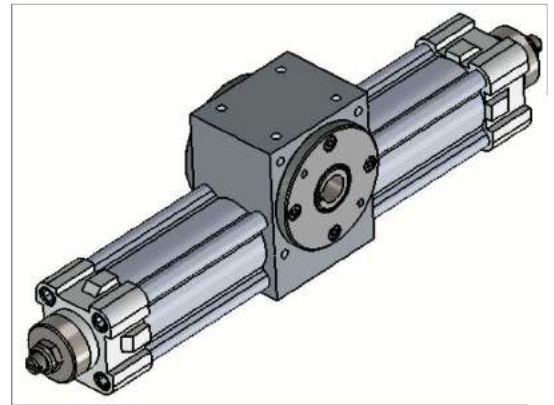
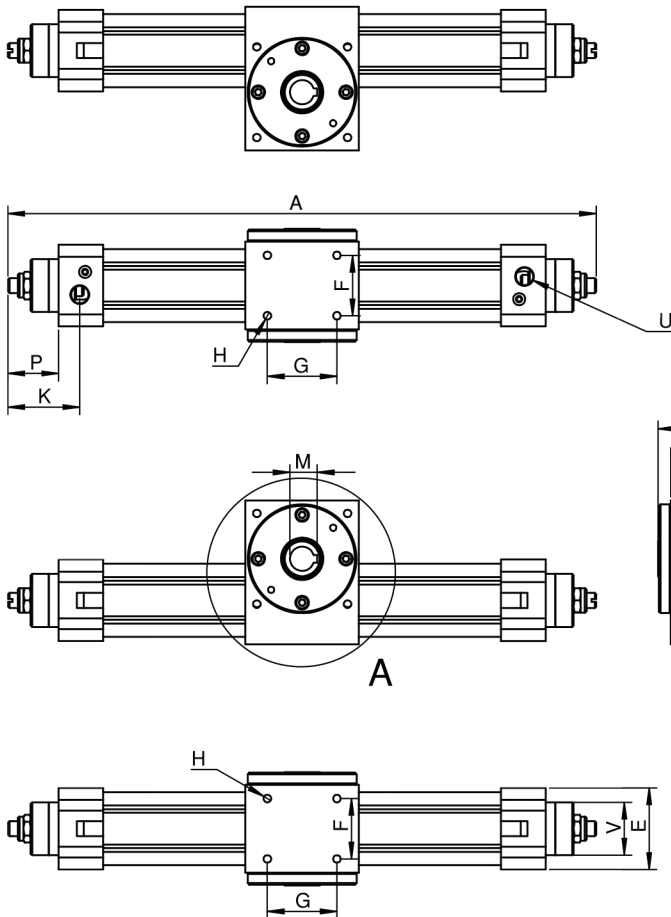


Piston Ø	A	B	C	D	E	F	G	H	I	J	K	L	M	N		O		P	Q	R	S
														90°	180°	90°	180°				
40	50	38	20	12	4x4	9.3	4	20	30	2.5	80	13.5	14.5	130	155	159	184	40	20	M6x1x7 ℓ	M5x0.8
50	62	46	25	15	5x5	12	5	25	36	2.5	98	17	11.5	149	182	172	205	48	20	M8x1.25x8 ℓ	G 1/8
63	76	57	30	17	6x6	12	5	30	41	2.5	117	19.5	11.5	162	200	185	223	60	20	M10x1.5x12 ℓ	G 1/8
80	92	70	35	20	6x6	14	5	40	50	3	142	22.5	13.5	182	226	209	253	72	23.5	M12x1.75x13 ℓ	G 3/8
100	112	85	40	25	8x7	15	5	45	60	4	172	28	16.5	226	277	259	310	85	29	M12x1.75x13 ℓ	G 3/8

WRC AKTÜATÖRLER / WRC ACTUATORS

Prömatik çift etkili aktivatörlerimiz ile basınçlı hava kullanarak 90° ve 180° olmak üzere iki farklı açıda dairesel hareket sağlayabilirsiniz. (Farklı açısız değerler için temasa geçebilirsiniz) Elde etmek istediğiniz torka bağlı olarak Ø40, Ø50, Ø63 ve Ø80 ebatları vardır. Doğruluk ve hassaslık faktörleri ön planda tutularak ; uzun ömürlü ve hassas bir ürün oluşturulmuştur. Silindir gövdesi alüminyum ekstrüzyon ürünüdür ve tüm alüminyum parçalar eloksallıdır. Pinyon dişli iki taraftan rulman ile desteklenmiştir.

Our Double acting pneumatic rotary actuators provide 90° or 180° angle circular movement with pressured air. (please contact us for different angular values) For your disiring torque values we have Ø40, Ø50, Ø63, Ø80 mm of piston diameters. Accuracy and precision factors kept in the forefront of long lived and created a sensitive product. Cylinder barrel is made of aluminium extrusion and all aluminium parts are anodized. The pinion gear is supported by bearings on both sides



DETAY A

SİLİNDİR Ø	A		B	C	D	E	F	G	H	J	K max	L H9	M +0,1	N N11	P max	S	T	U	V	Y
	90° min max	180° min max																		
40	374-391	404-421	75	95	75	54	40	46	M6	60	48	Ø16	18	5	34	M6	58	G1/4	Ø35	Ø72
50	420-446	460-486	90	110	94	64	40	70	M8	70	60	Ø19	21,8	6	46	M8	75	G1/4	Ø40	Ø83
63	430-452	472-492	90	110	94	75	40	70	M8	70	58,5	Ø19	21,8	6	41	M8	75	G3/8	Ø45	Ø83
80	508-520	540-560	105	135	120	93	50	80	M8	80	67	Ø24	27,3	6	50	M8	95	G3/8	Ø45	Ø96

*A ölçüsü en uçtaki parça olan ayar vidasının konumuna göre ve diğer toleranslar hesaba katılarak oluşabilecek en büyük ve en küçük ölçüdür. Min. and max. measurement value of A depends on adjustment screw position and tolerances.

WRC AKTÜATÖRLER / WRC ACTUATORS

Ayar Civatasını Bir Tam Tur Döndürmenin Oluşturduğu Açısal Değişim Miktarları

Angle of rotation values of adjustment screw one complete tour $\pm 0,2^\circ$

AĞIRLIKLAR Weights(kg) $\pm 5\%$

ACT. PİSTON ÇAPI Piston Bore	Tüm Sistem	Pinyon Dişli Pinion Gear	Kramayer + Piston Ekipmanları Rack and piston equipments
Ø40		0,31	0,72
Ø50		0,31	1
Ø63		0,51	1,05
Ø80		0,86	1,75

SİLİNDİR Ø Cylinder Bore Ø	90° Diresel Hareketli 90° Circularly Rotating	180° Dairesel Hareketli 180° Circularly Rotating
Ø40	2,58°	4°
Ø50	1,81°	2,74°
Ø63	1,84°	2,77°
Ø80	1,54°	2,41°

TEKNİK ÖZELLİKLER (TECNICAL CHARACTERISTICS)

Çalışma Basıncı	2 ~9 Bar
Ortam Sıcaklığı	-15°C ~ +80°C
Kullanılan Akışkan	<p>-Agresif gazlar ve sıvılar ile kullanmayınız. Don't use aggressive gasses or liquids.</p> <p>-Hava hattınızın temiz ve kuru olması ürün ömrünü büyük ölçüde arttırır. If compressed-air pipeline is clean the actuator will be more long lived</p> <p>-Sisteminiz özel pnömatik yağları ile yağlanmaktadır. We use special pneumatic oils for lubricating</p> <p>-Temizlik ve yağlama işlemleri sistem kullanım koşullarına bağlıdır. Belirtilen iyi koşullarda çalışan sistemleri 2 milyon hareket sonrası, kötü diyebileceğimiz belirtilen koşulların altında çalışan sistemleri ise 1 milyon hareket sonrası bu işlemleri yapmanız; sistem performansınızı arttıracaktır. Cleaning and lubricating depend on system operating conditions. If working conditions are good you will do this activities after two milion cycles. If working conditions arent good enough you will do this activities after one milion cycles. This activities increase performance of actuator.</p>
Açısal Sapma Değerleri	<p>-Sisteminizi uygun şekilde bağlayınız ve titreşimden uzak bölgeleri tercih ediniz. Connections must be suitable. Working area can be far from vibration.</p> <p>-Sisteminiz basınçtaiken ayar civatalarından ayarlama yapmayınız. When the actuator is on pressure you mustn't do adjustment with adjustment screw.</p> <p>-Açısal toleranslar uyguladığınız yükün değerine, yüklemenin şekline, çalışma basıncına ve hıza bağlı olarak değişecektir. Yapılan deneylerde genel olarak tek bir faktör maximum alınmış diğer faktörler ideale yakın olarak alınmıştır. Bu nedenle uç değerleri bir arada kullanmamanızı ve sisteminizi yüksek basınçlarda aşırı darbeleri çalıştırmamanızı tavsiye ederiz. Angular tolerances are depends on load value, load type, load type, load axes directions, working pressure, velocity values...etc. One factor is usually maximum in our experiments and other factors are approximately ideal. So that don't take max.values more than one in one system.</p> <p>- Belirtilen şartlarda maksimum $\pm 5^\circ$ sapma ölçülmüştür. Under prescribed condutions maximum angle of deflection value is $\pm 5^\circ$</p>

TORK DEĞERLERİ (TORK VALUES)

Yapılan deneyler sonucunda gerçek değerlerin ideal değerden farklı olduğu ölçülmüştür. Bu duruma etken başlıca faktörler; iç ve dış mekanizmadaki sürtünmeler, yükün sayısal değeri etkime şekli ve doğrultusu, çalışma basıncı, atalet kuvvetleri, sıcaklık...vs değişkenler olarak sayılabilir. Bu nedenle en ideal çalışma koşullarını elde edebilmemiz için uygulamaya göre değişken olan emniyet faktörünüzü en az 2 olarak kabul ediniz.

Our experiments we measured that the real and ideal values are different. The main factors are; inner and outer mechanism friction, value of load direction and type in action, working pressure...etc. Therefore indicating the generous working conditions you must choose safety factor minimum 2.

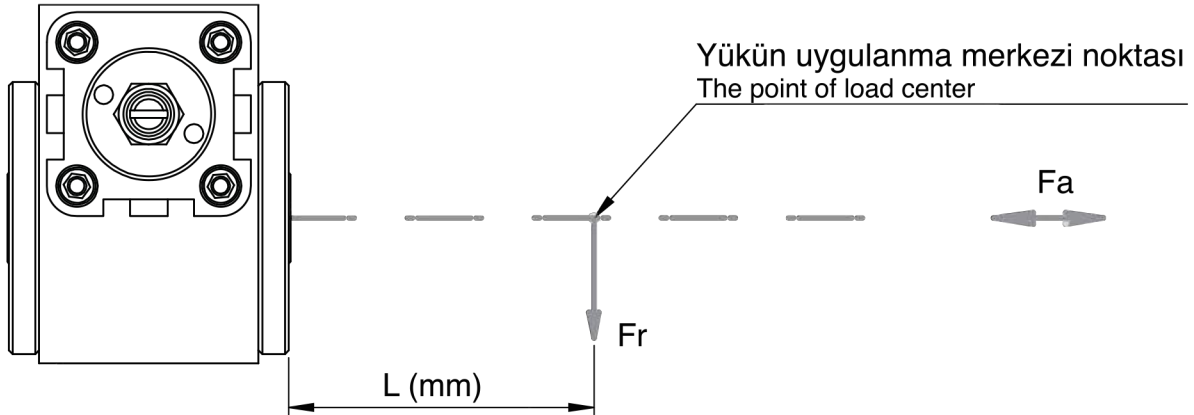
1 Bar İçin Teorik Tork Değerleri (ideal durumda)

1 bar teorical tork values (ideal conditions)

ANMA Ç API Ø	Ø40	Ø50	Ø63	Ø80
Mt (N.m)	2,15	3,75	7	15

PİNYON DİŞLİNİN KARŞILAYABİLECEĞİ STATİK YÜKLER

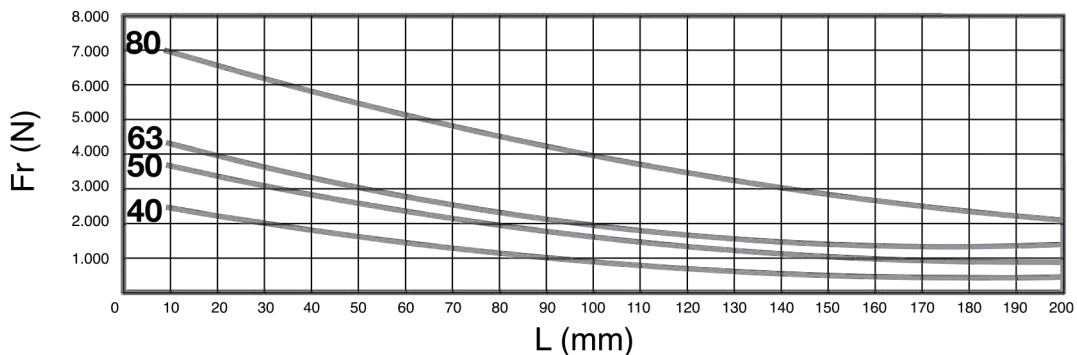
(Acceptable static loads for the pinion)



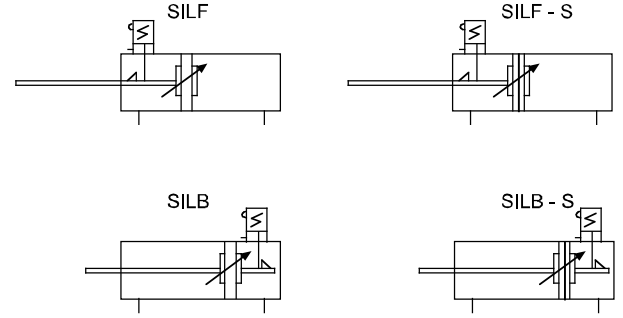
$F_r=0$ iken maksimum F_a kuvveti ;

ANMA Ç API Ø	Ø40	Ø50	Ø63	Ø80
F_a (N)	90	110	115	180

$F_a=0$ iken L mesafesine bağlı maksimum F_r kuvveti (N);



SIL - Kilitlenebilir Silindir / SIL - Lockable Cylinder

Sembol / Symbol

Sensörler / Sensors KT-21R (Sy/Pg:3-04) + **PI Braket / Bracket** (Sy/Pg:3-09)

Özellikler / Specification

Piston Çapı / Bore Size (mm)	40	50	63	80	100	125	160	200
Çalışma Tipi / Action Type	Çift Etkili / Double Acting							
Akışkan / Fluid	40 µ filtrelenmiş Hava / Air (to be filtered by 40µ filter element)							
Basınç Aralığı / Pressure Range	1.0~9.0bar (0.1~0.9MPa)(14~128Psi)							
Test Basıncı / Proof Pressure	15.0bar (1.5MPa)(213Psi)							
Sıcaklık / Temperature	-5~70							
Hız Aralığı / Speed Range (mm/s)	30~800							
Yastıklama Tipi / Cushion Type	Ayarlanabilir Yastıklama / Variable Cushion							
Ayarlanabilir Yastıklama Stroku / Adjustable Cushion Stroke	Kilitsiz / Without Lock	27	30	36	40	50		
	Kilitli / With Lock	15	13.5	16	19.5	20	22	27.5
Bağlantı Ölçüsü / Port Size	1/4"		3/8"		1/2"		3/4"	

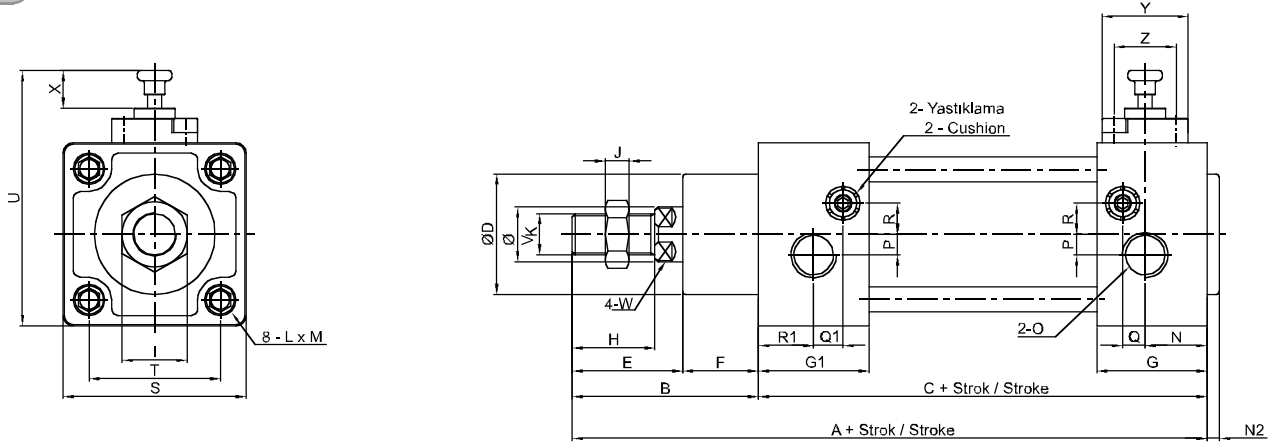
Sipariş Kodu / Ordering Code

SIL	B	50	50	S
Model Model	Kilitleme Pozisyonu Lock Position	Piston Çapı (mm) Bore Size (mm)	Strok (mm) Stroke (mm)	Manyetik Magnet
SIL: Standart Kilitlenebilir, Çift Etkili SIL: Standart Lockable, Double Acting	B: Arka Kapak Kilitli Back Cover with Lock F: Ön Kapak Kilitli Front Cover with Lock			Boş: Manyetiksiz Blank: Without Magnet S: Manyetikli / With Magnet

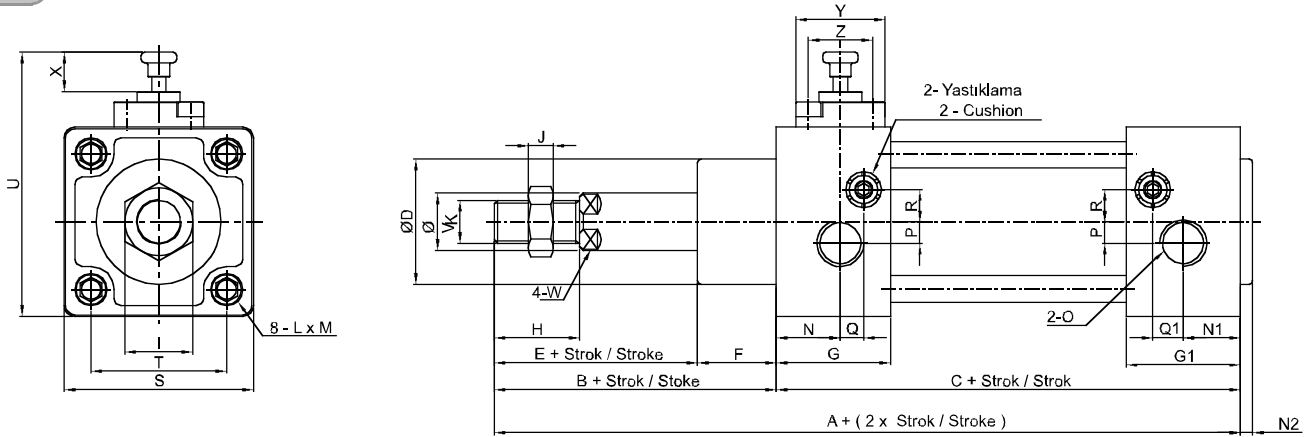
SIL - Kilitlenebilir Silindir / SIL - Lockable Cylinder

Teknik Çizim / Technical Drawings

SILB



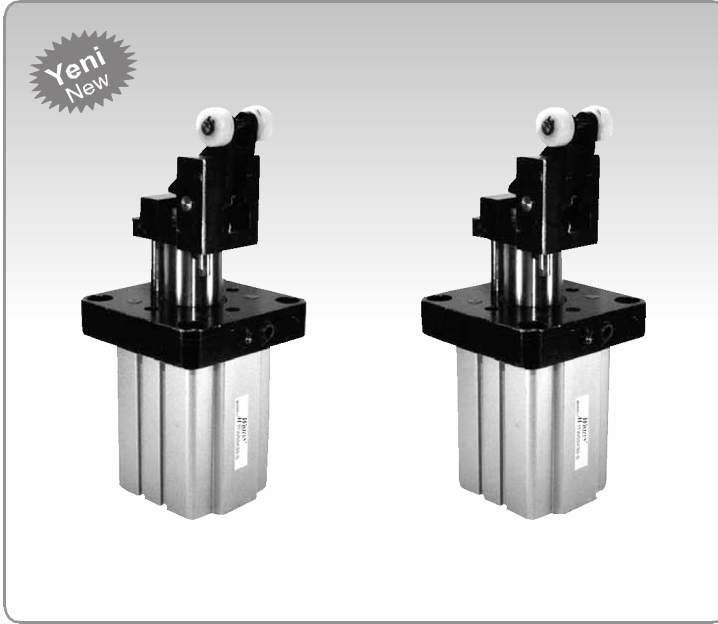
SILF



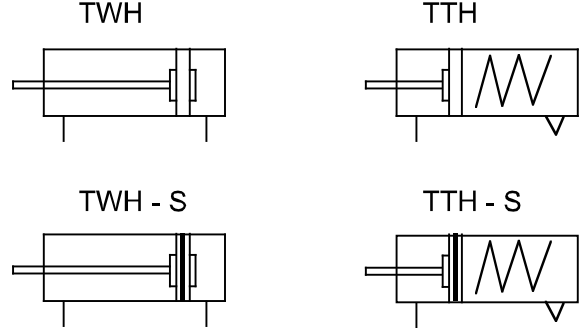
Ölçü / Item Piston Çapı Bore Size	A	B	C	D	E	F	G	G1	H	I	J	K	L	N
40	159	54	105	35	34	20	32	32	24	19	7	M12 x 1.25	M6 x 1	18
50	175	69	106	40	42	27	31	31	32	24	8	M16 x 1.5	M8 x 1.25	18.5
63	190	69	121	45	40	29	33	33	32	24	8	M16 x 1.5	M8 x 1.25	18
80	220	86	134	45	53	33	39	33	40	30	10	M20 x 1.5	M10 x 1.5	22.5
100	231	91	138	55	55	36	39	37	40	30	10	M20 x 1.5	M10 x 1.5	22.5
125	279	119	160	60	74	45	46	46	54	41	13.5	M27 x 2.0	M12 x 1.75	23
160	332	152	180	66	94	58	50	50	72	55	18	M36 x 2.0	M16 x 2.0	25
200	347	167	180	75	100	67	50	50	72	55	18	M36 x 2.0	M16 x 2.0	25

Ölçü / Item Piston Çapı Bore Size	N1	N2	O	P	Q	Q1	R	S	T	U	V	W	X	Y	Z
40	16	3.5	1/4"	6	6.5	8.5	9	53	38	74	16	13	10	25	18
50	15.5	3.5	1/4"	8.5	4.5	7.5	7.5	65	46.5	86	20	17	10	35	18
63	16.5	4	3/8"	7.5	7	8.5	9	75	56.5	96	20	17	8	30	21
80	16.5	4	3/8"	11	8.5	8.5	13.5	95	72	117	25	22	8	33	24
100	18.5	4	1/2"	13.5	7.5	9	14.5	115	89	137	25	22	8	33	24
125	23	4	1/2"	14	12	12	14	140	110	172.5	32	27	18.5	45	35
160	25	4	3/4"	15	13	13	20	180	140	212.5	40	36	18.5	45	35
200	25	5	3/4"	15	12	12	20	220	175	252.5	40	36	18.5	45	35

TWH - Durdurucu Silindir / TWH - Stopper Cylinder



Sembol / Symbol



Sensörler / Sensors

KT 062R (Sy/Pg.3-02)

Özellikler / Specification

Piston Çapı / Bore Size (mm)	20	25	32	40	50	63	80
Çalışma Tipi / Action Type	Çift Etkili / Double Acting			Tek Etkili (Arkadan Yaylı) / Single Acting (Pull Type)			
Akışkan / Fluid	40 µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)						
Sıcaklık / Temperature	-5~70						
Basınç Aralığı / Pressure Range	1.0~1.0bar (0.1~1.0MPa)(14~142Psi)						
Test Basıncı / Proof Pressure	15.0bar (1.5MPa)(213Psi)						
Yastıklama Tipi / Cushion Type	Tampon / Bumper						
Yağlama / Lubrication	Gerekirmez / Not Required						
Bağlantı Tipi / Mounting Type	Fran						
Durdurucu Tipi / Stopper Type	Şoksuz Durdurucu (Ayarlamasız Damper) Shockless Stopper (With Non-adjustable Dumper)			Şoksuz Durdurucu (Ayarlamalı Damper) Shockless Stopper (With Adjustable Dumper)			
Bağlantı Ölçüsü / Port Size	M5 x 0.8		1/8"			1/4"	

Sipariş Kodu / Ordering Code

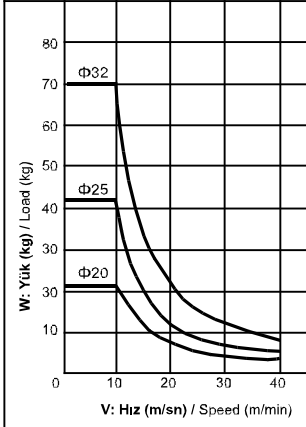
TWH	S	50	30	K
Model Model	Manyetik Magnet	Piston Çapı (mm) Bore Size (mm)	Strok (mm) Stroke (mm)	Durdurucu Stopper
TWH: Çift Etkili / Double Acting TTH: Tek Etkili (Arkadan Yaylı) Double Acting (Pull Type)	Boş: Manyetiksiz Blank: Without Magnet S: Manyetikli / With Magnet			L: Şoksuz Durdurucu (Ayarlamasız Damper) L: Shockless Stopper (With Non-adjustable Dumper) K: Şoksuz Durdurucu (Ayarlamalı Damper) K: Shockless Stopper (With Adjustable Dumper)

TWH - Durdurucu Silindir / TWH - Stopper Cylinder

Seçim Grafikleri / Selection Graphics

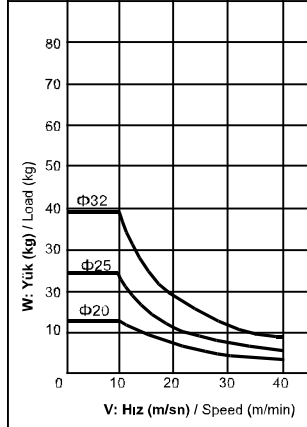
Çizim I / Drawing I

Sürtünme Katsayısı / Friction Index *m=0



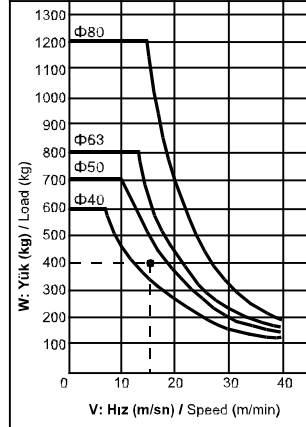
Çizim II / Drawing II

Sürtünme Katsayısı / Friction Index *m=0,1



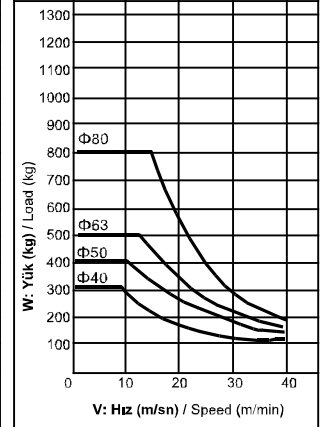
Çizim III / Drawing III

Sürtünme Katsayısı / Friction Index *m=0



Çizim IV / Drawing IV

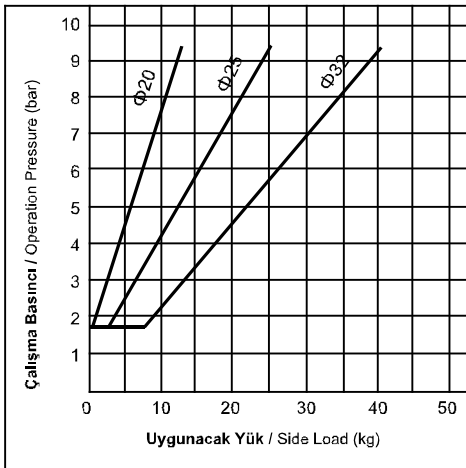
Sürtünme Katsayısı / Friction Index *m=0,1



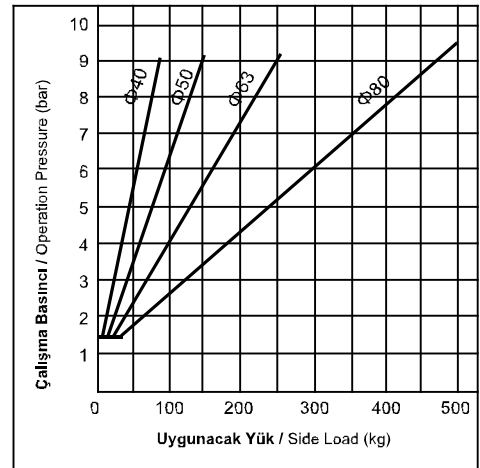
Örnek: Yük = 400 kg, Hız = 15 m/dak, Sürtünme Katsayısı *m=0; Çizim III kullanılır, Y ekseninde 400kg ve X ekseninde 15m/dak noktaları kesi-tirirler. Bir üstünde kalan çap 50 silindir seçilir. Example: Load = 400kg, Speed = 15 m/min, Friction Index *m=0, in drawing III, 400kg in axle Y and 15m/min in axle X are Symmetrical. So it is 50 cylinder is chosen

Uygunacak Yük ve Çalışma Basıncı / Side Load & Operation Pressure

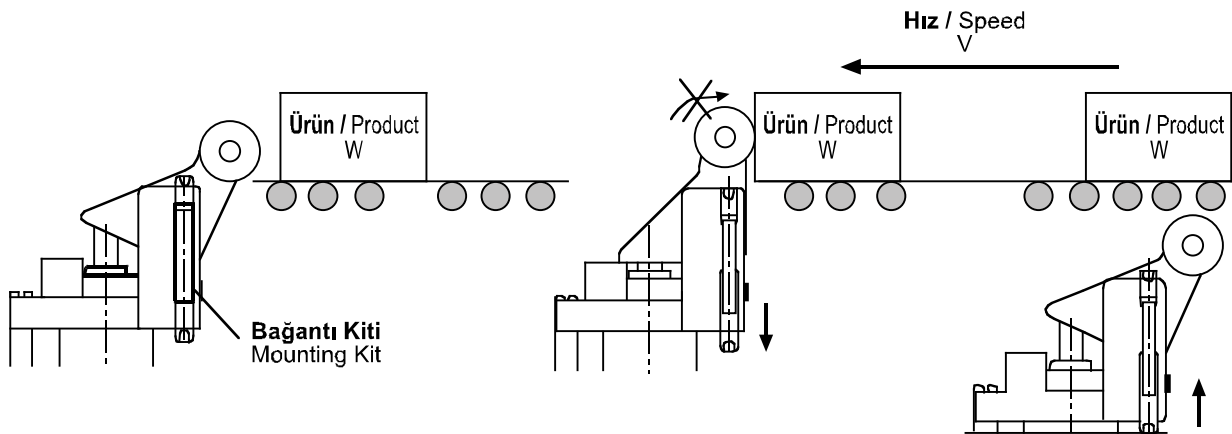
TWH20, 25, 32



TWH40, 50, 63, 80



Otomatik Kilitleme / Auto Lock



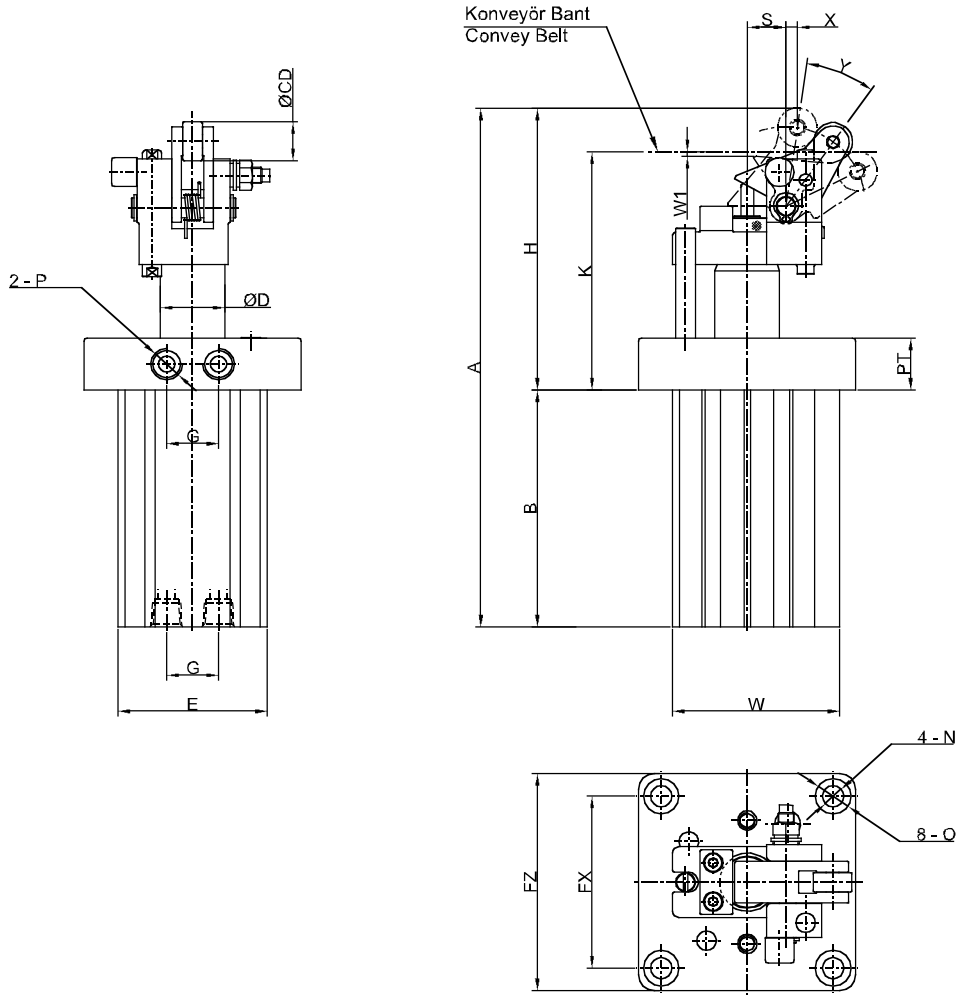
Orijinal Konum / Original Position

Tekerleğin Kilitlemesi / Lock the Roller

Tekerleğin Kilidinin Çözülmesi / Unlock the Roller

TWH - Durdurucu Silindir / TWH - Stopper Cylinder

Teknik Çizim / Technical Drawings

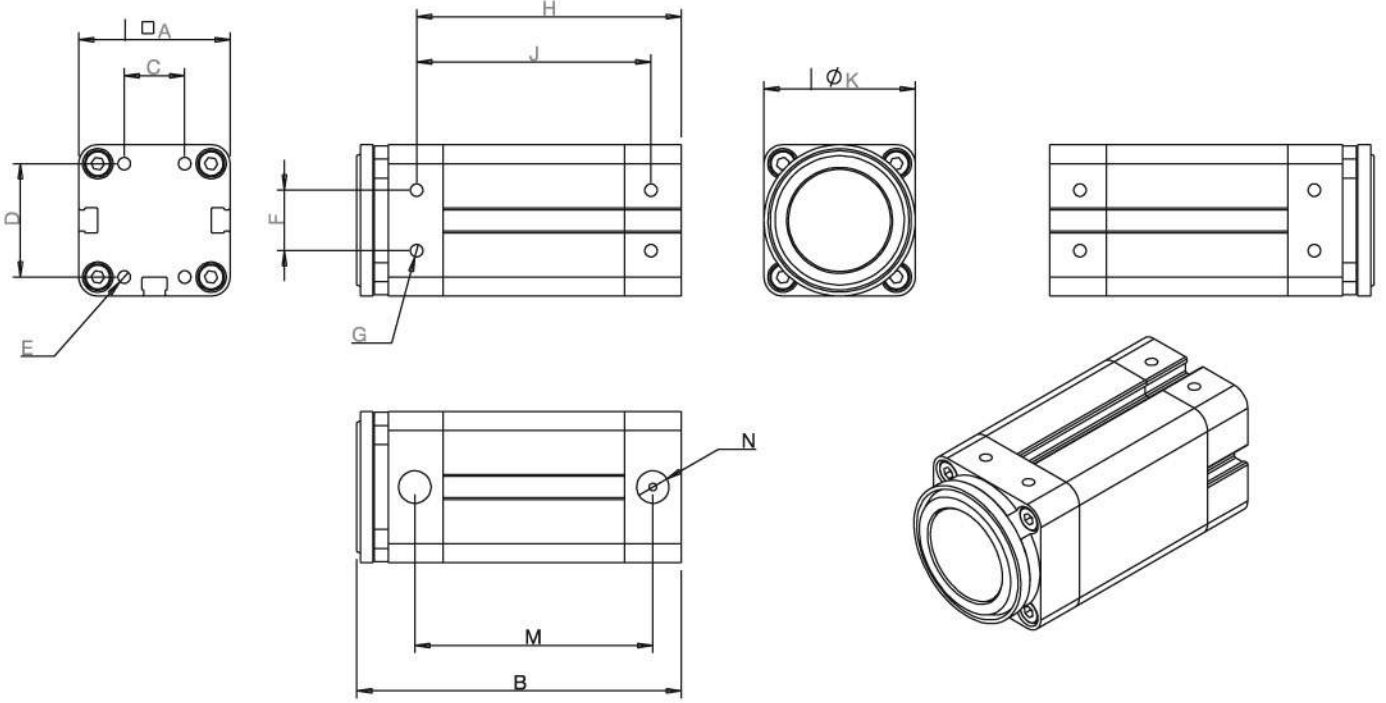


Ölçü / Item Piston Çapı Bore Size	20	25	32	40	50	63	80
A	144	151	160	169	221	243.5	299
B	70	72	73	80	93	99	128
CD	12	12	12	12	20	20	25
D	16	16	20	20	32	40	50
E	36	40	46	53	64	77	98
PT	8	16	16	16	20	25	25
FX	40	47	53	65	73	90	110
FZ	48	58	67	82	93	114	138
G	14	16	16	17	16	24	24
H	74	79	87	87	144.5	144	171
K	61	66	74	76	122	121	145
N	5	6.6	6.6	6.6	9	11	13
O	-	11	11	11	14	18	20
P	M5	1/8"	1/8"	1/8"	1/8"	1/4"	1/4"
S	12	12	12	12	21	25	31
X	3	3	4	4	5	5	6
Y	28	28	28	28	24	24	23
W	40	45	51.5	62	72	87.5	109
W1	2.2	2.2	1.3	3.9	2.7	4.1	3.6

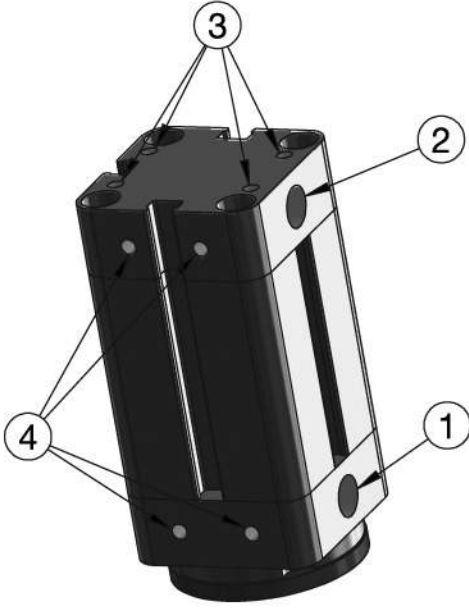
MANYETİK TUTUCULU SİLİNDİRLER (MAGNETIC GRIPPERS)

Ürünlerimiz kompakt yapıları sayesinde az yer kaplamaları, uygun şartlarda çok uzun süre özelliklerini koruyabilen manyetik tutucular ile güvenli tutma kuvveti sağlayarak; aynı malzeme için, önemli ölçüde değişen kuvvet oluşmaması, voltaj tedariği ..vs gibi ek bir teçhizat gerektirmemeleri gibi büyük avantajlara sahiptirler. Genel olarak ince sacların taşınmasında kullanılmaktadırlar.

Our products are close packed structure so that they take a small space in applications. In suitable conditions they have very long life. Other important advantages are for the same material they provide approximately same holding forces and they dont need any voltage. In general this applications have used in transporting thin sheets in industry.



	Ağırlık (gram) Weigth	A	B	C	D	E	F	G	H	J	K
WMG 25	340	40	86	16	30	M4x8	16	M4x6	70	62	40
WMG 32	540	50	89	20	33	M4x8	23	M4x8	74	66,5	50
WMG 40	720	58	91,5	26	44	M6x12	28	M5x10	73	64,5	50
WMG 50	1120	63	101	30	50	M6x12	34	M5x10	83	73	63



AÇIKLAMALAR (Instructions)

NO	
1	Basıncı hava veya vakum bağlantı yeri Compressed air or vacuum connection
2	Basıncı hava veya havalandırma yeri Compressed air or ventilation opening
3	Arka bağlantı bölgesi Back mechanical connection
4	Yan bağlantı bölgesi (Karşılıklı 2 taraflı) Side mechanical connection (opposite of 2 sides)

***Tam bir genelleme yapılamamakla birlikte yükün bağlantı şekline, miktarına, ortam şartlarına ve basınç değerleri..vs bağlı olarak eğer mekanizmanız ortalama veya üst değerlerde yüklemeye bırakma şeklinde çalışıyor ise malzemeyi tutma sırasında sadece vakum basıncı yeterli olmayabilir. Bundan dolayı eğer vakum basıncı kullanıcak iseniz en ideal durum vakumu sadece parçayı kavramak için kullanın ve parçayı bırakmak içinde basınçlı gaz kullanmanızı tavsiye ederiz.**

*We don't generalize conditions and if you want to use only vacuum pressure you will consider operating average or over average loads and other important factors load connection position, ambient conditions, pressure values...etc. due to mechanism might not be sufficient. The mechanism might not be put off weight. So we propose you can use vacuum pressure for holding material when you want to putting off you can use air pressure.

UYARILAR

- Hattınıza su,yağ...vs filtre edilmeden sisteminize göndermeyiniz.
- Silindir yakınına zorunlu olarak metal malzeme kullanılması ve uzun süre kalan metalik malzemeler çekme kuvvetleri ve çalışma durumunu olumsuz etkilebilir. Malzeme cinsine bağlı olarak değişik boyutlarda manyetiklenebilir. Bu durum olumsuz etkiler yaratabilir.
- Silindirinizin yanlarına metal malzeme yaklaştırmayınız. (özellikle çekim kuvveti büyük ve kalın malzemeler) Miknatısın merkezden kaçmasına sebep olunabilir. Hatta silindirin iç mekanizmasında takılmaya sebep olarak stroğu tamamlamaması (miknatısın öne gelmemesi ortaya çıkabilir. Bu gibi bir durum ile karşılaşsanız; mekanizmayı belirtilen hususlara dikkat ederek açıp, miknatısı merkezleyerek uygun bir yapıştırıcı ile yapıştırınız.
- Genel olarak malzemenin demir oranı ve malzemenin kalınlığına göre çekme kuvveti değişmektedir. Yine malzeme cinslerine bağlı olarak değişik malzemeler ile yaptığımız deneylerde maximum 2 mm kalınlığında olan sacların üstüne çıkmamanızı tavsiye ederiz. Bu gibi durumlarda miknatısın pistondan ayrılması(miknatısın hep önde kalarak parçayı bırakmaması) gözlemlenebilir. Üst maddede bahsedilen ;yapışkanın kopması, merkezlememe gözlemlenebilir.
- Elektronik ve manyetik ekipmanları silindir yakınında kullanmayınız. Bu ekipmanlara zarar verebilir.
- Manyetik miknatıs parçaları herhangi bir nedenle zarar görmediği sürece silindir içini açmayınız. Silindir çevresine metalik ve manyetik malzeme ile yaklaşmayınız. Özellikle içi açıkken miknatısa zarar verebilir ve yaralanmaya sebep olabilir.
- Sivri uçlu parçaların tutup bırakma işleminde sivri kısımlar alüminyum malzemeye direk olarak çarpıyor ise çarpma kuvveti ve malzeme sertliğine bağlı olarak ön kapağı kısa sürede delicektir.
- Metal tozlarının yoğun olduğu ortamlardan mümkün olduğunca kaçınız. Bu gibi ortamlarda mümkün olan en ideal bölgeye silindirinizi kurun veya izole edin. Aksi takdirde havadaki metal parçacıklarının oran ve büyüklüğüne bağlı olarak kısa zamanda silindirimize yapışarak bir tabaka oluşturacaktır ve yapacağınız işlemlerde olumsuzluklar yaratabilecektir. Bu durumda çok sık dış yüzey temizliği gerektireceğini göz önüne alınız.
- Patlayıcı ve yanıcı ürünlerin bulunduğu ortamlarda yangın ve patlamalara sebep olabilir.
- Yüzey alanı kalınlığına göre çok fazla olan çok ince sac malzemelerde mekanizmanın artık gerilme durumu ve ağırlık eksenine tutma ekseninin durumları uygun olmalıdır. Eğer aynı ekseninde ise ağırlık kuvveti mekanizma bırakma kuvvetinin en az 2,5 katı seçmenizi öneririz çünkü bazı durumlarda malzemelerinde manyetiklik kazanabileceğini unutmayınız.

WARNINGS

- Don't send oil,water..etc before filtering system
- Don't use metals near the mechanism because metals can be magnetic. The value of magnetism depends on time and according composition. Consequently it cause negative influences.
- Don't pull metals over the sides of cylinder.(especially thick metal plates which have high force of gravity)This metal pull the magnet and the magnet might be out of centre of cylinder. Even worse, the magnet is on friction In the worst condition the magnet might be crash into the cap and it doesn't come front area of cylinder. You take very little holding force in this condition.Because of these conditions The magnetic gripper might be break down in short period of time. If such a problem arises in you will open the mechanism you will centered the magnet and pasted by proper glues
- Generally material holding force depends on material thickness and ratio of iron. We made experiments with different materials and thicknesses and we might not recommend metal plates which has upper than 2 mm thickness. In such a case the magnet might leave the piston (it's always be in front area and always hold material) You might see the problems shown in above ; adhesive joint break down and magnet cant be in centre.)
- Don't use electronic or magnetic parts near the cylinder. The magnet can damage equipment.
- Be careful if you open cylinder you must not be take metal equipment near you. You might get injured or damaged magnet.
- If you use keen parts crushing to the aluminium cap directly, the cap will be puncture for a short time by depending on hardness.
- We don't propose to operating where metal powders are intensive conditions. You might insulate the cylinder. If you dont do insulate the metal powders sticking on the cylinder and it cause negative influences
- The magnetic gripper may not be used in explosion-hazard areas, since it may cause fires and explosions!
- Thin plates which surface area too much than thickness. You should consider residual forces and center of gravity axis with holding axis and other factors(friction...vs) If centre of gravity and holding axis are paralel you will choose mass force minimum 2,5 x Residual Force(piston back position force) of magnetic gripper.Because in some conditions the materials might be much magnetic.

	WMG 25	WMG 25	WMG 25	WMG 25
Genel Çalışma Şartları General Working Conditions	Uyarılar bölümüne bakınız. Hava hattınız temiz,kuru ve yağdan arıtılmış olmalıdır. Agresif olmayan gazlar kullanılmalıdır. Please look at warning instructions. Use non aggressive gasses. Compressed-air pipeline must be dry, clean and oil must be refined			
İdeal Çalışma Basıncı Ideal Working Pressure	3 _ 7 Bar			
İdeal Çalışma Sıcaklığı Working Pressure	+5 _ +60°C			
İdeal vakum Değeril Ideal value of vacuum pressure	-0,6 Bar			
ÖLÇÜLEN MAX. DEĞERLER (N) (MEASURED MAX.VALUES)				
MAX TUTMA KUVVETLERİ (Max Holding Forces) X:metal plaka kalınlığı mm (metal plate thickness mm)				
0,8 ≥ x ≥ 0,7	40	45	60	90
1,1 ≥ x ≥ 1	50	55	75	110
2,1 ≥ x ≥ 2	60	65	90	135
PİSTON GERİ KONUMDA İKEN MAX ARTIK GERİLİMLER (Max. Residual Force Values When The Piston Is At The Back Position)				
0,8 ≥ x	0,5 ≥			
1,1 ≥ x ≥ 1	0,6 ≥			
2,1 ≥ x ≥ 2	0,7 ≥			

-Tabloda belirtilen kuvvetler ST 37 nin 20°C sıcaklıkta statik olarak aktif bölge tamamen çevrelenmiş olarak ölçülmüştür.
-Yapacağınız hesaplarda kuvvetlerin uç değerler olduğunu,geometriye ve malzemeye bağlı olarak değişebileceğini göz önüne alınız. Genel olarak emniyet faktörünü 3 olarak kabul edebilirsiniz.

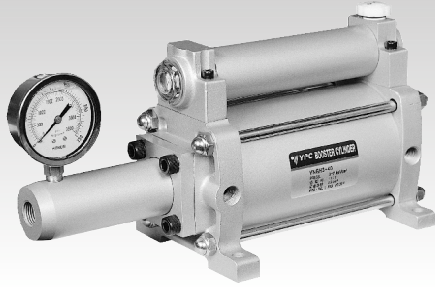
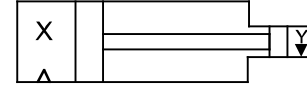
Boosterler / Boosters

Sipariş Kodu / Ordering Code

YNBH3	40	
		→ 40: Sıkıştırma Oranı / Compress Rate (11:1)
		→ 60: Sıkıştırma Oranı / Compress Rate (25:1)
		→ YNBH3 - Direkt Sıkıştırılmış / YNBH3 - Direct Compressed
		→ YNPH3 - Ön Sıkıştırılmış / YNPH3 - Pre-Compressed

Sembol / Symbol

Booster / Booster

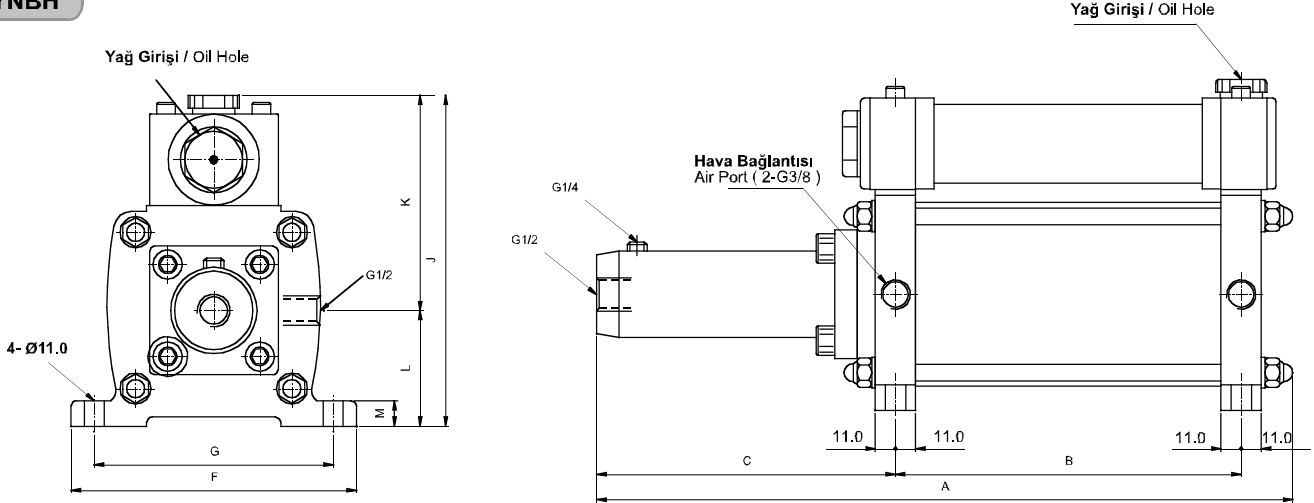


Özellikler / Specification

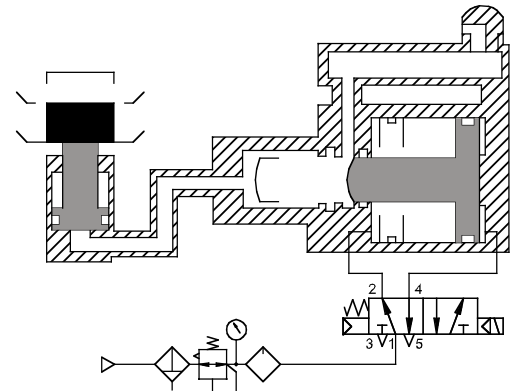
Özellikler / Item	YNBH3-40 YNPH3-40	YNBH3-60 YNPH3-60
Yüksek Basınç Oranı / Heavy Pressure rate	11 : 1	25 : 1
Yağ Verdisi / Overflowing Oil Gauge	70 cm ³ / 70 cc	70 cm ³ / 70cc
En yüksek hava basıncı uygulandığı andaki elde edilen yağ basıncı Overflowing oil pressure at the time of application maximum air temperature	77 bar	175 bar
Ortam & Akışkan Sıcaklığı / Ambient & Fluid Temperature	5 ~ 60°C (41 ~ 140F)	
Çalışma Yağı / Operation Oil	Cosmiter 10(cosmo gasolin), Tough spendux oil(made in julk tongsan co.)	
Basıncılı Hava Kısmı Air Pressure Department	Akışkan / Fluid	Hava / Air
	Yağ Beslemesi / Oil - Feeding	Gerek yok / Not require
	Basınç / Pressure	3~7 Bar
	Yağ / Oil	ISO VG 32'ye eşdeğer / Tubin oil, oil equivalent to ISO VG 32#
Ağırlık / Weight	8.0 kg	10.0 kg

Teknik Çizimler / Technical Drawings

YNBH

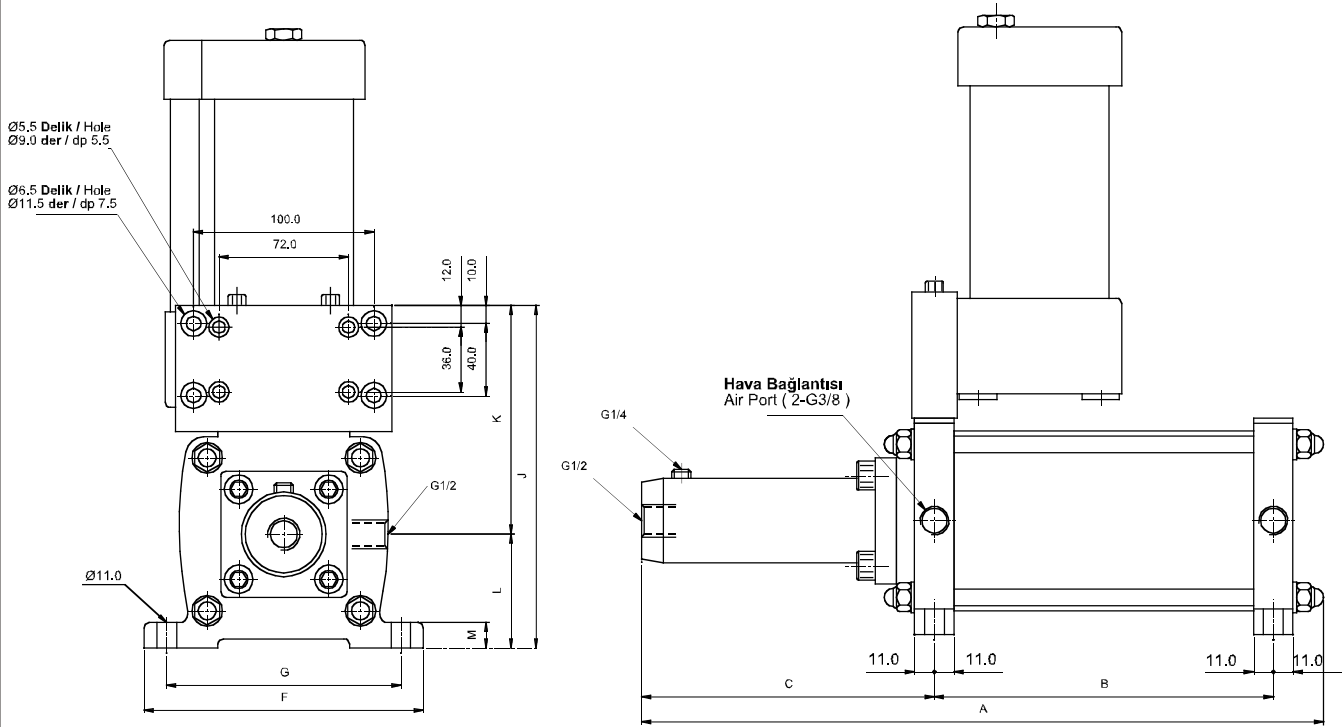


MODEL	A	B	C	F	G	J	K	L	M
YNBH3-40	378	188	162.5	155	130	180	120	60	14
YNBH3-60	378	188	162.5	220	190	227	137	90	16

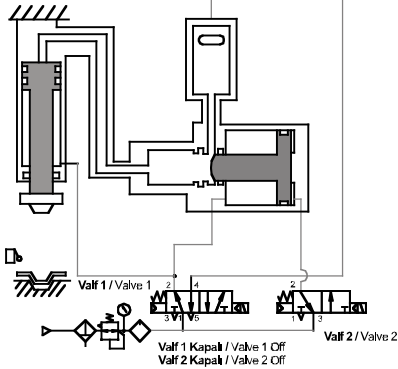


Boosterler / Boosters

YNPH



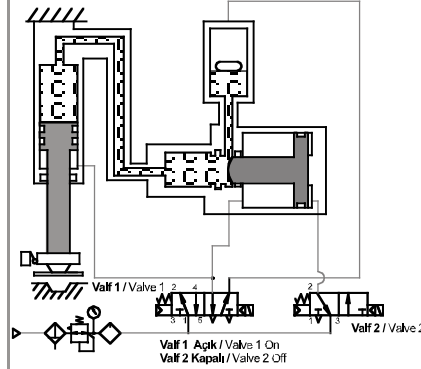
	A	B	C	F	G	J	K	L	M
YNBH3-40	378	188	162.5	155	130	196	136	60	14
YNBH3-60	378	188	162.5	220	190	245	156	90	16


• Bitiş Stroku

İşlem bittikten sonra, dönüşüm valfi sayesinde hidrolik silindir hava basıncı ile orjinal konumuna geri döner. Yani iş stroğuna hazır hale gelir.

• Ending Stroke

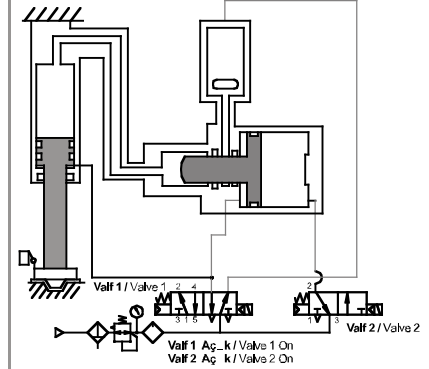
After finished work, compressor of oil cylinder has been restored to air pressure by converting valve, and all the stroke is returned original state, then is prepared to travel stroke.


• Ön Sıkıştırımlı Dönüş Stroku

Basıncılı hava kullanılarak, sıkıştırılmış yağ sayesinde hidrolik silindir hareket eder.

• Precompressed Travelling Stroke

By using compressor, high compressed oil should be travelled to the hydraulic to get output.


• Dönüş Stroku

Genel sinyal üreticilerden biri kullanılarak, büyük çaplı silindiri kumanda eden valf açılır. Böylece düşük basınçlı hareketten, yüksek yağ basıncına geçilmiş olur.

• Travelling Stroke

By using common converter it has been changed from "Low-compressed air pressure" to "oil pressure" at the time of 1:1 pressure.

Pnömatik Çelik Silindir Boruları / Pneumatic Steel Cylinder Tubes



Özellikler / Specification

- İç çap Ø16 mm'den Ø200 mm'ye kadar stoklarda
• From internal Ø16 mm to Ø200 mm ready to delivery from stock
- Dikişli ve dikişsiz soğuk çekme DIN 2393 normunda
• Welded and seamless cold drawn, DIN 2393
- İç yüzey honlanmış, parlatılmış ve yağlanmış
• Internally honed, burnished and oiled
- St 52.3 - St 37.2 BK+S kalitesinde
• Steel grade in St 52.3 - St 37.2 BK+S
- İç çap toleransı ISO H9 - H10
• Internal diameter tolerance ISO H9 - H10
- İç yüzey pürüzlülüğü; Ra: 0.8 µ
• Internal surface roughness; Ra: 0.8 µ
- Düzgünlük: 1 / 1000 mm
• Straightness: 1 / 1000 mm
- Kopma Gerilimi; Rm: 580 N / mm² (min)
• Breaking Stress; Rm: 580 N / mm² (min)
- 3 - 8 mt üretim boylarında
• Commercial Length: random 3 - 8 mt

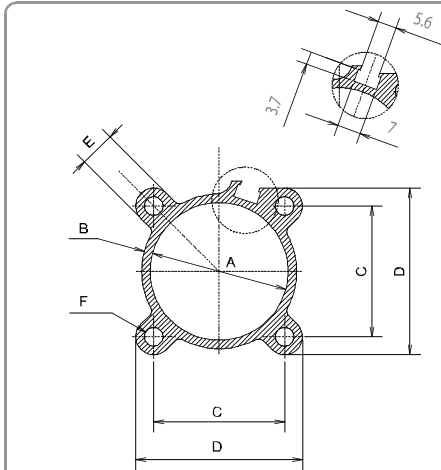
Ölçüler / Dimensions

Model	İç Çap Int. Dia (mm)	Dış Çap Out. Dia (mm)	Ağırlık Weight (kg / mt)
WPC16	16	20	0.89
WPC20	20	25	1.39
WPC25	25	30	1.70
WPC32	32	37	2.13
WPC40	40	45	2.60
WPC50	50	55	3.24
WPC63	63	68	4.03
WPC80	80	86	6.15
WPC100	100	107	8.92
WPC125	125	132	11.09
WPC160	160	170	20.34
WPC200	200	210	25.27

Pnömatik Alüminyum Silindir Boruları / Pneumatic Aluminium Cylinder Tubes



Teknik Çizim / Technical Drawing

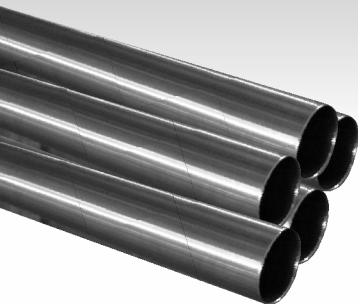


Sensör Kanallı Boruların Kodu WS dir.
Sensor Slotted Tube Code is WS

Ölçüler / Dimensions

Model	A	B	C	Ağ. / Wei (kg/mt)
WA32	32 H11	36	32.5	1.38
WA40	40 H11	45	38	1.63
WA50	50 H11	55	46.5	2.26
WA63	63 H11	68	56.5	2.60
WA80	80 H11	86	72	3.66
WA100	100 H12	106	89	4.92
WA125	125 H12	132	110	7.35
Model	D	E	F	Ağ. / Wei (kg/mt)
WA32	42.9	10.4	5.4	1.47
WA40	48.3	10.4	5.4	1.70
WA50	60	13.5	7.4	2.30
WA63	70	13.5	7.4	2.69
WA80	87	15	9.25	3.75
WA100	106.5	16	9.25	4.83
WA125	133	17	10.5	-

Paslanmaz Çelik Silindir Boruları / Stainless Steel Cylinder Tubes



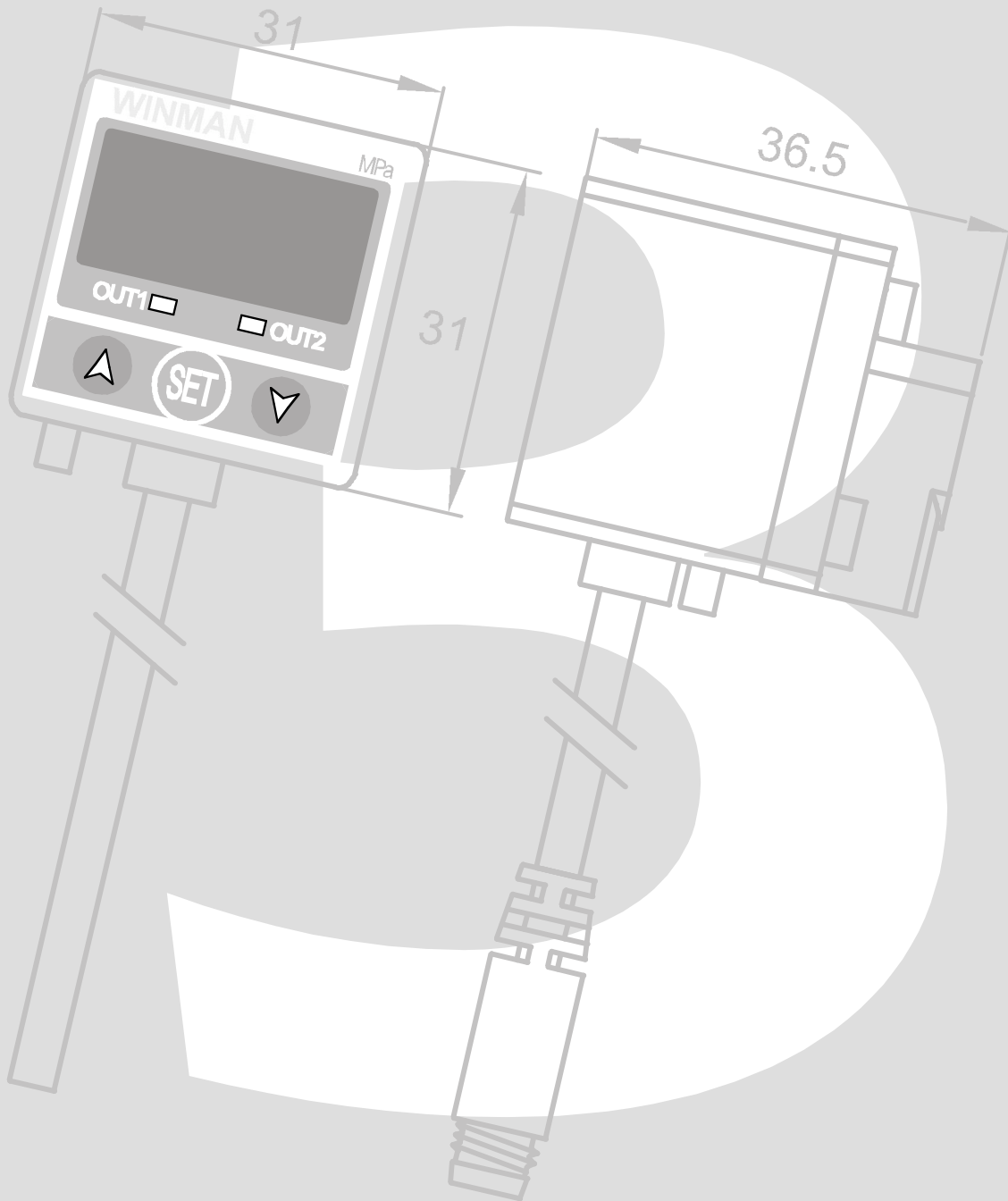
Özellikler / Specification

- İç çap Ø8 mm'den Ø25 mm'ye kadar stoklarda
• From internal Ø8 mm to Ø25 mm ready to delivery from stock
- İç çap Ø32 mm'den Ø100 mm'ye kadar talep durumunda
• From internal Ø32 mm to Ø100 mm in case of request
- 1.4301 (AISI 304 benzeri) veya 1.4571 (AISI 316 Ti benzeri)
malzeme kalitesinde
• Material quality: 1.4301 (similar to AISI 304) or 1.4571 (similar to AISI 316 Ti)
- İç çap toleransı: H 11
• Internal diameter tolerance: H 11
- Honlanmış Ra: 0.5 mikron, çekme Ra: 1 mikron yüzey pürüzlülüğü (DIN 4762' ye göre)
• Internal surface roughness: Ra 0.5 micron (honed), Ra 1 micron (drawn) according to DIN 4762
- 1,5 - 8 mt üretim boylarında
• Commercial length: 1.5 - 8 mt

Ölçüler / Dimensions

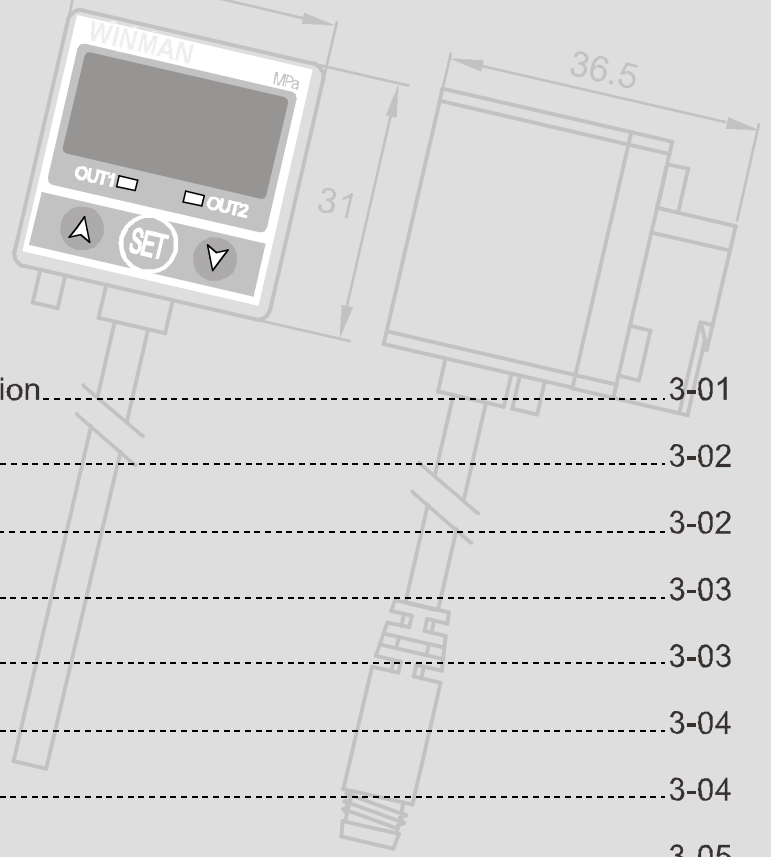
Model	İç Çap Int. Dia (mm)	Dış Çap Out. Dia (mm)	Ağırlık Weight (kg / mt)
WSS8	8	9.3	0.14
WSS10	10	11.3	0.19
WSS12	12	13.3	0.22
WSS16	16	17.3	0.28
WSS20	20	21.3	0.33
WSS25	25	26.6	0.51
WSS32	32	33.4	0.57
WSS40	40	41.6	0.80

SENSÖRLER SENSORS



SENSÖRLER

SENSORS



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Genel Bilgiler / General Information

Sipariş Kodu / Ordering Code

KT - 06 R H 2 M

Kablo Uzunluğu / Cable Length

- QD=M8 Erkek Soket
QD=M8 male connector
- EQD=M8 erkek soket
EQD=M8 male connector
- 1M=Kablo uzunluğu 1 m
1M=The length of cable is 1 m
- 2M=Kablo uzunluğu 2 m
2M=The length of cable is 2 m
- 10M=Kablo uzunluğu 10 m
10M=The length of cable is 10 m

Özel İşaretler / Special Mark

- Yok = Standart Hassasiyet / None=Standard Sensitivity
- H = Yüksek Hassasiyet / High Sensitivity
- L = Düşük Hassasiyet / Low Sensitivity
- X = Belirteçsiz / NO Indicator

Kontakt Tipi / Switch Type

- R = Devre anahtarı 2 kablolu tip / Reed switch 2 wire type
- RP = Devre anahtarı 3 kablolu, akım kaynağı / Reed Switch 3 wire current sourcing
- RN = Devre anahtarı 3 kablolu, akım düşümü / Reed Switch 3 wire current sinking
- P = Katı Konum tipi, Akım düşümü (PNP Çıkış) / Solid state type, Current sourcing (PNP Output)
- N = Katı konum tipi, Akım kaynağı (NPN Çıkış) / Solid state type, Current sinking (NPN Output)
- D = Katı konum tipi, 2 kablolu / Solid state type, 2-Wire
- T = Triyak/Çıkış / TRIAC/Output
- R/NC = Devre anahtarı / N.K. - REED/N.C
- P/NC = PNP / N.K. - PNP/N.C
- N/NC = NPN / N.K. - NPN/N.C

Sensör Modeli
Sensor Model

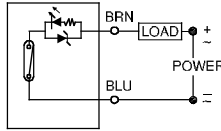
Teknik Bilgiler / Technical Specification

1. Teknik karakteristikleri aşmayın, sensörde kalıcı hasarlara sebep olabilir.

Do not exceed specification, permanent damage to the sensor may occur.

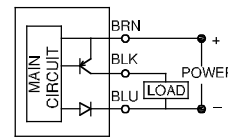
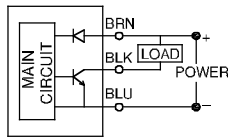
2. Devre anahtarı tipi sensörde, LED'in doğru kullanılması için kutuplamaya dikkat edilmelidir. Kahverengi kabloya pozitif (+) mavi kabloya negatif (-) olarak güç kaynağını bağlayınız. Eğer kutuplama ters olursa sensör çalışır fakat LED kapalı konumda olur.

For reed switch type sensors, polarity must also be observed for the proper functioning of LED. Connect the brown wire in series with load positive (+) and the blue wire to negative (-) of power source. If the polarity is reversed, reed switch remains functional but LED will remain in "OFF" state.



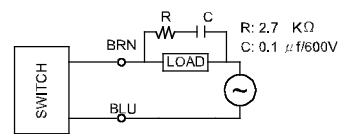
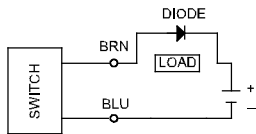
3. Katı konum tipi sensörlerde de kutuplamaya dikkat edilmelidir. DC güç kaynağının pozitif (+) kutbuna kahverengi kabloyu, negatif (-) kutbuna mavi kabloyu bağlayınız. Siyah kablo sadece yüke bağlanmalı. Siyah kablo güç kaynağına bağlanırsa sensörde kalıcı hasara neden olabilir.

For solid - state type sensors, polarity must also be observed. Connect brown wire to the positive (+) and the blue to negative (-) of DC power source. The black wire is accidentally connected to the power source, permanent damage to the sensor may occur .



4. Röle ya da bobin gibi endüktif yükler devre anahtarı ile kullanılırsa harici bir koruma devresi gerekebilir. DC Endüktif yükte, yüke paralel harici bir diyot ya da AC endüktif yükte, yüke paralel R-C devresi aşağıdaki gibi eklenmelidir.

An external protection circuit may be required if the reed switch is used with inductive load, such as relay or solenoid. For DC inductive load, attach an external diode parallel to the load and use R-C circuit parallel with AC inductive load as illustrated below.

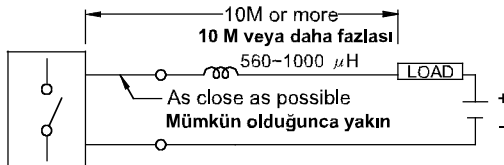


5. Sensördeki olabilecek aksaklıkları önlemek için, sensörü manyetik ortamlardan koruyunuz.

Keep sensors away from stray magnetic field to prevent malfunctions.

6. Devre anahtarı kapasitif yükte kullanırken yada kablo uzunluğu 10 mt' yi geçmesi durumunda, sensördeki aksaklıkları önlemek için yüke seri bir bobin takılmalıdır.

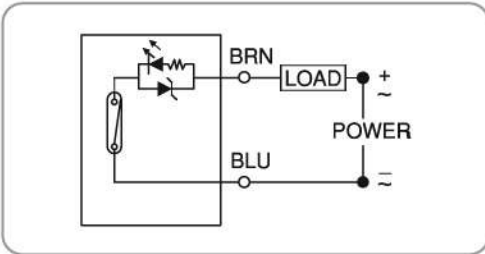
When using reed switch with capacitive load or if the lead wire length exceed 10 mt., an inductor must be installed in series with the sensor to prevent damage (sticking effect.)



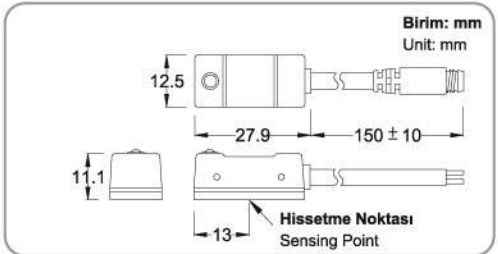
WT - 21 Serisi / Series



Bağlantı Diagramı / Connect Diagram



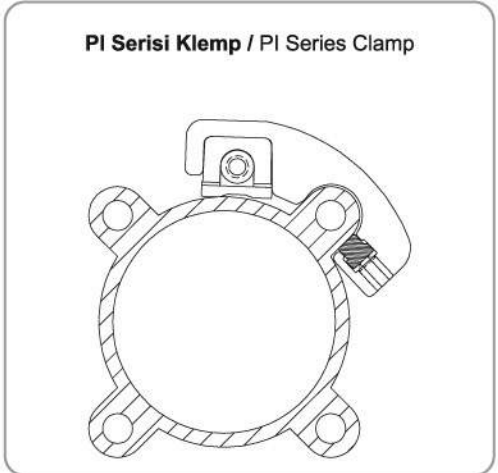
Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

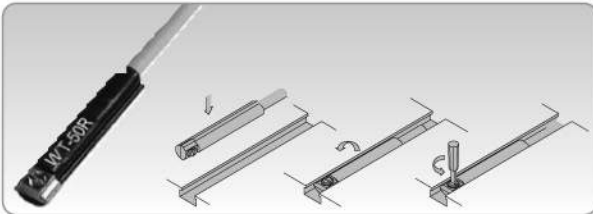
Karakteristikler / Characteristics	WT - 21 R
Kablo Tipi / Wiring Method	2 Kablolu / 2-Wire Type
Kontak Mantığı / Switching Logic	Normalde Açık / SPST, Normally Open
Sensör Tipi / Sensor Type	Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage	5~240V DC/AC
Anahtarlama Akımı / Switching Current	100 mA max.
Kontak Oranı / Contact Rating	10 W max.
Akım Tüketimi / Current Consumption	-
Gerilim Düşümü / Voltage Drop	3.5 V max.
Sızıntı Akımı / Leakage Current	-
Belirteç / Indicator	Yeşil LED / Green LED
Kablo / Cable	ø4, 2C, Gri PVC / ø4, 2C, Gray PCV
Sıcaklık Aralığı / Temperature Range	-10 ~ 70 °C
Şok / Shock	30 G
Titreşim / Vibration	9 G
Koruma Sınıfı / Enclosure Classification	IEC 529 IP 67
Koruyucu Devre / Protection Circuit	Yok / None

Bağlama Kelepçesi / Mounting Clamp

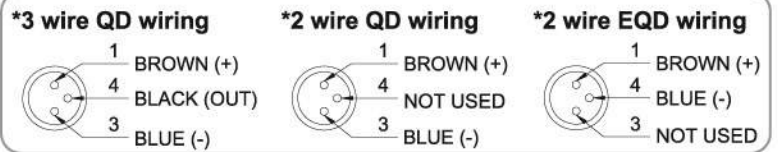


Kullanıldığı Ürün / Compatible Product WAC/WSI/WAHR/SIL

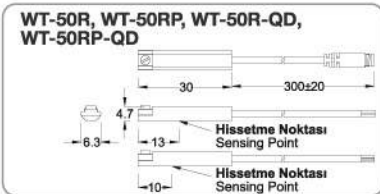
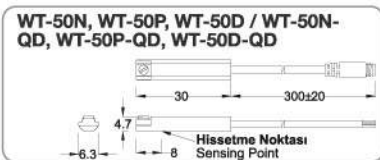
WT - 50 Serisi / Series



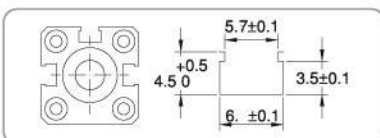
QD Bağlantı / QD Pinout



Teknik Çizim / Technical Drawings



Bağlantı Kanalı / Groove



Kullanıldığı Ürün / Compatible Product WAC / WAP / WAHR / WSSC / PB / WGC

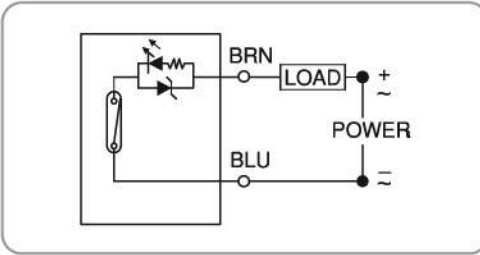
Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics	WT-50R	WT-50D	WT-50N	WT-50P	WT-50RP
Bağlantı Diagramı / Connect Diagram					
Kablo Tipi / Wiring method	2 Kablolu / 2-Wire Type	2 Kablolu / 2-Wire Type	3 Kablolu / 3 Wire Type	3 Kablolu / 3 Wire Type	3 Kablolu / 3 Wire Type
Kontak Mantığı / Switching Logic	Normalde Açık / SPST, Normally Open	Katı Konum Çıkışı, N.A. / Solid State Output, N.O.	Normalde Açık / SPST, Normally Open	Normalde Açık / SPST, Normally Open	Normalde Açık / SPST, Normally Open
Sensör Tipi / Sensor Type	Devre Anahtarı / Reed Switch	-	NPN Düşük Akım / Current Sinking	PNP Akım Kaynağı / Current Sourcing	Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage	5~240 V DC/AC	10~28V DC	10 ~ 30V DC	10 ~ 30V DC	10 ~ 30V DC/AC
Anahtarlama Akımı / Switching Current	100 mA max.	50 mA max.	200 mA max.	200 mA max.	500 mA max.
Kontak Oranı / Contact Rating	10 W max.	1.5 W max.	6W max.	6W max.	10W max.
Akım Tüketimi / Current Consumption	-	-	20 mA @ 24 VDC max.	20 mA @ 24 VDC max.	5 mA @ 24VDC max.
Gerilim Düşümü / Voltage Drop	3 V max.	3.5 mA max.	1.5 V max.	1.5 V max.	0.1 V @ 100 mA max.
Sızıntı Akımı / Leakage Current	-	0.8 mA max.	0.05 mA max.	0.05 mA max.	-
Belirteç / Indicator	Kırmızı LED / Red LED			Sarı LED / Yellow LED	
Kablo / Cable	ø3, 2C, PU	ø3, 2C, PU	ø3, 3C, PU		
Çalışma Frekansı / Operating Frequency	200 Hz	200 Hz	1000Hz	1000Hz	200 Hz
Gereken Man.lık / Magnet Requirement	65 G				
Sıcaklık Aralığı / Temperature Range	-10~70°C				
Şok / Shock	30 G	30 G	50G	50G	30G
Titreşim / Vibration	9 G				
Koruma Sınıfı / Enclosure Classification	IEC529 IP67				
Koruyucu Devre / Protection Circuit	1	2,4	2,3,4	2,3,4	1

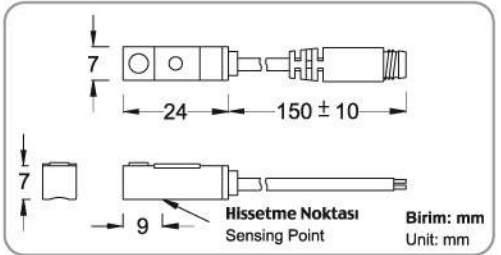
WT - 03 Serisi / Series



Bağlantı Diagramı / Connect Diagram



Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics		WT - 03 R
Kablo Tipi / Wiring Method		2 Kablolu / 2-Wire Type
Kontak Mantığı / Switching Logic		Normalde Açık / SPST, Normally Open
Sensör Tipi / Sensor Type		Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage		5~240V DC/AC
Anahtarlama Akımı / Switching Current		100 mA max.
Kontak Oranı / Contact Rating		10 W max.
Akım Tüketimi / Current Consumption		-
Gerilim Düşümü / Voltage Drop		3 V max.
Sızıntı Akımı / Leakage Current		-
Belirteç / Indicator		Kırmızı LED / Red LED
Kablo / Cable		ø2.8, 2C, Siyah PVC / ø2.8, 2C, Black PCV
Sıcaklık Aralığı / Temperature Range		-10 ~ 70 °C
Şok / Shock		30 G
Titreşim / Vibration		9 G
Koruma Sınıfı / Enclosure Classification		IEC 529 IP 67
Koruyucu Devre / Protection Circuit		Yok / None

Bağlama Kelepçesi / Mounting Clamp

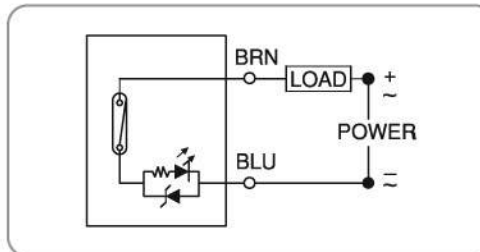


Kullanıldığı Ürün / Compatible Product WSSC / RC / HRC / AC(S)/TP / TWH

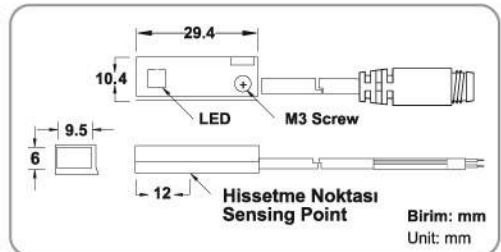
WT - 47 Serisi / Series



Bağlantı Diagramı / Connect Diagram



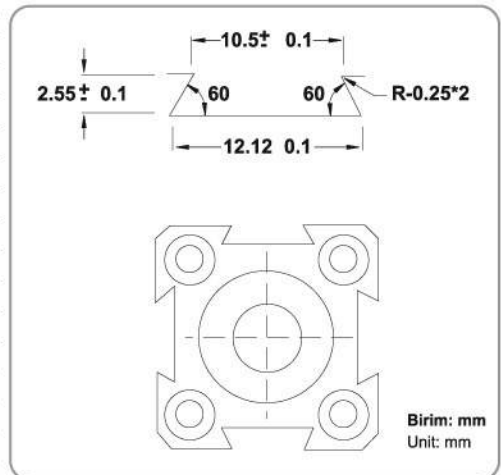
Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics		WT - 47 R
Kablo Tipi / Wiring method		2 Kablolu / 2-Wire Type
Kontak Mantığı / Switching Logic		Normalde Açık / Spst Normali Open
Sensör Tipi / Sensor Type		Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage		5~240 V DC / AC
Anahtarlama Akımı / Switching Current		500 mA max.
Kontak Oranı / Contact Rating		10 W max.
Akım Tüketimi / Current Consumption		-
Gerilim Düşümü / Voltage Drop		3.5 V max.
Sızıntı Akımı / Leakage Current		-
Belirteç / Indicator		Sarı LED / Yellow LED
Kablo / Cable		ø2.6, 2C, Siyah PVC / ø2.6, 2C, Black PCV
Sıcaklık Aralığı / Temperature Range		-10 ~ 70 °C
Şok / Shock		30 G
Titreşim / Vibration		9 G
Koruma Sınıfı / Enclosure Classification		IEC 529 IP67
Koruyucu Devre / Protection Circuit		Yok / None

Bağlatı Kanalı / Groove



Kullanıldığı Ürün / Compatible Product WSAC

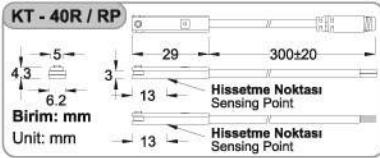
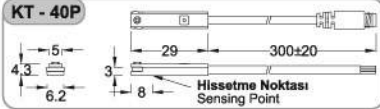
WT - 40 Serisi / Series



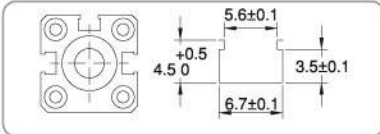
Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics	WT - 40 R	WT - 40 P	WT - 40 RP
Bağlantı Diagramı / Connect Diagram			

Teknik Çizim / Technical Drawing



Bağlantı Kanalı / Groove



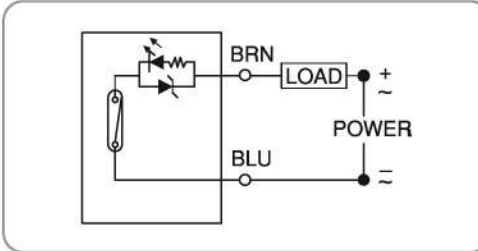
Kullanıldığı Ürün / Compatible Product **WACC / WSSC**

Kablo Tipi / Wiring method	2 Kablolu / 2-Wire Type	3 Kablolu / 3 Wire Type	
Kontakt Mantığı / Switching Logic	Normalde Açık / SPST, Normally Open	Katı Konum Çıkış, N.A. / Solid State Output, N.O.	
Sensör Tipi / Sensor Type	Devre Anahtarı / Reed Switch	PNP Akım Kaynağı / Current Sourcing - Devre Anahtarı / Reed Switch	
Çalışma Gerilimi / Operating Voltage	5-120V DC/AC	5 ~ 30 VDC	
Anahtarlama Akımı / Switching Current		100 mA Max.	
Kontakt Oranı / Contact Rating	10 W max.	3 W max.	
Akım Tüketimi / Current Consumption	-	14mA @ 24 VDC max.	25mA @ 24VDC max.
Gerilim Düşümü / Voltage Drop	2.5 V max.	15V @ 100mA max.	0.05V max.
Sızıntı Akımı / Leakage Current	-	0.01 mA max.	
Belirteç / Indicator	Kırmızı LED / Red LED	Sarı LED / Yellow LED	
Kablo / Cable	ø3, 2C, PU	ø3, 3C, PU	
Çalışma Frekansı / Operating Frequency	200 Hz	1000Hz	200 Hz
Gereken Man.lık / Magnet Requirement		40 G	
Sıcaklık Aralığı / Temperature Range		-10~70°C	
Şok / Shock	30 G	50G	30G
Titreşim / Vibration		9 G	
Koruma Sınıfı / Enclosure Classification		IEC529 1967	
Koruyucu Devre / Protection Circuit	Yok / None	Ters Polarite, Kısa Devre Reverse Polarity, Short - Circuit	Yok / None

WT - 33 Serisi / Series



Bağlantı Diagramı / Connect Diagram



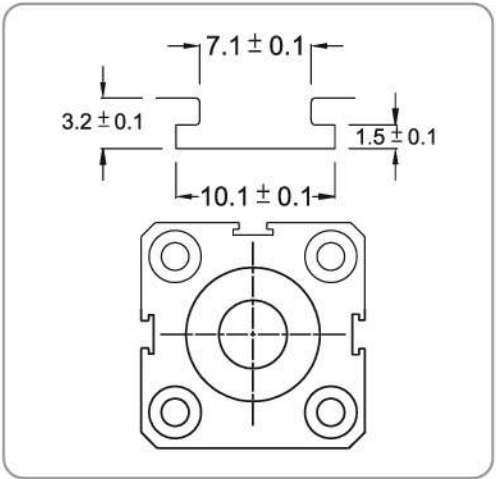
Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics	WT - 33 R
Kablo Tipi / Wiring Method	2 Kablolu / 2-Wire Type
Kontakt Mantığı / Switching Logic	Normalde Açık / SPST, Normally Open
Sensör Tipi / Sensor Type	Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage	5~240V DC/AC
Anahtarlama Akımı / Switching Current	100 mA max.
Kontakt Oranı / Contact Rating	10 W max.
Akım Tüketimi / Current Consumption	-
Gerilim Düşümü / Voltage Drop	3.5 V max.
Sızıntı Akımı / Leakage Current	-
Belirteç / Indicator	Kırmızı LED / Red LED
Kablo / Cable	ø3.3, 2C, Gri PVC / ø3.3, 2C, Gray PVC
Sıcaklık Aralığı / Temperature Range	-10 ~ 70 °C
Şok / Shock	30 G
Titreşim / Vibration	9 G
Koruma Sınıfı / Enclosure Classification	IEC 529 IP67
Koruyucu Devre / Protection Circuit	Yok / None

Bağlantı Kanalı / Groove

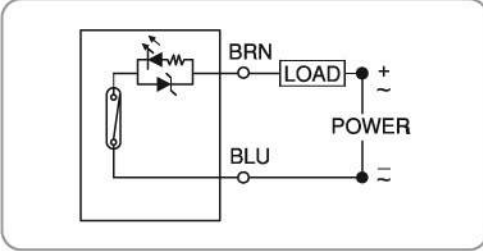


Kullanıldığı Ürün / Compatible Product **TN**

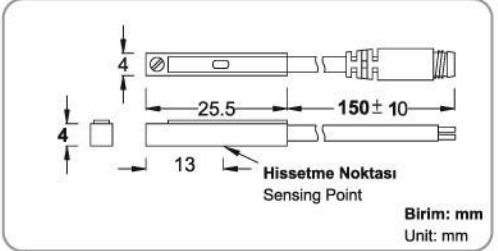
WT - 06 Serisi / Series



Bağlantı Diagramı / Connect Diagram



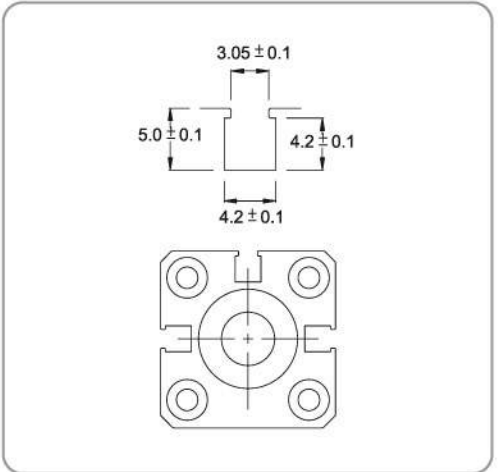
Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics	WT - 06 R
Kablo Tipi / Wiring Method	2 Kablolu / 2-Wire Type
Kontak Mantığı / Switching Logic	Normalde Açık / SPST, Normally Open
Sensör Tipi / Sensor Type	Devre Anahtarı / Reed Switch
Çalışma Gerilimi / Operating Voltage	5~240V DC/AC
Anahtarlama Akımı / Switching Current	100 mA max.
Kontak Oranı / Contact Rating	10 W max.
Akım Tüketimi / Current Consumption	-
Gerilim Düşümü / Voltage Drop	3.5 V max.
Sızıntı Akımı / Leakage Current	-
Belirteç / Indicator	Kırmızı LED / Red LED
Kablo / Cable	ø2.8, 2C, PU / ø2.8, 2C, PU
Sıcaklık Aralığı / Temperature Range	-10 ~ 70 °C
Şok / Shock	30 G
Titreşim / Vibration	9 G
Koruma Sınıfı / Enclosure Classification	IEC 529 IP 67
Koruyucu Devre / Protection Circuit	Yok / None

Bağlatı Kanalı / Groove

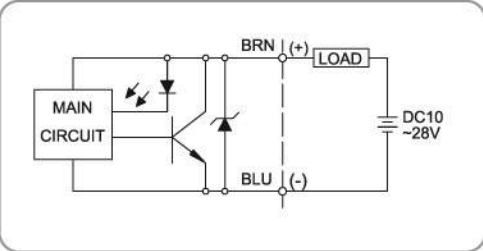


Kullanıldığı Ürün / Compatible Product **STMB**

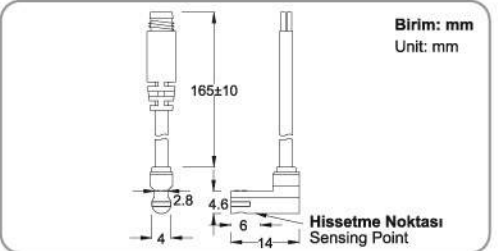
WT - 37 Serisi / Series



Bağlantı Diagramı / Connect Diagram



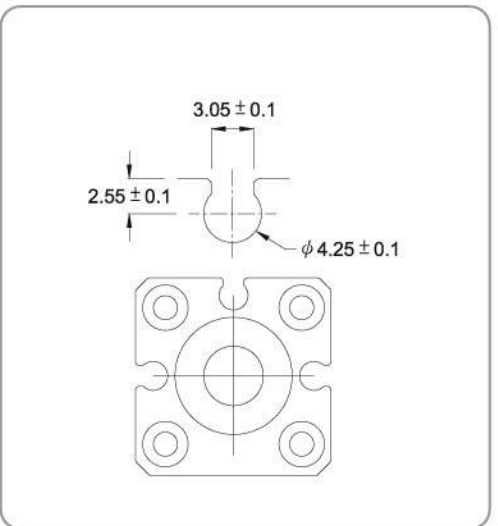
Teknik Çizim / Technical Drawing



Teknik Bilgiler / Technical Specification

Karakteristikler / Characteristics	WT - 37 R
Kablo Tipi / Wiring method	2 Kablolu / 2-Wire Type
Kontak Mantığı / Switching Logic	Katı Konum Çıkış / N.A. / Solid State Output / N.O.
Sensör Tipi / Sensor Type	-
Çalışma Gerilimi / Operating Voltage	10~28V DC
Anahtarlama Akımı / Switching Current	4~20 mA max.
Kontak Oranı / Contact Rating	0.6 W max.
Akım Tüketimi / Current Consumption	-
Gerilim Düşümü / Voltage Drop	3.5 V max.
Sızıntı Akımı / Leakage Current	0.8 mA max.
Belirteç / Indicator	Kırmızı LED / Red LED
Kablo / Cable	ø2.6, 2C, Siyah PVC / ø2.6, 2C, Black PCV
Sıcaklık Aralığı / Temperature Range	-10 ~ 70 °C
Şok / Shock	50 G
Titreşim / Vibration	9 G
Koruma Sınıfı / Enclosure Classification	IEC 529 IP67
Koruyucu Devre / Protection Circuit	Ters Polarma; Şok Emici / Reverse Polarity; Surge Suppression

Bağlantı Kanalı / Groove

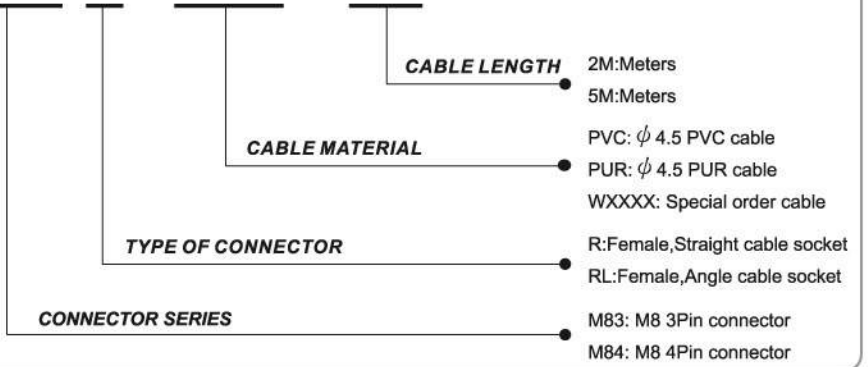


M8 R Serisi / Series




Sipariş Bilgileri / Ordering Information

M 8 3 R - P U R - 2 M

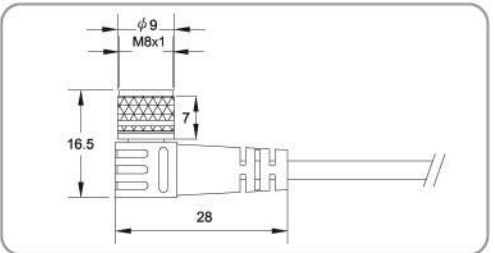
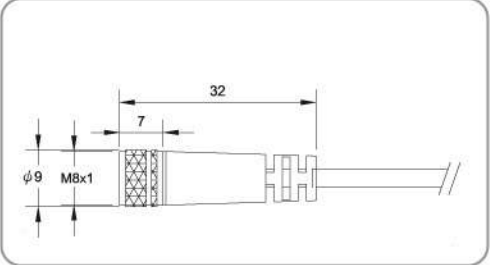


Teknik Bilgiler / Technical Specification

M83R

Karakteristikler / Characteristics	M83R - M83RL
Dişi Bağlantı / Female Pinout	
Conductor Colors	1:Brown 3:Blue 4:Black
Number Of Contacts	3
Rated Voltage	60V AC/DC
Rated Current	3A
Contac Material	Gold Plated Brass
Contac Bearer Material	PA
Housing Material	PP
Housing Color	Black
Cable Material	PVC PU
Cable Color	Grey Black
Cable Conductor	24 AWG
Circuit	-
Led Color	-
Protection Class (IEC60529)	IP 67
Temperature Range	-20 ~ 80 °C

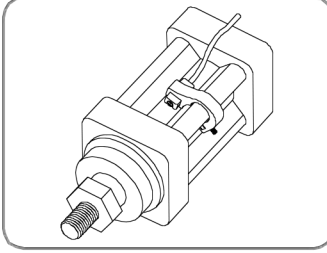
M83RL



PI Serisi Bağlantı Braketi / PI Series Mounting Bracket



Bağlantı Şekli / Connect Type

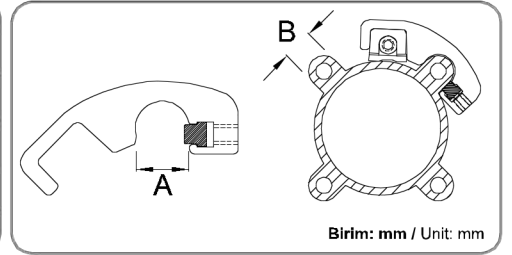


Teknik Özellikler / Technical Specification

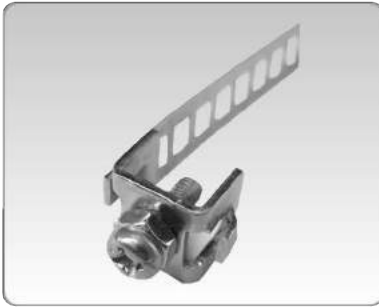
- Bu braket, ISO profil silindirlerin (WAP, WAC, WAHRC) gövdelerine KT - 21 Serisi sensörleri bağlamak için dizayn edilmiştir.
- This bracket is designed for mounting KT - 21 Series sensor on ISO profile cylinder (WAP, WAC, WAHRC).

Teknik Çizim / Technical Drawing

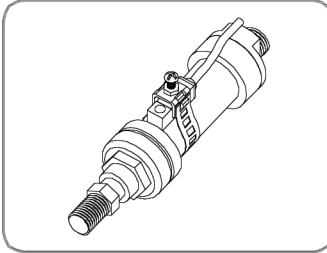
Model / Model	A	B	Ürün Tipi / Product Type
PI - 1	11.15	10.40	Ø32 - Ø40 Silindir / Cylinder
PI - 2	14.10	13.50	Ø50 - Ø63 Silindir / Cylinder
PI - 3	15.45	15.00	Ø80 Silindir / Cylinder
PI - 4	16.30	16.00	Ø100 Silindir / Cylinder
PI - 5	19.80	18.70	Ø125 Silindir / Cylinder



BK Serisi Bağlantı Braketi / BK Series Mounting Bracket



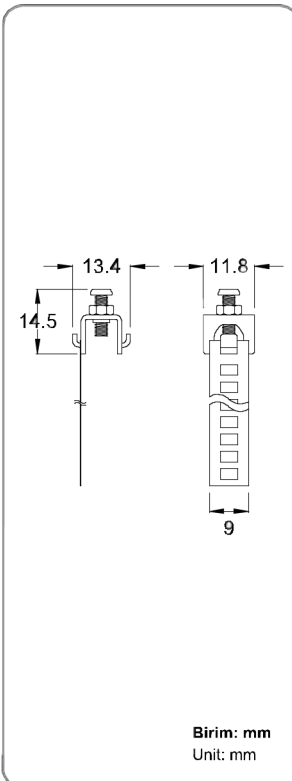
Bağlantı Şekli / Connect Type



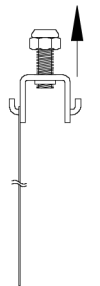
Teknik Özellikler / Technical Specification

- Bu braket, ISO mini ve yuvarlak silindirlerin (WSSC, WSSHRC, WSSRC) gövdelerine KT - 03 ve KT - 15 Serisi sensörleri bağlamak için dizayn edilmiştir.
- This bracket is designed for mounting KT - 03 and KT - 15 Series sensors on ISO mini and round cylinder (WSSC, WSSHRC, WSSRC).

Teknik Çizim ve Montaj / Technical Drawing and Assembly

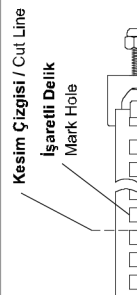


Adım 1 / Step 1



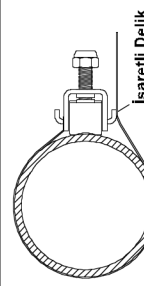
- Civata ve somunu gevşetin
- Loosen screw & nut.

Adım 3 / Step 3



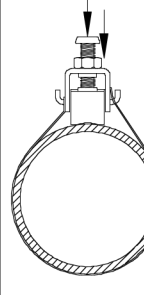
- Bandı işaretten bir sonraki deliğin en yakın kenarından kesin. (Montaj kafasından uzakta olan delik)
- Remove mounting assembly. Cut the band at the nearest edge of next hole. (the one that's further away from the mounting head).

Adım 2 / Step 2



- Sensörü yerleştirin ve şeridi sarın. Kancayı en yakın deliğe getirin ve deliği kalemle işaretleyin.
- Place sensor & wrap the band around the cylinder. Position the hook with the nearest hole on the band and mark the hole with a permanent marker.

Adım 4 / Step 4

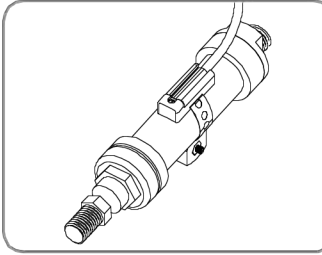


- Takımı yeniden yerine takın. İşaretlediğiniz deliği kancaya geçirin. Sensörü ayarlayıp sıkın. Sonrada somunu kontra yapın.
- R-Place the sensor & mounting assembly. Wrap the band & put chosen hole on hook. Position the switch and tighten. Finally swivel nut for steadying.

BL - 1 Serisi Bağlantı Braketi / BL - 1 Series Mounting Bracket



Bağlantı Şekli / Connect Type



Teknik Özellikler / Technical Specification

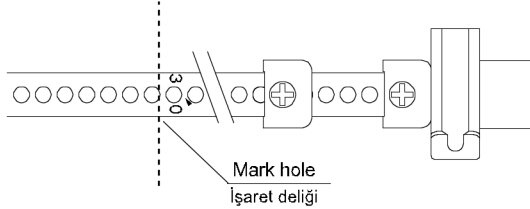
- Bu braket, ISO mini ve yuvarlak silindirlerin (WSSC, WSSHRC, WSSRC) gövdelerine KT - 40 ve KT - 50 Serisi sensörleri bağlamak için dizayn edilmiştir.
- This bracket is designed for mounting KT - 40 and KT - 50 Series sensor on ISO mini and round cylinder (WSSC, WSSHRC, WSSRC).

Teknik Çizim ve Montaj / Technical Drawing and Assembly

Adım 1 / Step 1

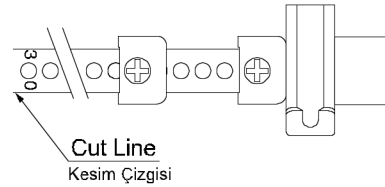
Örnek: Ø40 Yuvarlak Gövdeli Silindir.
Example: Ø40 Round Body Cylinder

- Aşağıdaki silindir tablosunu referans alarak, 30. Delikten sonrasını işaretleyin. (Aşağıdaki gibi 31. delikten).
- Refer to the cylinder chart, make marking next to the 30th hole (On the 31st hole, see below)



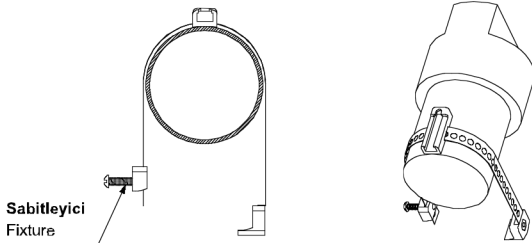
Adım 2 / Step 2

- Fazla şeridi kesin.
- Use cutter to cut off excessive mounting band.



Adım 3 / Step 3

- Civatayı sabitleyici plastikten ve belirlenen delikten geçirin.
- Insert screw trough screw fixture and the appropriate hole.



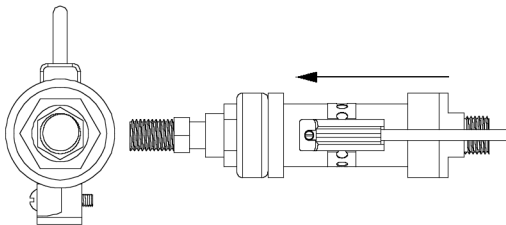
Adım 4 / Step 4

- Şeridi silindire sarın. Vidayı 3-5 tur sıkın.
- Wrap the mounting band around the cylinder barrel and tighten the screw 3-5 turns



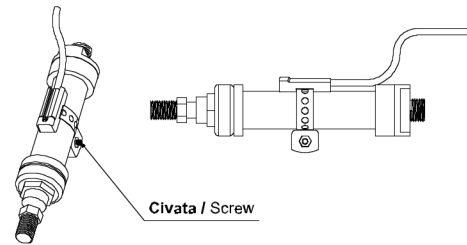
Adım 5 / Step 5

- Sensörü braketeye takın.
- Mount the sensor switch in the bracket.



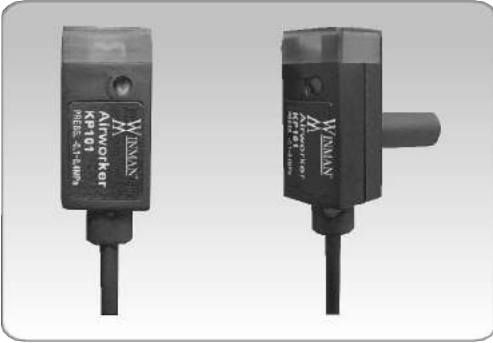
Adım 6 / Step 6

- Sensörün konumunu ayarlayıp civatayı sıkın.
- Position the sensor switch on the cylinder and tighten screw.



Silindir Tablosu / Cylinder Chart

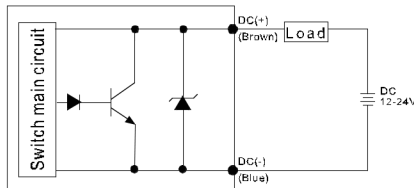
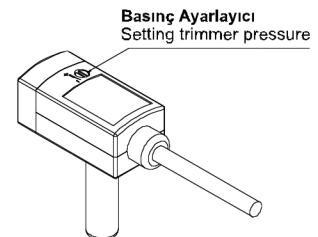
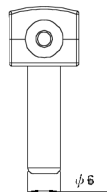
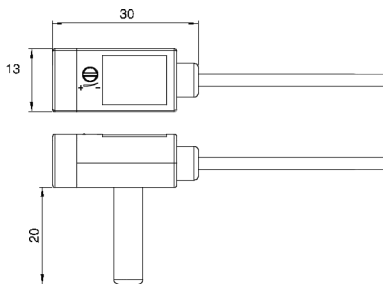
PistonØ	Gövde Malzemesi / Barrel Material	Dış Çap / O.D. (mm)	Bağlantı Deliği / Mounting Hole
10	Paslanmaz / Stainless	11.0	10
12	Paslanmaz / Stainless	13.2	11
16	Paslanmaz / Stainless	17.0	14
20	Paslanmaz / Stainless	21.6	16
25	Paslanmaz / Stainless	26.5	20
32	Paslanmaz / Stainless	33.6	24
40	Paslanmaz / Stainless	42.0	30

KP - 101 / 102 Basınç Sensörü / Pressure Sensor

Sipariş Kodu / Ordering Code
KP 101
Anahtar Özellikleri / Switch Specification

- 101: Basınç, ayar basıncından yüksek olduğunda anahtar çalışır.**
Switch turns ON when the pressure is larger than setting pressure.
- 102: Basınç, ayar basıncından düşük olduğunda anahtar çalışır.**
Switch turns ON when the pressure is smaller than setting pressure.

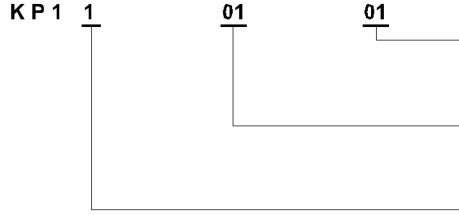
Teknik Bilgiler / Technical Specification

Karakteristik / Characteristic	KP101	KP102
Çalışma Basınç Aralığı / Operating Pressure Range	-1.0 ~ 10 bar	
Ayar Basınç Aralığı / Setting Pressure Range	-1.0 ~ 4 bar	
Akışkan / Fluid	Hava / Air	
Yükleme Voltajı / Load Voltage	12'den 24VDC'ye $\pm 10\%$, Tepeden tepeye dalgalanma %10 yada daha az 12 to 24VDC $\pm 10\%$, Ripple (P-P) 10% or less	
Yükleme Akımı / Load Current	5 ~ 40 mA	
Sızıntı Akımı / Leak Current	$\leq 1\text{mA}$	
İç Voltaj Düşümü / Inner Drop Voltage	$\leq 5\text{V}$	
Anahtar Çıkışı / Switch Output	Basınç \geq Ayar Basıncı: Açık Present Press. \geq Set Press.: ON	Basınç \geq Ayar Basıncı: Açık Present Press. \leq Set Press.: ON
Tekrarlayabilirlik / Repeatability (switch output)	$\leq \pm 1\% \text{F.S.}$	
Histerisiz / Hysteresis	$\leq 4\% \text{F.S.}$	
Belirteç / Indicator	Açık: Kırmızı LED yanar / ON : Red LED turns ON	
Sıcaklık Karakteristiği / Temperature characteristic	$\leq 3\% \text{F.S.}$ okunulan basınçtan (25°C) .0-50°C aralığında $\leq 3\% \text{F.S.}$ of detected pressure (25°C) at temp. Range of 0 ~ 50°C	
Ortam Sıcaklığı / Ambient Temp. Range	Çalışma: 0-60°C (yoğuşmasız ve donmasız) / Operation: 0 ~ 60°C (No condensation or freezing)	
Basınç Girişi / Piping Method	Ø6 Düşürücü / Ø6 Reducer	
Kablo / Lead wire	Yağ korumalı kauçuk / Grommet type oil - proof captyrecord, 2 kablo / wires $\varnothing 2.6$, 0.18² . 2M	
Ağırlık / Weight	28g(2 metre kablo ile) / 28g(with 2-meter lead wire)	

Çıkış Devre Diyagramı / Output Circuit Diagram

Teknik Resim / Technical Drawing


Birim: mm / Unit: mm

KP - 1 Serisi Basınç Sensörü / Series Pressure Sensor

Sipariş Kodu / Ordering Code


Kablo Uzunluğu / Cable Length
 01 : 1 Metre / Meters
 03 : 2 Metre / Meters
 C : M8, 4 Ayaklı Soket / M8, 4 Pin Connector

Çıkış Özelliği / Output Specification
 01: NPN Çıkış / NPN Output
 02: PNP Çıkış / PNP Output
 03: 2NPN Çıkış / 2NPN Output

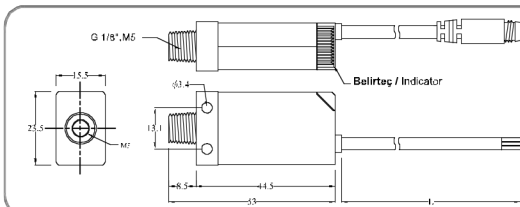
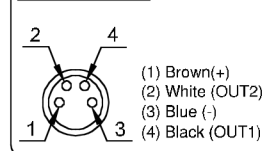
Basınç Aralığı / Pressure range
 1 : Vakum / Vacuum (-101 - 0 kPa)
 2 : Düşük Basınç / Low Pressure (0 ~ 100 kPa)
 3 : Pozitif / Positive (0 ~ 1 MPa)

Teknik Bilgiler / Technical Specification

Karakteristik / Characteristic	KP1 - 1 (Vakum) KP1 - 1 (Vacuum)	KP1 - 2 (Düşük Basınç) KP1 - 2 (Low Pressure)	KP1 - 3 Pozitif KP1 - 3 Positive
Çalışma Basınç Aralığı / Operating pressure	-101 ~ 0 kPa	0 ~ 100 kPa	0 ~ 1 Mpa
Karşıt Basınç / Withstand Pressure	500kPa		1.5MPa
Akışkan / Fluid	Hava, Korozif olmayan, yanmaz gaz / Air, Non-corrosive, Non-flammable gas		
Güç Kaynağı Gerilimi / Power Supply Voltage	12 ve 24 VDC Tepeden tepeye dalgalanma 10%yada daha az / 12 and 24 VDC ± 10%, Ripple (P-P) 10% or less		
Cevap Verme Zamanı / Response Time	5 ms yada daha az / 5 ms or less		
Tekrar Edilebilirlik / Repeatability	±1% F.S.		
Akım Tüketimi / Current Consumption	1 çıkış / output : NPN & PNP : 21mA max, 2 çıkış / output : 25mA max		
Ortam / Environment	Koruma Sınıfı / Enclosure	IP40	
	Ortam Sıcaklığı Aralığı / Ambient Temp. Range	Çalışma / Operation : 0 ~ 50°C, Saklama / Storage : -20 ~ 60°C (yoğuşmasız yada donmaz / No condensation or freezing)	
	Ortam Nem Oranı / Ambient Humidity Range	Çalışma - Saklama / Operation - Storage: 35 ~ 85% RH (yoğuşmasız / No condensation)	
	Karşıt Gerilim / Withstand Voltage	1000 VAC 1 dakikada (Gövde ve kablo arası) / 1000 VAC in 1-min (between case and lead wire)	
	Yalıtım Direnci / Insulation Resistance	50 Mohm min. (500 VDC de Gövde ve kablo arası) 50 Mohm min. (at 500VDC M, between case and lead wire)	
	Titreşim / Vibration	Toplam genişlik / Total amplitude 1.5 mm, 10Hz - 55 Hz - 10Hz tarama 1 dakika için / Scan for 1 minute, X,Y,Z'nin her yönü için 2 saat / two hours each direction of X, Y, Z	
Şok / Shock	980 m/s ² (100G), X, Y, Z yönlerinin herbirinde 3 kez / 980 m/s ² (100G), 3 times each in direction of X, Y, Z		
Sıcaklık Karakteristiği / Temperature Characteristic	± 3% F.S. (Standard: 25 °C)		
Bağlantı Ölçüsü / Port Size	G1/8" - M5		
Ağırlık / Weight	50 g (Hepsinde 1 m kablo vardır / each including 1 m lead wires)		

Çıkış Özellikleri / Output specification

Karakteristik / Characteristics	KP1 - 1	KP1 - 2	KP1 - 3
Bağlantı Diyagramı / Connect Diagram			
Çıkış / Output	NPN Açık koll. / Open coll. 30V-80 mA	PNP Açık koll. / Open coll. 80 mA	NPN Açık koll. / Open coll. 30V-80 mA
Histerisiz / Hysteresis	Ayar Basıncının 1~10% u (Ayarlanabilir) 1~10% of Setting Pressure (Adjustable)		Ayar Bas. 3% ü ya da daha azı (sabit) Setting Pressure 3% or less (fixed)
Ayar Noktası / Setting Point	1 Nokta / 1 Point		2 Nokta / 2 Point
Belirteç / Indicator	Açık : Kırmızı / On : Red		LED Açık Çıkış / Out 1: Kırmızı / Red LED On Çıkış / Out 2: Yeşil / Green

Teknik Resim / Technical Drawing

QD PINOUT


KP - 20 Serisi Basınç Sensörü / Series Pressure Sensor



Sipariş Kodu / Ordering Code

K P 20	C	01	F1	QD
Basınç Aralığı Pressure Range	C : Birleşik / Compound (-100.0~100.0kPa)	Çıkış Özellikleri Output Specification	Basınç Portu Pressure Port	Kablo Uzunluğu / Soket Cable Length / Connector
V : Vakum / Vacuum (0.0~101.3kPa)	P : Pozitif / Positive (-0.100~1.000 MPa)	01 : 2 NPN Çıkış 1 Analog Çıkış 01 : 2 NPN Output 1 Analog Output	F3: G1/8"	Boş : 2 Metre kablo ile Blank : With 2 meter cable
		02 : NPN Çıkış 02 : NPN Output		OD : M8, 4 Ayaklısoket ile QD : With M8, 4 Pin male connector
		03 : 2 PNP Çıkış & 1 Analog çıkış 03 : 2 PNP Output & 1 Analog output	Yedek Parça Opsiyonu Option Spare Part	(sadece / only type KP20 - 0 - 02 - 0, KP20 - 0 - 04 - 0)
		04 : PNP Çıkış 04 : PNP Output	KP20-A: Bağlama Braketi (BT-1+BT-2) KP20-A: Mounting Bracket (BT-1+BT-2)	
			KP20-B: Panel Adaptörü (PA-1+PA-2) KP20-B: Panel Adapter (PA-1+PA-2)	
			KP20-C: Panel Adaptörü + Ön Koruma (PA-1+PA-2 + PFC-1) KP20-C: Panel Adapter + Front Protect (PA-1+PA-2 + PFC-1)	

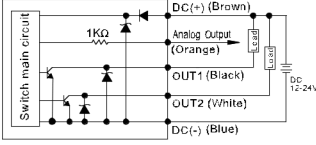
Teknik Bilgiler / Technical Specification

Karakteristik / Characteristic		KP20C - 0 - 0 KP20C (Compound)	KP20V - 0 - 0 KP20V (Vacuum)	KP20P - 0 - 0 KP20P (Vacuum)
Çalışma Basıncı / Rated Pressure Range		-100.0 ~ 100.0kPa	0.0 ~ 101.3kPa	0.000 ~ 1.000MPa
Ayar Basınç Aralığı / Setting Pressure Range		-100.0 ~ 100.0kPa	10.0 ~ 101.3kPa	-0.100 ~ 1.000MPa
Karşıt Basınç / Withstand Pressure		Basıncın 3 katı / 3 times of rated pressure range		Basıncın 1.5 katı 1.5 times of rated pressure range
Akışkan / Fluid		Hava, Korozif olmayan gazlar / Air, Non-corrosive gases, incombustible gases		
Ayar Basınç Değeri Set pressure Value	kPa	0.1		—
	MPa	—		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		—
	mmHg	1		—
	mmH ₂ O	0.1		—
Güç Kaynağı Gerilimi / Power Supply Voltage		12 ve 24 VDC' den ±10% daha az / 12 to 24VDC±10%or less		
Akım Tüketimi / Current Consumption		≤55mA		
Sıcaklık Karakteristiği / Switch Output		NPN veya PNP Açık Kollektör 2 Çıkış / NPN or PNP Open Collector 2 Outputs Maks. Yükleme Akımı / Max.Load Current: 80mA Maks. Besleme Gerilimi / Max. Supply Voltage: 30 VDC Artık Voltaj / Residual Voltage: ≤1V (Yükleme Akımı / Load Current 80mA)		
Bağlantı Ölçüsü / Repeability (Switch Output)		±0.2% F.S. ±1 digit		
Histerisiz Hysteresis	Histerisiz Modu / Hysteresis Mode	Ayarlanabilir / Adjustable		
	Karşılaştırma Modu / Comparator Mode	Sabit / Fixed (3 digits)		
Cevap Verme Zamanı / Response Time		≤2.5ms		
Çıkış Kısa Devre Koruma / Output short circuit protection		Evet / Yes		
LED Gösterge / 7 Segment LED display		3 1/2 digit LED Gösterge / Display (Örnekleme Oranı / Sampling Rate: 5 Adet / sn - times/1 sec.)		
Belirteç Doğruluğu / Indicator Accuracy		±2% F.S. ±1 digit (Ortam Sıcaklığı / Ambient Temperature: 25 ± 3°C)		
Belirteç / Indicator		Yeşil / Green LED (Çıkış 1 / Out1) - Kırmızı / Red LED (Çıkış 2 / OUT2)		
Analog Çıkış / Analog Output		Çıkış Gerilimi / Output Voltage		Çıkış Gerilimi / Output Voltage
Sadece / Only KP20 0 - 01 - 0, KP20 0 - 03 - 0)		1'den / to 5V ≤ ± 5%F.S. Doğrusallık / Linearity: ≤±1% F.S.		1'den / to 5V ≤ ± 2.5%F.S. Doğrusallık / Linearity: ≤±1% F.S.
Ortam / Environment	Koruma Sınıfı / Enclosure	IP40		
	Ortam Sıcaklığı / Ambient Temp. Range	Çalışma / Operation: 0 ~ 50°C, Saklama / Storage:-20 ~ 60°C (Yoğuşmasız / No Condensation)		
	Nem Oranı / Ambient Humidity Range	Çalışma / Operation / Saklama / Storage: 35 ~ 85% RH (Yoğuşmasız / No Condensation)		
	Karşıt Gerilim / Withstand Voltage	1000VAC 1 Saniyede / in 1 min (Gövde ve Kablo Arası / Between Case and Lead Wire)		
	Yalıtım Direnci / Insulation Resistance	50Mohm min. (500VDC M, Gövde ve Kablo Arası / Between Case and Lead Wire)		
	Titreşim / Vibration	Toplam Genişlik 1.5mm, 10Hz-55Hz-10 Hz 1 dakika tarama için, X,Y ve Z'nin her yönü için 2 saat Total amplitude 1.5mm, 10Hz-55Hz-10 Hz scan for 1 minute,two hours each in direction of X,Y and Z		
	Şok / Shock	980m/s ² (100G), X, Y ve Z yönlerinde 3 kez / 3 times each in direction of X,Y and Z		
Sıcaklık Karakteristiği / Temperature Characteristic		Okunulan Basıncın ≤ ± 2% F.S. (25°C sıcaklığında). 0 ~ 50°C arasında ≤±2% F.S. of detected pressure (25°C at temp). Range of 0 ~ 50°C		
Bağlantı Ölçüsü / Port Size		F3: G1/8"		
Kablo / Lead Wire		Yağ Dayanımlı Kablo / Oil-Resistance Cable (0.15mm ²)		
Ağırlık / Weight		105g(2Mt Kablo ile / with 2-meter lead wire),71g(Erkek Soket ile / with male connector)		

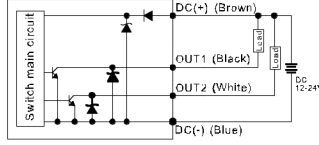
KP - 20 Serisi Basınç Sensörleri / KP - 20 Series Pressure Sensor

Çıkış devre diyagramı / Output Circuit Wiring Graph

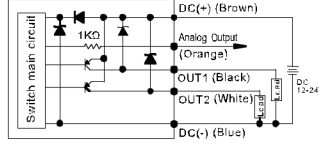
K P 20 ◇ - 01 - ◇ - ◇
NPN Çıkış / Output



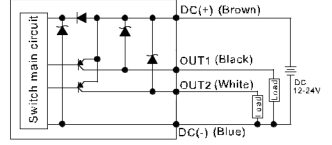
K P 20 ◇ - 02 - ◇ - ◇
NPN Çıkış / Output



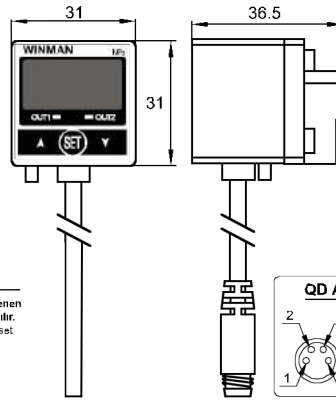
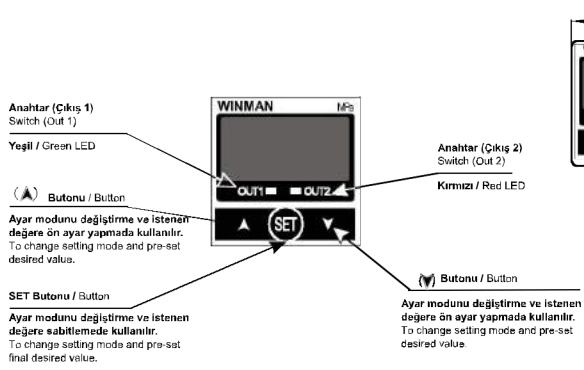
K P 20 ◇ - 03 - ◇ - ◇
PNP Çıkış / Output



K P 20 ◇ - 04 - ◇ - ◇
PNP Çıkış / Output

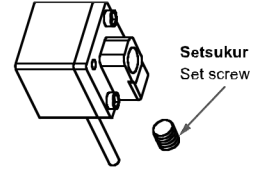


Ölçüler ve Panel Yapısı / Dimension / Panel Instructions



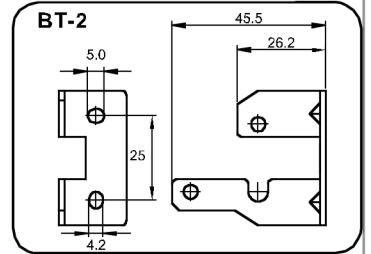
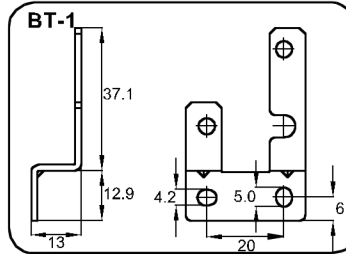
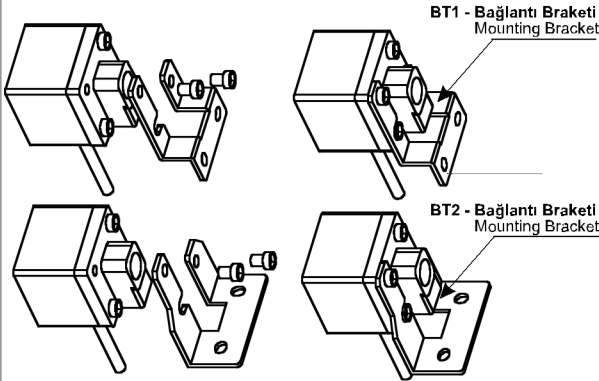
Bağlantı Installation

- Bu ürün iki giriş portuna sahiptir. Size en uygun olanı kullanınız. This product has two inlet pressure ports, select the one most convenient for installation.
- Kullanmadığınız portu setsukur ile kapayınız. Hava sızıntısını önlemek için teflon bant kullanınız. Please plug the unused inlet port with supplied port plug. Use seal tape to prevent leak.

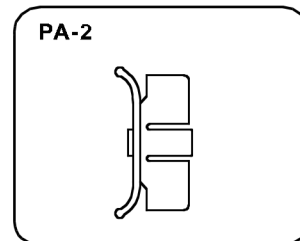
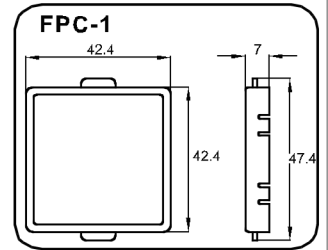
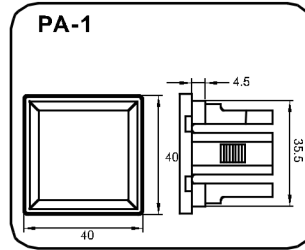
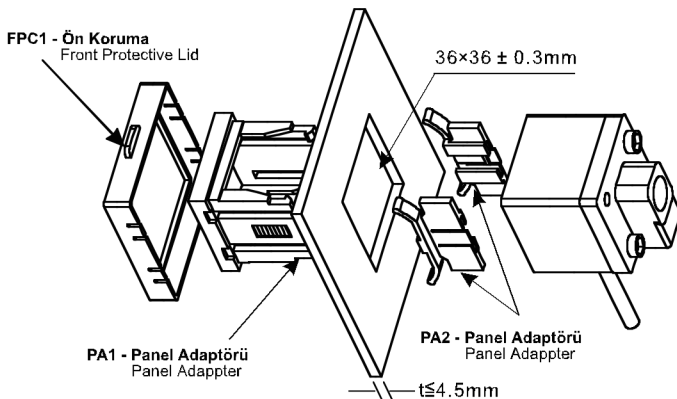


Birim: mm / Unit: mm

Bağlantı Braketi / Mounting Bracket



Panel Tipi / Panel Type



KP - 30 Serisi Basınç Sensörü / Series Pressure Sensor

Sipariş Kodu / Ordering Code

K P 30	C	01	F1	QD
Basınç Aralığı / Pressure Range	Çıkış Özellikleri / Output Specification	Basınç Portu / Pressure Port	Kablo Uzunluğu / Soket / Cable Length / Connector	
C : Birleşik / Compound (-100.0~100.0kPa)	01 : 2 NPN Çıkış 1 Analog Çıkış / 01 : 2 NPN Output 1 Analog Output	F3 : G1/8"	Boş : 2 Metre kablo ile / Blank : With 2 meter cable	
V : Vakum / Vacuum (0.0~101.3kPa)	02 : NPN Çıkış / 02 : NPN Output		OD : M8, 4 Ayaklısoket ile / OD : With M8, 4 Pin male connector	
P : Pozitif / Positive (-0.100-1.000 MPa)	03 : 2 PNP Çıkış & 1 Analog çıkış / 03 : 2 PNP Output & 1 Analog output		QD : With M8, 4 Pin male connector (sadece / only type KP30-02-0, KP30-04-0)	
	04 : PNP Çıkış / 04 : PNP Output			

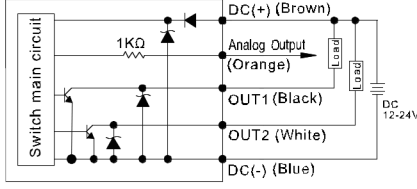
Teknik Bilgiler / Technical Specification

Karakteristik / Characteristic		KP30C - \diamond - \diamond KP30C (Compound)	KP30V - \diamond - \diamond KP30V (Vacuum)	KP30P - \diamond - \diamond KP30P (Vacuum)
Çalışma Basıncı / Rated Pressure Range		-100.0 ~ 100.0kPa	0.0 ~ 101.3kPa	0.000 ~ 1.000MPa
Ayar Basınç Aralığı / Setting Pressure Range		-100.0 ~ 100.0kPa	10.0 ~ 101.3kPa	-0.100 ~ 1.000MPa
Karşıt Basınç / Withstand Pressure		Basıncın 3 katı / 3 times of rated pressure range		Basıncın 1.5 katı / 1.5 times of rated pressure range
Akışkan / Fluid		Hava, Korozif olmayan gazlar / Air, Non-corrosive gases, incombustible gases		
Ayar Basınç Değeri / Set pressure Value	kPa		0.1	—
	MPa		—	0.001
	kgf/cm ²		0.001	0.01
	bar		0.001	0.01
	psi		0.01	0.1
	inHg		0.1	—
	mmHg		1	—
	mmH ₂ O		0.1	—
Güç Kaynağı Gerilimi / Power Supply Voltage		12 ve 24 VDC' den \pm 10% daha az / 12 to 24VDC \pm 10% or less		
Akım Tüketimi / Current Consumption		\leq 55mA		
Sıcaklık Karakteristiği / Switch Output		NPN veya PNP Açık Kollektör 2 Çıkış / NPN or PNP Open Collector 2 Outputs Maks. Yükleme Akımı / Max. Load Current: 80mA Maks. Besleme Gerilimi / Max. Supply Voltage: 30 VDC Artık Voltaj / Residual Voltage: \leq 1V (Yükleme Akımı / Load Current 80mA)		
Bağlantı Ölçüsü / Repeability (Switch Output)		\leq \pm 0.2% F.S. \pm 1 digit		
Histerisiz / Hysteresis	Histerisiz Modu / Hysteresis Mode	Ayarlanabilir / Adjustable		
	Karşılaştırma Modu / Comparator Mode	Sabit / Fixed (3 digits)		
Cevap Verme Zamanı / Response Time		\leq 2.5ms		
Çıkış Kısa Devre Koruma / Output short circuit protection		Evet / Yes		
LED Gösterge / 7 Segment LED display		3 1/2 digit LED Gösterge / Display (Örnekleme Oranı / Sampling Rate: 5 Adet / sn - times/1 sec.)		
Belirteç Doğruluğu / Indicator Accuracy		\leq 2% F.S. \pm 1 digit (Ortam Sıcaklığı / Ambient Temperature: 25 \pm 3°C)		
Belirteç / Indicator		Yeşil / Green LED (Çıkış 1 / Out1) - Kırmızı / Red LED (Çıkış 2 / OUT2)		
Analog Çıkış / Analog Output		Çıkış Gerilimi / Output Voltage		Çıkış Gerilimi / Output Voltage
Sadece / Only KP30 \diamond - 01 - \diamond , KP30 \diamond - 03 - \diamond)		1'den / to 5V \leq \pm 5% F.S. Doğrusallık / Linearity: \leq 1% F.S.		1'den / to 5V \leq \pm 2.5% F.S. Doğrusallık / Linearity: \leq 1% F.S.
Ortam / Environment	Koruma Sınıfı / Enclosure	IP40		
	Ortam Sıcaklığı / Ambient Temp. Range	Çalışma / Operation: 0 ~ 50°C, Saklama / Storage: -20 ~ 60°C (Yoğuşmasız / No Condensation)		
	Nem Oranı / Ambient Humidity Range	Çalışma / Operation / Saklama / Storage: 35 ~ 85% RH (Yoğuşmasız / No Condensation)		
	Karşıt Gerilim / Withstand Voltage	1000VAC 1 Saniyede / in 1 min (Gövde ve Kablo Arası / Between Case and Lead Wire)		
	Yalıtım Direnci / Insulation Resistance	50Mohm min. (500VDC M, Gövde ve Kablo Arası / Between Case and Lead Wire)		
	Titreşim / Vibration	Toplam Genişlik 1.5mm, 10Hz-55Hz-10 Hz 1 dakika tarama için, X,Y ve Z'nin her yönü için 2 saat Total amplitude 1.5mm, 10Hz-55Hz-10 Hz scan for 1 minute, two hours each in direction of X,Y and Z		
	Şok / Shock	980m/s ² (100G), X, Y ve Z yönlerinde 3 kez / 3 times each in direction of X,Y and Z		
Sıcaklık Karakteristiği / Temperature Characteristic		Okunulan Basıncın \leq \pm 2% F.S. (25°C sıcaklığında). 0 ~ 50°C arasında \leq 2% F.S. of detected pressure (25°C at temp). Range of 0 ~ 50°C		
Bağlantı Ölçüsü / Port Size		F3: G1/8"		
Kablo / Lead Wire		Yağ Dayanımlı Kablo / Oil-Resistance Cable (0.15mm ²)		
Ağırlık / Weight		67g(2Mt Kablo ile / with 2-meter lead wire), 35g(Erkek Soket ile / with male connector)		

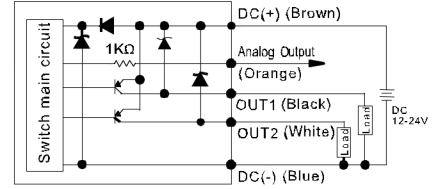
KP - 30 Serisi Basınç Sensörü / KP - 30 Series Pressure Sensor

Çıkış devre diyagramı / Output Circuit Wiring Graph

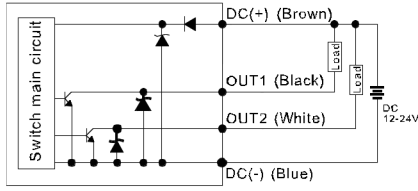
K P 30 ◊-01-◊-◊
NPN Çıkış / Output



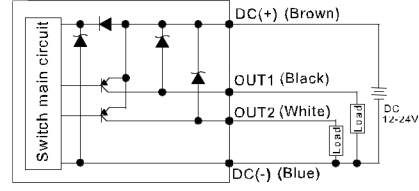
K P 30 ◊-03-◊-◊
PNP Çıkış / Output



K P 30 ◊-02-◊-◊
NPN Çıkış / Output



K P 30 ◊-04-◊-◊
PNP Çıkış / Output



Ölçüler ve Panel Yapısı / Dimension / Panel Instructions

(▲) Butonu / Button
Ayar modunu değiştirmeye ve istenen değere ayarlamak için ▲ butonunu kullanın.
Use the ▲ button to change setting mode and pre-set desired value.

(▼) Butonu / Button
Ayar modunu değiştirmeye ve istenen değere ayarlamak için ▼ butonunu kullanın.
Use the ▼ button to change setting mode and pre-set desired value.

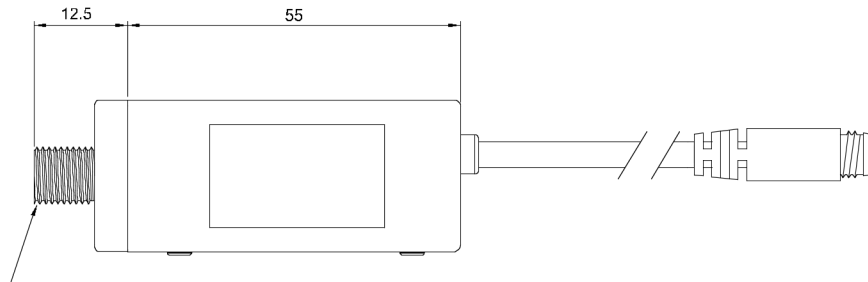
3 ½ digit LED display
Ölçülen basınç değerini gösterir. Her ayar ve hata kodunu içerir.
Display the measured pressure value. each set content and error code.

Anahtar (çıkış 1)
Switch (OUT1)
(Green LED) (Yeşil LED)

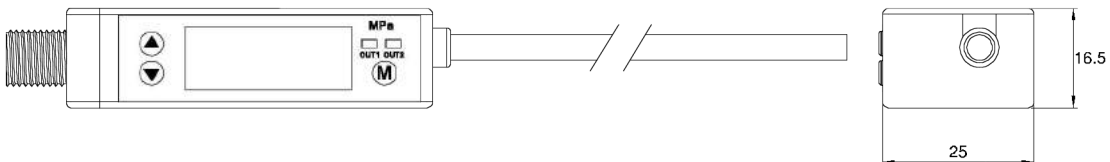
Anahtar (çıkış 2)
Switch (OUT 2)
(Red LED) (Kırmızı LED)

Ayar Butonu
Setting Button
Ayar Modunu değiştir ve istenen değeri son kez seçer.
Change setting mode and pre-set final desired value.

QD Ayakları / QD PINOUT



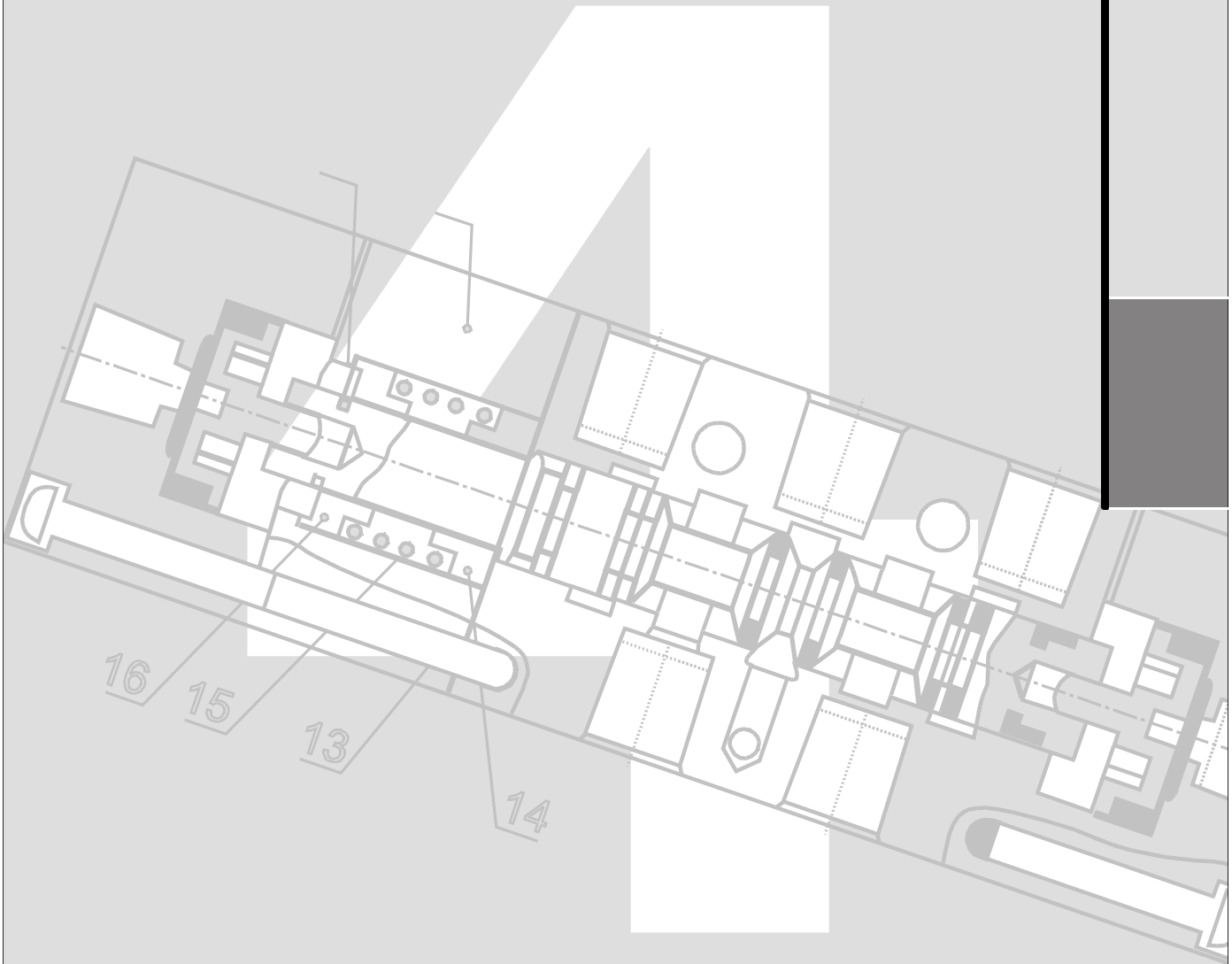
F3: G1/8", M5



Birim: mm / Unit: mm

SELENOİD & HAVA KUMANDALI VALFLER

SOLENOID & PNEUMATIC ACTUATED VALVES



SELENOİD & HAVA KUMANDALI VALFLER

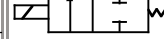
SOLENOID & PNEUMATIC ACTUATED VALVES

• 2V Serisi Selenoid Valfler / 2V Series Solenoid Valves	4-01
• 2W Serisi Selenoid Valfler / 2W Series Solenoid Valves	4-02
• 3V1 Serisi Selenoid Valfler / 3V1 Series Solenoid Valves	4-03
• 100 Serisi Selenoid & Hava Kum. Valfler	
100 Series Solenoid & Pneu. Act. Valves.....	4-04 / 4-05 / 4-06 / 4-07 / 4-08 / 4-09
• 200 Serisi Selenoid & Hava Kum. Valfler	
200 Series Solenoid & Pneu. Act. Valves.....	4-10 / 4-11 / 4-12 / 4-13 / 4-14
• 300 Serisi Selenoid & Hava Kum. Valfler	
300 Series Solenoid & Pneu. Act. Valves.....	4-15 / 4-16 / 4-17 / 4-18
• 400 Serisi Selenoid & Hava Kum. Valfler	
400 Series Solenoid & Pneu. Act. Valves.....	4-19 / 4-20 / 4-21
• 4M Serisi Namur Valfler / 4M Series Namur Valves	4-22
• Namur Serisi / Namur Series	4-23
• Manifold / Manifold	4-24
• YSV 10 Serisi / YSV 10 Series	4-25
• YSV 20 Serisi / YSV 20 Series	4-26
• YSV 200 Serisi / YSV 200 Series	4-27
• YSV 300 Serisi / YSV 300 Series	4-28
• SF1000 Serisi Selenoid & Hava Kum. Valfler	
SF1000 Series Solenoid & Pneu. Actuated Valves.....	4-29 / 4-30
• SF2000 Serisi Selenoid & Hava Kum. Valfler	
SF2000 Series Solenoid & Pneu. Actuated Valves.....	4-31 / 4-32
• SF3000 Serisi Selenoid & Hava Kum. Valfler	
SF3000 Series Solenoid & Pneu. Actuated Valves.....	4-33 / 4-34
• SF4000 Serisi Selenoid & Hava Kum. Valfler	
SF4000 Series Solenoid & Pneu. Actuated Valves.....	4-35 / 4-36
• SF5000 Serisi Selenoid & Hava Kum. Valfler	
SF5000 Series Solenoid & Pneu. Actuated Valves.....	4-37 / 4-38
• SF6000 Serisi Selenoid & Hava Kum. Valfler	
SF6000 Series Solenoid & Pneu. Actuated Valves.....	4-39 / 4-40
• MCS200 Serisi / MCS200 Series	4-41
• MCS400 Serisi / MCS400 Series	4-42
• SIV200 Serisi ISO - 0 Valfleri / SIV200 Series ISO - 0 Valves	4-43 / 4-44
• SIV300 Serisi ISO - 0 Valfleri / SIV300 Series ISO - 0 Valves	4-45 / 4-46
• SIV400 Serisi ISO - 1 Valfleri / SIV400 Series ISO - 1 Valves	4-47 / 4-48
• SIV500 Serisi ISO - 2 Valfleri / SIV500 Series ISO - 2 Valves	4-49 / 4-50
• SIE200 Ekonomi Serisi Valfleri / SIE200 Economy Series Valves	4-51 / 4-52
• SIE300 Ekonomi Serisi Valfleri / SIE300 Economy Series Valves	4-53 / 4-54
• SC200 Kompakt Seri Valfler / SC200 Compact Serie Valves	4-55 / 4-56
• SC300 Kompakt Seri Valfler / SC300 Compact Serie Valves	4-57 / 4-58
• SC400 Kompakt Seri Valfler / SC400 Compact Serie Valves	4-59 / 4-60
• SCE300 Ekonomi Serisi Valfleri / SCE300 Economy Serie Valves	4-61/ 4-62
• SCE400 Ekonomi Serisi Valfleri / SCE400 Economy Serie Valves	4-63 / 4-64
• SCE500 Ekonomi Serisi Valfleri / SCE500 Economy Serie Valves	4-65 / 4-66
• SN3000 Namur Serisi Valfler / SN3000 Namur Series Valfler	4-67 / 4-68
• SN4000 Namur Serisi Valfler / SN4000 Namur Series Valfler	4-69 / 4-70
• Selenoid Bobin Serisi / Solenoid Coil Series	4-71

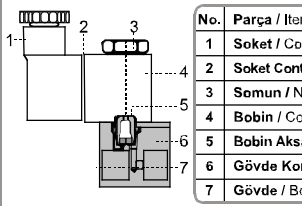
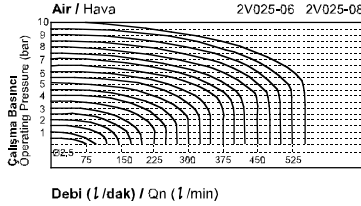
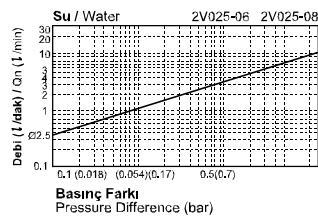
2V Serisi Solenoid Valfler / 2V Series Solenoid Valves

Sipariş Kodu / Ordering Code
Sembol / Symbol

2V	025	06	AC110V
Model Model	Orifis Çapı Orifis Size	Bağlantı Ölçüsü Port Size	Voltaj Voltage
2V: 2 Yol 2 Konumlu Solenoid Valf 2 Port 2 Position Solenoid Valve	025: 2.5 mm	06: 1/8"	DC12V
			DC24V
		08: 1/4"	AC110V 50 Hz
			AC220V 50 Hz

2V025 - 06/08

Özellikler / Specification

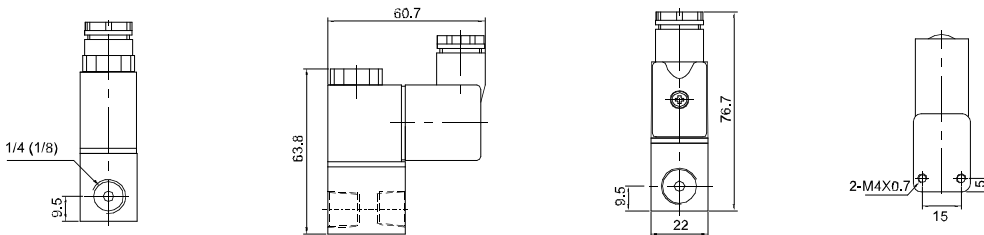
Model / Model	2V025-06	2V025-08
Akışkan / Fluid	Hava, Su, Yağ / Air, Water, Oil	
Kumanda / Acting	Direkt Kumanda / Direct Acting	
Tip / Type	Normalde Kapalı / Normally Closed	
Orifis Çapı / Orifice Size (mm)	2.5	
Cv Değeri / Cv Value	0.23	
Bağlantı Ölçüsü / Port Size	1/8"	1/4"
Viskoz Sınırı / Viscosity Limit	20 cSt Altında / Under 20 cSt	
Çalışma Basıncı / Operating Pressure	0 ~ 10 bar / 0 ~ 1.0 MPa / 0 ~ 142 Psi	
Test Basıncı / Proof Pressure	15.0 bar / 1.5 MPa / 213 Psi	
Sıcaklık / Temperature (C°)	- 10 ~ 80	
Voltaj Aralığı / Voltage Range	AC: -20% ~ +10% DC: -15% ~ +10%	
Koruma / Protect	IP65	
Güç Tüketimi / Power Consumption	AC220V: 4.5VA DC24V: 5.0W	
Yalıtım / Insulation	F Sınıfı / F Class	
Gövde Malzemesi / Material of Body	Çinko Kaplı Pirinç / Brass with Zinc Plated	
Conta Malzemeleri / Seal Material	Viton	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05	

Akış Diyagramları / Flow Charts
İç Yapı / Inner Structure


No.	Parça / Item
1	Soket / Connector
2	Soket Contası / Connector Gasket
3	Somun / Nut
4	Bobin / Coil
5	Bobin Aksamı / Armature Assembly
6	Gövde Koruma / Body Cover
7	Gövde / Body

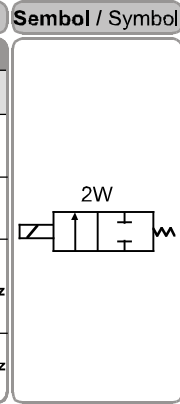
Önemli Parçaların Malzemeleri / Material of Major Parts

Parça / Item	2V025	2V130	2V250	Parça / Item	2V025	2V130	2V250
Gövde / Body		Pirinç / Brass		Bobin Aksamı / Armature Assembly	Saf Bakır Boru / Pure Iron with Copper Tube		
Gövde Koruması / Body Cover		Pirinç / Brass		Diyafram / Diaphragm	NBR		
Soket / Connector		PM		Somun / Nut	Nikel Kaplı Bakır / Copper with Nickel Plated		
Soket Contası / Connector Gasket		NBR		Bobin / Coil	Plastik Kaplanmış Bakır Tel / Copper with Resin Covered		

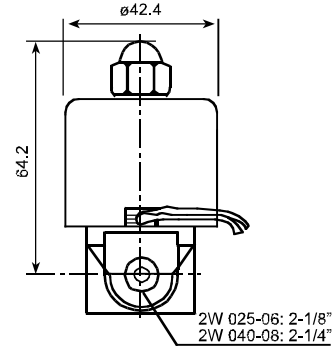
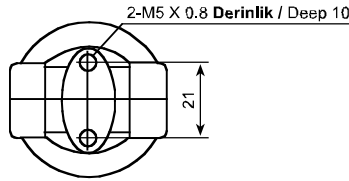
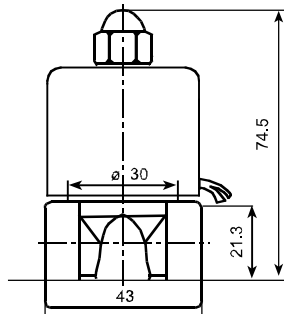
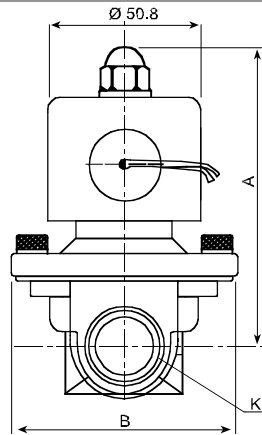
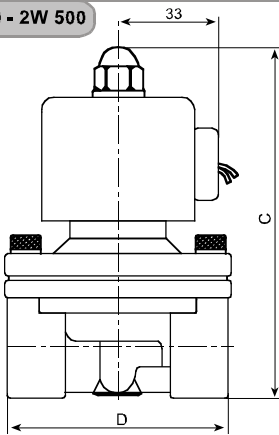
Teknik Çizimler / Technical Drawings


2W Serisi Solenoid Valfler / 2W Series Solenoid Valves


Sipariş Kodu / Ordering Code				
2W	025	06	AC110V	
Model / Model	Orifis Çapı / Orifis Size	Bağlantı Ölçüsü / Port Size	Voltaj / Voltage	
2V: 2 Yol 2 Konumlu Solenoid Valf 2 Port 2 Position Solenoid Valve	025: 2.5 mm	06: 1/8"	DC12V	
	040: 4.0 mm	08: 1/4"		
	160: 16 mm	10: 3/8"		
	200: 20 mm	15: 1/2"	DC24V	
	250: 25 mm	20: 3/4"		
	350: 35 mm	25: 1"	AC110V 50Hz	
	400: 40 mm	35: 1 1/4"		
	500: 50 mm	40: 1 1/2"		
			50: 2"	AC220V 50Hz


Özellikler / Specification

Model / Model	2W
Akışkan / Fluid	Hava, Su, Yağ / Air, Water, Oil
Kumanda / Acting	Direkt Kumanda / Direct Acting
Tip / Type	Normalde Kapalı / Normally Closed
Çalışma Basıncı / Operating Pressure	0 ~ 10 bar (0 ~ 1.0 MPa) (0 ~ 142 Psi)
Test Basıncı / Proof Pressure	15.0 bar (1.5 MPa) (213 Psi)
Sıcaklık / Temperature (C°)	- 10 ~ 80
Voltaj Aralığı / Voltage Range	AC: -20% ~ +10% DC: -15% ~ +10%
Gövde Malzemesi / Material of Body	Pirinç / Brass

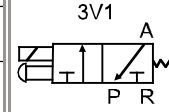
Teknik Çizimler / Technical Drawings
2W 025 - 2W 040

2W 160 - 2W 500


Tip / Type	A	B	C	D	K
2W160-15	93	57	106.5	69	G 1/2
2W200-20	100	57	116.4	73	G 3/4
2W250-25	105	73.4	126	99	G 1
2W350-35	142	95	172	123	G 1 1/4
2W400-40	142	95	172	123	G 1 1/2
2W500-50	172	123	209	168	G 2

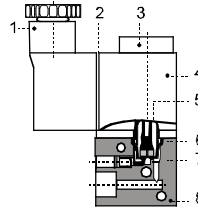
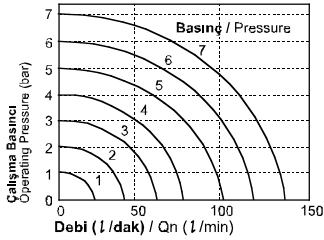
3V1 Serisi Solenoid Valfler / 3V1 Series Solenoid Valves

Sipariş Kodu / Ordering Code
Sembol / Symbol

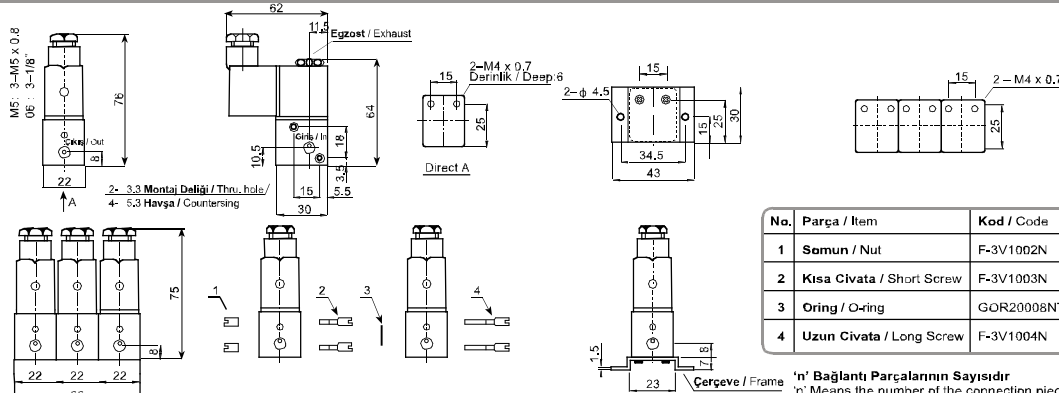
3V	1	06	AC110V
Model / Model	Kod / Code	Bağlantı Ölçüsü / Port Size	Voltaj / Voltage
3V: 3 Yol 2 Konumlu Solenoid Valf 3 Port 2 Position Solenoid Valve	1: 1 Serisi 1: 1 Series	M5: M5	DC12V
			DC24V
			AC24V 50Hz
		06: 1/8"	AC110V 50Hz
			AC220V 50Hz


Özellikler / Specification

Model / Model	3V1-M5	3V1-06
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Tipi / Acting Type	Direkt Etki, Normalde Kapalı / Direct Acting, Normally Closed	
Bağlantı Ölçüsü / Port Size	M5	1/8"
Valf Tipi / Valve Type	3 Yol 2 Konum / 3 Port 2 Position	
Sıcaklık / Temperature	- 5 ~ 60 °C / 23 ~ 40 °F	
Orfis Çapı / Orifice Size	1.2 mm	
Yağlama / Lubrication	Gerek Yok / Not Required	
Çalışma Basıncı / Operating Pressure	0 ~ 8.0 bar / 0 ~ 0.8 MPa / 0 ~ 114 Psi	
Güç Tüketimi / Power Consumption	AC220V: 2.0VA, AC110V: 2.5VA AC24V: 3.5VA, DC24V: 3.0W, DC12V: 2.5W	
Koruma / Protect	IP65 (DIN40050)	
Soket / Connection	DIN Terminal	
Gövde Malzemesi / Material Of Body	Alüminyum Alaşım / Aluminum Alloy	
Max. Çalışma Frekansı / Max. Frequency	10 Çevrim/sn / 10 Cycle/sn	
Yalıtım / Insulation	B Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	-15% ~ +10%z	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05 sn / 0.05 sec	

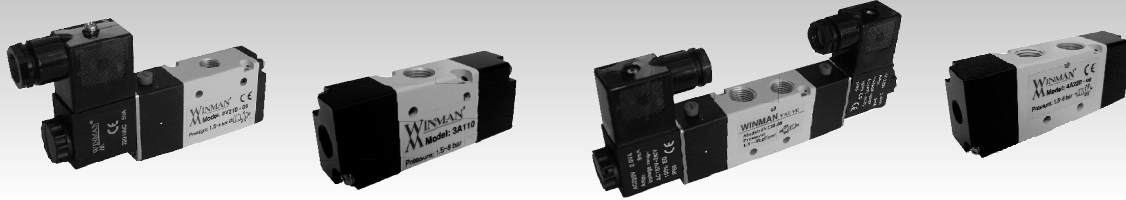
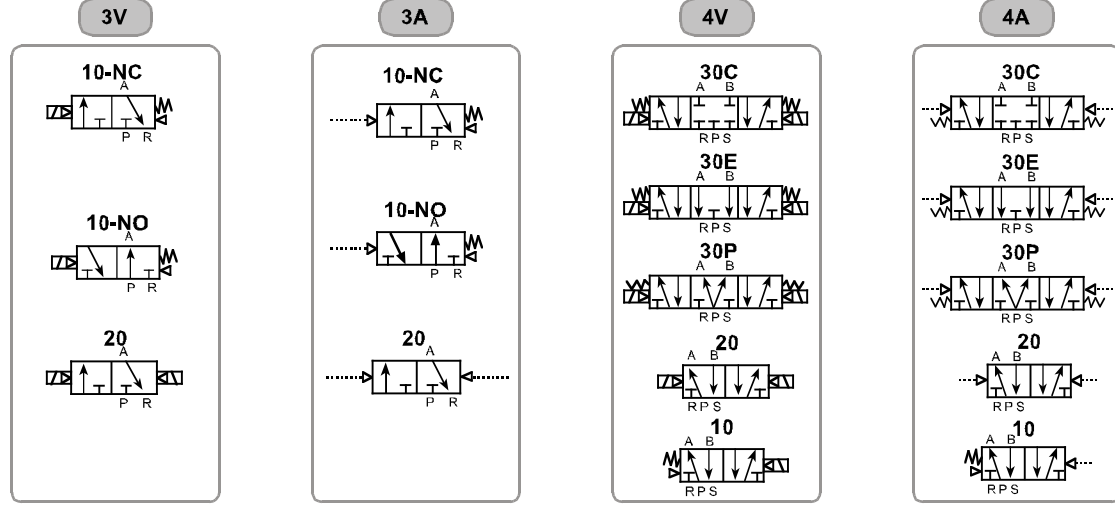
Akış Diyagramı / Flow Chart
İç Yapı / Inner Structure


No.	Parça / Item
1	Soket / Connector
2	Conta / Gasket
3	Bobin Somunu / Coil Nut
4	Bobin / Coil
5	Bobin Aksamı / Armature Assembly
6	Oring / O-ring
7	Geridönüş Yayı / Return Spring
8	Gövde / Body

Teknik Çizimler / Technical Drawings


No.	Parça / Item	Kod / Code	Adet / Q'ty
1	Somun / Nut	F-3V1002N	2
2	Kısa Civata / Short Screw	F-3V1003N	2
3	Oring / O-ring	GOR20005N75	n-1
4	Uzun Civata / Long Screw	F-3V1004N	2n-2

* Egzost deliğinden basınç (P) hattı verildiğinde; N.A. (Normalde Açık) olarak çalışabilir.
* When connecting pressure (P) line at the exhaust port; the valve could used as N.O. (Normally Open)

100 Serisi Solenoid & Hava Kum. Valfler / 100 Series Solenoid & Pneu. Act. Valves

Semboller / Symbols

Özellikler / Specification

Özellik / Item	Solenoid Pnömatik / Solenoid Pneumatic			
	Giriş = Çıkış = Egzost = M5 / In = Out = Exhaust = M5		Giriş = Çıkış = Egzost = 1/8" / In = Out = Exhaust = 1/8"	
Bağlantı Ölçüsü / Port Size	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)			
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)			
Valf Tipi / Valve Type	3/2	5/2	5/3	3/2, 5/2, 5/3
Orifis Çapı / Orifice Size	5.5 mm ² Cv= 0.31		5.5 mm ² Cv= 0.28	12 mm ² Cv= 0.67, 9 mm ² Cv= 0.50
Yağlama / Lubrication	Gerektirmez / Not Required			
Basınç Aralığı / Pressure Range	1.5 ~ 8.0 bar / 0.15 ~ 0.8 MPa / 21 ~ 114 Psi			
Test Basıncı / Proof Pressure	12 bar / 1.2 MPa / 171 Psi			
Sıcaklık / Temperature	- 5 ~ 60 °C / 23 ~ 140 °F			
Voltaj Aralığı / Voltage Range	± 10%			
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / cycle/s		3 çevrim/sn / cycle/s	5 çevrim/sn / cycle/s, 3 çevrim/sn / cycle/s
Güç Tüketimi / Power Consumption	AC: 2~3.5VA DC: 2.5~3.0W	AC: 3.0VA DC: 2.5W	AC: 2~3.5VA DC: 2.5~3.0W	AC: 3.0VA DC: 2.5W
Yalıtım / Insulation	F Sınıfı / F Class			
Koruma / Protect	IP65 (DIN40050)			
Soket / Connection	DIN Terminal			
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05 sn / 0,05 sec			

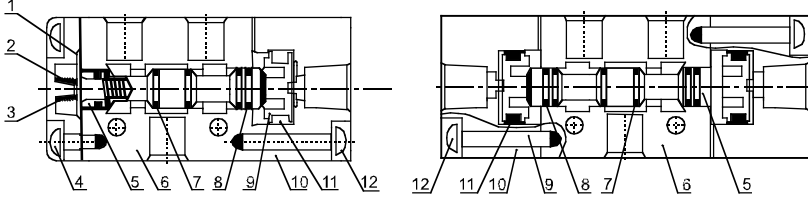
Sipariş Kodu / Ordering Code

3	V	1	20	06	NO	AC24V
Fonksiyon Function	Pilot Tipi Pilot Type	Seri Serie	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Çalışma Tipi Acting Type	Voltaj Voltage
3: 3 Yol 2 Konum 3: 3 Port 2 Position	V: Solenoid Valf V: Solenoid Valve	1: 100 Serisi 1: 100 Series	10: Tek Etkili 10: Single Acting	M5: M5	Boş: Yok Empty: None	Boş: Yok Empty: None
			20: Çift Etkili 20: Double Acting			DC12V
4: 5 Yol 2 (3)Konum 4: 5 Port 2 (3) Position	A: Hava Kumandalı A: Pneumatic Valve	1: 100 Serisi 1: 100 Series	30C: 5/3 Kapalı Merkez 30C: 5/3 Closed Center	06: 1/8"	N.A.: Normalde Açık N.O.: Normally Open	DC24V
			30E: 5/3 Egzost Merkez 30E: 5/3 Exhaust Center			AC24V 50 Hz
			30P: 5/3 Basınç Merkez 30P: 5/3 Pressure Center			AC110V 50 Hz AC220V 50 Hz

Solenoid & Hava Kum. Valfler / Solenoid & Pneu. Act. Valves

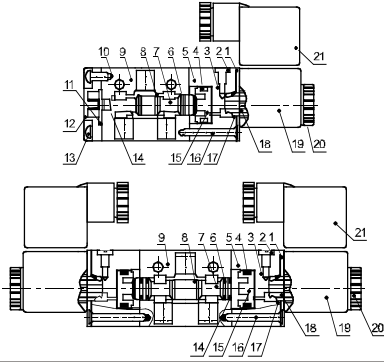
İç Yapılar / Inner Structures

3A



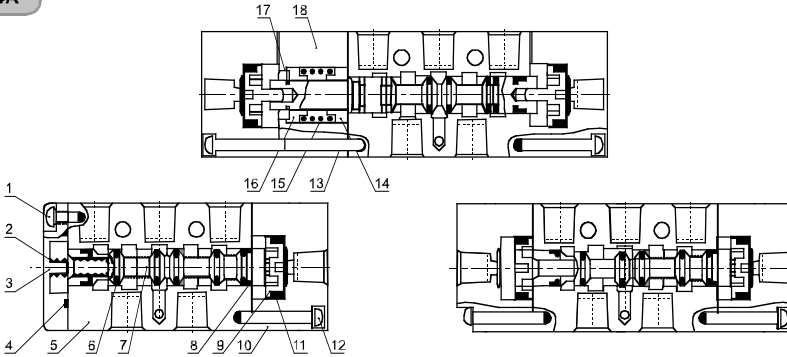
No.	Parça / İtem
1	Arka Kapak Contası / Bottom Cover Gasket
2	Yay / Spring
3	Arka Kapak / Bottom Cover
4	Arka Kapak Cıvatası / Bottom Cover Spring
5	Spul / Spool
6	Gövde / Body
7	Spul Oringi / Spool O-ring
8	Spul Keçesi / Spool Packing
9	Piston / Piston
10	Pilot Gövdesi / Pilot Body
11	Piston Oringi / Piston O-ring
12	Pilot Cıvatası / Pilot Screw

3V



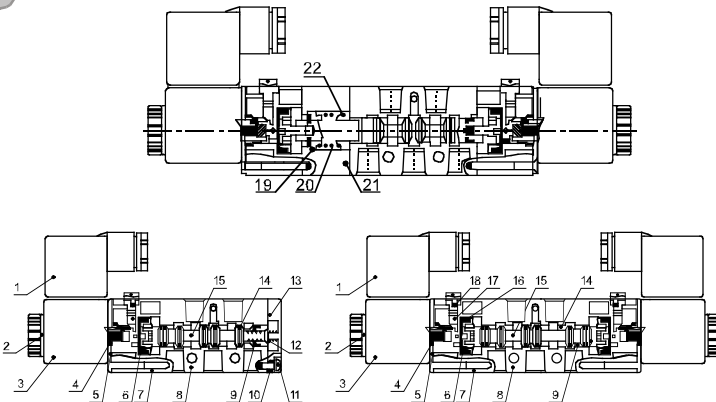
No.	Parça / İtem	No.	Parça / İtem
1	Sabitleme Plakası / Fixed Plate	12	Arka Kapak Contası / Bottom Cover Gasket
2	Manuel Çalıştırıcı / Manual Override	13	Vida / Screw
3	Çalıştırma Yayısı / Override Spring	14	Aşınma Halkası / Wearing Ring
4	Piston Oringi / Piston O-ring	15	Piston / Piston
5	Pilot Gövdesi / Pilot Body	16	Pilot Vidası / Pilot Screw
6	Spul Keçesi / Spool Packing	17	Armatür Oringi / Armature O-ring
7	Spul / Spool	18	Armatür / Armature
8	Spul Oringi / Spool O-ring	19	Bobin / Bobin
9	Gövde / Body	20	Bobin Somunu / Coil Nut
10	Spul Yayısı / Spool Spring	21	Socket / Connector
11	Arka Kapak / Bottom Cover Gasket		

4A



No.	Parça / İtem
1	Arka Kapak Cıvatası / Bottom Cover Spring
2	Spul Yayısı / Spool Spring
3	Arka Kapak / Bottom Cover
4	Arka Kapak Contası / Bottom Cover Gasket
5	Gövde / Body
6	Spul Oringi / Spool O-ring
7	Spul / Spool
8	Piston / Piston
9	Aşınma Halkası / Wearing Ring
10	Pilot Gövdesi / Pilot Body
11	Piston Oringi / Piston O-ring
12	Pilot Cıvatası / Pilot Screw
13	Pilot Cıvatası / Pilot Screw
14	Dönüş Yatağı / Return Seal
15	Dönüş Yayısı / Return Spring
16	Dönüş Yatağı / Return Seal
17	Segman / E clip
18	Ön Kapak / Side Cover

4V



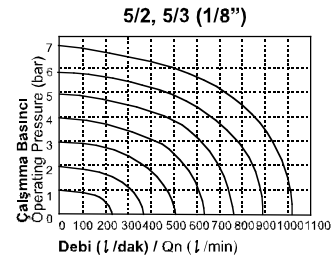
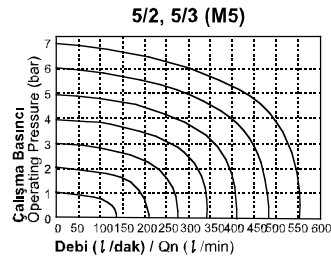
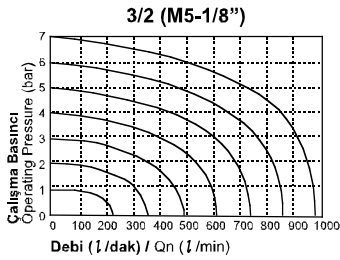
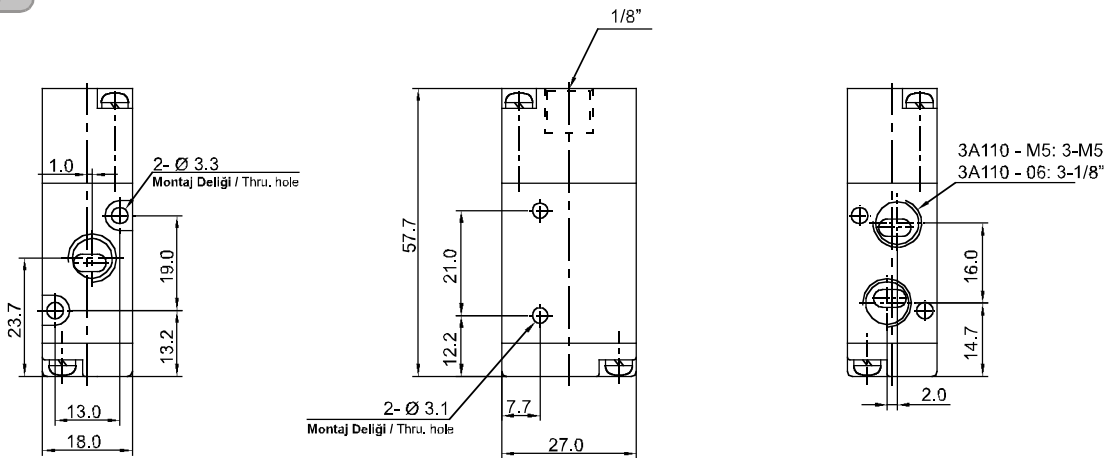
No.	Parça / İtem
1	Soket / Connector
2	Bobin / Coil
3	Sabitleme Plakası / Fixed Plate
4	Pilot Kiti / Pilot Kit
5	Aşınma Halkası / Wearing Ring
6	Sabitleme Plakası / Fixed Screw
7	Arka Kapak Contası / Bottom Cover Gasket
8	Spul / Spool
9	Çalıştırma Yayısı / Override Spring
10	Yay Kovanı / Spring Holder
11	Ön Kapak / Side Cover
12	Somun / Nut
13	Armatür Contası / Armature Assembly
14	Piston / Piston
15	Gövde / Body
16	Arka Kapak / Bottom Cover
17	Spul Yayısı / Spool Spring
18	Spul Oringi / Spool O-ring
19	Piston Oringi / Piston O-ring
20	Manuel Çalıştırıcı / Manual Override
21	Dönüş Yayısı / Return Spring
22	Yay Kovanı / Spring Holder

100 Serisi Solenoid & Hava Kum. Valfler / 100 Series Solenoid & Pneu. Act. Valves
Önemli Parçaların Malzemeleri (Solenoid) / Material of Major Parts (Solenoid)

No.	Parça / İtem	Malzeme / Material
1	Gövde / Body	Alüminyum Alaşım / Aluminium alloy
2	Spul / Spool	Alüminyum Alaşım / Aluminium alloy
3	Manuel Çalıştırma O-ringi / Manuel override o-ring	NBR
4	Soket contası / Connector gasket	NBR
5	Spul o-ringi / Spool o-ring	NBR
6	Arka kapak contası / Bottom cover gasket	NBR
7	Pilot contası / Pilot gasket	NBR
8	Soket / Connector	Plastik / Plastic
9	Geridönüş kiti / Return kit	Bakır / Copper
10	Yan kapak / Side cover	Alüminyum Alaşım / Aluminium alloy
11	Dönüş yayı / Return spring	Paslanmaz Çelik / Stainless steel
12	Dönüş yay kiti / Return spring kit	Bakır / Copper
13	Sabitleme plakası / Fixed plate	Nikel kaplı çelik / Steel with nickel plated
14	Bobin somunu / Nut	Karbon çeliği / Carbon steel
15	Manuel Çalıştırma / Manuel override	Bakır / Copper
16	Arka kapak / Bottom cover	Çinko Alaşımı / Zinc alloy
17	Manuel Çalıştırma yayı / Manuel override spring	Paslanmaz çelik / Stainless steel
18	Spul yayı / Spool spring	Paslanmaz çelik / Stainless steel
19	Pilot gövdesi / Pilot body	Fiberglas / PBT-Glass fiber
20	Sabitleme vidası / Fixed screw	Karbon çeliği / Carbon steel
21	Bobin kabı / Coil cover	Sıcağa dayanıklı plastik / Heat-resistant resin
22	Manifold / Manifold	Alüminyum Alaşımı / Aluminium alloy
23	Piston / Piston	POM
24	Armatür / Armature	Saf demir ve bakır tüp / Pure iron and copper tube

Önemli Parçaların Malzemeleri (Hava Kumandalı) / Material of Major Parts (Pneumatic)

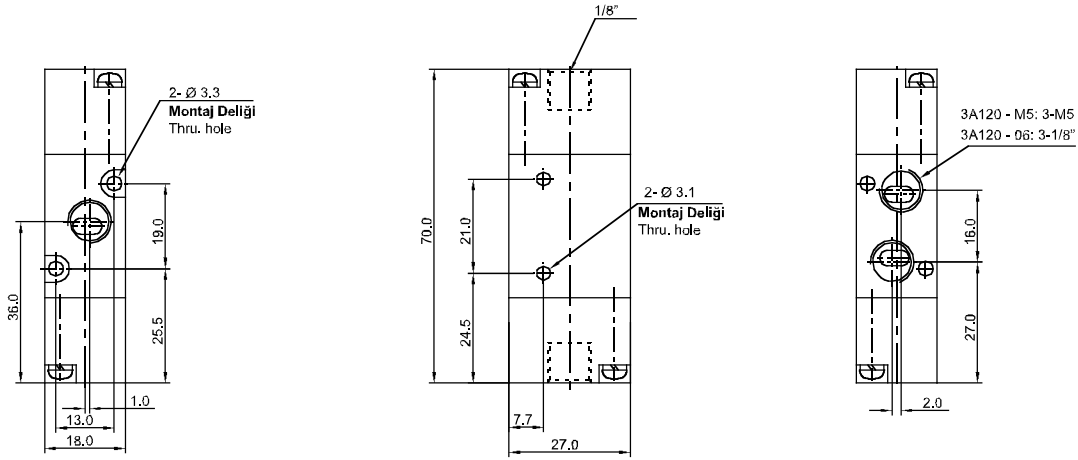
Parça / İtem	4A110	4A120	4A130	Parça / İtem	4A110	4A120	4A130
Gövde / Body	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy	Arka Kapak / Bottom Cover	Çinko Alaşım / Zinc Alloy	Çinko Alaşım / Zinc Alloy	Çinko Alaşım / Zinc Alloy
Spul / Spool	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy	Pilot Gövde / Pilot Body	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy	Alüminyum Alaşım / Aluminium Alloy
Spul o-ringi / Spool o-ring	HNBR	HNBR	HNBR	Sabitleme Cıvatası / Fixed Screw	Demir / Iron	Demir / Iron	Demir / Iron
Arka kapak contası / Bottom cover gasket	NBR	NBR	NBR	Geri Dönüş Yayı / Return Spring	Paslanmaz Çelik / Stainless Steel	Paslanmaz Çelik / Stainless Steel	Paslanmaz Çelik / Stainless Steel
Piston / Piston	Plastik / Plastic	Plastik / Plastic	Plastik / Plastic	Piston O-ring / Piston O-ring	NBR	NBR	NBR

Akış Diyagramları / Flow Charts

Teknik Çizimler / Technical Drawings
3A110


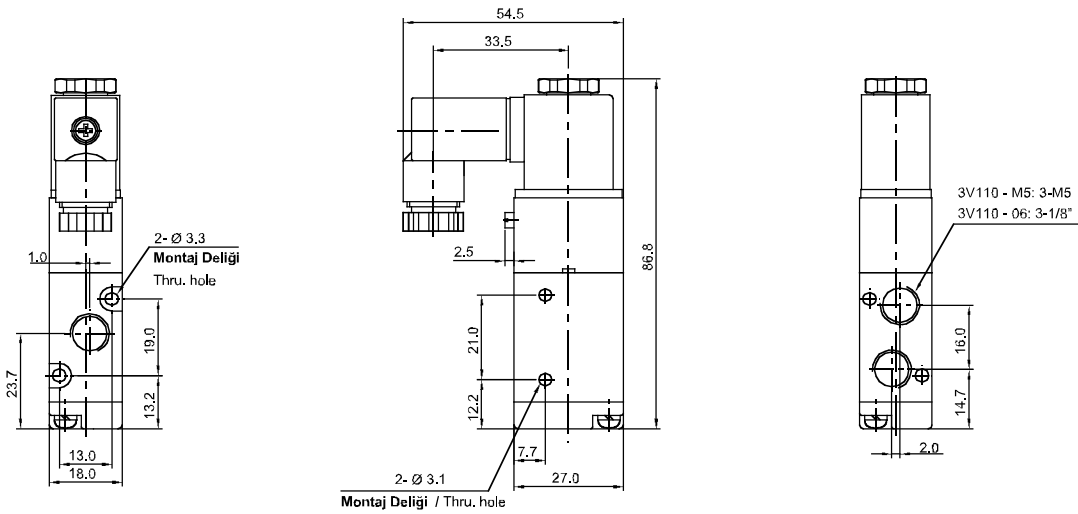
100 Serisi Solenoid & Hava Kum. Valfler / 100 Series Solenoid & Pneu. Act. Valves

Teknik Çizimler / Technical Drawings

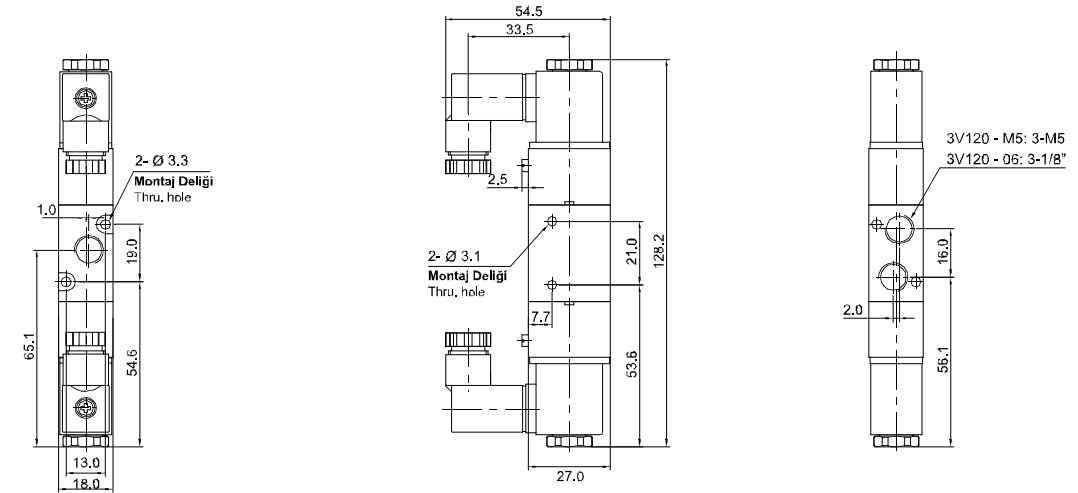
3A120



3V110



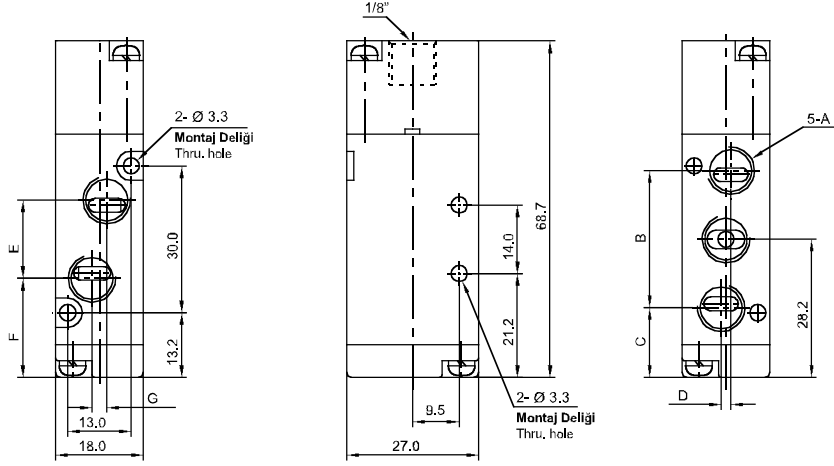
3V120



100 Serisi Solenoid & Hava Kum. Valfler / 100 Series Solenoid & Pneu. Act. Valves

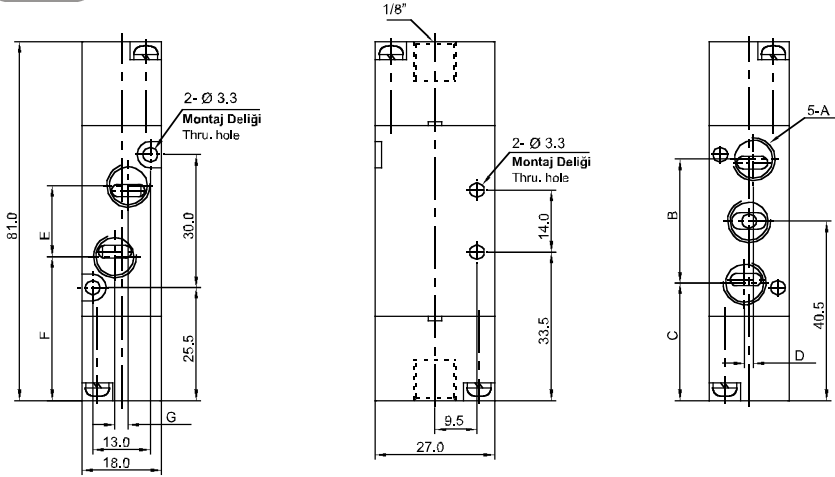
Teknik Çizimler / Technical Drawings

4A110



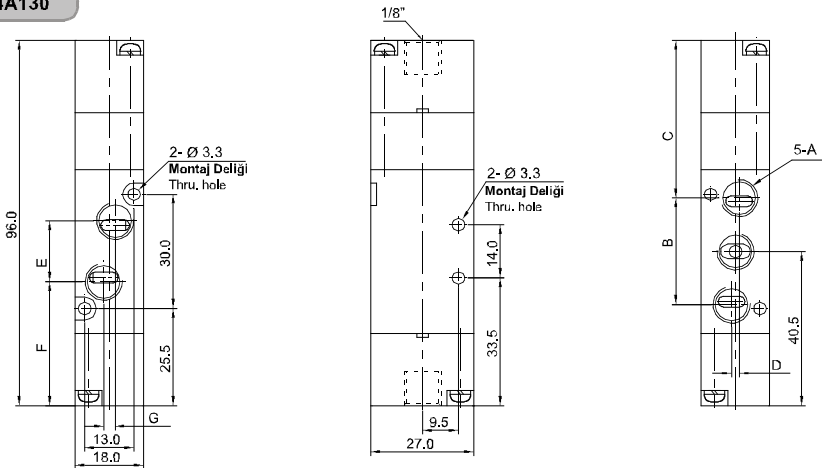
Parça / Model Item / Model	4A110-M5	4VA110-06
A	M5x0.8	1/8"
B	27	28
C	14,7	14,2
D	0	1
E	14	16
F	21,2	20,2
G	0	3

4A120



Parça / Model Item / Model	4A120-M5	4A120-06
A	M5x0.8	1/8"
B	27	28
C	27	26,5
D	0	1
E	14	16
F	33,5	32,5
G	0	3

4A130

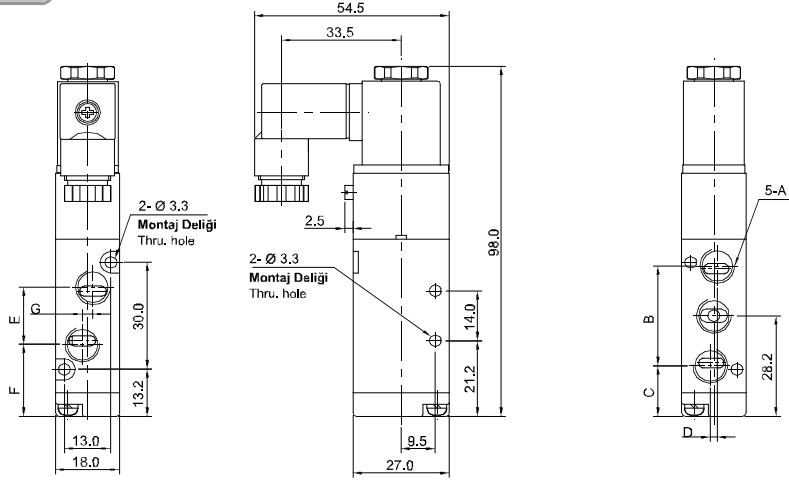


Parça / Model Item / Model	4A130-M5	4A130-06
A	M5x0.8	1/8"
B	27	28
C	42,5	41,5
D	0	1
E	14	16
F	33,5	32,5
G	0	3

100 Serisi Solenoid & Hava Kum. Valfler / 100 Series Solenoid & Pneu. Act. Valves

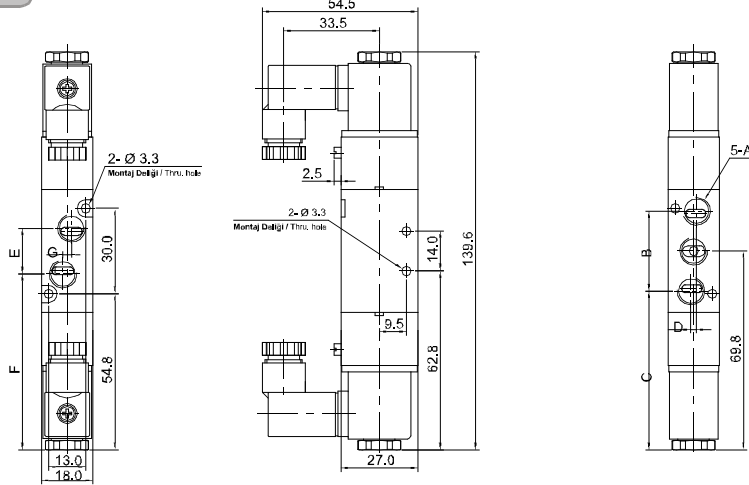
Teknik Çizimler / Technical Drawings

4V110



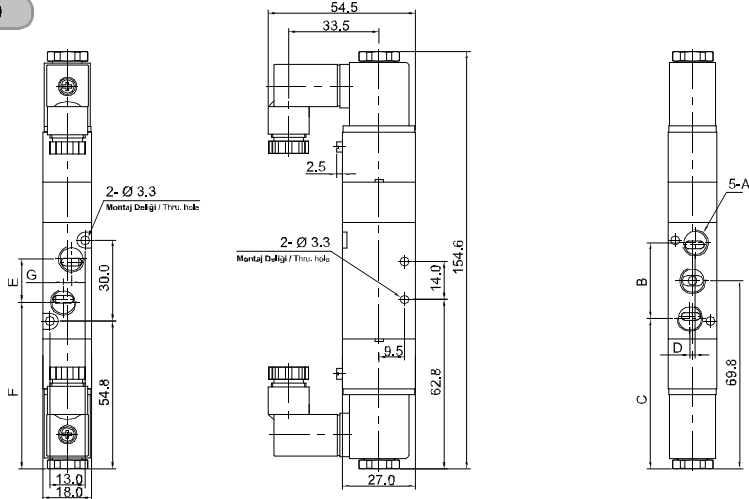
Parça / Model Item / Model	4V110-M5	4V110-06
A	M5x0.8	1/8"
B	27	28
C	14.7	14.2
D	0	1
E	14	16
F	21.2	20.2
G	0	3

4V120

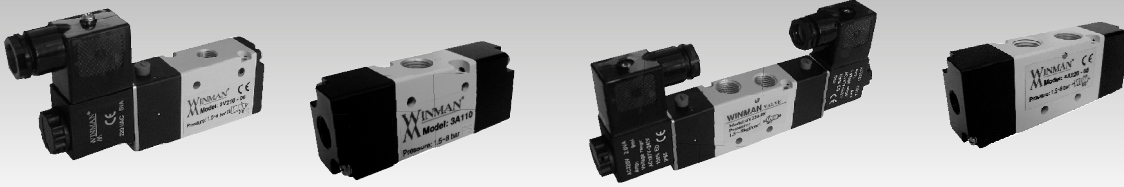
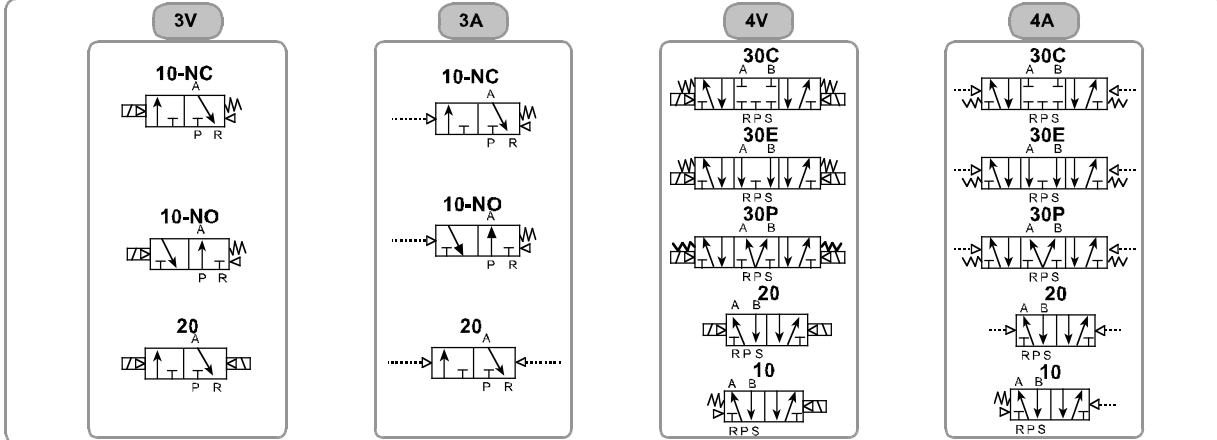


Parça / Model Item / Model	4V120-M5	4V120-06
A	M5x0.8	1/8"
B	27	28
C	56.2	55.7
D	0	1
E	14	16
F	62.7	61.7
G	0	3

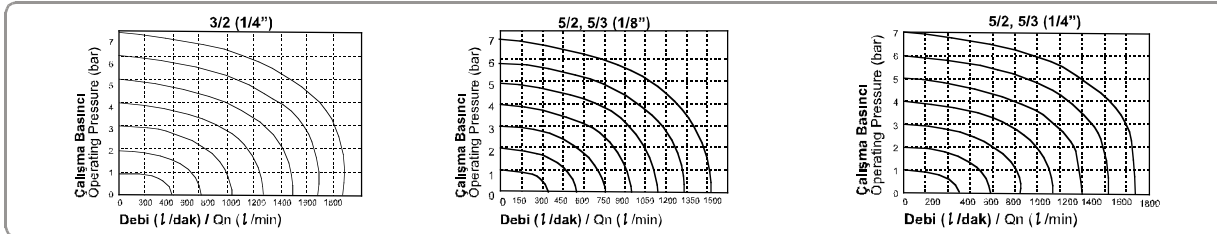
4V130



Parça / Model Item / Model	4V130-M5	4V130-06
A	M5x0.8	1/8"
B	27	28
C	63.8	63.3
D	0	1
E	14	16
F	70.3	69.3
G	0	3

200 Serisi Selenoid & Hava Kum. Valfler / 200 Series Solenoid & Pneu. Act. Valves

Semboller / Symbols

Özellikler / Specification

Özellik / Item	Selenoid Pnömatik / Solenoid Pneumatic			
	Giriş = Çıkış = Egzost = 1/8" / In = Out = Exhaust = 1/8"		Giriş = Çıkış = Egzost = 1/4" / In = Out = Exhaust = 1/4"	
Bağlantı Ölçüsü / Port Size	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)			
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)			
Valf Tipi / Valve Type	3/2	5/2	5/3	5/2
Orifis Çapı / Orifice Size	4 mm ² Cv= 0.78		12 mm ² Cv= 0.67	16 mm ² Cv= 0.89
Yağlama / Lubrication	Gerektirmez / Not Required			
Basınç Aralığı / Pressure Range	1.5 ~ 8.0 bar / 0.15 ~ 0.8 MPa / 21 ~ 114 Psi			
Test Basıncı / Proof Pressure	12 bar / 1.2 MPa / 171 Psi			
Sıcaklık / Temperature	- 5 ~ 60 °C / 23 ~ 140 °F			
Voltaj Aralığı / Voltage Range	± 10%			
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / cycle/s	3 çevrim/sn / cycle/s	5 çevrim/sn / cycle/s	3 çevrim/sn / cycle/s
Güç Tüketimi / Power Consumption	AC220V: 2.0VA / AC110V: 2.5VA / AC24V: 3.5VA / DC24V: 3.0VA / DC12V: 2.5VA			
Yalıtım / Insulation	B Sınıfı / F Class			
Koruma / Protect	IP65 (DIN40050)			
Soket / Connection	DIN Terminal			
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05 sn / 0.05 sec			

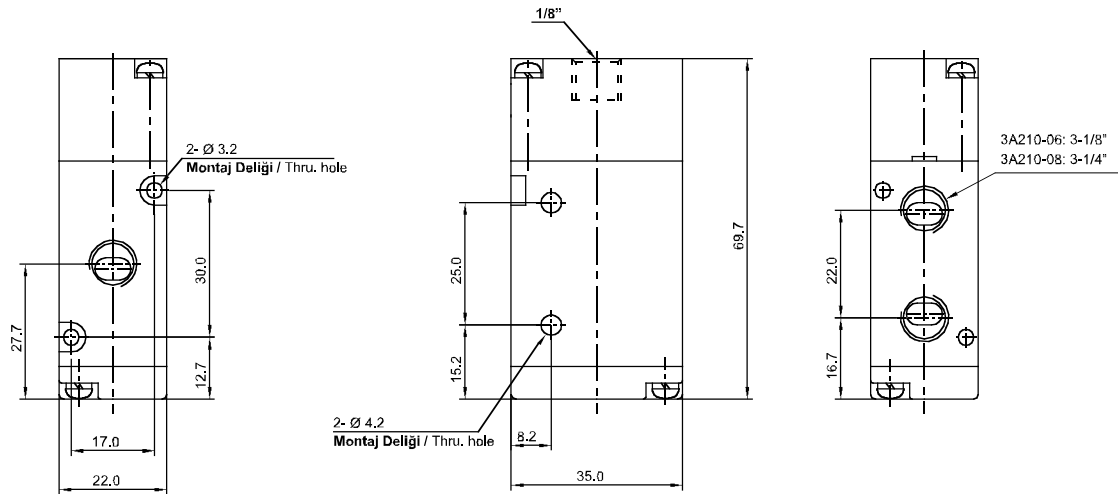
Akış Diyagramları / Flow Charts

Sipariş Kodu / Ordering Code

3	V	2	20	06	NO	AC24V
Fonksiyon / Function	Pilot Tipi / Pilot Type	Seri / Serie	Valf Tipi / Valve Type	Bağlantı Ölçüsü / Port Size	Çalışma Tipi / Acting Type	Voltaj / Voltage
3: 3 Yol 2 Konum 3: 3 Port 2 Position	V: Selenoid Valf V: Solenoid Valve	2: 200 Serisi 2: 200 Series	10: Tek Etkili 10: Single Acting 20: Çift Etkili 20: Double Acting	06: 1/8"	Boş: Yok Empty: None (5/2, 5/3)	Boş: Yok Empty: None DC12V
4: 5 Yol 2 (3) Konum 4: 5 Port 2 (3) Position	A: Hava Kumandalı A: Pneumatic Valve		30C: 5/3 Kapalı Merkez 30C: 5/3 Closed Center 30E: 5/3 Egzost Merkez 30E: 5/3 Exhaust Center 30P: 5/3 Basınç Merkez 30P: 5/3 Pressure Center	08: 1/4"	N.A.: Normalde Açık N.O.: Normally Open (3/2)	DC24V AC24V 50 Hz
					N.K.: Normalde Kapalı N.C.: Normally Closed (3/2)	AC110V 50 Hz AC220V 50 Hz

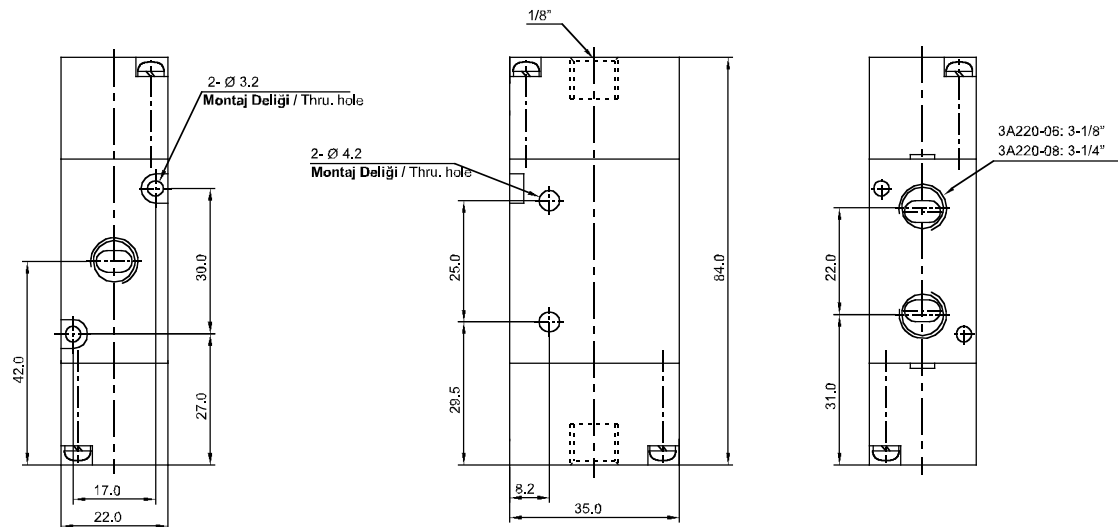
200 Serisi Solenoid & Hava Kum. Valfler / 200 Series Solenoid & Pneu. Act. Valves

Teknik Çizimler / Technical Drawings

3A210



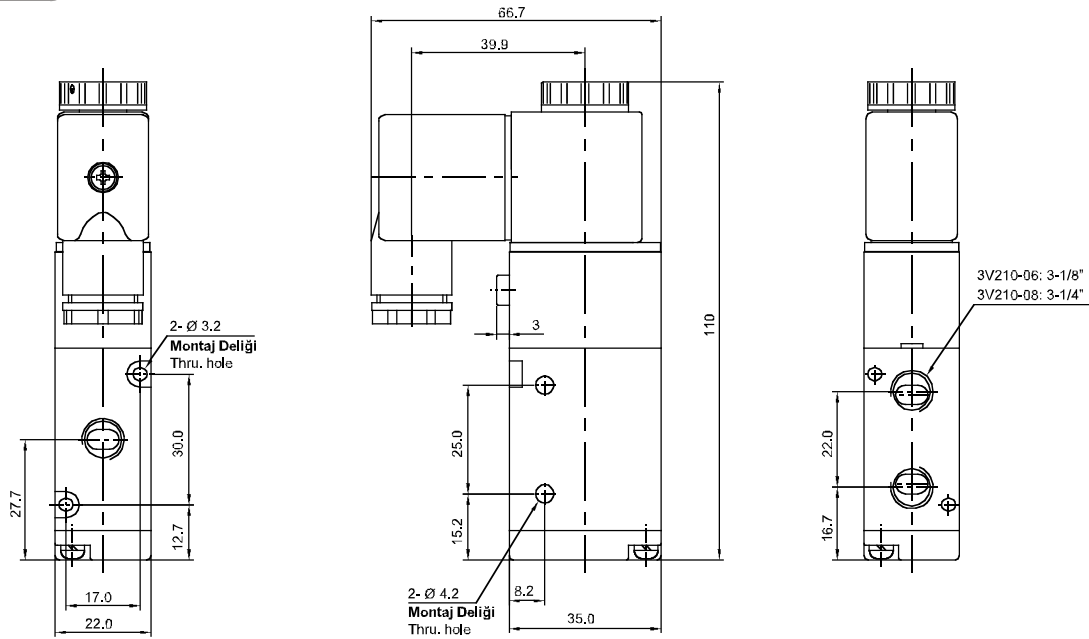
3A220



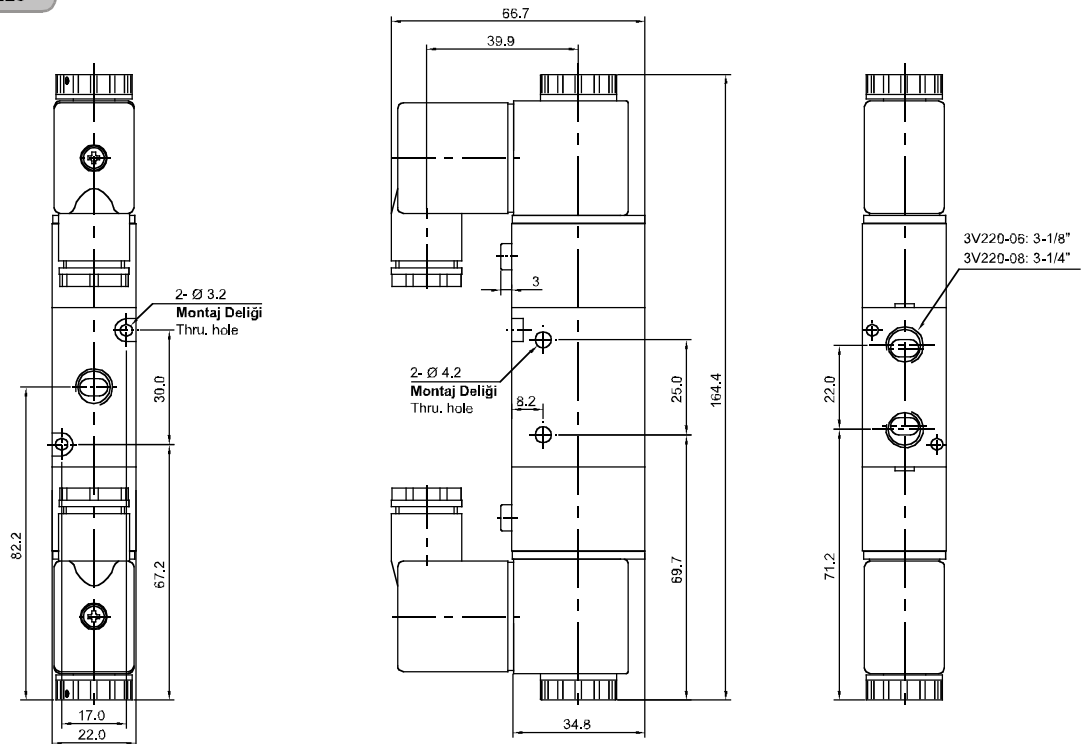
200 Serisi Solenoid & Hava Kum. Valfler / 200 Series Solenoid & Pneu. Act. Valves

Teknik Çizimler / Technical Drawings

3V210



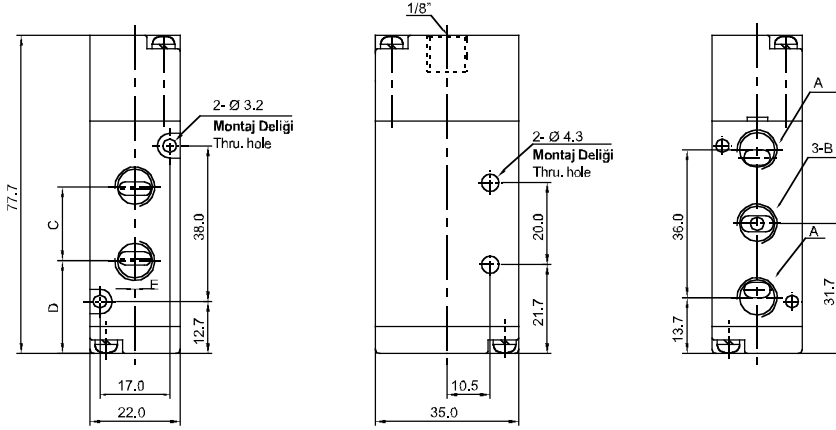
3V220



200 Serisi Solenoid & Hava Kum. Valfler / 200 Series Solenoid & Pneu. Act. Valves

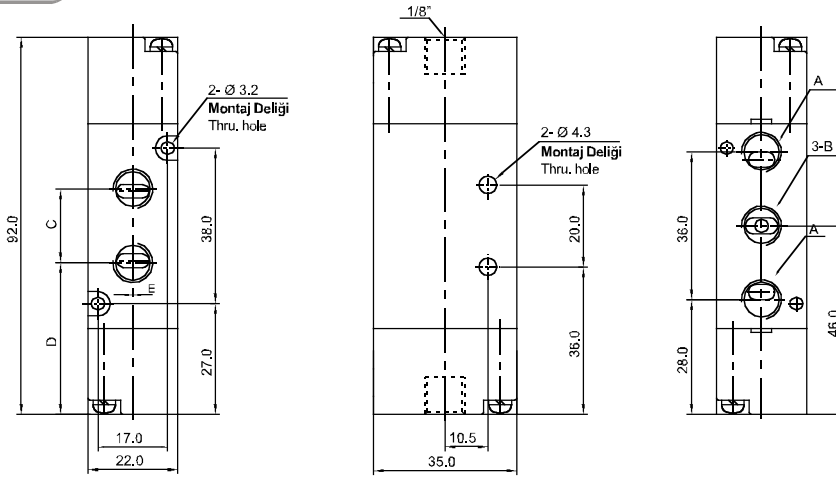
Teknik Çizimler / Technical Drawings

4A210



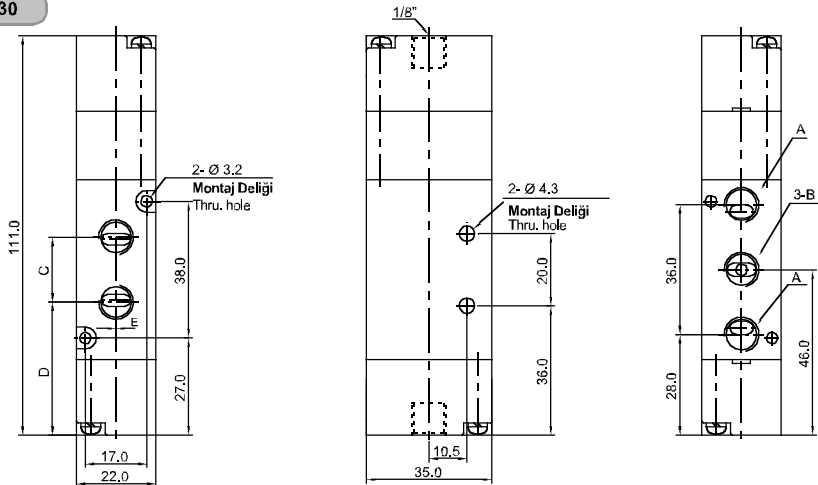
Parça / Model Item / Model	4A210-06	4A210-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	22.7	21.2
E	0	3

4A220



Parça / Model Item / Model	4A220-06	4A220-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	37	35.5
E	0	3

4A230

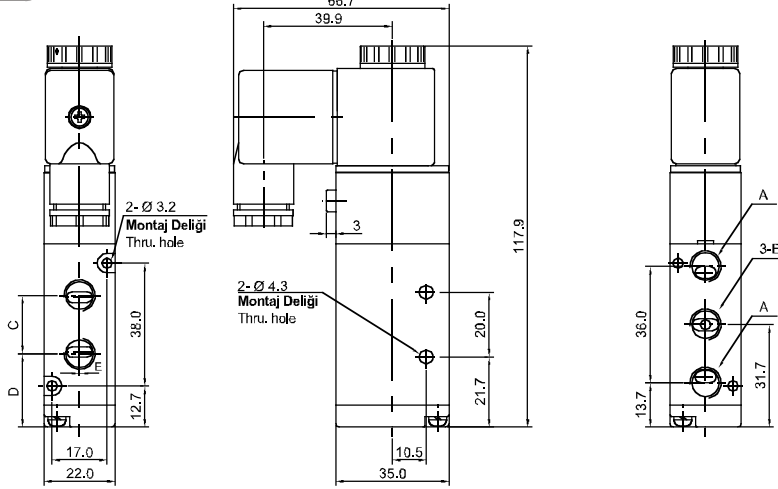


Parça / Model Item / Model	4A230-06	4A230-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	37	35.5
E	0	3

200 Serisi Solenoid & Hava Kum. Valfler / 200 Series Solenoid & Pneu. Act. Valves

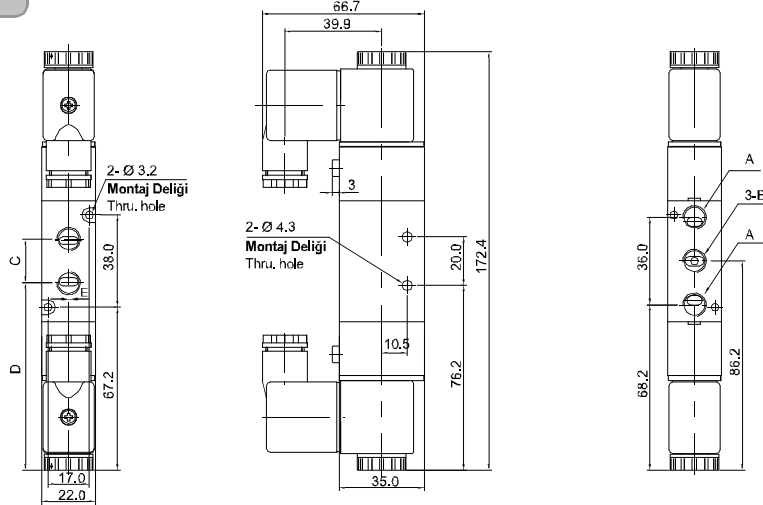
Teknik Çizimler / Technical Drawings

4V210



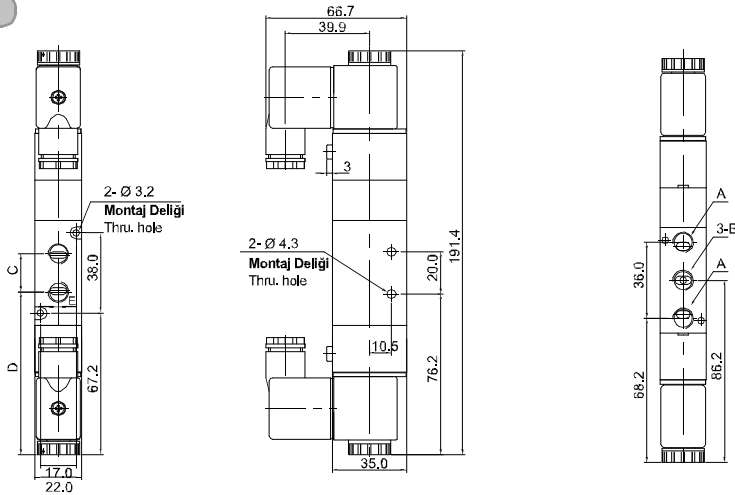
Parça / Model Item / Model	4V210-06	4V210-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	22.7	21.2
E	0	3

4V220

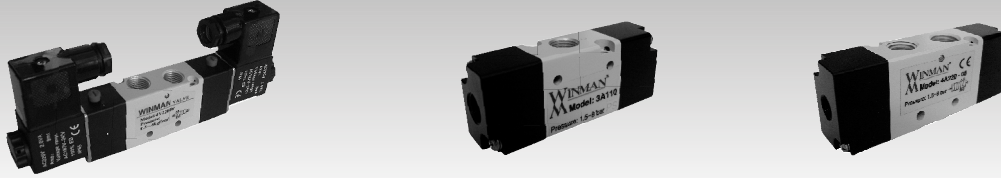
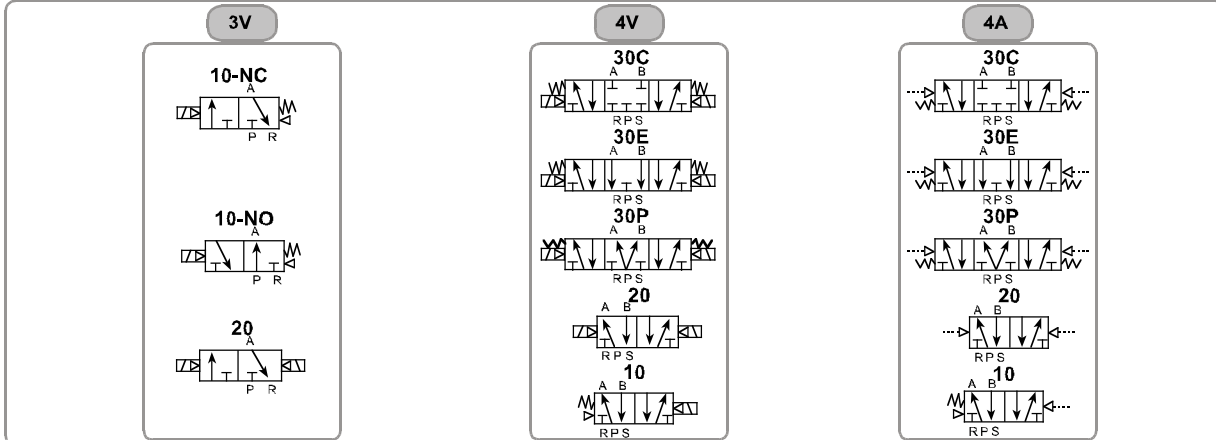


Parça / Model Item / Model	4V220-06	4V220-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	76	74.5
E	0	3

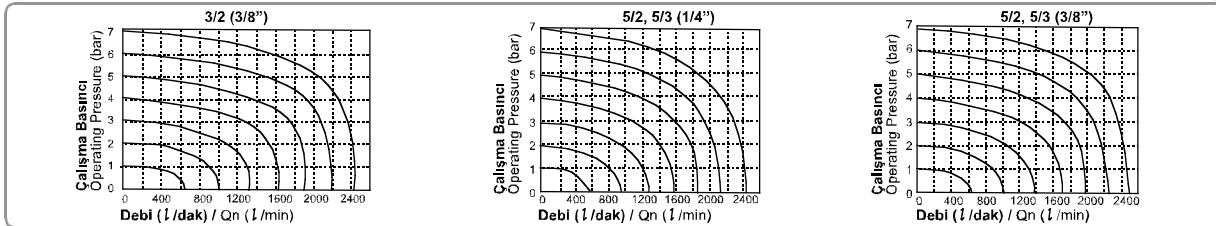
4V230



Parça / Model Item / Model	4V230-06	4V230-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	95	93.5
E	0	3

300 Serisi Solenoid & Hava Kum. Valfler / 300 Series Solenoid & Pneu. Act Valves

Semboller / Symbols

Özellikler / Specification

Özellik / Item	Solenoid Pnömatik / Solenoid Pneumatic					
Bağlantı Ölçüsü / Port Size	Giriş = Çıkış = Egzost = 1/4" / In = Out = Exhaust = 1/4"			Giriş = Çıkış = 3/8" Egzost = 1/4" / In = Out = 3/8" Exhaust = 1/4"		
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)					
Valf Tipi / Valve Type	3/2	5/2	5/3	3/2	5/2	5/3
Orifis Çapı / Orifice Size	25 mm ² Cv = 1.39		18 mm ² Cv = 1.00	30 mm ² Cv = 1.67		18 mm ² Cv = 1.00
Yağlama / Lubrication	Gerekirmez / Not Required					
Basınç Aralığı / Pressure Range	1.5 ~ 8.0 bar / 0.15 ~ 0.8 MPa / 21 ~ 114 Psi					
Test Basıncı / Proof Pressure	12 bar / 1.2 MPa / 170 Psi					
Sıcaklık / Temperature	- 5 ~ 60 °C / 23 ~ 140 °F					
Voltaj Aralığı / Voltage Range	- 15 % ~ + 10 %					
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / cycle/s	4 çevrim/sn / cycle/s	3 çevrim/sn / cycle/s	5 çevrim/sn / cycle/s	4 çevrim/sn / cycle/s	3 çevrim/sn / cycle/s
Güç Tüketimi / Power Consumption	AC220V: 2.0VA / AC110V: 2.5VA / AC24V: 3.5VA / DC24V: 3.0 W / DC12V: 2.5 W					
Yalıtım / Insulation	F Sınıfı / F Class					
Koruma / Protect	IP65 (DIN40050)					
Soket / Connection	DIN Terminal					
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05 sn / 0.05 sec					

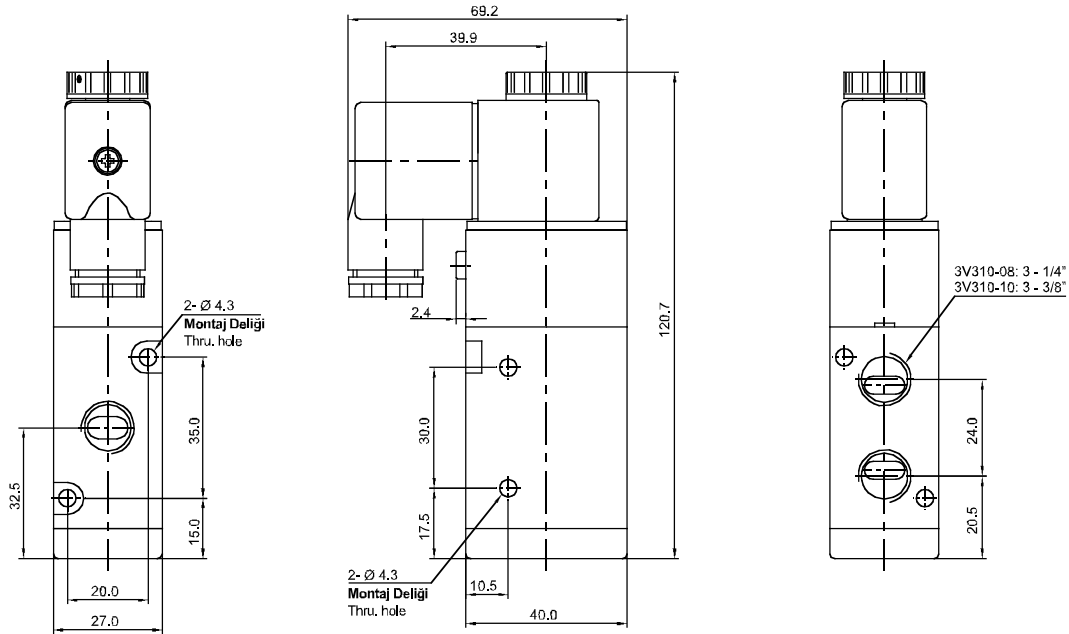
Akış Diyagramları / Flow Charts

Sipariş Kodu / Ordering Code

3	V	3	20	06	NO	AC24V
Fonksiyon / Function	Pilot Tipi / Pilot Type	Seri / Serie	Valf Tipi / Valve Type	Bağlantı Ölçüsü / Port Size	Çalışma Tipi / Acting Type	Voltaj / Voltage
3: 3 Yol 2 Konum 3: 3 Port 2 Position	V: Solenoid Valf V: Solenoid Valve	3: 300 Serisi 3: 300 Series	10: Tek Etkili 10: Single Acting 20: Çift Etkili 20: Double Acting	08: 1/4"	Boş: Yok Empty: None (5/2, 5/3)	Boş: Yok Empty: None DC12V
4: 5 Yol 2 (3) Konum 4: 5 Port 2 (3) Position	A: Hava Kumandalı A: Pneumatic Valve		30C: 5/3 Kapalı Merkez 30C: 5/3 Closed Center 30E: 5/3 Egzost Merkez 30E: 5/3 Exhaust Center 30P: 5/3 Basınç Merkez 30P: 5/3 Pressure Center	10: 3/8"	N.A.: Normalde Açık N.O.: Normally Open (3/2)	DC24V AC24V 50 Hz
					N.K.: Normalde Kapalı N.C.: Normally Closed (3/2)	AC110V 50 Hz AC220V 50 Hz

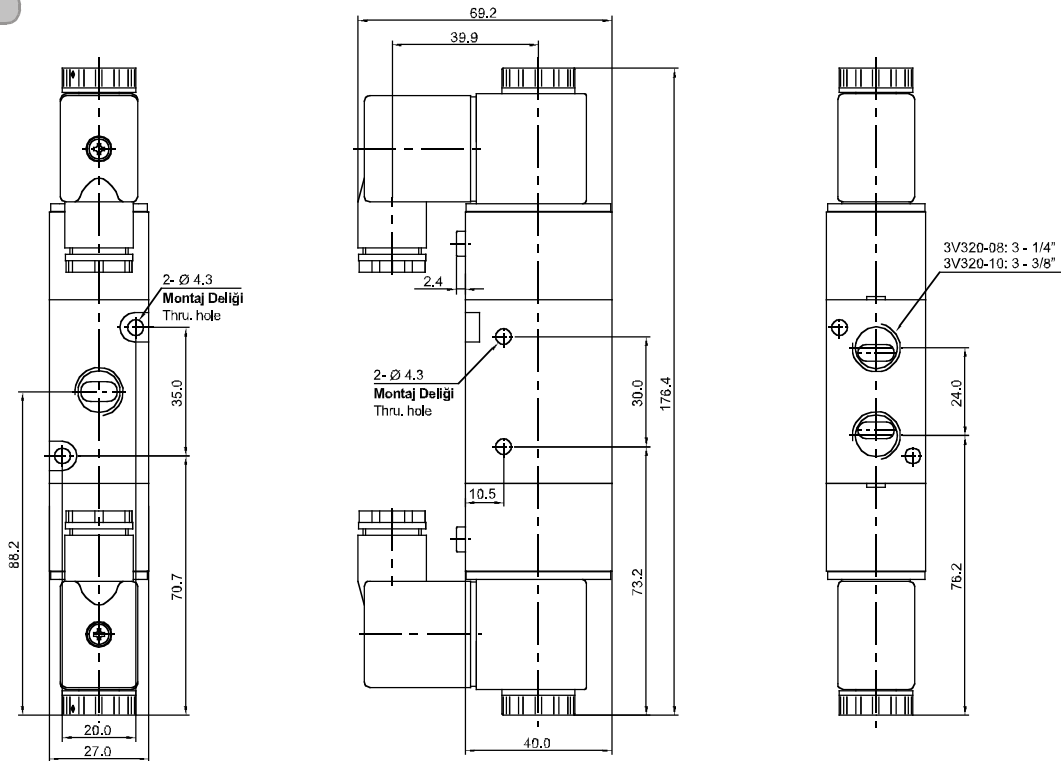
300 Serisi Solenoid & Hava Kum. Valfler / 300 Series Solenoid & Pneu. Act Valves

Teknik Çizimler / Technical Drawings

3V310



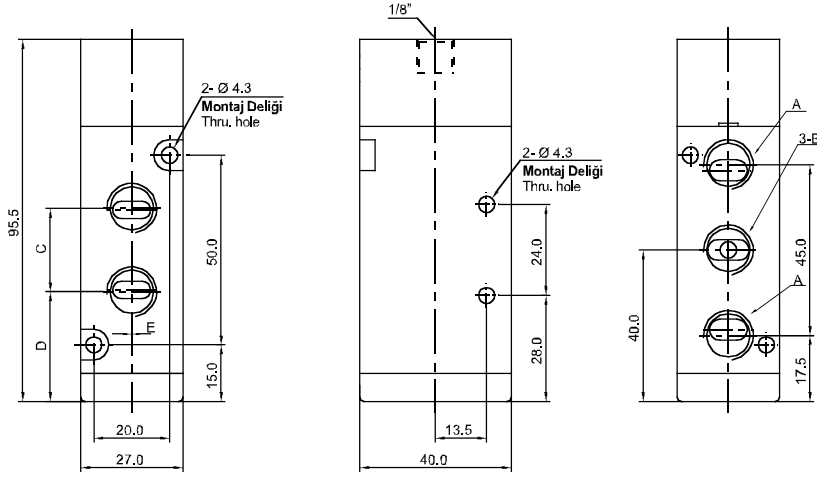
3V320



300 Serisi Solenoid & Hava Kum. Valfler / 300 Series Solenoid & Pneu. Act Valves

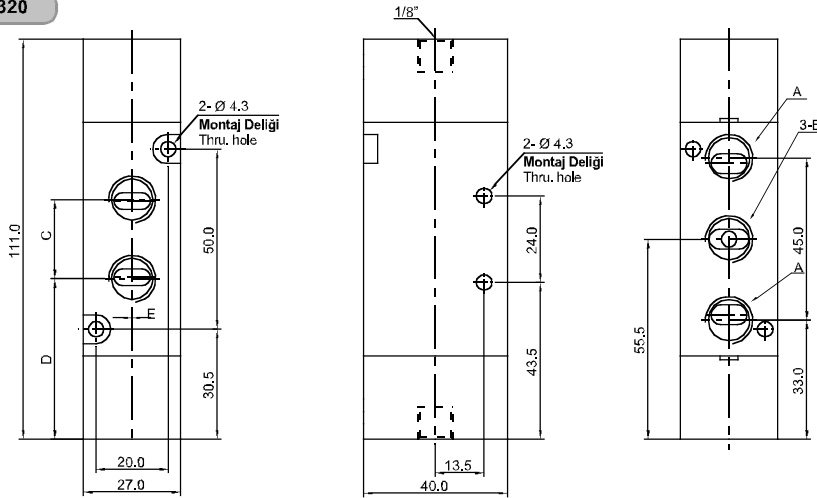
Teknik Çizimler / Technical Drawings

4A310



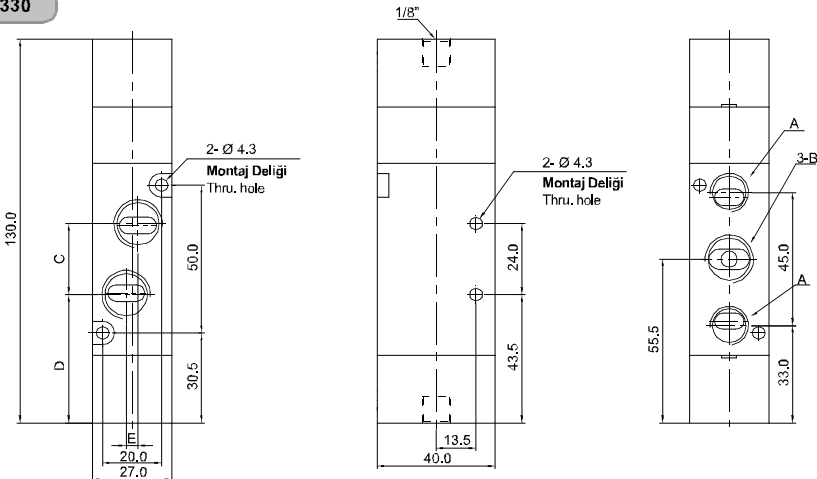
Parça / Model Item / Model	4A310-08	4A310-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	22
D	29	29
E	0	4

4A320



Parça / Model Item / Model	4A320-08	4A320-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	24
D	44.5	43.5
E	0	4

4A330

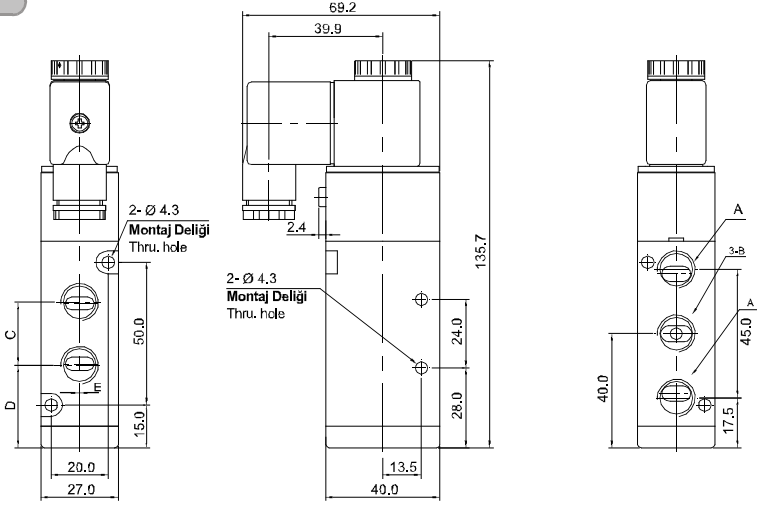


Parça / Model Item / Model	4A330-08	4A330-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	24
D	44.5	43.5
E	0	4

300 Serisi Solenoid & Hava Kum. Valfler / 300 Series Solenoid & Pneu. Act Valves

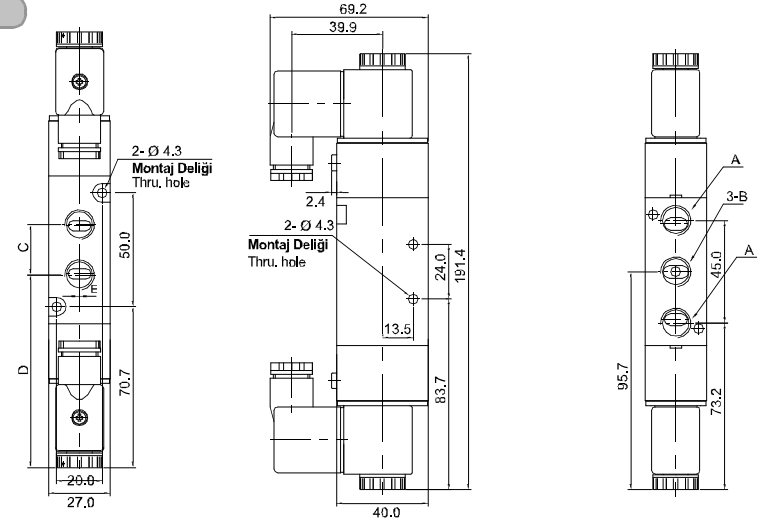
Teknik Çizimler / Technical Drawings

4V310



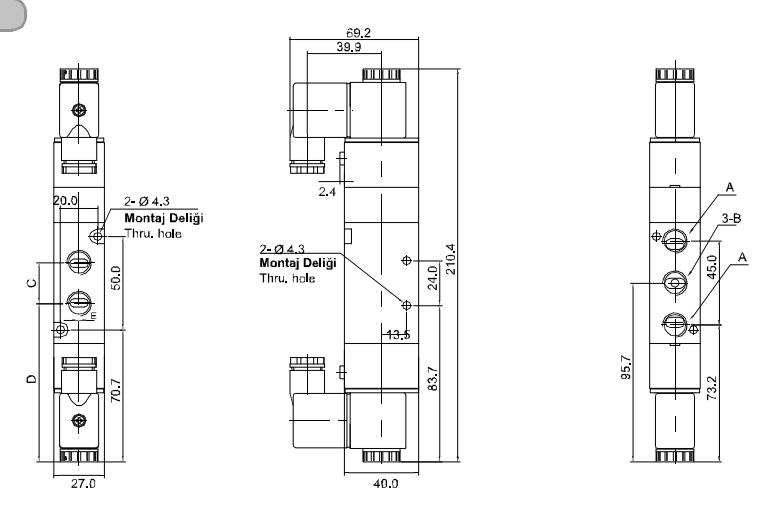
Parça / Model Item / Model	4V310-08	4V310-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	24
D	29	28
E	0	4

4V320



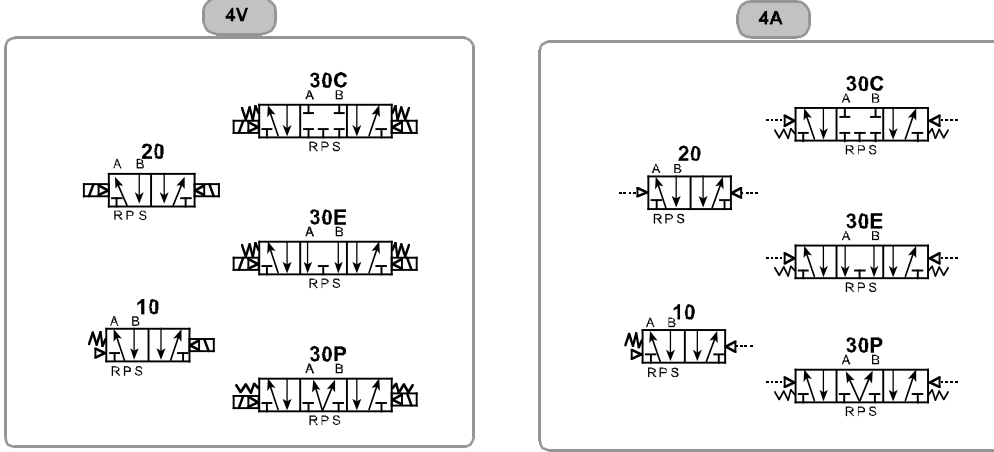
Parça / Model Item / Model	4V320-08	4V320-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	24
D	83.4	82.4
E	0	4

4V330

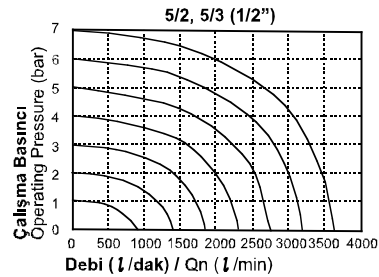


Parça / Model Item / Model	4V330-08	4V330-10
A	1/4"	1/4"
B	1/4"	3/8"
C	22	24
D	102.6	101.6
E	0	4

400 Serisi Solenoid & Hava Kum. Valfler / 400 Series Solenoid & Pneu. Act. Valves

Semboller / Symbols

Özellikler / Specification

Özellik / Item	Solenoid Pnömatik / Solenoid Pneumatic	
Bağlantı Ölçüsü / Port Size	Giriş = Çıkış = Egzost = 1/2" / In = Out = Exhaust = 1/2"	
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Valf Tipi / Valve Type	5/2	5/3
Orifis Çapı / Orifice Size	50 mm ² Cv = 2.79	30 mm ² Cv = 1.67
Yağlama / Lubrication	Gerektirmez / Not Required	
Basınç Aralığı / Pressure Range	1.5 ~ 8.0 bar / 0.15 ~ 0.8 MPa / 21 ~ 114 Psi	
Test Basıncı / Proof Pressure	12 bar / 1.2 MPa / 171 Psi	
Sıcaklık / Temperature	- 5 ~ 60 °C / 23 ~ 140 °F	
Voltaj Aralığı / Voltage Range	± 10%	
Max. Çalışma Frekansı / Max. Frequence	3 çevrim /sn / cycle/s	
Güç Tüketimi / Power Consumption	AC220V:2.0VA, AC110V:2.5VA, AC24V:3.5VA, DC24V:2WA, DC12V:2.5W	
Yalıtım / Insulation	B Sınıfı / F Class	
Koruma / Protect	IP65 (DIN40050)	
Soket / Connection	DIN Terminal	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	0.05 sn / 0.05 sec	

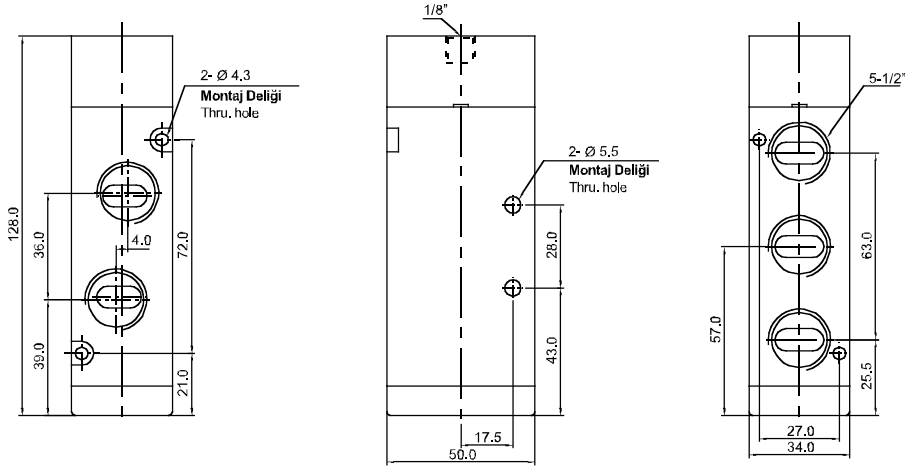
Akış Diyagramı / Flow Chart

Sipariş Kodu / Ordering Code

4	V	4	20	06	AC24V
Fonksiyon Function	Pilot Tipi Pilot Type	Seri Serie	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Voltaj Voltage
4: 5 Yol 2 (3) Konum 4: 5 Port 2 (3) Position	V: Solenoid Valf V: Solenoid Valve	4: 400 Serisi 4: 400 Series	10: Tek Etkili 10: Single Acting	15: 1/2"	Boş: Yok Empty: None
			20: Çift Etkili 20: Double Acting		DC12V
			30C: 5/3 Kapalı Merkez 30C: 5/3 Closed Center		DC24V
	30E: 5/3 Egzost Merkez 30E: 5/3 Exhaust Center		AC24V 50 Hz		
	30P: 5/3 Basınç Merkez 30P: 5/3 Pressure Center		AC110V 50 Hz		
	A: Hava Kumandalı A: Pneumatic Valve		AC220V 50 Hz		

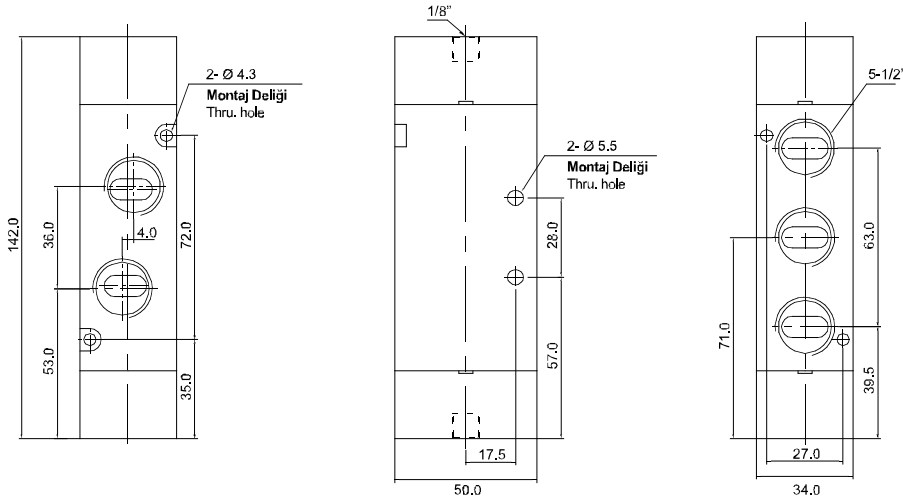
400 Serisi Solenoid & Hava Kum. Valfler / 400 Series Solenoid & Pneu. Act. Valves

Teknik Çizimler / Technical Drawings

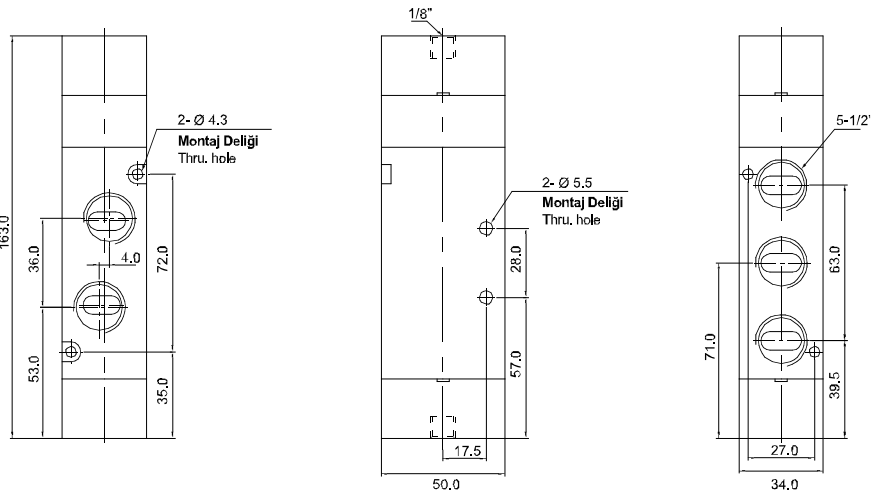
4A410



4A420



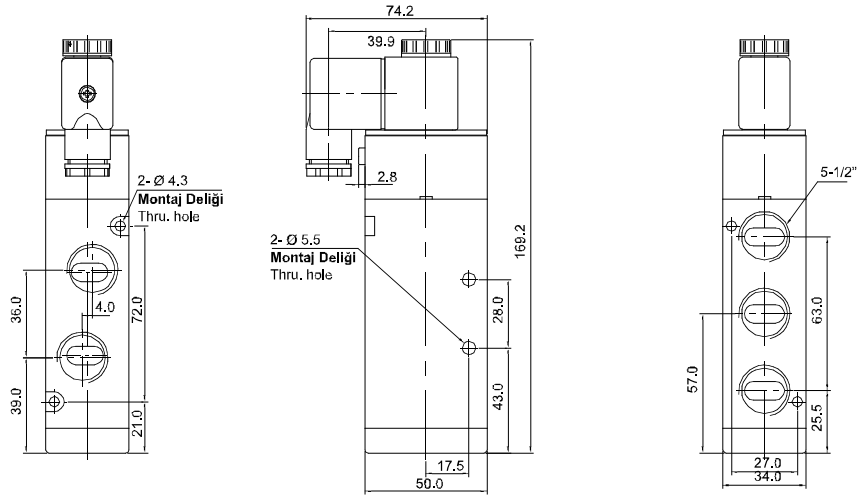
4A430



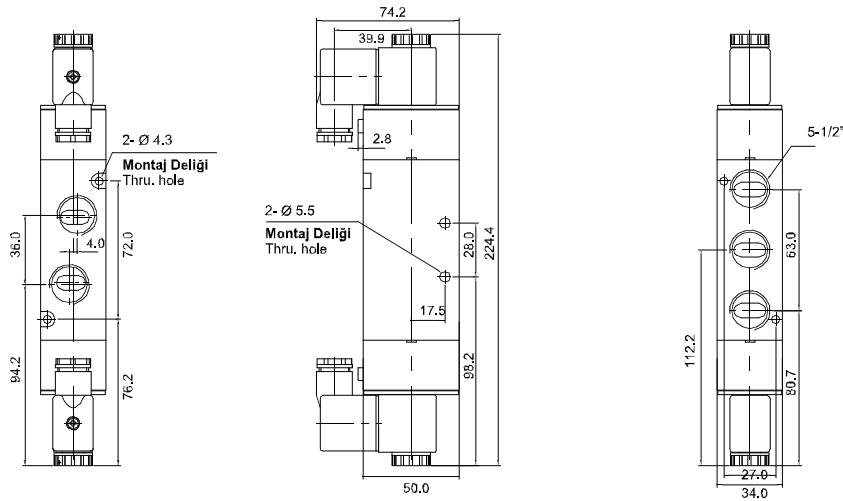
400 Serisi Solenoid & Hava Kum. Valfler / 400 Series Solenoid & Pneu. Act. Valves

Teknik Çizimler / Technical Drawings

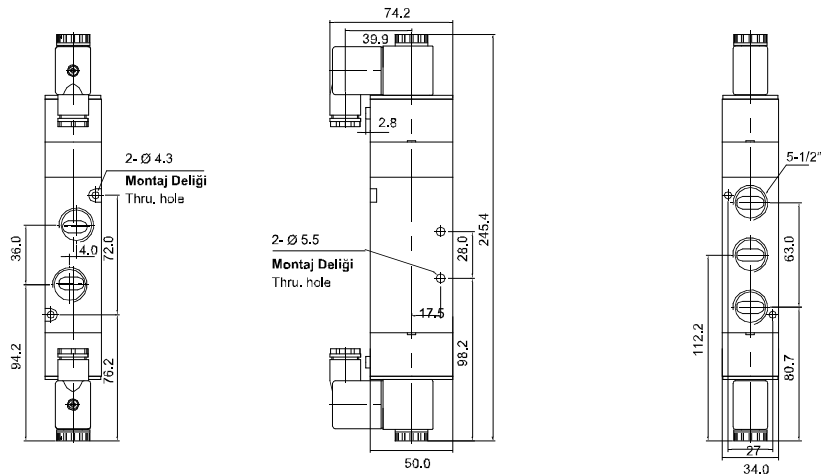
4V410



4V420



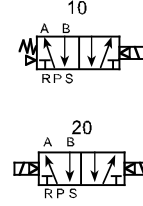
4V430



4M Serisi Namur Valfler / 4M Series Namur Valves

Sipariş Kodu / Ordering Code

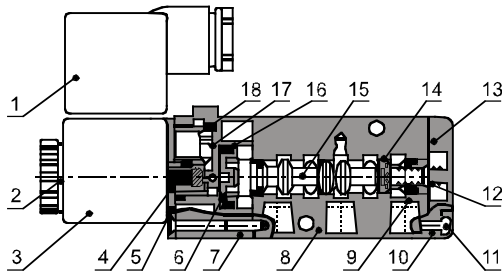
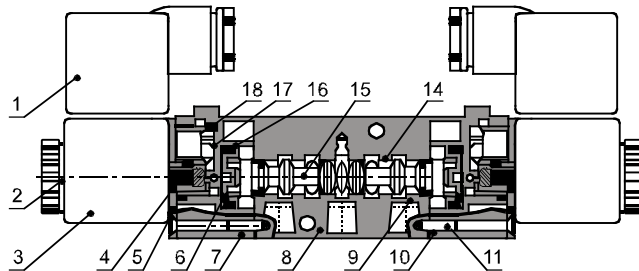
4M	2	10	06	AC110V
Model Model	Kod Code	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Voltaj Voltage
4M: 5 Yol 2 Konumlu Solenoid Valf (Namur Tipi) 4M: 5 Port 2 Position Solenoid Valve (Namur Type)	1: 100 Serileri 1: 100 Series 2: 200 Serileri 2: 200 Series 3: 300 Serileri 3: 300 Series	10: Tek Bobinli 5/2	M5: M5x8.0	DC12V
		10: Single Solenoid 5/2way	06: 1/8"	DC24V
		20: Çift Bobinli 5/2	08: 1/4"	AC24V 50 Hz
		20: Double Solenoid 5/2way	10: 3/8"	AC110V 50 Hz
				AC220V 50 Hz

Sembol / Symbol

Özellikler / Specification

Özellik / Item	4M110-M5	4M120-M5	4M110-06	4M120-06	4M210-06	4M220-06	4M210-08	4M220-08	4M310-08	4M320-08	4M310-10	4M310-10
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)											
Operasyon / Operating	İçten Pilotlu / Internally Piloted											
Valf Tipi / Valve Type	5 Bağlantı 2 Konum / 5 Port 2 Position											
Orifis Çapı / Orifice Size	5.5 mm (Cv=0.31)	12 mm (Cv=0.67)	14 mm (Cv=0.78)	16 mm (Cv=0.89)	25 mm (Cv=1.4)	30 mm (Cv=1.68)						
Bağlantı Ölçüsü / Port Size	İç=Egzost=M5 In=Exhaust=M5	İç=Egzost=1/8" In=Exhaust=1/8"	İç=Egzost=1/8" In=Exhaust=1/8"	İç 1/4"=Egzost=1/8" In 1/4"=Exhaust=1/8"	İç=Egzost=1/4" In=Exhaust=1/4"	İç 3/8"=Egzost=1/4" In 3/8"=Exhaust=1/4"						
Yağlama / Lubrication	Gerektirmez / Not Required											
Basınç Aralığı / Pressure Range	1.5 ~ 8.0 bar / 0.15 ~ 0.8 MPa / 21 ~ 114 Psi											
Test Basıncı / Proof Pressure	12.0 bar / 1.2 MPa / 170 Psi											
Sıcaklık / Temperature	- 5 ~ 60°C / 23 ~ 140°F											
Voltaj Aralığı / Voltage Range	- 15% ~ + 10%											
Güç Tüketimi / Power Consumption	AC220V: 2.0 VA , AC110V: 2.5VA , AC24V: 3.5VA DC24V: 3.0W , DC12V: 2.5W											
Yalıtım / Insulation	F Sınıfı / F Class											
Koruma / Protect	IP65 (DIN40050)											
Soket / Connector	DIN Terminal											
Max. Çalışma Frekansı / Max Frequency	5 çevrim/sn / 5 cycle/sec											
Min. Aktifleşme Zamanı(sn) / Min. Activating Time(sec)	0.05 sn / 0.05 sec											

Önemli Parçaların Malzemeleri / Material of Major Parts

Parça / Item	4M110	4M120	4M210	4M220	4M310	4M320	Parça / Item	4M110	4M120	4M210	4M220	4M310	4M320
Gövde / Body	Alüminyum Alaşım / Aluminium Alloy						Manuel Çalıştırma Yayı / Manual Override Spring	Paslanmaz Çelik / Stainless Steel					
Spul / Spool	Alüminyum Alaşım / Aluminium Alloy						Bobin somunu / Coil nut	Naylon / Nylon					
Manuel Çalıştırma O-ringi / Manual override o-ring	NBR						Pilot Gövdesi / Pilot Body	Fiberglas / PTB - Glass Fiber					
Soket Contası / Connector gasket	NBR						Sabitleme vidası / Fixed screw	Karbon Çeliği / Carbon Steel					
Spul O-Ringi / Spool o-ring	HNBR						Bobin kapağı / Coil cover	Sıcaklığa Dayanıklı Plastik / Heat-Resistant Resin					
Arka Kapak contası / Bottom cover gasket	NBR	-	NBR	-	NBR	-	Manifold / Manifold	Alüminyum Alaşım / Aluminium Alloy					
Pilot Contası / Pilot gasket	NBR						Piston / Piston	POM					
Sabitleme Plakası / Fixed plate	Nikel Kaplama Çelik / Steel with nickel plated						Armatür / Armature	Saf Demir / Pure Iron					
Spul Yayı / Spool Spring	Paslanmaz Çelik / Stainless Steel						Connector / Soket	Plastik / Plastic					

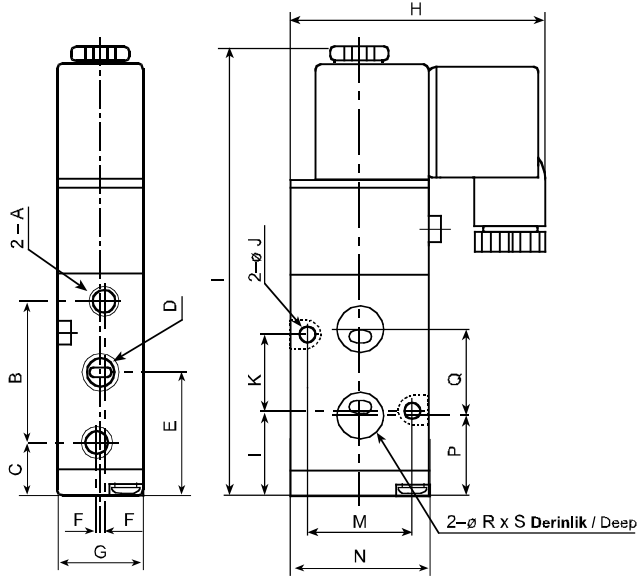
İç Yapı / Inner Structure
110 / 210 / 310

120 / 220 / 320


No.	Parça / Item	No.	Parça / Item	No.	Parça / Item
1	Soket / Connector	7	Pilot Kiri / Pilot Kit	13	Spul Yayı / Spool Spring
2	Bobin Somunu / Coil Nut	8	Gövde / Body	14	Spul O-ringi / Spool O-ring
3	Bobin / Coil	9	Aşınma Plakası / Wearing Ring	15	Spul / Spool
4	Armatür Aksamı / Armature Assembly	10	Arka Kapak / Bottom Cover	16	Piston O-ringi / Piston O-ring
5	Sabitleme Plakası / Fixed Plate	11	Sabitleme Cıvatası / Fixed Screw	17	Çalıştırma Yayı / Override Spring
6	Piston / Piston	12	Arka Kapak Contası / Bottom Cover Gasket	18	Elle Çalıştırma / Manual Override

Namur Serisi / Namur Series

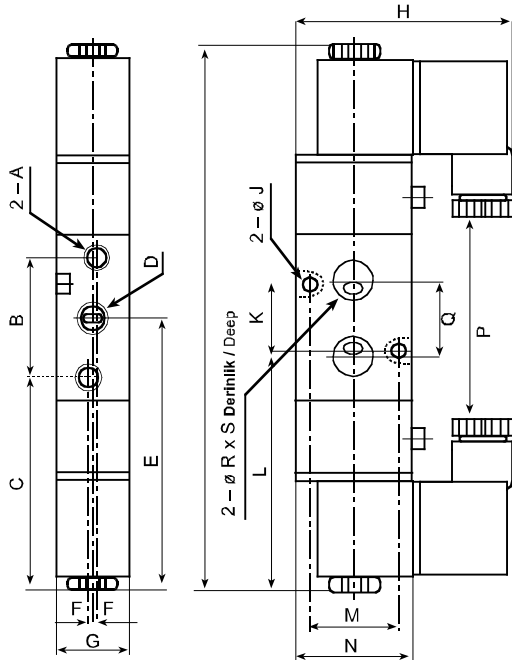
Teknik Çizimler / Technical Drawings

4M110 / 210 / 310



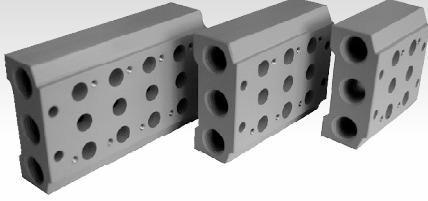
Parça / Model Item / Model	4M110		4M210		4M310	
	M5	06	06	08	08	10
A	M5	1/8"	1/8"	1/8"	1/4"	1/4"
B	27	28	36	36	45	45
C	14.7	14.2	13.7	13.7	17	17
D	M5	1/8"	1/8"	1/4"	1/4"	3/8"
E	28.2	28.2	31.7	31.7	39.5	39.5
F	0	1	0	0	0	0
G	18	18	22	22	27	27
H	53.5	53.5	66.5	66.5	69	69
I	97.9	97.9	116.5	116.5	134.5	134.5
J	3.3	3.3	4.3	4.3	5.2	5.2
K	14	14	20	20	24	24
L	21.2	21.2	21.7	21.7	27.5	27.5
M	21	21	29	29	32	32
N	27	27	35	35	40	40
P	19.5	19.5	20.5	20.5	29	29
R	16	16	19.2	19.2	19.2	19.2
S	1.4	1.4	1.7	1.7	1.7	1.7

4M120 / 220 / 320



Parça / Model Item / Model	4M110		4M210		4M310	
	M5	06	06	08	08	10
A	M5	1/8"	1/8"	1/8"	1/4"	1/4"
B	27	28	36	36	45	45
C	56.2	55.7	67	67	72	72
D	M5	1/8"	1/8"	1/4"	1/4"	3/8"
E	69.8	69.8	85	85	94.5	94.5
F	0	1	0	0	0	0
G	18	18	22	22	27	27
H	53.5	53.5	66.5	66.5	69	69
I	139.4	139.4	170	170	189	189
J	3.3	3.3	4.3	4.3	5.2	5.2
K	14	14	20	20	24	24
L	54.8	54.8	75	75	83.8	83.8
M	21	21	29	29	32	32
N	27	27	35	35	40	40
Q	21.5	21.5	23	23	22	22
R	16	16	19.2	19.2	19.2	19.2
S	1.4	1.4	1.7	1.7	1.7	1.7

Manifolt / Manifold



Sipariş Kodu / Ordering Code

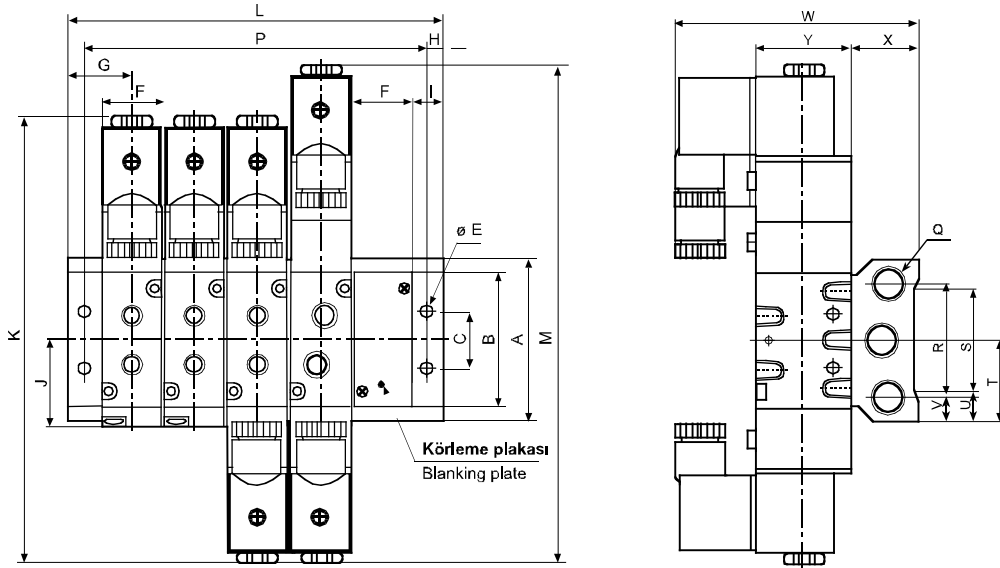
**Körleme Plakası Sipariş Kodu
Ordering Code For Blanking Plate**

100M		□F	200M		B
Model Model	İstasyon Sayısı Number of Stations		Model Model	İstasyon Sayısı Number of Stations	
100M: 100 Serisi Manifold 100M: 100 Series Manifold	100M: 1 - 16 İstasyon 100M: 1 - 16 Station		100M: 100 Serisi Manifold 100M: 100 Series Manifold		B: Manifold için Körleme Noktası B: Blanking Plate for Manifold
200M: 200 Serisi Manifold 200M: 200 Series Manifold	200M: 1 - 16 İstasyon 200M: 1 - 16 Station		200M: 200 Serisi Manifold 200M: 200 Series Manifold		
300M: 300 Serisi Manifold 300M: 300 Series Manifold	300M: 1 - 12 İstasyon 300M: 1 - 12 Station		300M: 300 Serisi Manifold 300M: 300 Series Manifold		
400M: 400 Serisi Manifold 400M: 400 Series Manifold	400M: 1 - 7 İstasyon 400M: 1 - 7 Station		400M: 400 Serisi Manifold 400M: 400 Series Manifold		

Manifold Seçme Listesi / Manifold for Choosing List

Manifold / Valf Tipi / Manifold / Valve Type	100 Serisi / Series	200 Serisi / Series	300 Serisi / Series	400 Serisi / Series
100M	●			
200M		●		
300M			●	
400M				●

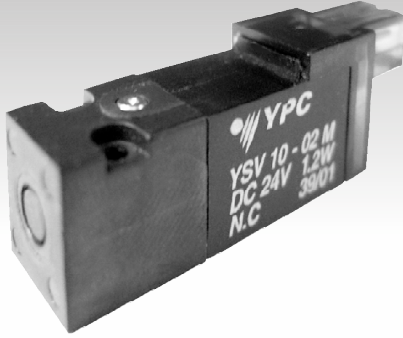
Teknik Çizimler / Technical Drawings



Tip / Parça Type / Item	A	B	C	E	F	G	H	I	J	K	L															
											1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M □F	58	43.2	20	4.5	18.3	19	5	10	28.2	139.4	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
200M □F	61	50.7	21	4.5	22.4	23	6	12	31.7	170	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
300M □F	75	64.8	26	4.5	27.3	27	6	13.5	40	188.8	54	82	110	138	166	194	222	250	278	306	334	362	-	-	-	-
400M □F	104	94.5	32	5.5	34.3	31.5	7	14.5	57	221.8	63	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-

Tip / Parça Type / Item	M	P																Q	R	S	T	U	V	W	X	Y
		1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F									
100M □F	154.5	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313	G1/4	40	30	29	14	9	79	25	27
200M □F	189	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379	G1/4	43	32	30.5	14.5	9	93	26	35
300M □F	208	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	G3/8	53	48	37.5	13.5	11	99.5	30	40
400M □F	243	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	G1/2	68	67	52	18.5	18	112.5	38	50

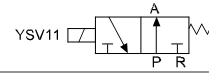
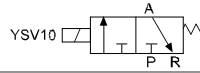
YSV 10 Serisi / YSV 10 Series



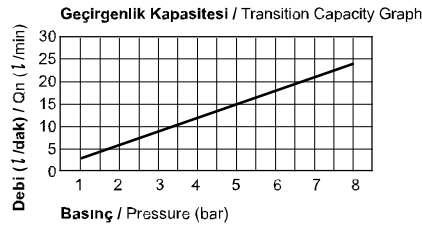
Özellikler / Specification

Model / Model	YSV10	YSV11
Akışkan / Fluid	40µm Filtrelenmiş Hava / Air (to be by 40µm Filter Element)	
Çalışma Basıncı / Operating Pressure	0 ~ 8.0 bar	0 ~ 6.0 bar
Orifis Çapı / Orifice Size	P = Ø 0.8, R = Ø 0.8	P = Ø 0.6, R = Ø 0.8
Sıcaklık / Temperature (C°)	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	20 ms yada daha az / 20 ms or less	
Max. Çalışma Frekansı / Max. Frequency	10 çevrim/sn / 10 cycle/sec	
Yağlama / Lubrication	Gerektirmez / Not Required	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	±10% Voltaj Oranında / ± 10% of Rated Voltage	
Güç Tüketimi / Power Consumption	1.2W (50mA)	

Sembol / Symbol



Akış Diyagramı / Flow Chart

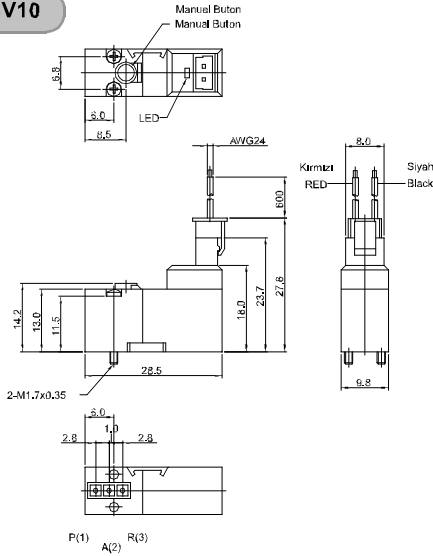


Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Yay / Spring	Paslanmaz / Stainless
Keçeler / Seals	NBR
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Belirteç / Indicator Cap	Polikarbonat / Polycarbonate

Teknik Çizimler / Technical Drawings

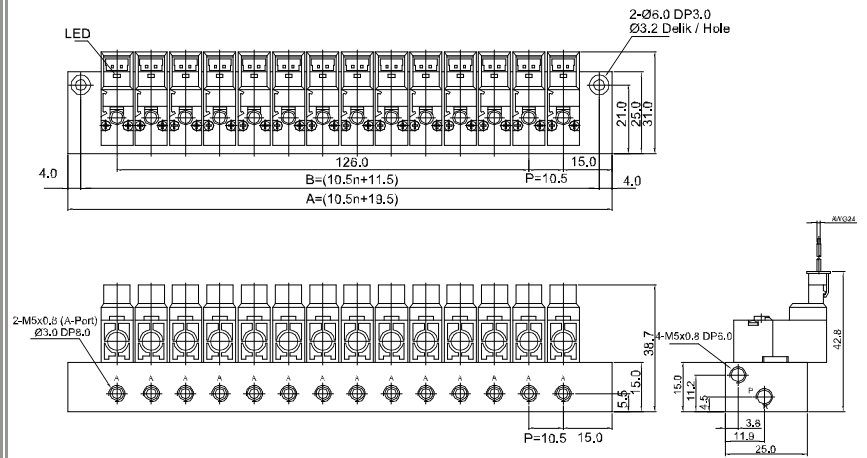
YSV10



Klipsli Fiş Soket / Plug Connector With Clip

PG2 - 06	L : 600 mm
PG2 - 10	L : 1000 mm

YMF10



Körleme Plakası / Blanking Plate

YMF 10 - BLK

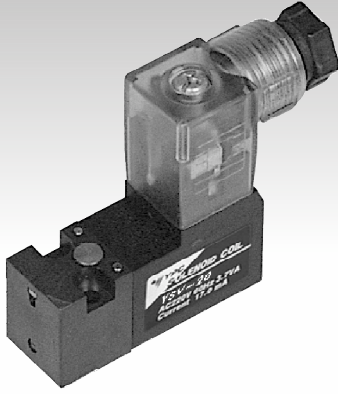
Manifold Bloğu / Manifold Block

YMF 10	2
Sembol / Symbol	İstasyon / Station
YMF 10 (3 yol / way)	02, 04, 06, 08, 10, 12, 14

Sipariş Kodu / Ordering Code

YSV1	0	D	P	L	D4
Valf Serisi / Valve Series	Fonksiyon / Function	Pilot Kaynağı / Pilot Source	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Voltaj / Voltage
YSV1: Selenoid Valf / YSV1: Solenoid Valve	0: 3/2 Normalde Kapalı Yay Dönüşümü / 0: 3/2 Normally Closed Spring Return	D: Direkt Kontrollü / D: Direct Operated	P: Yaylı Kilitsiz / P: Push Non-Locking	L: 90 Derece Fişli Kablo Ledli / L: 90 Degree Plug-in Wire Assembly With LED	D4: DC 24V
	1: 3/2 Normalde Açık Yay Dönüşümü / 1: 3/2 Normally Open Spring Return			M: 180 Derece Fişli Kablo Ledli / M: 180 Degree Plug-in Wire Assembly With LED	D2: DC 12V

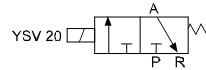
YSV 20 Serisi / YSV 20 Series



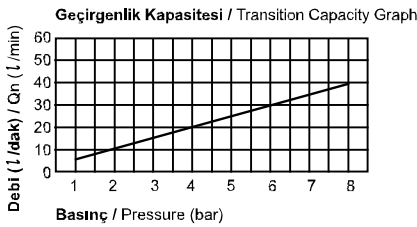
Özellikler / Specification

Model / Model	YSV20
Akışkan / Fluid	40µm Filtrelenmiş Hava / Air (to be by 40µm Filter Element)
Çalışma Basıncı / Operating Pressure	0 ~ 8,0 bar
Orifis Çapı / Orifice Size (mm)	P = Ø 1.1, R = Ø 1.5
Sıcaklık / Temperature (C°)	5 ~ 60 °C / 41 ~ 140 °F
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	20 ms yada daha az / 20 ms or less
Max. Çalışma Frekansı / Max. Frequency	10 çevrim/sn / 10 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required
Yalıtım / Insulation	F Sınıfı / F Class
Voltaj Aralığı / Voltage Range	±10% Voltaj Oranında / ± 10% of Rated Voltage
Güç Tüketimi / Power Consumption	AC: 3.5VA (60Hz) / DC: 2.5W

Sembol / Symbol



Akış Diyagramı / Flow Chart

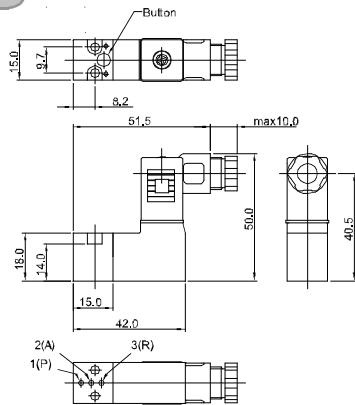


Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Yay / Spring	Paslanmaz / Stainless
Keçeler / Seals	NBR
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Belirteç / Indicator Cap	Polikarbonat / Polycarbonate
Kablo / Lead Wire	AWG-no.24
Kablo Kumandası / Lead Wire Packing	Viton / Viton

Teknik Çizimler / Technical Drawings

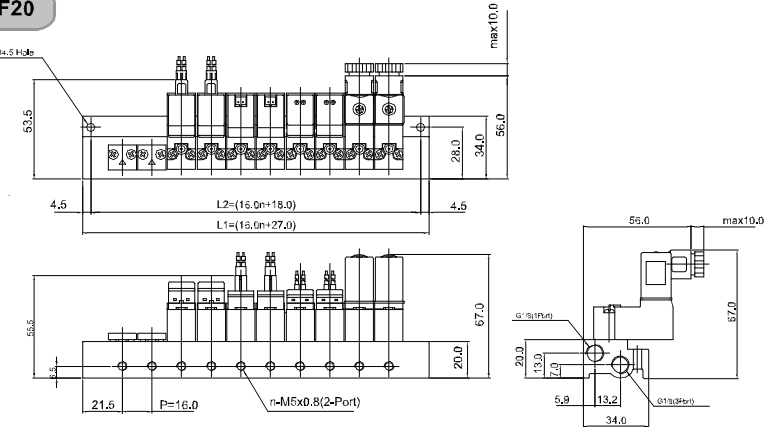
YSV20



Klipsli Fiş Soket / Plug Connector With Clip

PG2 - 06	L : 600 mm
PG2 - 10	L : 1000 mm

YMF20



Körleme Plakası / Blanking Plate

YMF 20 - BLK

Manifold Bloğu / Manifold Block

YMF 20	2
Sembol / Symbol	İstasyon / Station
YMF 20 (3 yol / way)	02, 04, 06, 08, 10, 12, 14

Sipariş Kodu / Ordering Code

YSV2	0	D	P	SC	CN1	A2
Valf Serisi Valve Series	Fonksiyon Function	Pilot Kaynağı Pilot Source	Manuel Çalıştırma Manuel Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
YSV2: Selenoid Valf YSV2: Solenoid Valve	0: 3/2 Normalde Kapalı Yay Dönüşümü 0: 3/2 Normally Closed Spring Return	D: Direkt Kontrollü D: Direct Operated	P: Yaylı Kilitsiz P: Push Non-Locking	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
				SC: 3'lü Bağlantı SC: 3 Pin Connector Coil		
				SG: Kauçuk Rondelalı SG: Grommet / Flying Leads	CN1: Normal Soket CN1: Normal Connector	A2: AC 220V
				SD: Kauçuk Rondelalı ve LED'li SD: Grommet / Flying Leads With LED		
				SL: 90 Derece Fişli Kablo LED'li SL: 90 Degree Plug-in Wire Assembly LED	CD1: Soket LED'li CD1: Connector With LED	A1: AC 110V
				SM: 180 Derece Fişli Kablo LED'li SM: 180 Degree Plug-in Wire Assembly LED		
					CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor	D4: DC 24V D2: DC 12V

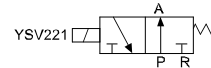
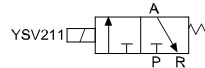
YSV 200 Serisi / YSV 200 Series



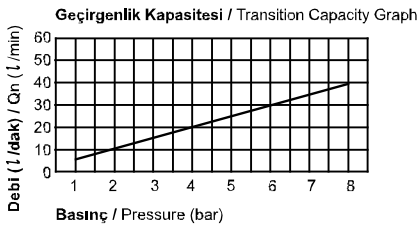
Özellikler / Specification

Model / Model	YSV211	YSV221
Akışkan / Fluid	40µm Filtrelenmiş Hava / Air (to be by 40µm Filter Element)	
Çalışma Basıncı / Operating Pressure	0 ~ 10.0 bar	
Orifis Çapı / Orifice Size (mm)	P = Ø 1.1, R = Ø 1.2	P = Ø 1.2, R = Ø 1.1
Sıcaklık / Temperature (°C)	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	20 ms yada daha az / 20 ms or less	
Max. Çalışma Frekansı / Max. Frequency	8 çevrim/sn / 8 cycle/sec	
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	±10% Voltaj Oranında / ± 10% of Rated Voltage	
Güç Tüketimi / Power Consumption	AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart

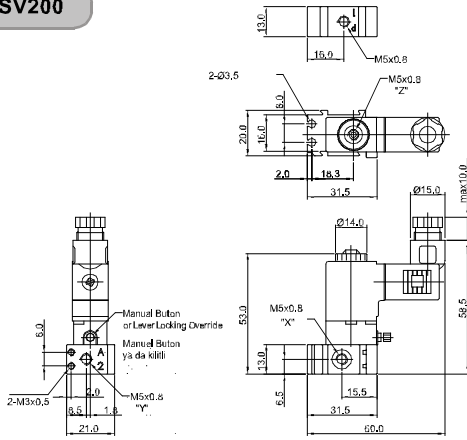


Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Yay / Spring	Paslanmaz / Stainless
Keçeler / Seals	NBR
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Belirteç / Indicator	Polikarbonat / Polycarbonate
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Keçeler / Seals	NBR

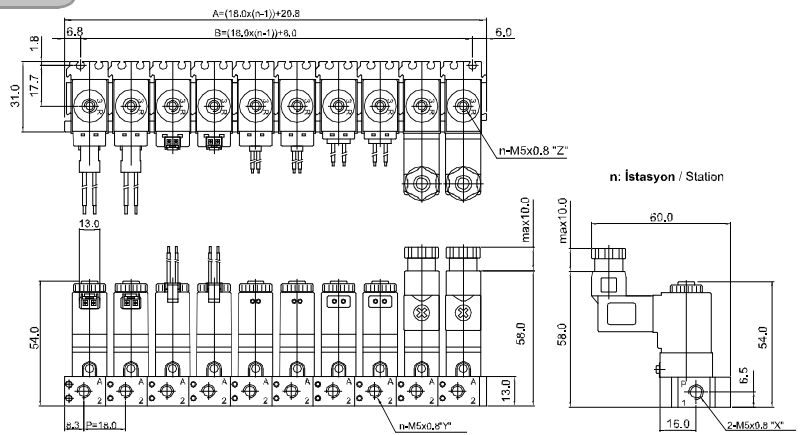
Teknik Çizimler / Technical Drawings

YSV200



Giriş / Tip Port / Type	N.C	N.O
X	P(1)	R(3)
Y	A(2)	A(2)
Z	R(3)	P(1)

YMF200



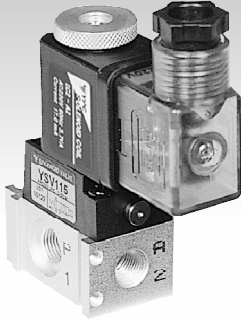
A, B: Ölçüleri / A, B: Dimensions

Parça / İstasyon Item / Station	2	3	4	5	6	7	8	9	10
A	38.8	56.8	74.8	92.8	110.8	128.8	146.8	164.8	182.8
B	26.0	44.0	62.0	80.0	98.0	116.0	134.0	170.0	170.0

Sipariş Kodu / Ordering Code

YSV2	1	1	D	P	SC1	CN1	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Bağlantı Ölç. & Diş Tipi / Port Size & Thread	Pilot Kaynağı / Pilot Source	Manuel Çalıştırma / Manual Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
YSV2: Selenoid Valf YSV2: Solenoid Valve	1: 3/2 Normalde Kapalı Yay Dönüşümü 2: 3/2 Normally Closed Spring Return	1: M5-0.8	D: Direkt Kontrollü D: Direct Operated	P: Yaylı Kilitsiz P: Push Non-Locking	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
					SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		CN1: Normal Soket CN1: Normal Connector
	2: 3/2 Normalde Açık Yay Dönüşümü 2: 3/2 Normally Open Spring Return	2: 10-32 UNF		L: Yaylı Kilitli L: Lever Locking	SG1: Kauçuk Rondelali SG1: Grommet / Flying Leads	CD1: Soket LED'li CD1: Connector With LED	D4: DC 24V
					SD1: Kauçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED		

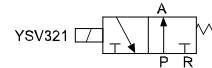
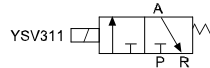
YSV 300 Serisi / YSV 300 Series



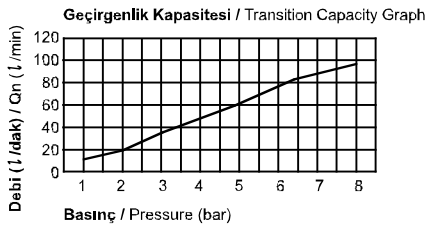
Özellikler / Specification

Model / Model	YSV311	YSV321
Akışkan / Fluid	40µm Filtrelenmiş Hava / Air (to be by 40µm Filter Element)	
Çalışma Basıncı / Operating Pressure	0 ~ 10.0 bar	
Orifis Çapı / Orifice Size	P = Ø 1.5, R = Ø 1.5	P = Ø 1.5, R = Ø 1.5
Sıcaklık / Temperature (C°)	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	20 ms yada daha az / 20 ms or less	
Max. Çalışma Frekansı / Max. Frequency	8 çevrim/sn / 8 cycle/sec	
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	±10% Voltaj Oranında / ± 10% of Rated Voltage	
Güç Tüketimi / Power Consumption	AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart

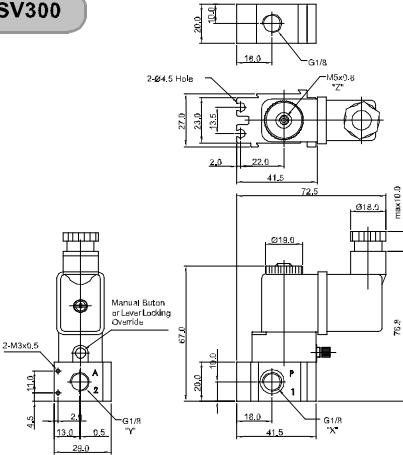


Parçaların Malzemeleri / Material of Parts

Parça / İtem	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum / Aluminium
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Pilot Plaka / Pilot Plate	Basıncılı Çinko Kokil Döküm / Zinc Pressure Die-Cast
Yay / Spring	Paslanmaz / Stainless
Keçeler / Seals	NBR
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

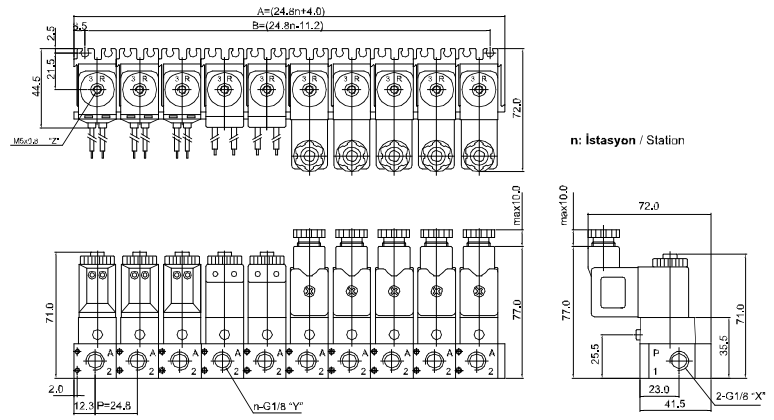
Teknik Çizimler / Technical Drawings

YSV300



Giriş / Tip Port / Type	N.C	N.O
X	P(1)	R(3)
Y	A(2)	A(2)
Z	R(3)	P(1)

YMF300

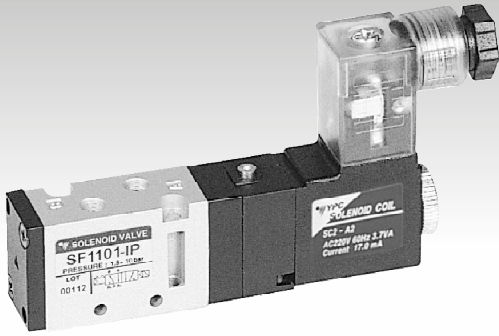


A, B: Ölçüleri / A, B: Dimensions

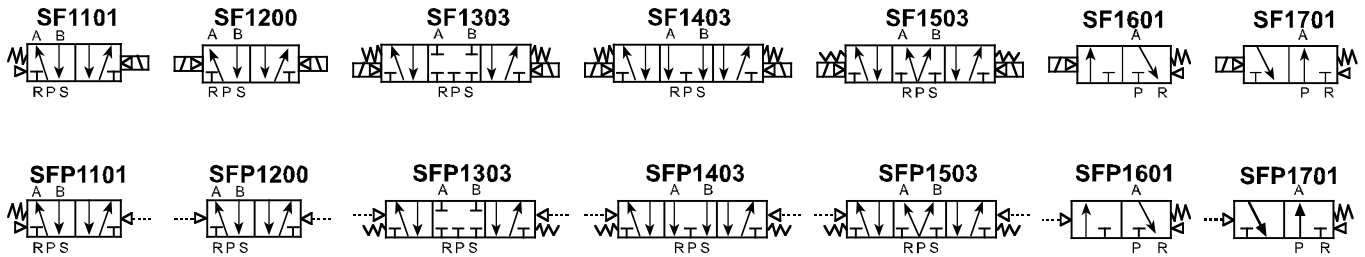
Parça / İstasyon Item / Station	2	3	4	5	6	7	8	9	10
A	53.6	78.4	103.2	128.0	152.8	177.6	202.4	227.2	252.0
B	38.4	63.2	88.0	112.8	137.6	162.4	187.2	212.0	236.8

Sipariş Kodu / Ordering Code

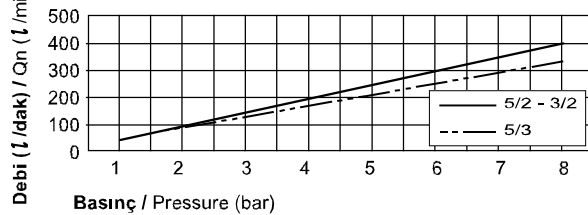
YSV3	1	1	D	P	SC1	CN1	A2
Valf Serisi Valve Series	Fonksiyon Function	Bağlantı Ölç. & Diş Tipi Port Size & Thread	Pilot Kaynağı Pilot Source	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
YSV3: Selenoid Valf YSV3: Solenoid Valve	1: 3/2 Normalde Kapalı Yay Dönüşümlü 2: 3/2 Normally Closed Spring Return	1: G 1/8	D: Direkt Kontrollü D: Direct Operated	P: Yaylı Kilitsiz P: Push Non-Locking	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
					SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	CN2: Normal Soket CN2: Normal Connector	A2: AC 220V
	2: 3/2 Normalde Açık Yay Dönüşümlü 2: 3/2 Normally Open Spring Return	2: NPT 1/8		L: Yaylı Kilitli L: Lever Locking	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A4: AC 24V
					SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	D4: DC 24V D2: DC 12V

SF1000 Serisi Selenoid & Hava Kum. Valfler / SF1000 Series Solenoid & Pneu. Actuated Valves

Özellikler / Specification

Model / Model	3, 5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	3.6	3.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleme Zamanı(s) / Min. Activating Time(sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC:3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Geçirgenlik Kapasitesi / Transition Capacity Graph


Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kökil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

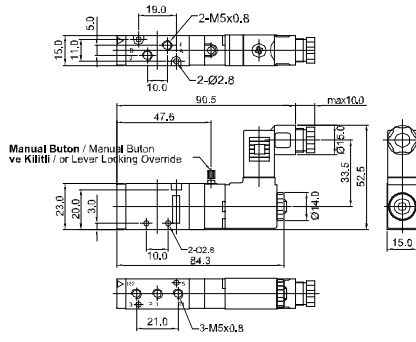
Sipariş Kodu / Ordering Code

SF1	1	0	1	I	P	SC1	CN1	A2
Valf Serisi Valve Series	Fonksiyon Function	Bağlantı Ölç. & Diş Tipi Port Size & Thread	Geri Dönme Yöntemi Return Method	Pilot Tipi Int. / Ext. Pilot	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SF1: Selenoid Valf SF1: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: M5x 0.8	0: Yok 0: None	1: İçten Pilot 1: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring			SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		
SFP1: Pnömatik Valf SFP1: Pneumatic Valve	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: 10-32 UNF	2: Hava 2: Air	P: Yaylı Kilitsiz P: Push Non-Locking	L: Kilitleli L: Lever Locking	SG1: Kauçuk Rondelali SG1: Grommet / Flying Leads	CN1: Normal Soket CN1: Normal Connector	A1: AC 110V
	4: 5/3 Açık Merkez 4: 5/3 Open Center					SD1: Kauçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED		
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center					6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed	7: 3/2 Normalde Açık 7: 3/2 Normally Open	SL1: 90 Derece Fiş Giriş Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly With LED

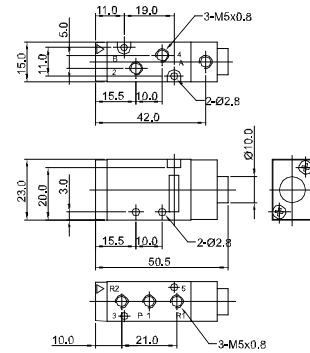
SF1000 Serisi Solenoid & Hava Kum. Valfler / SF1000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

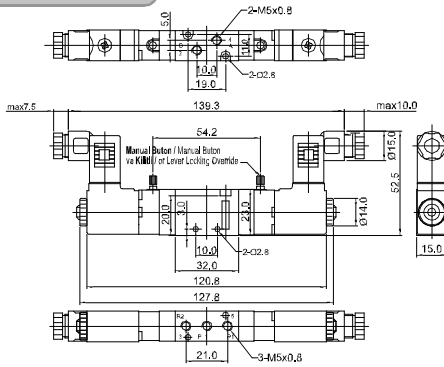
5/2 Solenoid / Solenoid



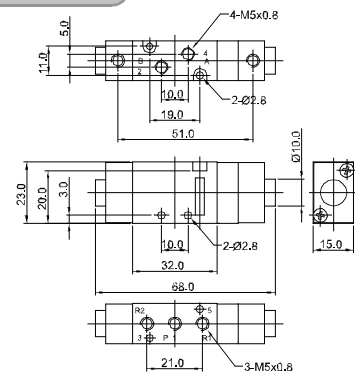
5/2 Pnömatik / Pneumatic



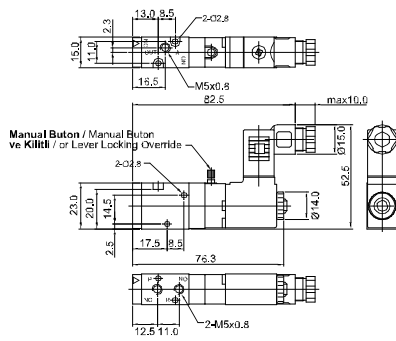
5/3 Solenoid / Solenoid



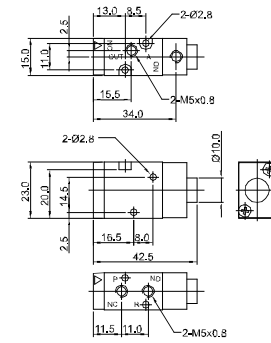
5/3 Pnömatik / Pneumatic



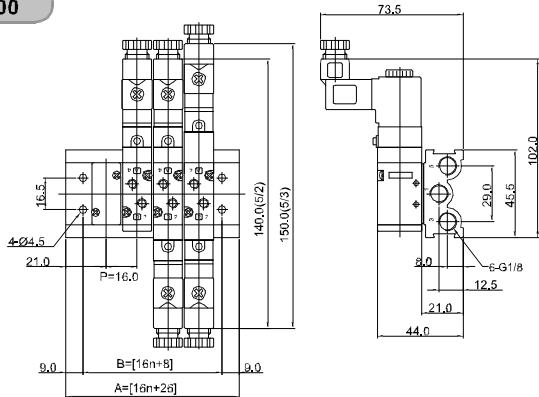
3/2 Solenoid / Solenoid



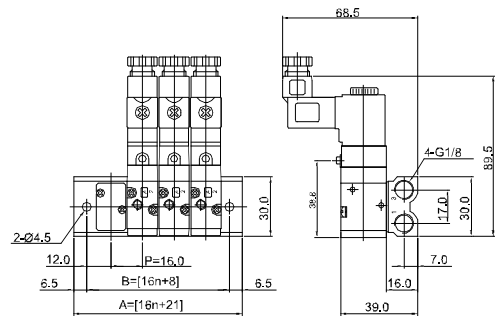
3/2 Pnömatik / Pneumatic



MF 1500



MF 1300



5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

Manifold Bloğu / Manifold Block

Parça / İstasyon Item / Station	2	4	6	8	10
B	40.0	72.0	104.0	136.0	168.0
A	48.0	80.0	122.0	144.0	176.0

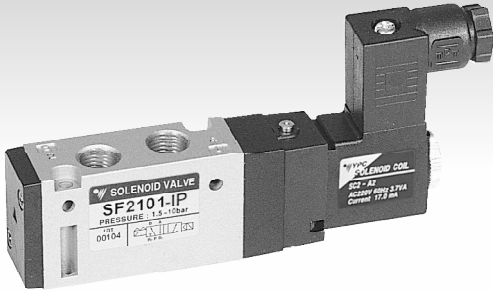
MF1500	2
Sembol / Symbol	İstasyon / Station
MF1500 (5 yol / way)	02, 04, 06, 08, 10

3 Yol Manifold Bloğu Ölçüleri
3 Port Manifold Block Dimensions

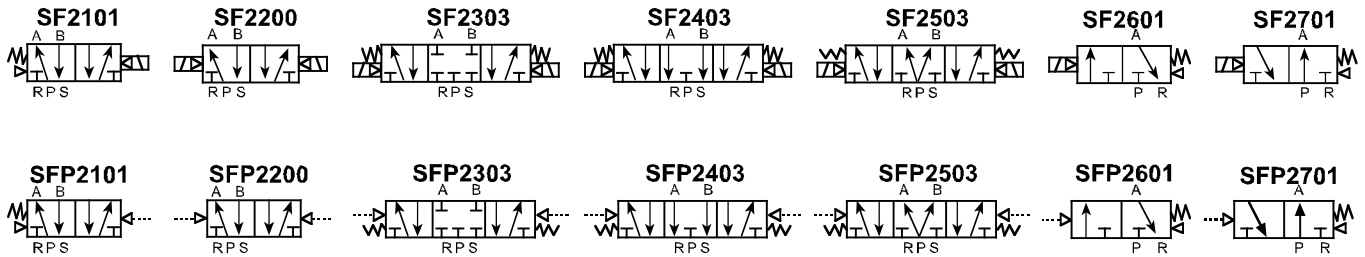
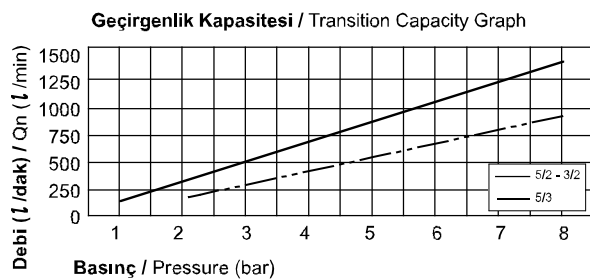
Manifold Bloğu / Manifold Block

Parça / İstasyon Item / Station	2	4	6	8	10
B	40.0	72.0	104.0	136.0	168.0
A	53.0	85.0	117.0	149.0	181.0

MF1300	2
Sembol / Symbol	İstasyon / Station
MF1300 (3 yol / way)	02, 04, 06, 08, 10

SF2000 Serisi Selenoid & Hava Kum. Valfler / SF2000 Series Solenoid & Pneu. Actuated Valves

Özellikler / Specification

Model / Model	3, 5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm²) - 5 bar	12.6	9.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

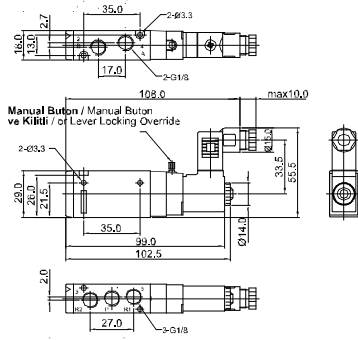
Sipariş Kodu / Ordering Code

SF2	1	0	1	I	P	SC1	CN1	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Bağlantı Ölç. & Diş Tipi / Port Size & Thread	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manual Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SF2: Selenoid Valf / SF2: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: G 1/8"	0: Yok 0: None	1: İçten Pilot 1: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring			SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		
SFP2: Pnömatik Valf / SFP2: Pneumatic Valve	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: NPT 1/8"	2: Hava 2: Air	L: Kilitli L: Lever Locking	P: Yaylı Kilitli P: Push Non-Locking	SG1: Kaçuk Rondelalı SG1: Grommet / Flying Leads	CN1: Normal Soket CN1: Normal Connector	A2: AC 220V
	4: 5/3 Açık Merkez 4: 5/3 Open Center					SD1: Kaçuk Rondelalı ve LED'li SD1: Grommet / Flying Leads With LED		
	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center					6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed	7: 3/2 Normalde Açık 7: 3/2 Normally Open	3: Yay 3: Spring
							CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor	D2: DC 12V

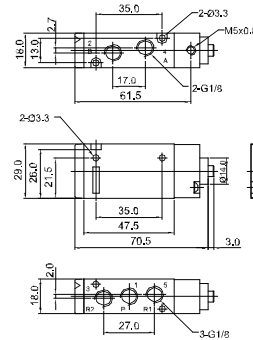
SF2000 Serisi Solenoid & Hava Kum. Valfler / SF2000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

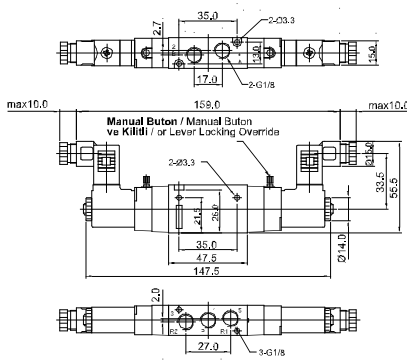
5/2 Solenoid / Solenoid



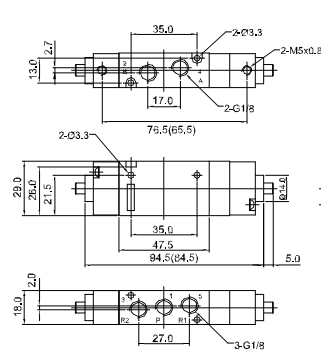
5/2 Pnömatik / Pneumatic



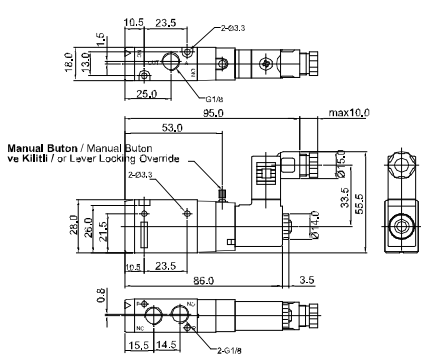
5/3 Solenoid / Solenoid



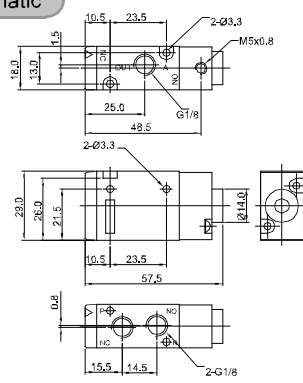
5/3 Pnömatik / Pneumatic



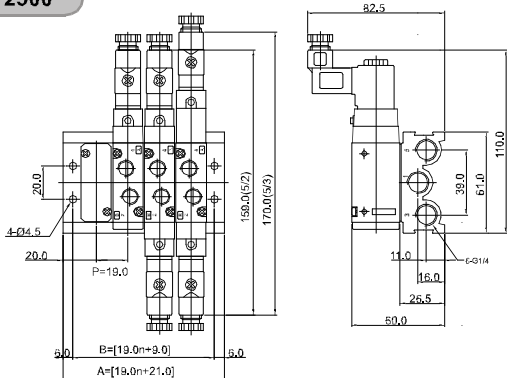
3/2 Solenoid / Solenoid



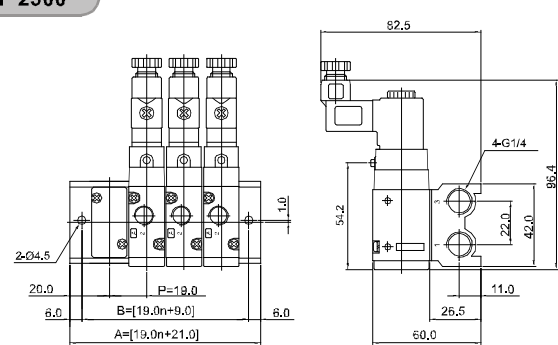
3/2 Pnömatik / Pneumatic



MF 2500



MF 2300



5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

Manifold Bloğu / Manifold Block

Parça / İstasyon Item / Station	2	4	6	8	10
B	47.0	85.0	123.0	161.0	199.0
A	59.0	97.0	135.0	173.0	211.0

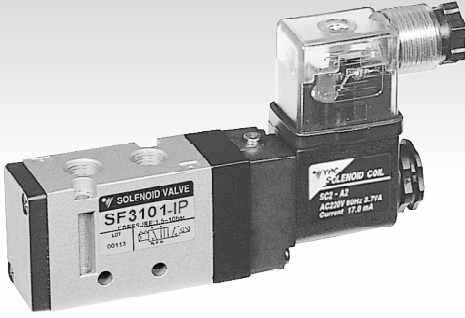
MF2500	2
Sembol / Symbol	İstasyon / Station
MF2500 (5 yol / way)	02, 04, 06, 08, 10

3 Yol Manifold Bloğu Ölçüleri
3 Port Manifold Block Dimensions

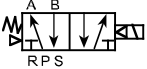
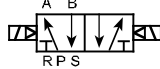
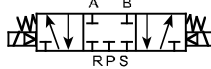
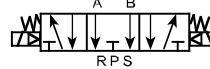
Manifold Bloğu / Manifold Block

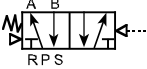
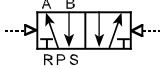
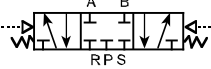
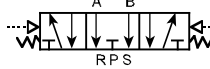
Parça / İstasyon Item / Station	2	4	6	8	10
B	47.0	85.0	123.0	161.0	199.0
A	59.0	97.0	135.0	173.0	211.0

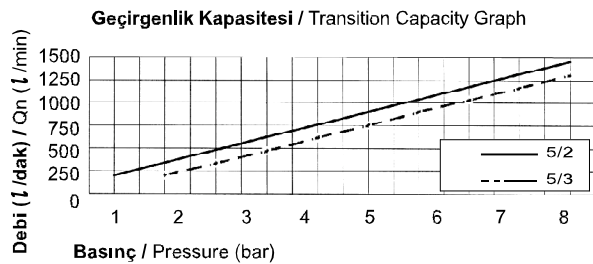
MF2300	2
Sembol / Symbol	İstasyon / Station
MF2300 (3 yol / way)	02, 04, 06, 08, 10

SF3000 Serisi Selenoid & Hava Kum. Valfler / SF3000 Series Solenoid & Pneu. Actuated Valves

Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm²) - 5 bar	13.5	11.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı(s) / Min. Activating Time(sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 5 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC:5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol
SF3101

SF3200

SF3303

SF3403

SF3503

SFP3101

SFP3200

SFP3303

SFP3403

SFP3503

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

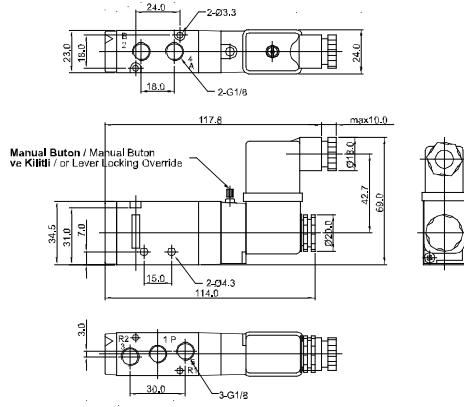
Sipariş Kodu / Ordering Code

SF3	1	0	1	I	P	SC2	CN2	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Bağlantı Ölç. & Diş Tipi / Port Size & Thread	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SF3: Selenoid Valf SF3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: G 1/8"	0: Yok 0: None	1: İçten Pilot 1: Internal Pilot	P: Yaylı Kilitli P: Push Non-Locking	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring					A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center		2: Hava 2: Air					A1: AC 110V
SFP3: Pnömatik Valf SFP3: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	1: NPT 1/8"	2: Hava 2: Air	L: Kilitli L: Lever Locking	L: Kilitli L: Lever Locking	SG2: Kaçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A4: AC 24V
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center		3: Yay 3: Spring					D4: DC 24V
								D2: DC 12V

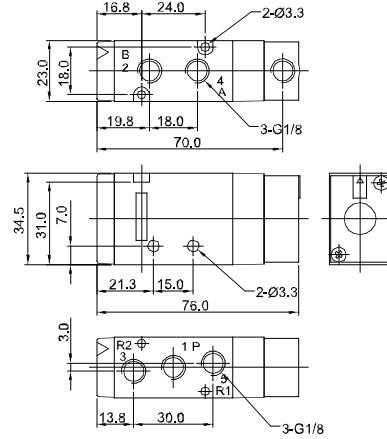
SF3000 Serisi Solenoid & Hava Kum. Valfler / SF3000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

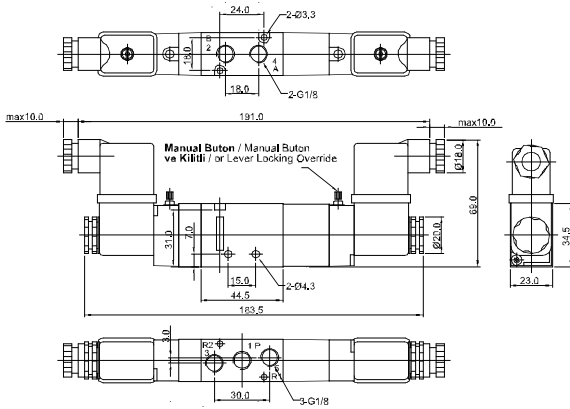
5/2 Solenoid / Solenoid



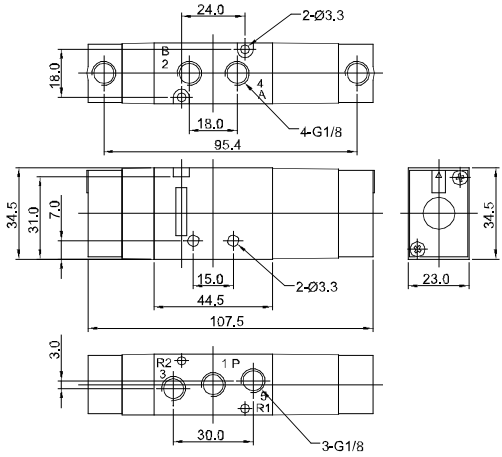
5/2 Pnömatik / Pneumatic



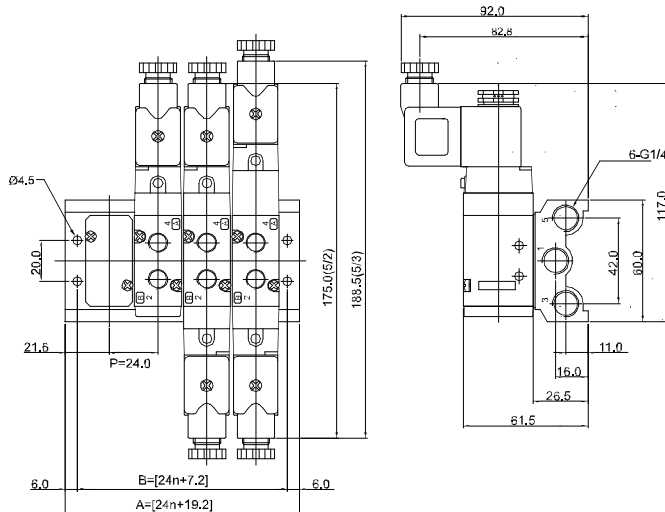
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



MF 3500

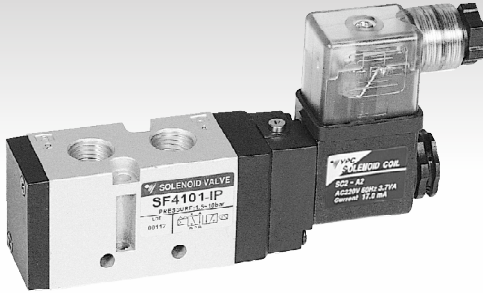


5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

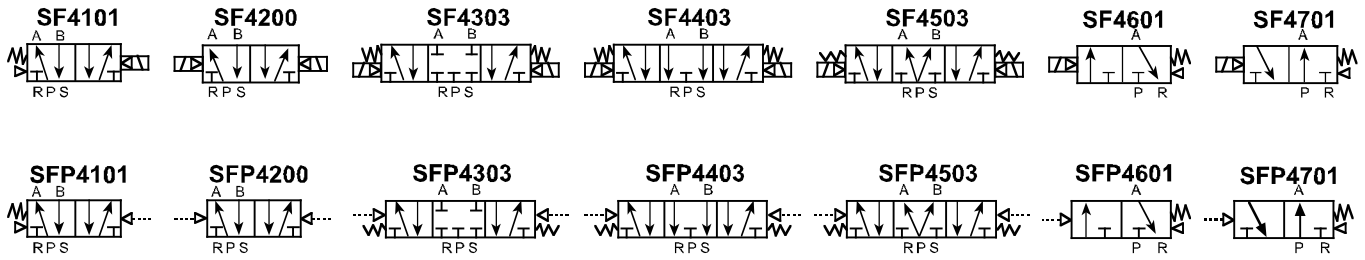
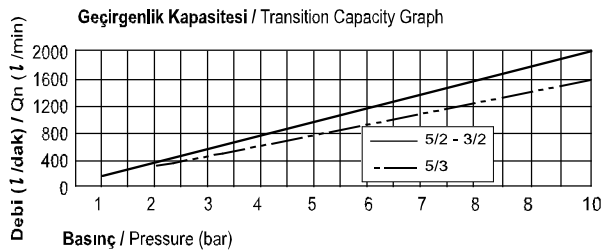
Parça / İstasyon Item / Station	2	4	6	8	10
B	55.2	103.2	151.2	199.2	247.2
A	67.2	115.2	163.2	211.2	259.2

Manifold Bloğu / Manifold Block

MF3500	2
Sembol / Symbol	İstasyon / Station
MF3500 (5 yol / way)	02, 04, 06, 08, 10

SF4000 Serisi Selenoid & Hava Kum. Valfler / SF4000 Series Solenoid & Pneu. Actuated Valves

Özellikler / Specification

Model / Model	3, 5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	19.0	11.5
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

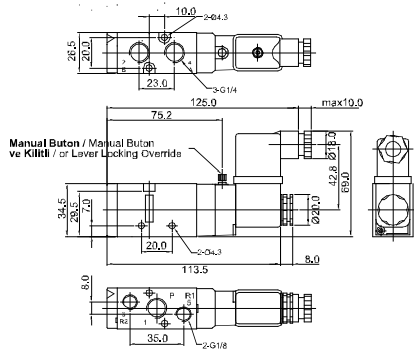
Sipariş Kodu / Ordering Code

SF4	1	0	1	I	P	SC2	CN2	A2
Valf Serisi Valve Series	Fonksiyon Function	Bağlantı Ölç. & Diş Tipi Port Size & Thread	Geri Dönme Yöntemi Return Method	Pilot Tipi Int. / Ext. Pilot	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SF4: Selenoid Valf SF4: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: G 1/4"	0: Yok 0: None	1: İçten Pilot 1: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring		P: Yaylı Kilitli P: Push Non-Locking	SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	CN2: Normal Soket CN2: Normal Connector	A2: AC 220V A1: AC 110V
SFP4: Pnömatik Valf SFP4: Pneumatic Valve	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: NPT 1/4"	2: Hava 2: Air	L: Kilitli L: Lever Locking	L: Kilitli L: Lever Locking	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A4: AC 24V D4: DC 24V
	4: 5/3 Açık Merkez 4: 5/3 Open Center		3: Yay 3: Spring			SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	D2: DC 12V
	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center		6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			7: 3/2 Normalde Açık 7: 3/2 Normally Open		

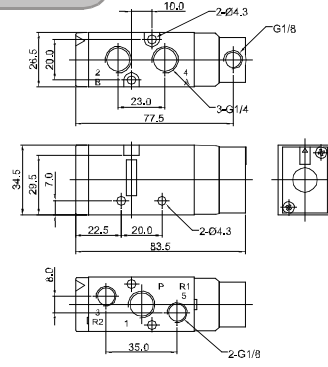
SF4000 Serisi Solenoid & Hava Kum. Valfler / SF4000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

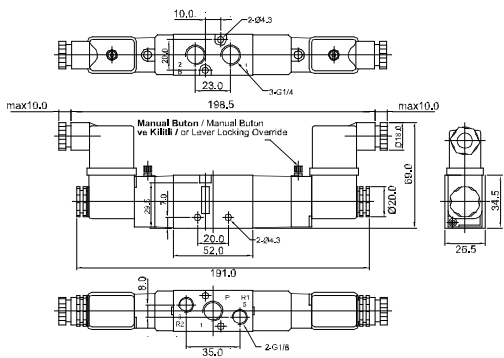
5/2 Solenoid / Solenoid



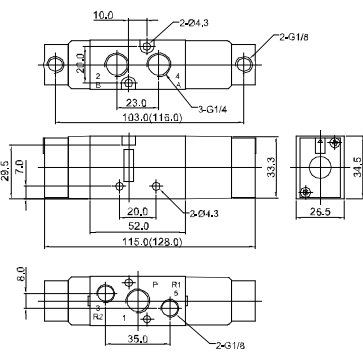
5/2 Pnömatik / Pneumatic



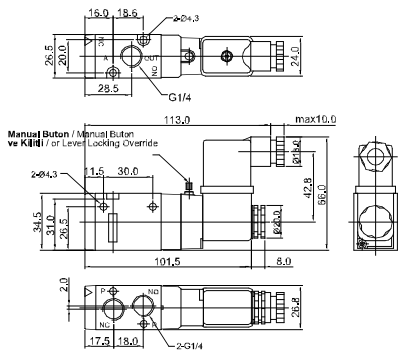
5/3 Solenoid / Solenoid



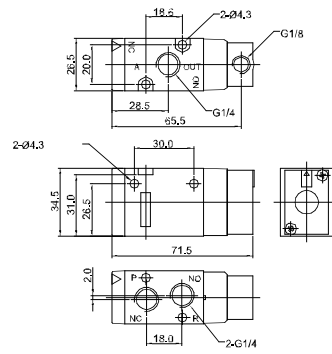
5/3 Pnömatik / Pneumatic



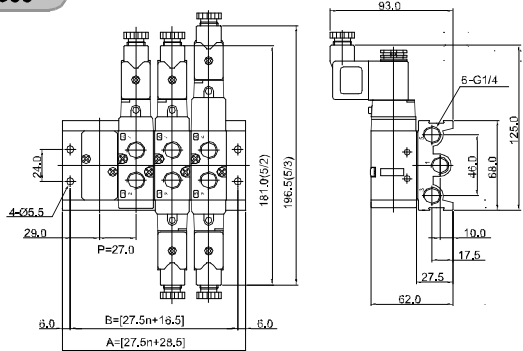
3/2 Solenoid / Solenoid



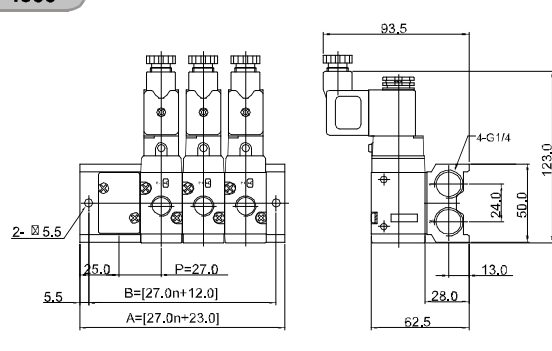
3/2 Pnömatik / Pneumatic



MF 4500



MF 4300



5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

Manifold Bloğu / Manifold Block

Parça / İstasyon Item / Station	2	4	6	8	10
B	71.5	126.5	181.5	236.5	291.5
A	83.5	138.5	193.5	248.5	303.5

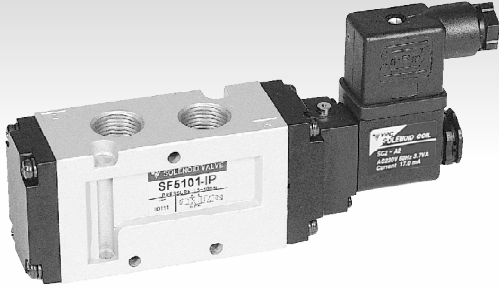
MF4500	2
Sembol / Symbol	İstasyon / Station
MF4500 (5 yol / way)	02, 04, 06, 08, 10

3 Yol Manifold Bloğu Ölçüleri
3 Port Manifold Block Dimensions

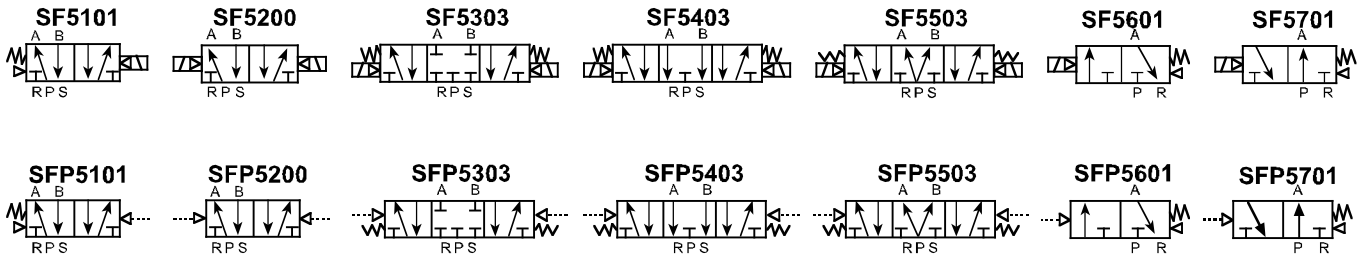
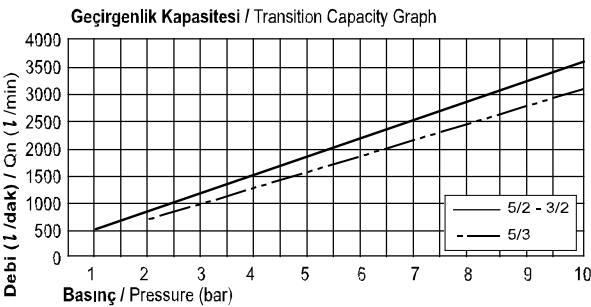
Manifold Bloğu / Manifold Block

Parça / İstasyon Item / Station	2	4	6	8	10
B	66.0	120.0	174.0	228.0	282.0
A	77.0	131.0	185.0	239.0	293.0

MF4300	2
Sembol / Symbol	İstasyon / Station
MF4300 (3 yol / way)	02, 04, 06, 08, 10

SF5000 Serisi Selenoid & Hava Kum. Valfler / SF5000 Series Solenoid & Pneu. Actuated Valves

Özellikler / Specification

Model / Model	3, 5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	36.0	30.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleme Zamanı (sn) / Min. Activating Time (sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

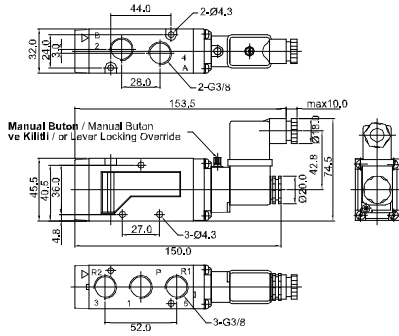
Sipariş Kodu / Ordering Code

SF5	1	0	1	I	P	SC2	CN2	A2
Valf Serisi Valve Series	Fonksiyon Function	Barlantı Ölç. & Di* Tipi Port Size & Thread	Geri Dönme Yöntemi Return Method	Pilot Tipi Int. / Ext. Pilot	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SF5: Selenoid Valf SF5: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single 2: 5/2 Çift 2: 5/2 Double 3: 5/3 Kapalı Merkez 3: 5/3 Closed Center 4: 5/3 Açık Merkez 4: 5/3 Open Center	0: G 3/8"	0: Yok 0: None 1: Hava + Yay 1: Air + Spring	1: İçten Pilot 1: Internal Pilot	0: Yok 0: None P: Yaylı Kilitsiz P: Push Non-Locking	0: Yok 0: None SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil SG2: Kaçuk Rondelali SG2: Grommet / Flying Leads	0: Yok 0: None CN2: Normal Soket CN2: Normal Connector CD2: Soket LED'li CD2: Connector With LED	0: Yok 0: None A2: AC 220V A1: AC 110V A4: AC 24V D4: DC 24V D2: DC 12V
SFP5: Pnömatik Valf SFP5: Pneumatic Valve	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center 6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed 7: 3/2 Normalde Açık 7: 3/2 Normally Open	1: NPT 3/8"	2: Hava 2: Air 3: Yay 3: Spring		L: Kilitleli L: Lever Locking	SD2: Kaçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	

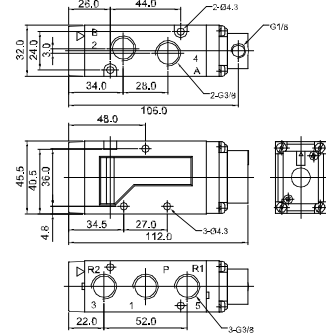
SF5000 Serisi Solenoid & Hava Kum. Valfler / SF5000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

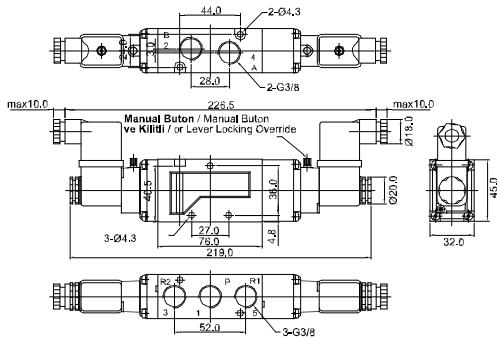
5/2 Solenoid / Solenoid



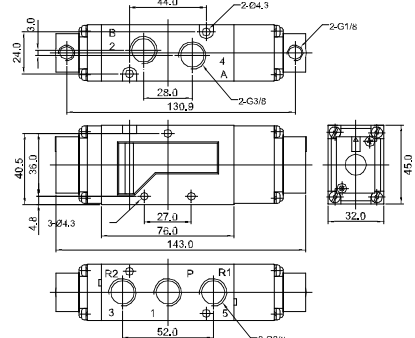
5/2 Pnömatik / Pneumatic



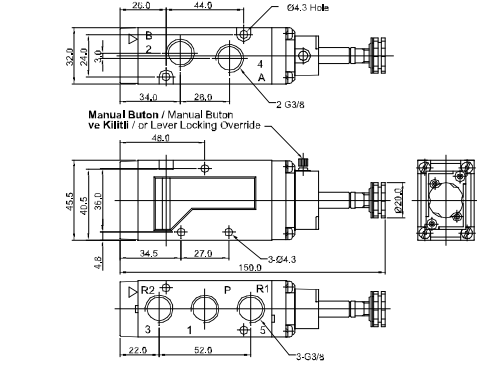
5/3 Solenoid / Solenoid



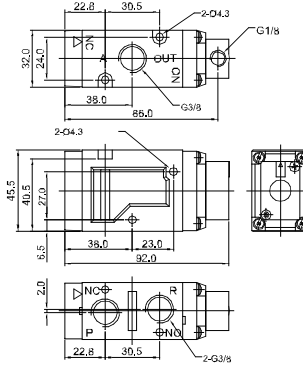
5/3 Pnömatik / Pneumatic



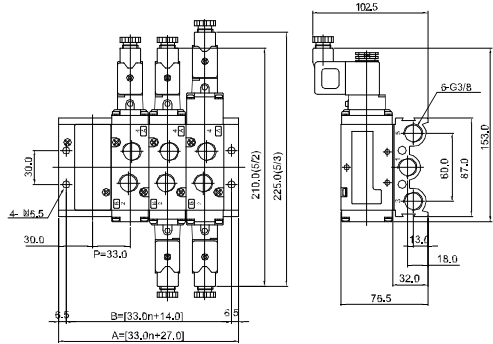
3/2 Solenoid / Solenoid



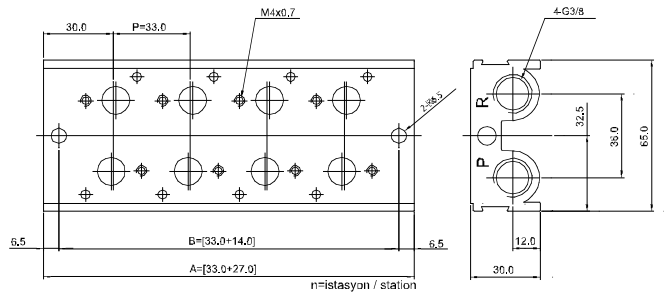
3/2 Pnömatik / Pneumatic



MF 5500



MF 5300



5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

Parça / İstasyon Item / Station	2	4	6	8	10
B	80.0	146.0	212.0	278.0	344.0
A	93.0	159.0	255.0	291.0	357.0

Manifold Bloğu / Manifold Block

MF5500	2
Sembol / Symbol	İstasyon / Station
MF5500 (5 yol / way)	02, 04, 06, 08, 10

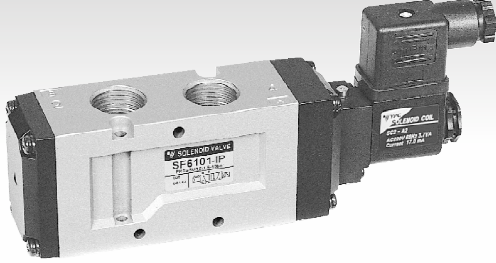
3 Yol Manifold Bloğu Ölçüleri
3 Port Manifold Block Dimensions

Parça / İstasyon Item / Station	2	4	6	8	10
B	80.0	146.0	212.0	278.0	344.0
A	93.0	159.0	255.0	291.0	357.0

Manifold Bloğu / Manifold Block

MF5300	2
Sembol / Symbol	İstasyon / Station
MF5300 (3 yol / way)	02, 04, 06, 08, 10

SF6000 Serisi Selenoid & Hava Kum. Valfler / SF6000 Series Solenoid & Pneu. Actuated Valves

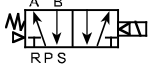


Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	65.0	50.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleme Zamanı (sn) / Min. Activating Time (sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	2 çevrim/sn / 2 cycle/sec	1 çevrim/sn / 1 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

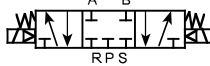
SF6101



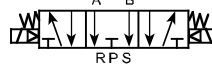
SF6200



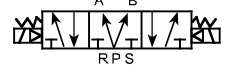
SF6303



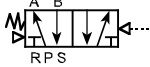
SF6403



SF6503



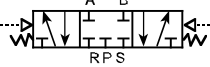
SFP6101



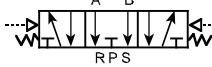
SFP6200



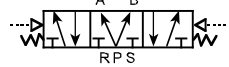
SFP6303



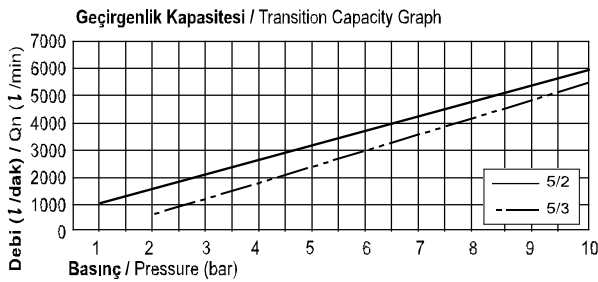
SFP6403



SFP6503



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

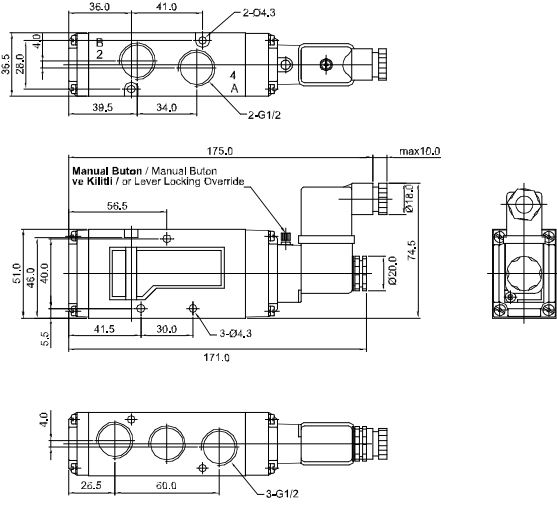
Sipariş Kodu / Ordering Code

SF6	1	0	1	I	P	SC2	CN2	A2
Valf Serisi Valve Series	Fonksiyon Function	Bağlantı Ölç. & Diş Tipi Port Size & Thread	Geri Dönme Yöntemi Return Method	Pilot Tipi Int. / Ext. Pilot	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SF6: Selenoid Valf SF6: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single 2: 5/2 Çift 2: 5/2 Double	0: G 1/2"	0: Yok 0: None 1: Hava + Yay 1: Air + Spring	1: İçten Pilot 1: Internal Pilot	0: Yok 0: None P: Yaylı Kilitsiz P: Push Non-Locking	0: Yok 0: None SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	0: Yok 0: None CN2: Normal Soket CN2: Normal Connector	0: Yok 0: None A2: AC 220V A1: AC 110V
SFP6: Pnömatik Valf SFP6: Pneumatic Valve	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center 4: 5/3 Açık Merkez 4: 5/3 Open Center 5: 5/3 Basınç Merkez 5: 5/3 Pressure Center	1: NPT 1/2"	2: Hava 2: Air 3: Yay 3: Spring	L: Kilitli L: Lever Locking		SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CD2: Soket LED'li CD2: Connector With LED CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	A4: AC 24V D4: DC 24V D2: DC 12V

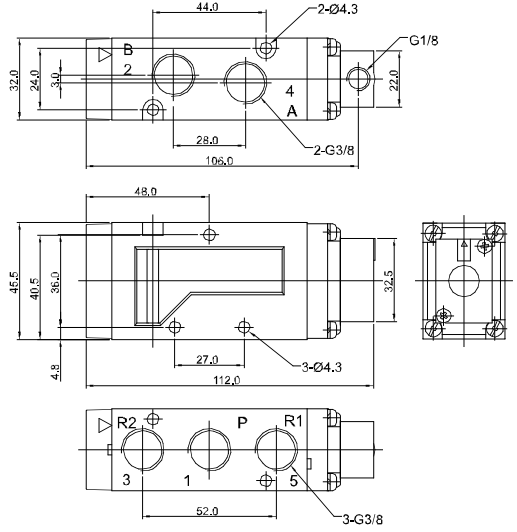
SF6000 Serisi Solenoid & Hava Kum. Valfler / SF6000 Series Solenoid & Pneu. Actuated Valves

Teknik Çizimler / Technical Drawings

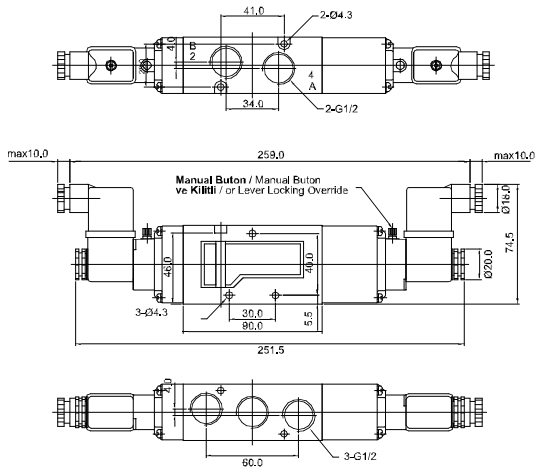
5/2 Solenoid / Solenoid



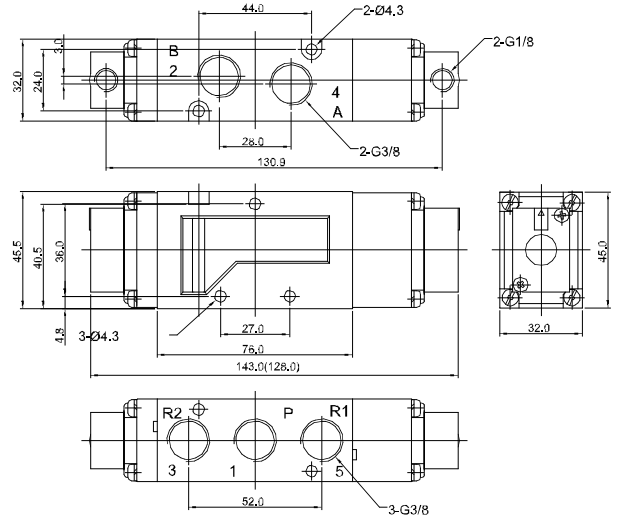
5/2 Pnömatik / Pneumatic



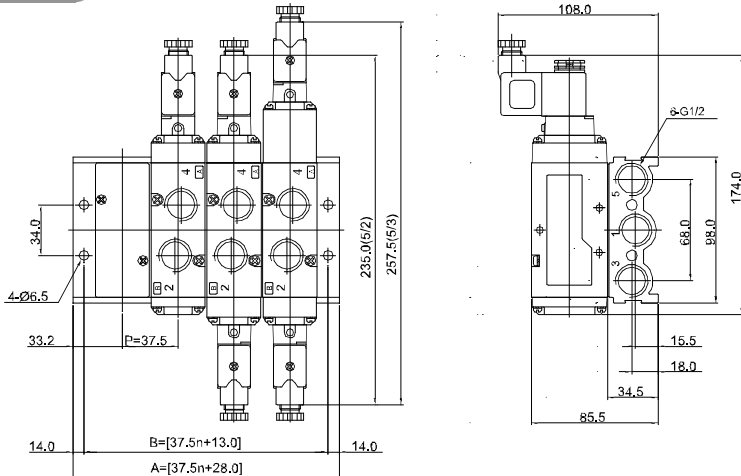
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



MF 6500



5 Yol Manifold Bloğu Ölçüleri
5 Port Manifold Block Dimensions

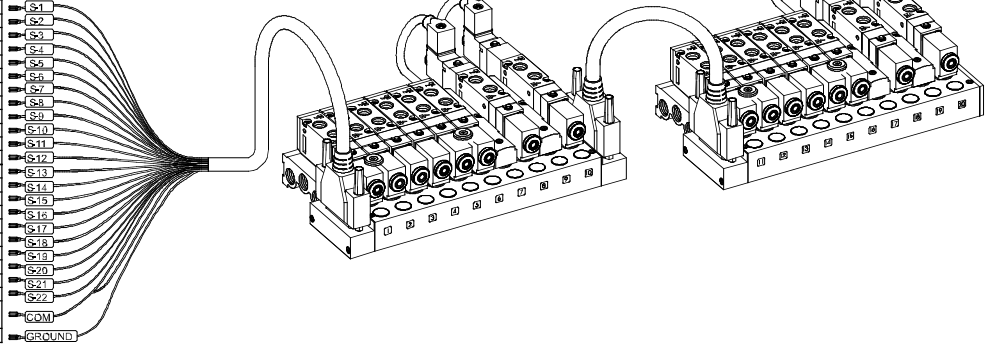
Parça / İstasyon Item / Station	2	4	6	8	10
B	88.0	163.0	238.0	313.0	388.0
A	103.0	178.0	253.0	328.0	403.0

Manifold Bloğu / Manifold Block

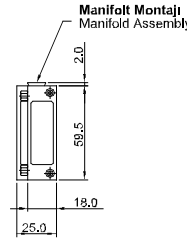
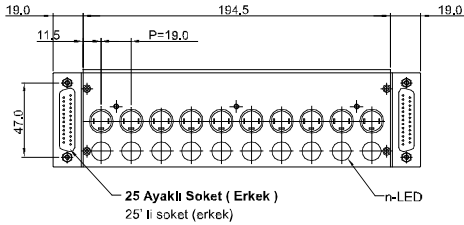
MF6500	2
Sembol / Symbol	İstasyon / Station
MF6500 (5 yol / way)	02, 04, 06, 08, 10

MCS200 Serisi / MCS200 Series

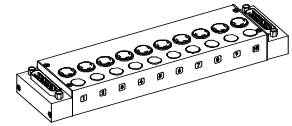
Kablo Rengi Wire Color	Ayak No. Pin No.		
Siyah / Black	1	S-1	S-1
K.Rengi/Beyaz / Brown/White	14	S-2	S-2
K.Rengi / Brown	2	S-3	S-3
Kırmızı/Beyaz / Red/White	15	S-4	S-4
Kırmızı / Red	3	S-5	S-5
Turuncu/Beyaz / Orange/White	16	S-6	S-6
Turuncu / Orange	4	S-7	S-7
Yeşil/Beyaz / Green/White	17	S-8	S-8
Sarı / Yellow	5	S-9	S-9
Mavi/Beyaz / Blue/White	18	S-10	S-10
Yeşil / Green	6	S-11	S-11
Mori/Beyaz / Purple/White	19	S-12	S-12
Mavi / Blue	7	S-13	S-13
Kırmızı/Siyah / Red/Black	20	S-14	S-14
Mor / Purple	8	S-15	S-15
Turuncu/Siyah / Orange/Black	21	S-16	S-16
Gr / Gray	9	S-17	S-17
Sarı/Siyah / Yellow/Black	22	S-18	S-18
Beyaz / White	10	S-19	S-19
Yeşil/Siyah / Green/Black	23	S-20	S-20
A. Yeşil / Light Green	12	S-21	S-21
Gr/Siyah / Gray/Black	24	S-22	S-22
Siyah/Beyaz / Black/White	25	COM	COM
Pembe/Siyah / Pink/Black	13	COM	COM
Pembe / Pink	11	GROUND	GROUND



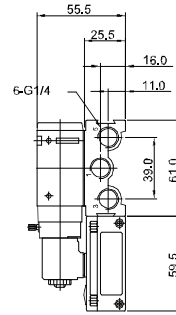
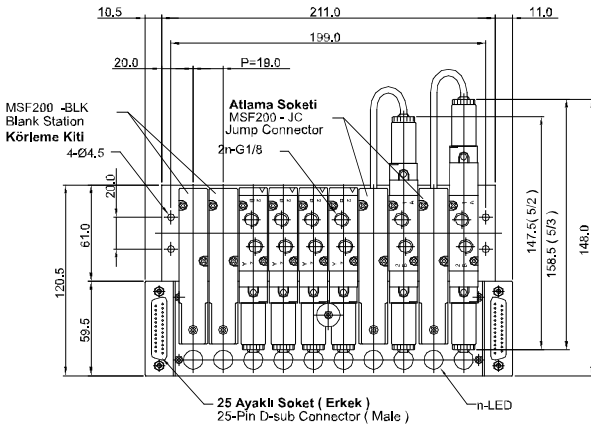
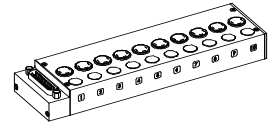
Teknik Çizimler ve Montaj Parçaları / Technical Drawings & Assembly Parts



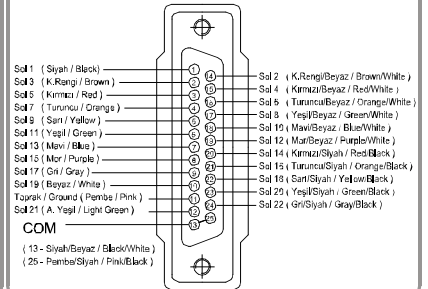
İkili Modül / Double Module: MCS221-T10-D4



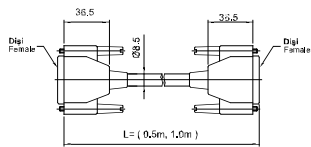
Tekli Modül / Single Module: MCS211-T10-D4



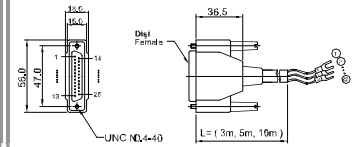
Soket Bağlantıları / Connector Pins



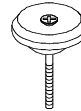
İkili Soket / Double Connector: MCS25 - DC-5/10



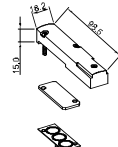
Tekli Soket / Single Connector: MCS25 - SC-30/50/100



Bobin Mon. / Coil Fix: MCS200 - CP



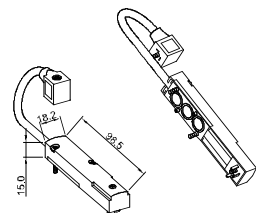
Körleme Kiti / Blanking Kit: MSF200 - BLK



Sipariş Kodu / Ordering Code

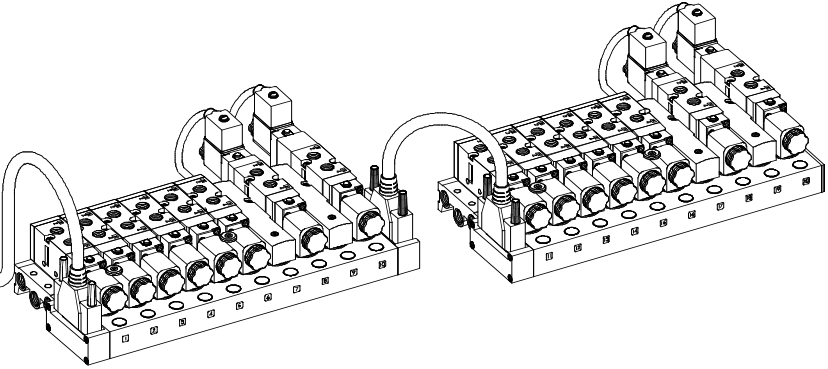
MCS2	1	1	T04	D4
Seri / Serie	Fonksiyon / Function	D-SUB Soket / D-SUB Connector	İstasyon Sayıları / Station Numbers	Voltaj / Voltage
MCS2: SF2000 Solenoid Valf Montajlı MCS2: SF2000 Solenoid Valve Assembled	0: Yok 0: None	0: Yok 0: None	0: Yok / 0: None	D4: DC 24V
	1: Tekli Modül 1: Single Module	1: 25 Ayaklı D-SUB Soket 1: 25 Pin D-SUB Connector	T04: 4 İstasyon / Station	
	2: Çiftli Modül 2: Double Module		T06: 6 İstasyon / Station	
			T08: 8 İstasyon / Station	
	T10: 10 İstasyon / Station			
	T12: 12 İstasyon / Station			
	T14: 14 İstasyon / Station			

Atlama Soketi / Jump Connector: MSF200 - JC

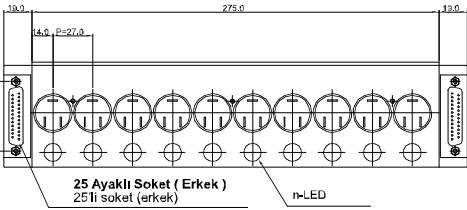


MCS400 Serisi / MCS400 Series

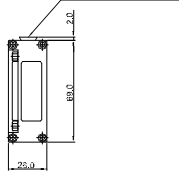
Kablo Rengi / Wire Color	Ayak No. / Pin No.	Solenoid No. / Solenoid No.
Siyah / Black	1	S-1
K.Rengi/Beyaz / Brown/White	14	S-2
K.Rengi / Brown	2	S-3
Kırmızı/Beyaz / Red/White	15	S-4
Yarı Sarı / Yellow	3	S-5
Turuncu/Beyaz / Orange/White	16	S-6
Turuncu / Orange	4	S-7
Yeşil/Beyaz / Green/White	17	S-8
Sarı / Yellow	5	S-9
Mavi/Beyaz / Blue/White	18	S-10
Yeşil / Green	6	S-11
Mor/Beyaz / Purple/White	19	S-12
Mavi / Blue	7	S-13
Kırmızı/Siyah / Red/Black	20	S-14
Mor / Purple	8	S-15
Turuncu/Siyah / Orange/Black	21	S-16
Gri / Grey	9	S-17
Sarı/Siyah / Yellow/Black	22	S-18
Beyaz / White	10	S-19
Yeşil/Siyah / Green/Black	23	S-20
A. Yeşil / Light Green	12	S-21
Gri/Siyah / Grey/Black	24	S-22
Siyah/Beyaz / Black/White	25	COM
Pembe / Pink	11	GROUND



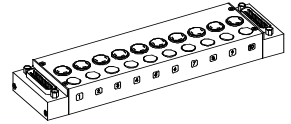
Teknik Çizimler ve Montaj Parçaları / Technical Drawings & Assembly Parts



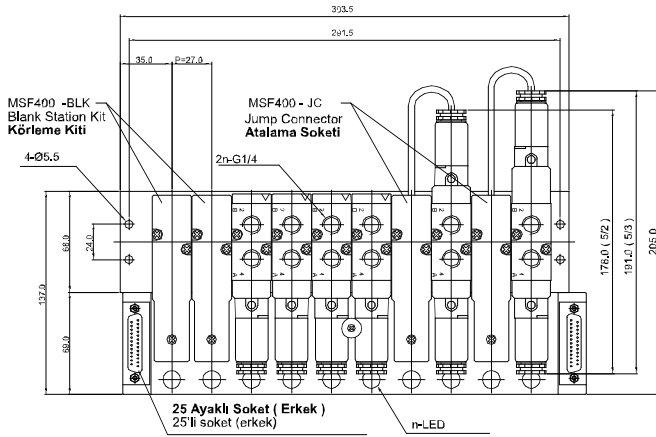
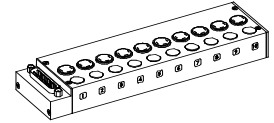
Manifolt Montajı / Manifold Assembly



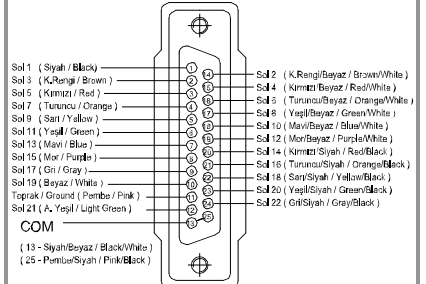
İkili Modül / Double Module: MCS221-T10-D4



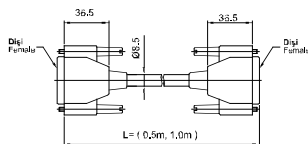
Tekli Modül / Single Module: MCS211-T10-D4



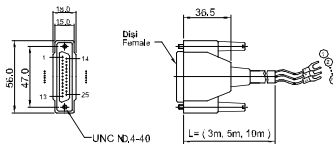
Soket Bağlantıları / Connector Pins



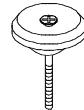
İkili Soket / Double Connector: MCS25 - DC-5/10



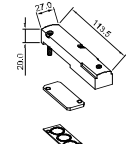
Tekli Soket / Single Connector: MCS25 - SC-30/50/100



Bobin Mon. / Coil Fix: MCS400 - CP



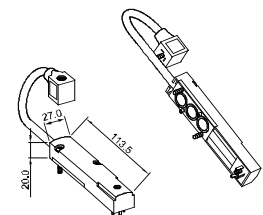
Körleme Kiti / Blanking Kit: MSF400 - BLK

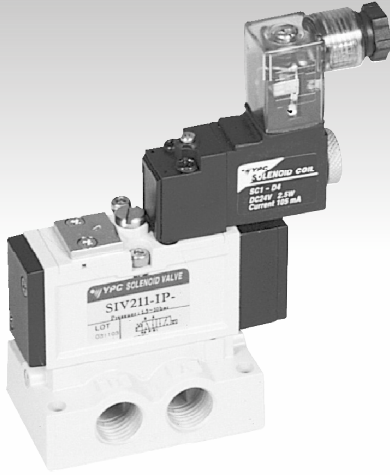


Sipariş Kodu / Ordering Code

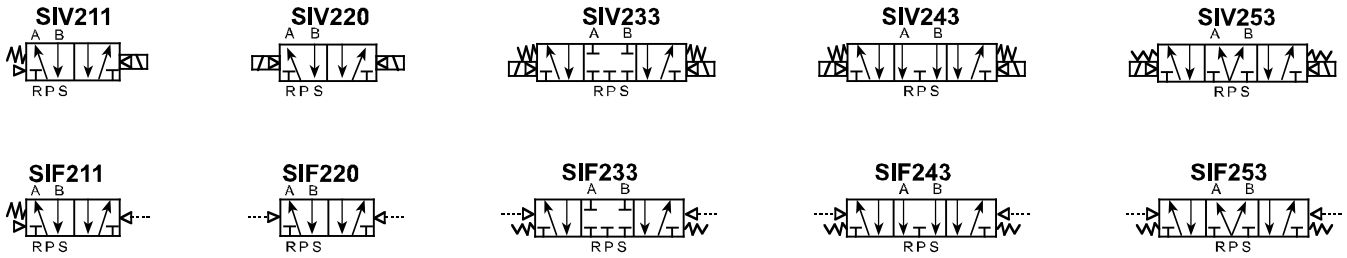
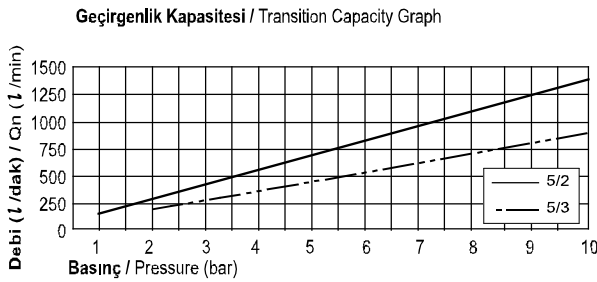
MCS4	1	1	T04	D4
Seri / Serie	Fonksiyon / Function	D-SUB Soket / D-SUB Connector	İstasyon Sayıları / Station Numbers	Voltaj / Voltage
MCS4: SF4000 Solenoid Valf Montajlı MCS4: SF4000 Solenoid Valve Assembled	0: Yok 0: None	0: Yok 0: None	0: Yok / 0. None	D4: DC 24V
	1: Tekli Modül 1: Single Module	1: 25 Ayaklı D-SUB Soket 1: 25 Pin D-SUB Connector	T04: 4 İstasyon / Station T06: 6 İstasyon / Station T08: 8 İstasyon / Station T10: 10 İstasyon / Station T12: 12 İstasyon / Station T14: 14 İstasyon / Station	
	2: Çiftli Modül 2: Double Module			D2: DC 12V

Atlama Soketi / Jump Connector: MSF400 - JC



SIV200 Serisi ISO - 0 Valfleri / SIV200 Series ISO - 0 Valves (ISO-0 15407-1 / VDMA 24563)

Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm²) - 5 bar	12.0	8.5
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Kokil Döküm Alüminyum / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

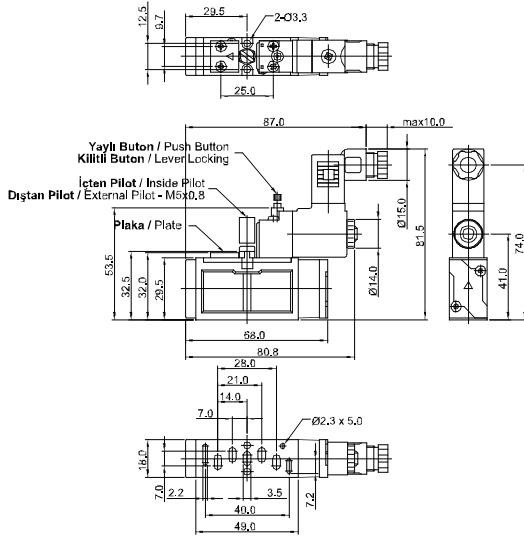
Sipariş Kodu / Ordering Code

SIV2	1	1	I	P	SC1	CN1	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Solenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SIV2: Selenoid Valf SIV2: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double				SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring			P: Yaylı Kilitli P: Push Non-Locking	SG1: Kaçuk Rondelali SG1: Grommet / Flying Leads	
SIP2: Pnömatik Valf SIP2: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air	E: Dıştan Pilot E: External Pilot	L: Kilitli L: Lever Locking	SD1: Kaçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED	CD1: Soket LED'li CD1: Connector With LED	A4: AC 24V
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center				3: Yay 3: Spring		SL1: 90 Derece Fişli Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly LED
						SM1: 180 Derece Fişli Kablo LED'li SM1: 180 Degree Plug-in Wire Assembly LED	CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor

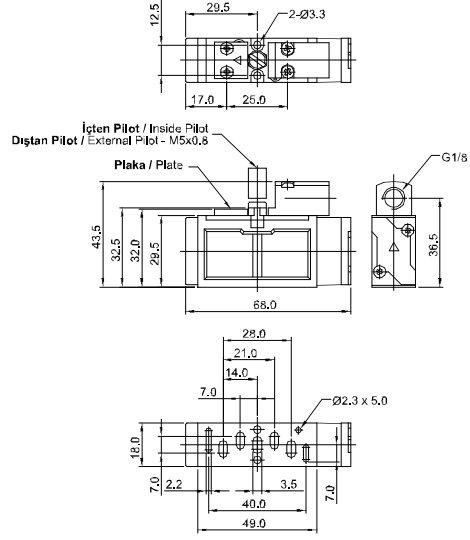
SIV200 Serisi ISO - 0 Valfleri / SIV200 Series ISO - 0 Valves (ISO-0 15407-1 / VDMA 24563)

Teknik Çizimler / Technical Drawings

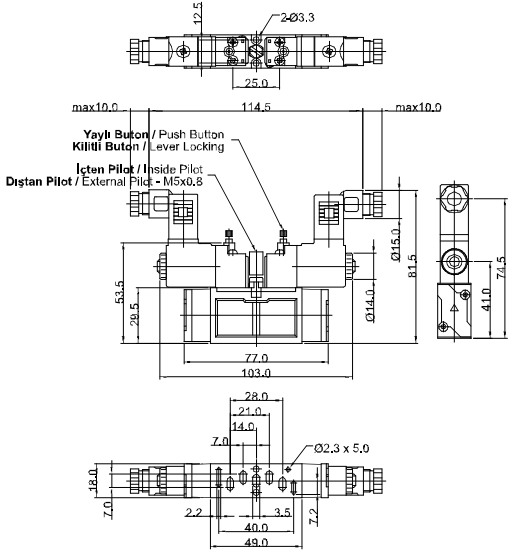
5/2 Solenoid / Solenoid



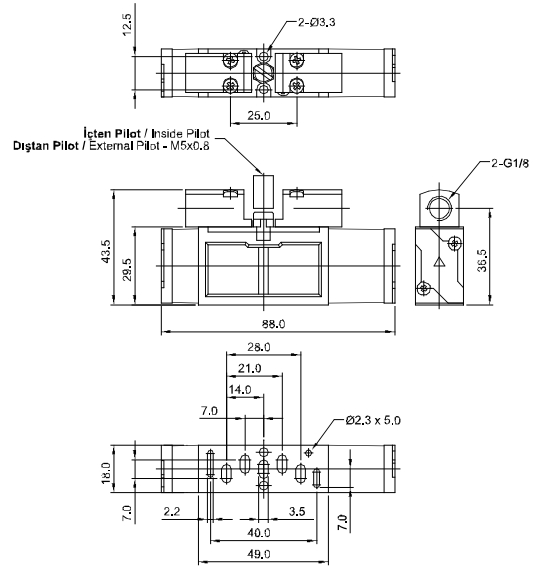
5/2 Pnömatik / Pneumatic



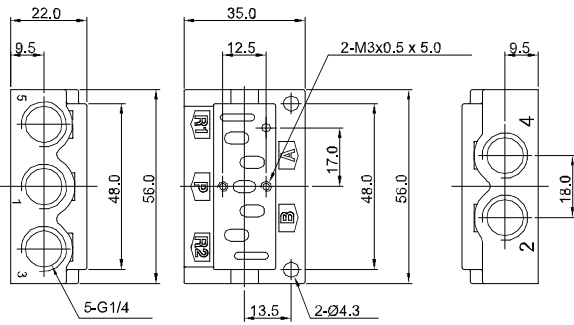
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic

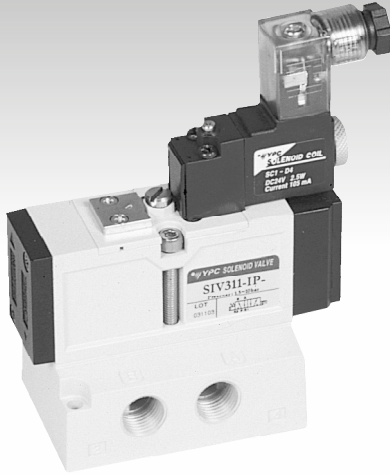


SIB 20

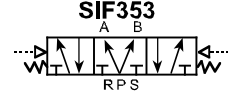
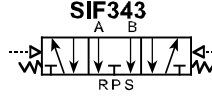
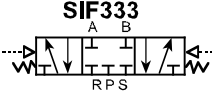
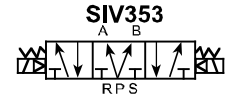
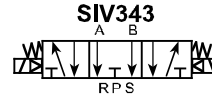
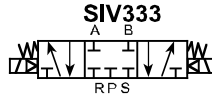
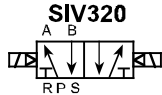
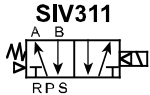
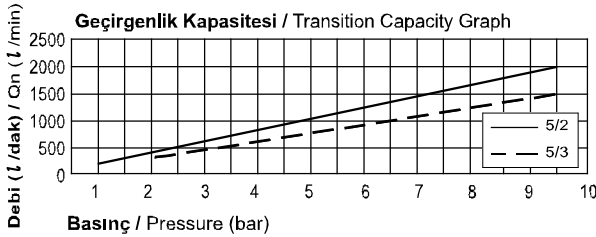


Manifold Bloğu Parçaları / Manifold Block Parts

SIB2	1	S
SIV 200 Solenoid Valf SIV 200 Solenoid Valve	0: Yok 0: None	S: Pilotsuz 1/4" Tekli Alt Plaka S: Single Station Sub Base, 1/4" Port Without Pilot Ports
		SP: Pilotlu 1/4" Tekli Alt Plaka SP: Single Station Sub Base, 1/4" Port With Pilot Ports
	1: G	D: Pilotsuz 1/8" Çiftli Modüler Alt Plaka D: Double Moduler Sub Base, 1/8" Port Without Pilot Ports
		DC6: Ø6 Otomatik Rekorlu, Çiftli Modüler Alt Plaka DC6: Double Moduler Sub Base, Ø6 One-Touch Fitting
2: NPT	E: 1/8" Arka Kapak E: 1/8" End Cover	
	EB: Arka Körleme Kapağı EB: End Blanking Cover	

SIV300 Serisi ISO - 0 Valfleri / SIV300 Series ISO - 0 Valves (ISO-0 15407-1 / VDMA 24563)

Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	18.0	11.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol

Akış Diyagramı / Flow Chart

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

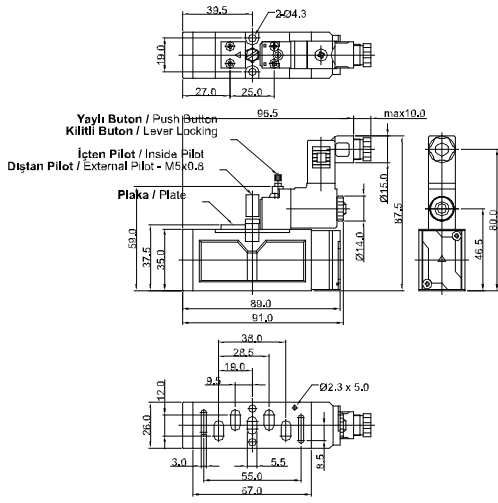
Sipariş Kodu / Ordering Code

SIV3	1	1	I	P	SC1	CN1	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SIV3: Selenoid Valf SIV3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double	1: Hava + Yay 1: Air + Spring			SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center		2: Hava 2: Air	P: Yaylı Kilitli P: Push Non-Locking	SG1: Kauçuk Rondelali SG1: Grommet / Flying Leads	A1: AC 110V	
SIP3: Pnömatik Valf SIP3: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	3: Yay 3: Spring		E: Dıştan Pilot E: External Pilot	L: Kilitli L: Lever Locking	SD1: Kauçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED	CD1: Soket LED'li CD1: Connector With LED
	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center		SL1: 90 Derece Fişli Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly LED			CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor	
			SM1: 180 Derece Fişli Kablo LED'li SM1: 180 Degree Plug-in Wire Assembly LED	D2: DC 12V			

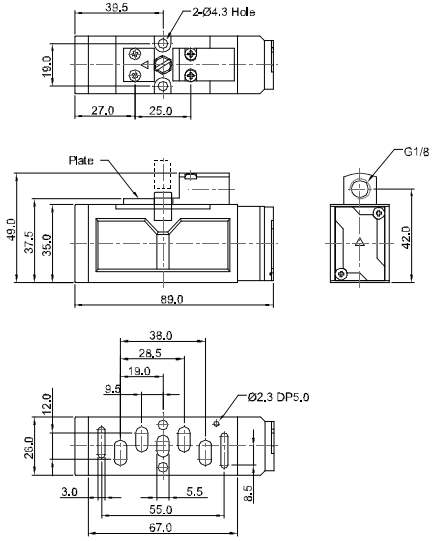
SIV300 Serisi ISO - 0 Valfleri / SIV300 Series ISO - 0 Valves (ISO-0 15407-1 / VDMA 24563)

Teknik Çizimler / Technical Drawings

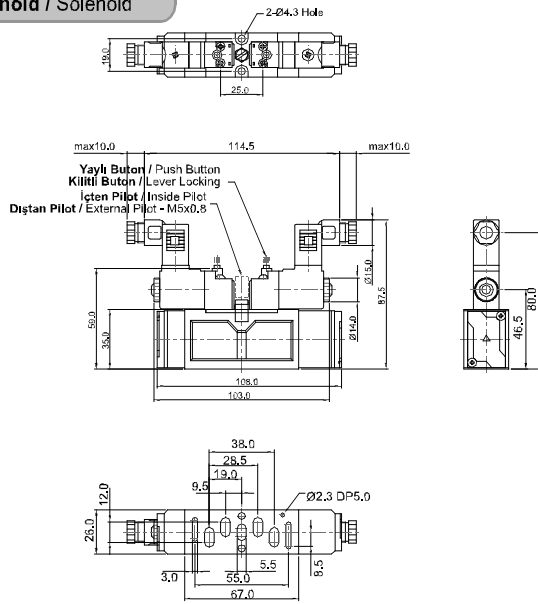
5/2 Solenoid / Solenoid



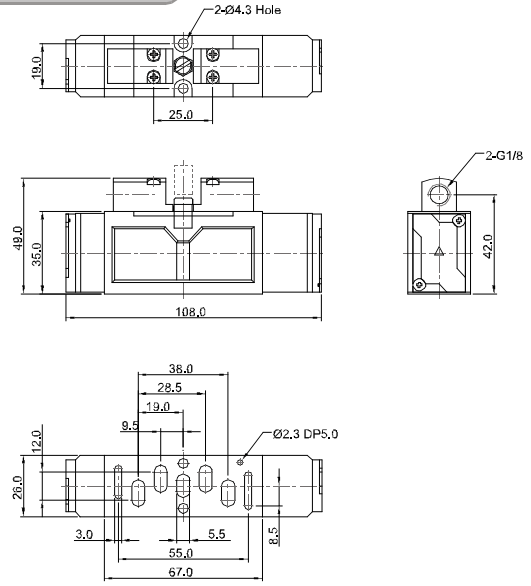
5/2 Pnömatik / Pneumatic



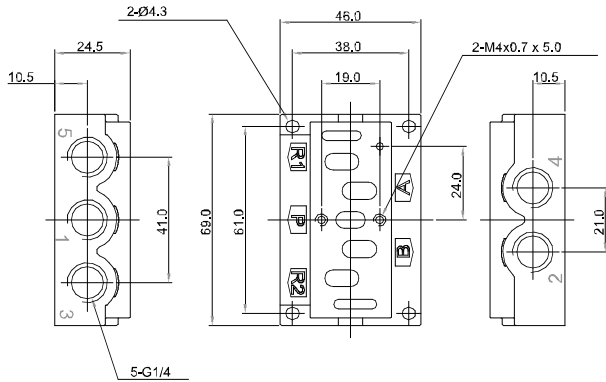
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



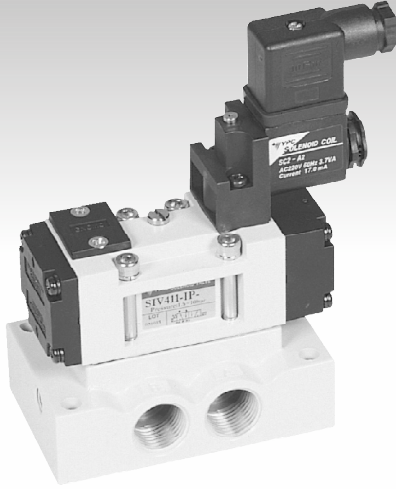
SIB 30



Manifold Bloğu Parçaları / Manifold Block Parts

SIB3	1	S
SIV 300 Solenoid Valf SIV 300 Solenoid Valve	0: Yok 0: None	S: Pilotsuz 1/4" Tekli Alt Plaka S: Single Station Sub Base, 1/4" Port Without Pilot Ports
		SP: Pilotlu 1/4" Tekli Alt Plaka SP: Single Station Sub Base, 1/4" Port With Pilot Ports
	1: G	D: Pilotsuz 1/4" Çiftli Modüler Alt Plaka D: Double Moduler Sub Base, 1/8" Port Without Pilot Ports
		DC8: Ø8 Otomatik Rekorlu, Çiftli Modüler Alt Plaka DC8: Double Moduler Sub Base, Ø8 One-Touch Fitting
2: NPT	E: 1/4" Arka Kapak E: 1/4" End Cover	
	EB: Arka Körleme Kapağı EB: End Blanking Cover	

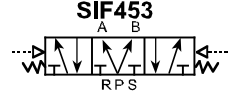
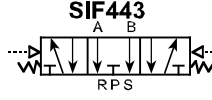
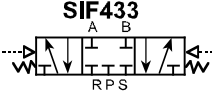
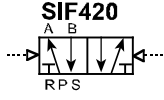
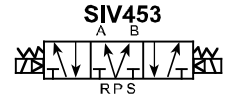
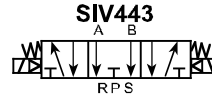
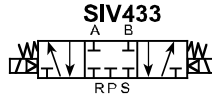
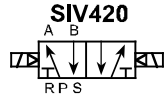
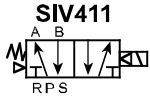
SIV400 Serisi ISO - 1 Valfleri / SIV400 Series ISO - 1 Valves



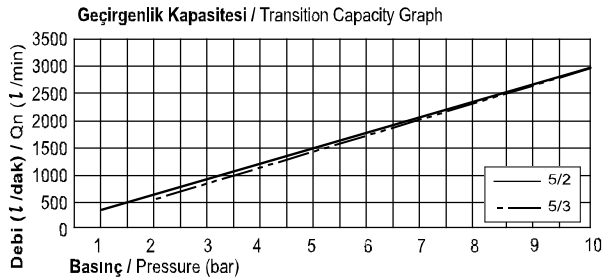
Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	30.0	25.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleme Zamanı (sn) / Min. Activating Time (sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	3 çevrim/sn / 3 cycle/sec	1 çevrim/sn / 1 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

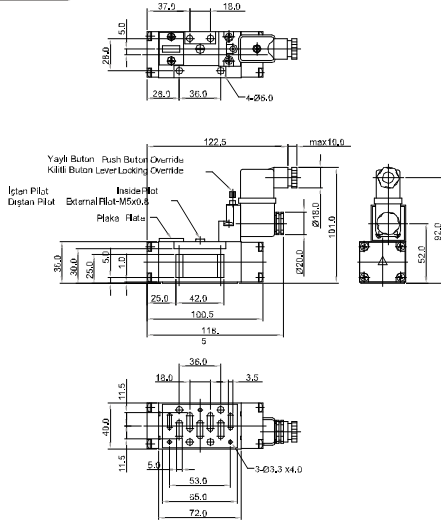
Sipariş Kodu / Ordering Code

SIV4	1	1	I	P	SC2	CN2	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SIV4: Selenoid Valf SIV4: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double	1: Hava + Yay 1: Air + Spring					A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center						A1: AC 110V
SIP4: Pnömatik Valf SIP4: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air	E: Dıştan Pilot E: External Pilot	P: Yaylı Kilitli P: Push Non-Locking	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A4: AC 24V
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center	3: Yay 3: Spring					D4: DC 24V
							D2: DC 12V

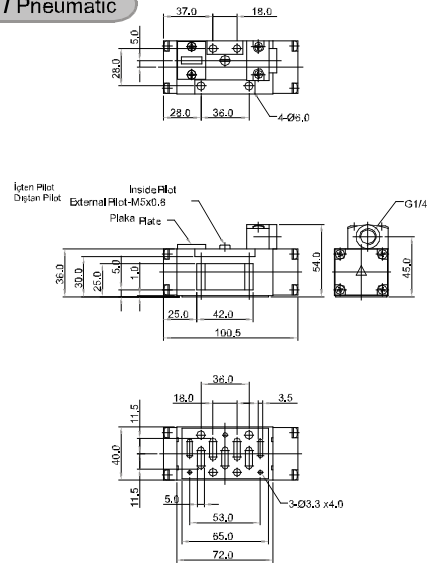
SIV400 Serisi ISO - 1 Valfleri / SIV400 Series ISO - 1 Valves

Teknik Çizimler / Technical Drawings

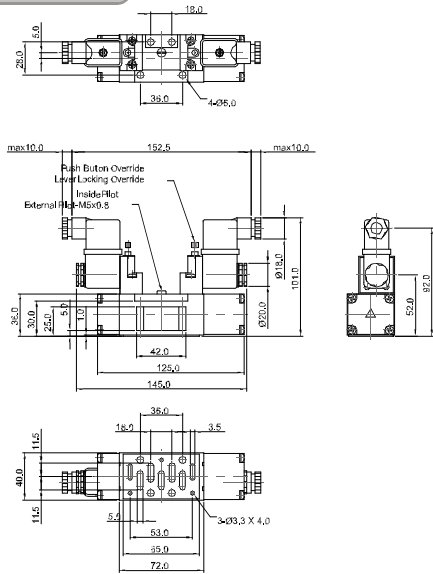
5/2 Solenoid / Solenoid



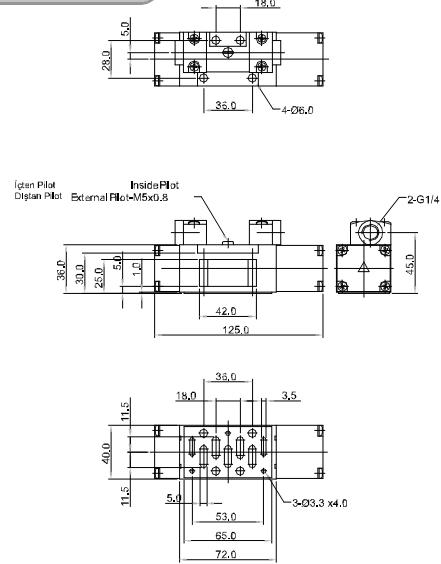
5/2 Pnömatik / Pneumatic



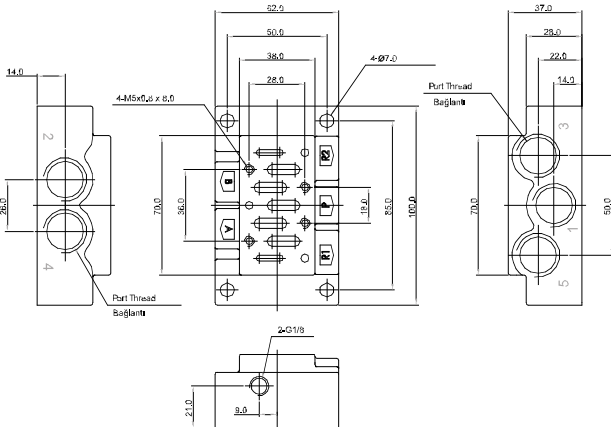
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



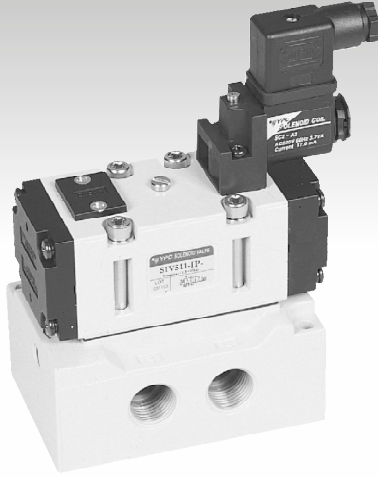
SIB 40



Manifold Bloğu Parçaları / Manifold Block Parts

SIB4	1	S
SIV 400 Solenoid Valf SIV 400 Solenoid Valve	0: Yok 0: None	S: Pilotsuz Tekli Alt Plaka S: Single Station Sub Base, Port Without Pilot Ports
	1: G 1/4"	
	2: G 3/8"	
	3: G 1/2"	SP: Pilotlu Tekli Alt Plaka SP: Single Station Sub Base, Port With Pilot Ports
	6: NPT 1/4"	
	7: NPT 3/8"	
8: NPT 1/2"		

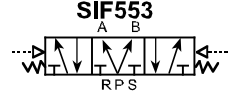
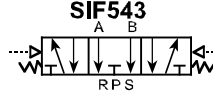
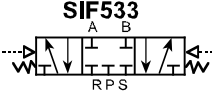
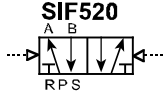
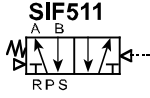
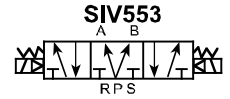
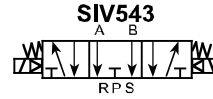
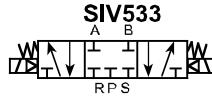
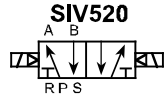
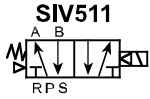
SIV500 Serisi ISO - 2 Valfleri / SIV500 Series ISO - 2 Valves



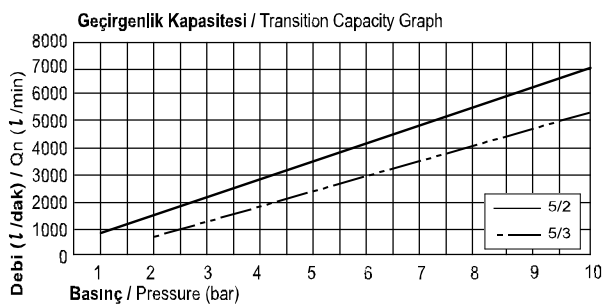
Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	65.0	50.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	35 ms yada daha az / 35 ms or less	45 ms yada daha az / 45 ms or less
Max. Çalışma Frekansı / Max. Frequency	3 çevrim/sn / 3 cycle/sec	1 çevrim/sn / 1 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

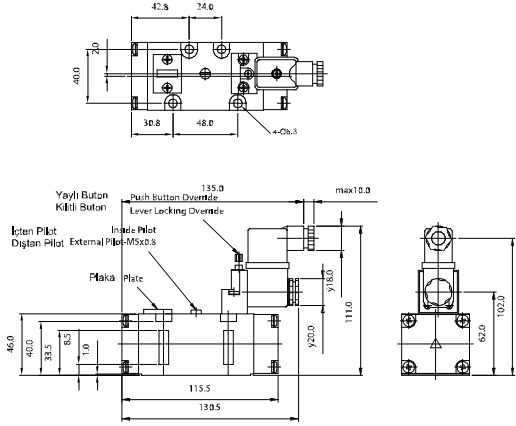
Sipariş Kodu / Ordering Code

SIV5	1	1	I	P	SC2	CN2	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SIV5: Selenoid Valf / SIV5: Solenoid Valve	1: 5/2 Tek / 1: 5/2 Single	0: Yok / 0: None	I: İçten Pilot / I: Internal Pilot	0: Yok / 0: None	0: Yok / 0: None	0: Yok / 0: None	0: Yok / 0: None
	2: 5/2 Çift / 2: 5/2 Double	1: Hava + Yay / 1: Air + Spring					A2: AC 220V
	3: 5/3 Kapalı Merkez / 3: 5/3 Closed Center						A1: AC 110V
SIP5: Pnömatik Valf / SIP5: Pneumatic Valve	4: 5/3 Açık Merkez / 4: 5/3 Open Center	2: Hava / 2: Air	E: Dıştan Pilot / E: External Pilot	P: Yaylı Kilitli / P: Push Non-Locking	SG2: Kauçuk Rondelali / SG2: Grommet / Flying Leads	CD2: Soket LED'li / CD2: Connector With LED	A4: AC 24V
	5: 5/3 Basıncı Merkez / 5: 5/3 Pressure Center	3: Yay / 3: Spring					D4: DC 24V
							D2: DC 12V

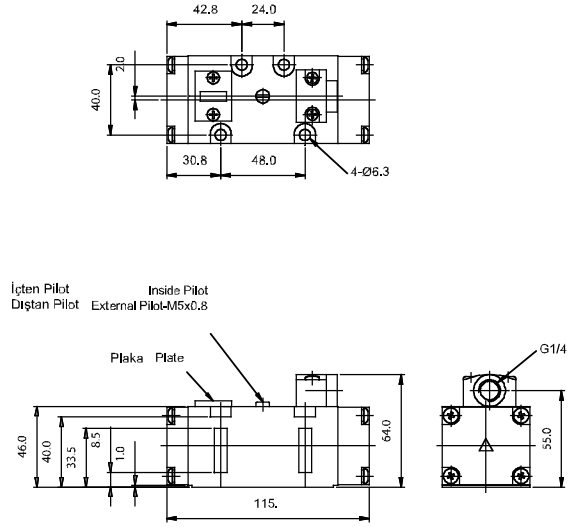
SIV500 Serisi ISO - 2 Valfleri / SIV500 Series ISO - 2 Valves

Teknik Çizimler / Technical Drawings

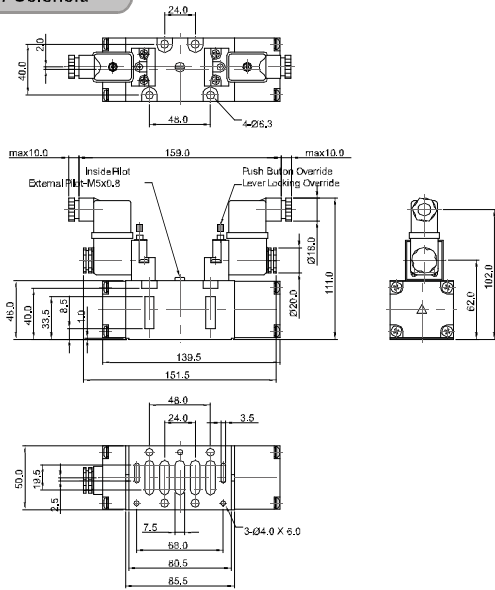
5/2 Solenoid / Solenoid



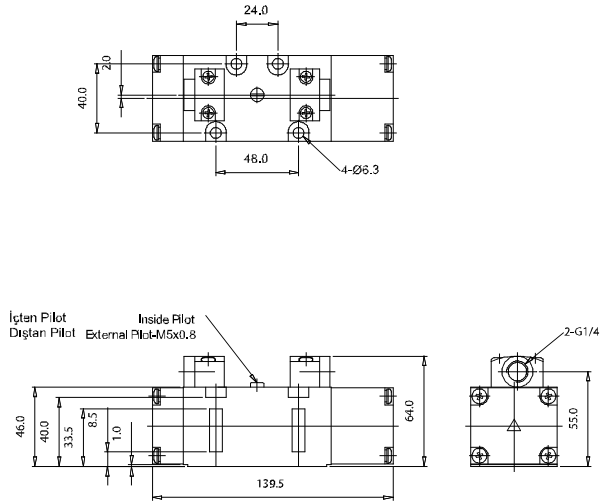
5/2 Pnömatik / Pneumatic



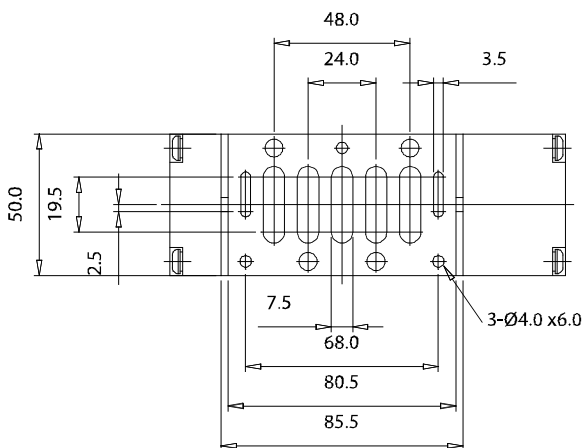
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



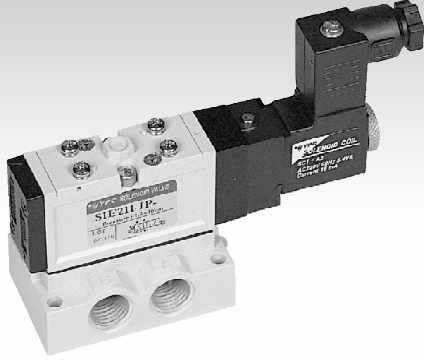
SIB 50



Manifold Bloğu Parçaları / Manifold Block Parts

SIB5	1	S
SIV 500 Solenoid Valf SIV 500 Solenoid Valve	0: Yok 0: None	S: Pilotuz Tekli Alt Plaka S: Single Station Sub Base, Port Without Pilot Ports
	2: G 3/8"	
	3: G 1/2"	
SIV 500 Solenoid Valf SIV 500 Solenoid Valve	4: G 3/4"	SP: Pilotlu Tekli Alt Plaka SP: Single Station Sub Base, Port With Pilot Ports
	7: NPT 3/8"	
	8: NPT 1/2"	
	9: NPT 3/4"	

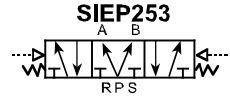
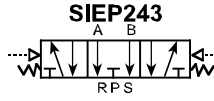
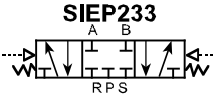
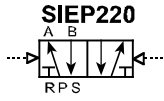
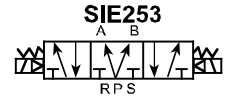
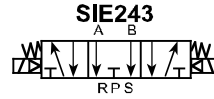
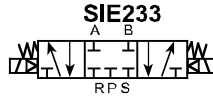
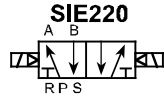
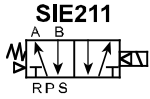
SIE200 Ekonomi Serisi Valfleri / SIE200 Economy Series Valves



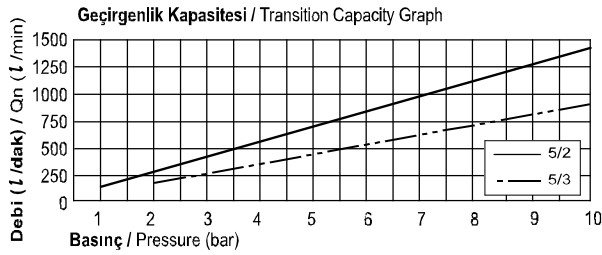
Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	12.0	8.5
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 3.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

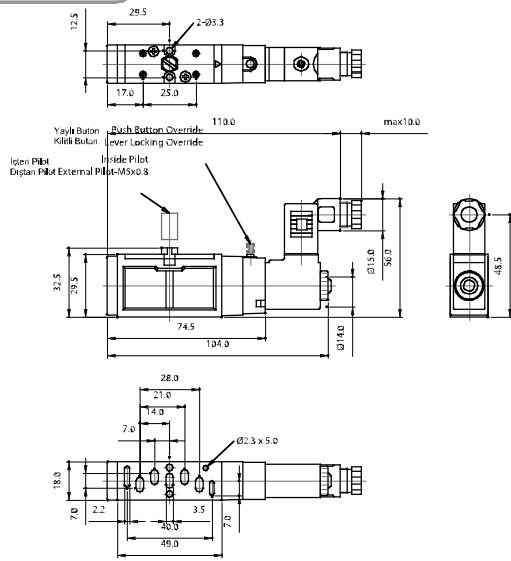
Sipariş Kodu / Ordering Code

SIE2	1	1	I	P	SC1	CN1	A2	
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage	
SIE2: Selenoid Valf SIE2: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	
	2: 5/2 Çift 2: 5/2 Double	1: Hava + Yay 1: Air + Spring			SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		CN1: Normal Soket CN1: Normal Connector	A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center				P: Yaylı Kilitli P: Push Non-Locking			SG1: Kauçuk Rondelali SG1: Grommet / Flying Leads
SIEP2: Pnömatik Valf SIEP2: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air	E: Dıştan Pilot E: External Pilot	L: Kilitli L: Lever Locking	SD1: Kauçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED	CD1: Soket LED'li CD1: Connector With LED	A4: AC 24V	
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center	3: Yay 3: Spring			SL1: 90 Derece Fiş Giriş Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly With LED		CZ1: Soket LED'li ve *ok Emicili CZ1: Connector With LED & Surge Suppressor	D4: DC 24V
					SM1: 180 Derece Fiş Giriş Kablo LED'li SM1: 180 Degree Plug-in Wire Assembly With LED			D2: DC 12V

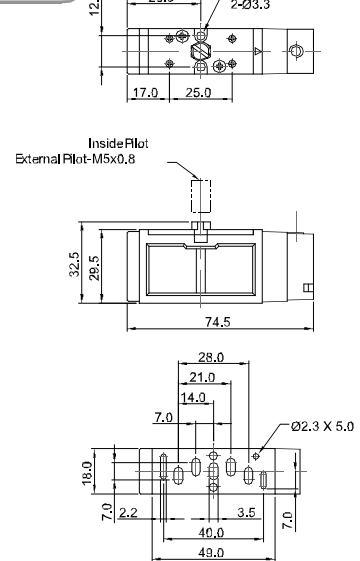
SIE200 Serisi / SIE200 Series

Teknik Çizimler / Technical Drawings

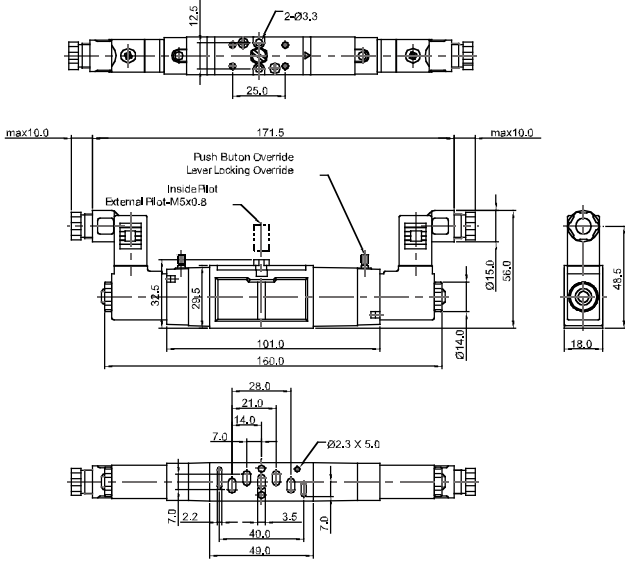
5/2 Selenoid / Solenoid



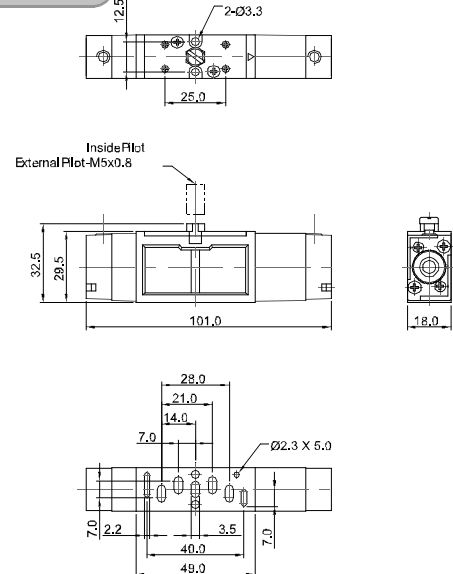
5/2 Pnömatik / Pneumatic



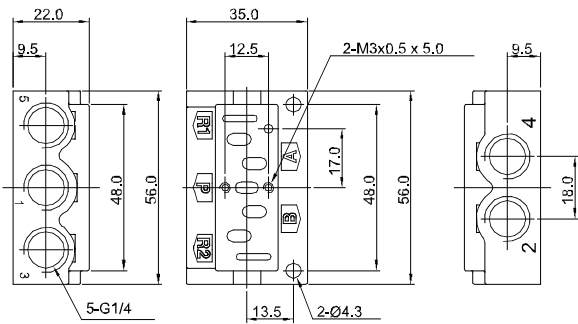
5/3 Selenoid / Solenoid



5/3 Pnömatik / Pneumatic



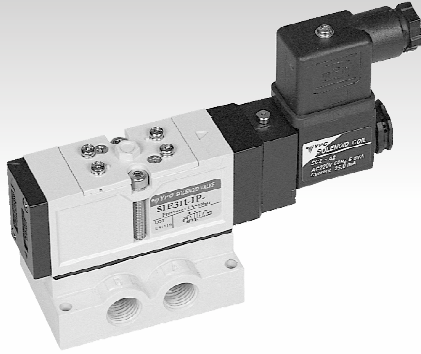
SIB 20



Manifold Bloğu Parçaları / Manifold Block Parts

SIB2	1	S
	0: Yok 0: None	S: Pilotsuz 1/4" Tekli Alt Plaka S: Single Station Sub Base, 1/4" Port Without Pilot Ports
		SP: Pilotlu 1/4" Tekli Alt Plaka SP: Single Station Sub Base, 1/4" Port With Pilot Ports
SIE 200 Selenoid Valf SIE 200 Solenoid Valve	1: G	D: Pilotsuz 1/8" Çiftli Modüler Alt Plaka D: Double Moduler Sub Base, 1/8" Port Without Pilot Ports
		DC8: Ø6 Otomatik Rekorlu, Çiftli Modüler Alt Plaka DC8: Double Moduler Sub Base, Ø6 One-Touch Fitting
	2: NPT	E: 1/8" Arka Kapak E: 1/8" End Cover
		EB: Arka Körleme Kapağı EB: End Blanking Cover

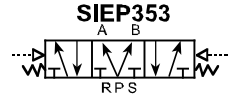
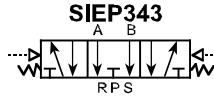
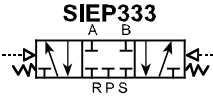
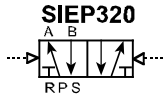
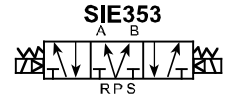
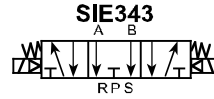
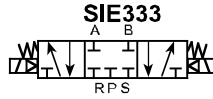
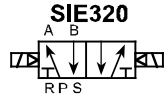
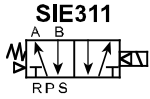
SIE300 Ekonomi Serisi Valfleri / SIE300 Economy Series Valves



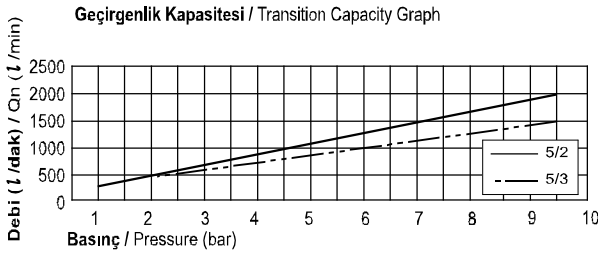
Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	18.0	11.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



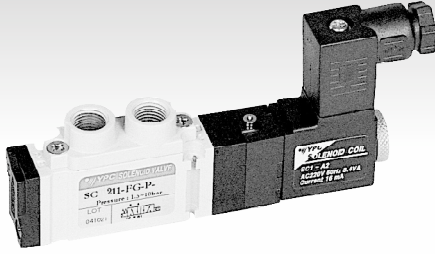
Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçalar / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

Sipariş Kodu / Ordering Code

SIE3	1	1	I	P	SC2	CN2	A2			
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage			
SIE3: Selenoid Valf SIE3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None			
	2: 5/2 Çift 2: 5/2 Double	1: Hava + Yay 1: Air + Spring					P: Yaylı Kilitli P: Push Non-Locking	SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	CN2: Normal Soket CN2: Normal Connector	A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center						2: Hava 2: Air	L: Kilitli L: Lever Locking	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED
SIEP3: Pnömatik Valf SIEP3: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	3: Yay 3: Spring	E: Dıştan Pilot E: External Pilot	L: Kilitli L: Lever Locking	SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	A4: AC 24V			
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center						D4: DC 24V			
							D2: DC 12V			

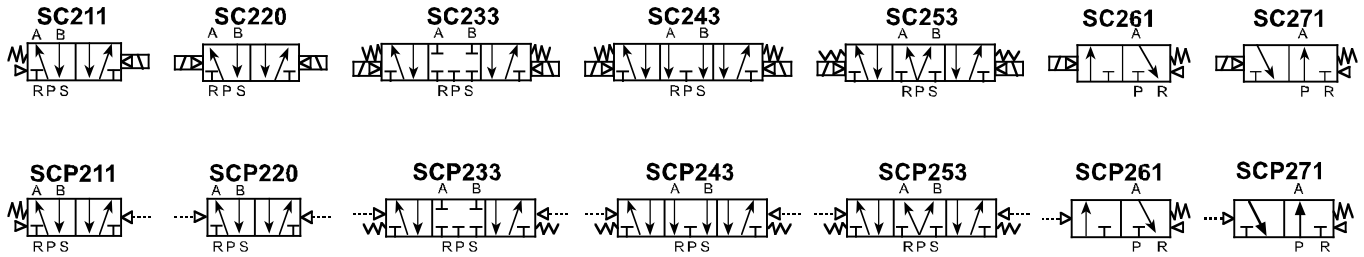
SC200 Kompakt Seri Valfler / SC200 Compact Serie Valves



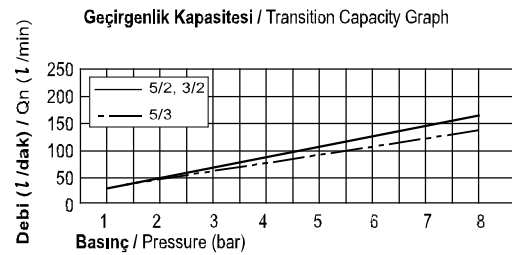
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air(to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	2.0 ~ 7.0 bar	2.5 ~ 7.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	2.3	1.8
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı(sn) / Min. Activating Time(sec)	20 ms yada daha az / 20 ms or less	30 ms yada daha az / 30 ms or less
Max. Çalışma Frekansı / Max. Frequency	10 çevrim/sn / 10 cycle/sec	8 çevrim/sn / 8 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding DC: 0.65W (24V:27.0mA/12V:54.0mA)	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

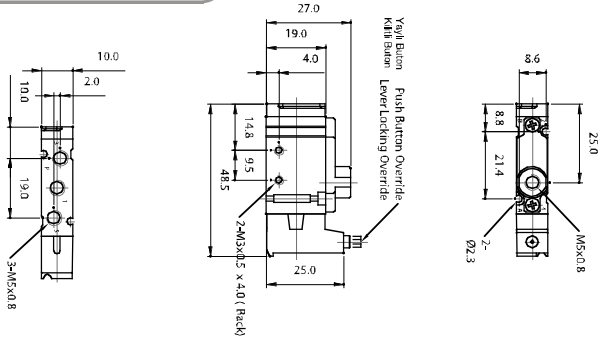
Sipariş Kodu / Ordering Code

SC2	1	1	D	F5	P	L	D4	
Valf Serisi Valve Series	Fonksiyon Function	Geri Dönme Yöntemi Return Method	Bağlantı Tipi Port Type	Bağlantı Plakası ve Dişleri Port Plate & Thread	Manuel Çalıştırma Manual Operator	Soket Tipi Connector Type	Voltaj Voltage	
SC2: Selenoid Valf SC2: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold	0: Yok / None	0: Yok 0: None	L: 90 Derece Fiş Giriş Kablo LED'li L: 90 Degree Plug-in Wire Assembly With LED	0: Yok 0: None	
	2: 5/2 Çift 2: 5/2 Double			F5: 5-Yol / Port M5 x 0.8				
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		F3: 3-Yol / Port M5 x 0.8	P: Yayı Kilitli P: Push Non-Locking			D4: DC 24V
	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air		FN5: 5-Yol / Port NPT M5 x 0.8				
SCP2: Pnömatik Valf SCP2: Pneumatic Valve	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center	3: Yay 3: Spring	B: Alt Plaka B: Sub-Base	FN3: 3-Yol / Port NPT M5 x 0.8	L: Kilitli L: Lever Locking	M: 180 Derece Fiş Giriş Kablo LED'li M: 180 Degree Plug-in Wire Assembly With LED	D2: DC 12V	
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			FC3: 3-Yol / Port Ø4 Rekor / Fitting				
	7: 3/2 Normalde Açık 7: 3/2 Normally Open	E: M3 x 0.5 Diş Plaka / External Plate		B: Körtleme Plakası / Blanking Plate				

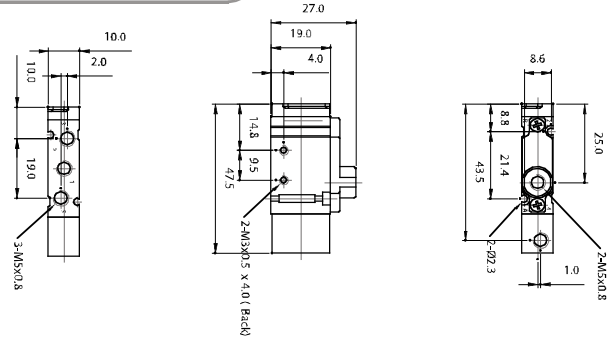
SC200 Kompakt Seri Valfler / SC200 Compact Serie Valves

Teknik Çizimler / Technical Drawings

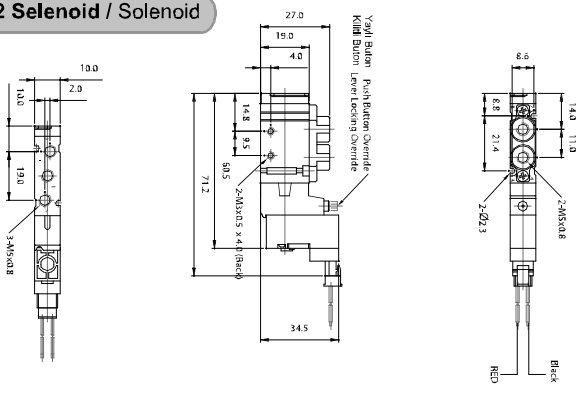
3/2 Solenoid / Solenoid



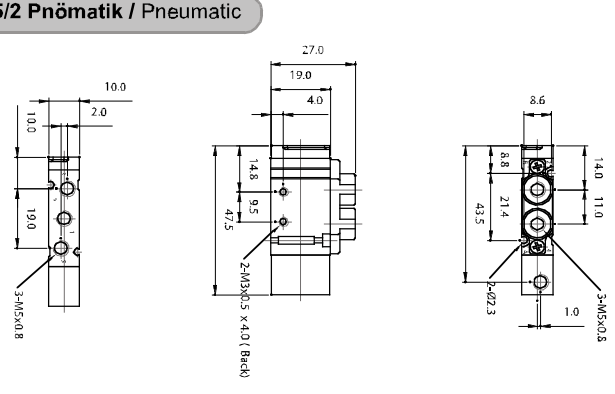
3/2 Pnömatik / Pneumatic



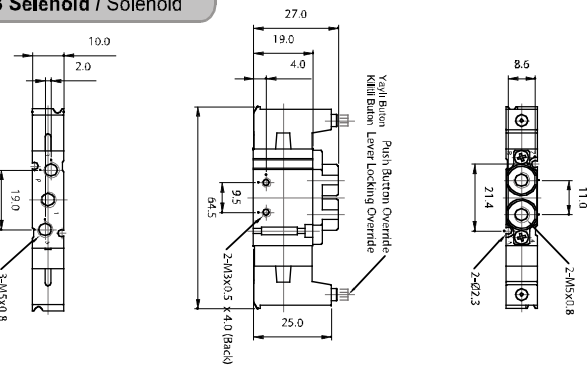
5/2 Solenoid / Solenoid



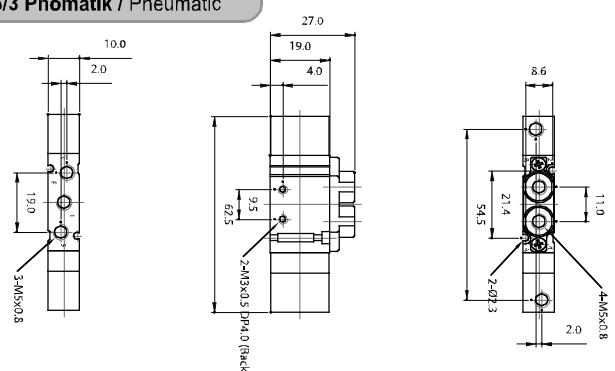
5/2 Pnömatik / Pneumatic



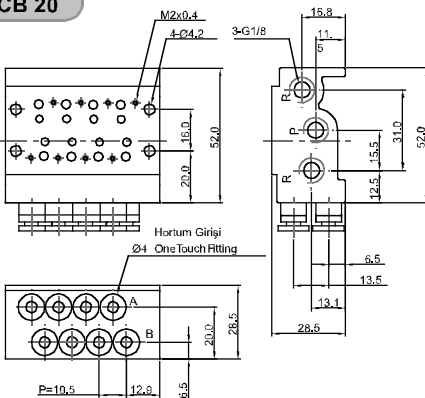
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



SCB 20

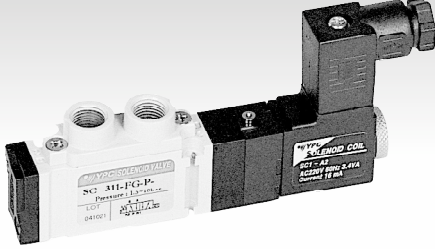


sta	2	4	6	8	10
B	30,5	51,5	72,5	93,5	114,5
A	38,5	59,5	80,5	101,5	122,5

Manifold Bloğu Parçaları / Manifold Block Parts

SCB2	1	S	M04
SC 200 Solenoid Valf SC 200 Solenoid Valve	0: Yok 0: None	0: Yok 0: None	M02: 2-İstasyon M02: 2-Station
	1: G	D: Manifold, 1/8" D: Manifold, Port 1/8"	M04: 4-İstasyon M04: 4-Station
		S: Pilotsuz 1/8" Tekli Alt Plaka S: Single Station Sub Base, 1/8" Port Without Pilot Ports	M06: 6-İstasyon M06: 6-Station
	2: NPT	DB: Pilotsuz M5, Çiftli Modüler Alt Plaka DB: Double Modüler Sub Base, M5 Port Without Pilot Ports	M08: 8-İstasyon M08: 8-Station
DC4: Çiftli Modüler Alt Plaka Ø4 Otomatik Rekorlu DC4: Double Modüler Sub Base Ø Fitting		M10: 10-İstasyon M10: 10-Station	

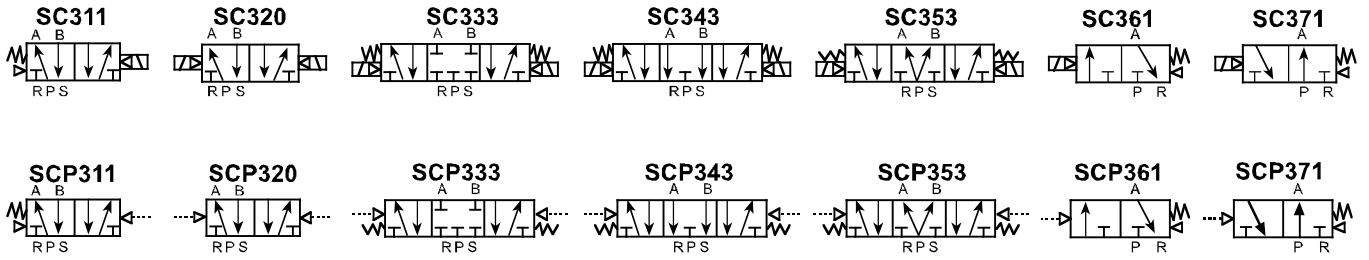
SC300 Kompakt Seri Valfler / SC300 Serie Valves



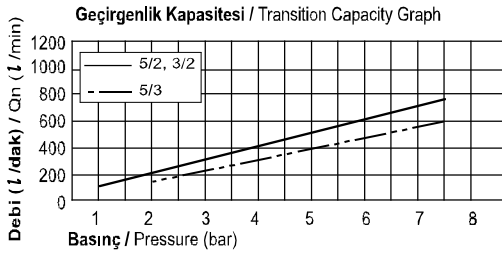
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 7.0 bar	2.0 ~ 7.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	9.0	7.5
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	8 çevrim/sn / 8 cycle/sec	5 çevrim/sn / 5 cycle/sec
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding DC: 0.65W (24V:27.0mA/12V:54.0mA)	

Sembol / Symbol



Akış Diyagramı / Flow Chart



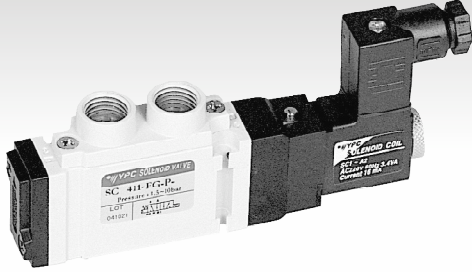
Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

Sipariş Kodu / Ordering Code

SC3	1	1	D	F5	P	L	D4
Valf Serisi Valve Series	Fonksiyon Function	Geri Dönme Yöntemi Return Method	Bağlantı Tipi Port Type	Bağlantı Plakası ve Dişleri Port Plate & Thread	Manuel Çalıştırma Manual Operator	Soket Tipi Connector Type	Voltaj Voltage
SC3: Selenoid Valf SC3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold D: Manifold	0: Yok / None	0: Yok 0: None	L: 90 Derece Fiş Giriş Kablo LED'li L: 90 Degree Plug-in Wire Assembly With LED	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double			F5: 5-Yol / Port G 1/8			
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		F3: 3-Yol / Port G 1/8	P: Yaylı Kilitsiz P: Push Non-Locking		D4: DC 24V
	4: 5/3 Açık Merkez 4: 5/3 Open Center			FN5: 5-Yol / Port NPT G 1/8			
SCP3: Pnömatik Valf SCP3: Pneumatic Valve	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center	2: Hava 2: Air	B: Alt Plaka B: Sub-Base	FN3: 3-Yol / Port NPT G 1/8	L: Kilitleli L: Lever Locking	M: 180 Derece Fiş Giriş Kablo LED'li M: 180 Degree Plug-in Wire Assembly With LED	D2: DC 12V
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			FC5: 5-Yol / Port Ø6 Rekor / Fitting			
	7: 3/2 Normalde Açık 7: 3/2 Normally Open	3: Yay 3: Spring		FC3: 3-Yol / Port Ø6 Rekor / Fitting	D: M5 x 0.8 Dış Plaka / External Plate		
				B: Körtleme Plakası / Blanking Plate			

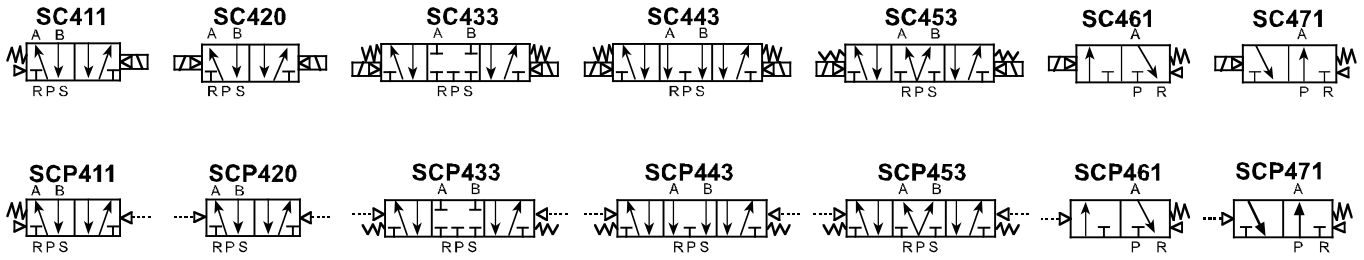
SC400 Kompakt Seri Valfler / SC400 Compact Serie Valves



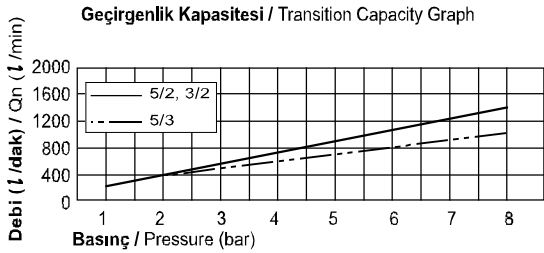
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 7.0 bar	2.0 ~ 7.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	16.0	12.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding DC: 0.65W (24V:27.0mA/12V:54.0mA)	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

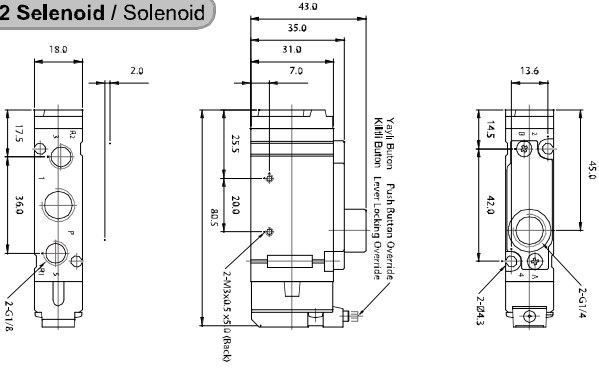
Sipariş Kodu / Ordering Code

SC4	1	1	D	F5	P	L	D4	
Valf Serisi Valve Series	Fonksiyon Function	Geri Dönme Yöntemi Return Method	Bağlantı Tipi Port Type	Bağlantı Plakası ve Dişleri Port Plate & Thread	Manuel Çalıştırma Manual Operator	Soket Tipi Connector Type	Voltaj Voltage	
SC4: Selenoid Valf SC4: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold D: Manifold	0: Yok / None	0: Yok 0: None	L: 90 Derece Fiş Giriş Kablo LED'li L: 90 Degree Plug-in Wire Assembly With LED	0: Yok 0: None	
	2: 5/2 Çift 2: 5/2 Double			F5: 5-Yol / Port G 1/4				
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		F3: 3-Yol / Port G 1/4	P: Yaylı Kilitsiz P: Push Non-Locking		D4: DC 24V	
	4: 5/3 Açık Merkez 4: 5/3 Open Center			FN5: 5-Yol / Port NPT G 1/4				
SCP4: Pnömatik Valf SCP4: Pneumatic Valve	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center	2: Hava 2: Air	B: Alt Plaka B: Sub-Base	FN3: 3-Yol / Port NPT G 1/4	L: Kilitli L: Lever Locking	M: 180 Derece Fiş Giriş Kablo LED'li M: 180 Degree Plug-in Wire Assembly With LED		D2: DC 12V
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			FC5: 5-Yol / Port Ø8 Rekor / Fitting				
	7: 3/2 Normalde Açık 7: 3/2 Normally Open	3: Yay 3: Spring		FC3: 3-Yol / Port Ø8 Rekor / Fitting	E: M5 x 0.8 Diş Plaka / External Plate			
				B: Körleme Plakası / Blanking Plate				

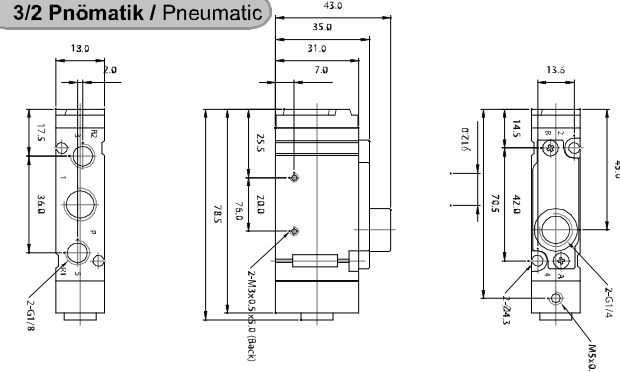
SC400 Kompakt Seri Valfler / SC400 Compact Serie Valves

Teknik Çizimler / Technical Drawings

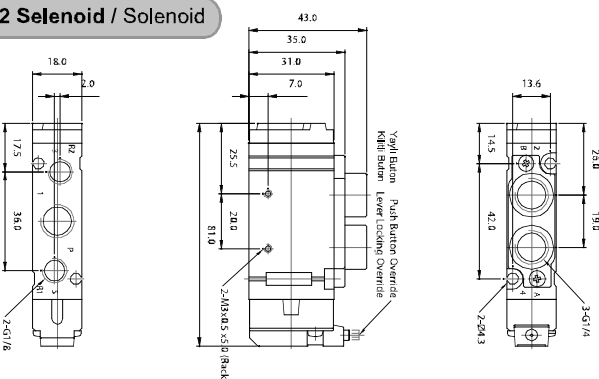
3/2 Solenoid / Solenoid



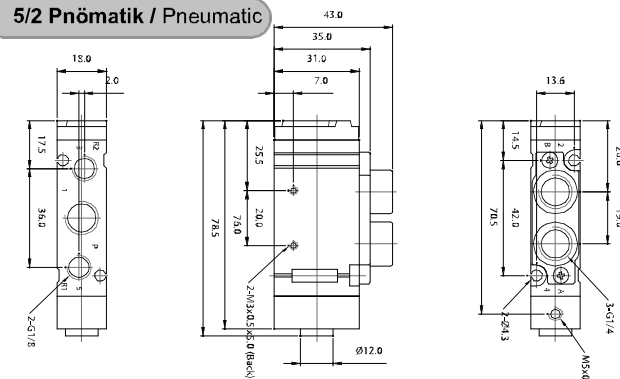
3/2 Pnömatik / Pneumatic



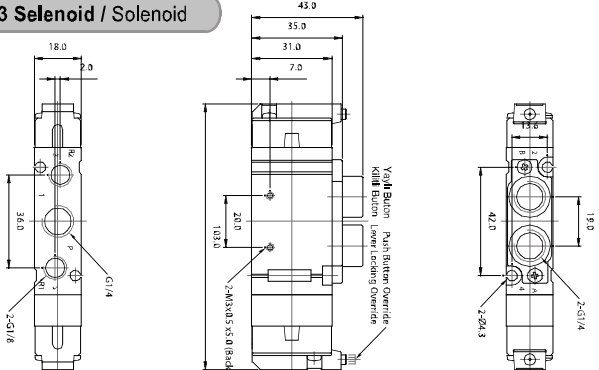
5/2 Solenoid / Solenoid



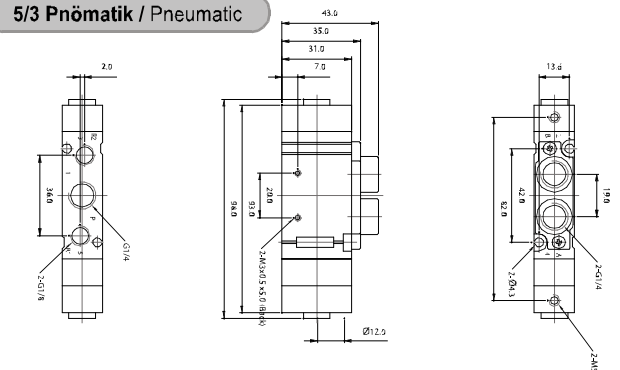
5/2 Pnömatik / Pneumatic



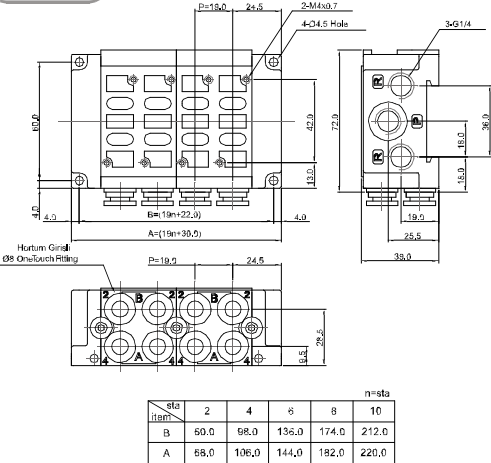
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



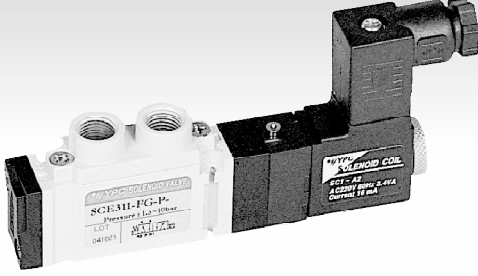
SCB 40



Manifold Bloğu Parçaları / Manifold Block Parts

SCB4	1	S	M04
SC 400 Solenoid Valf SC 400 Solenoid Valve	0: Yok 0: None	D: Manifold, 1/4" D: Manifold, Port 1/4"	M02: 2-İstasyon M02: 2-Station
	1: G	S: Pilotsuz 1/4" Tekli Alt Plaka S: Single Station Sub Base, 1/4" Port Without Pilot Ports	M04: 4-İstasyon M04: 4-Station
2: NPT		DB: Pilotsuz 1/4", Çiftli Modüler Alt Plaka DB: Double Moduler Sub Base, 1/8" Port Without Pilot Ports	M06: 6-İstasyon M06: 6-Station
		DC8: Çiftli Modüler Alt Plaka Ø8 Otomatik Rekorlu DC8: Double Moduler Sub Base Ø8 Fitting	M08: 8-İstasyon M08: 8-Station
		E: Arka Kapak, 1/4" E: End Cover, 1/4" Port	M10: 10-İstasyon M10: 10-Station
		EB: Arka Körleme Kapağı EB: End Blanking Cover	

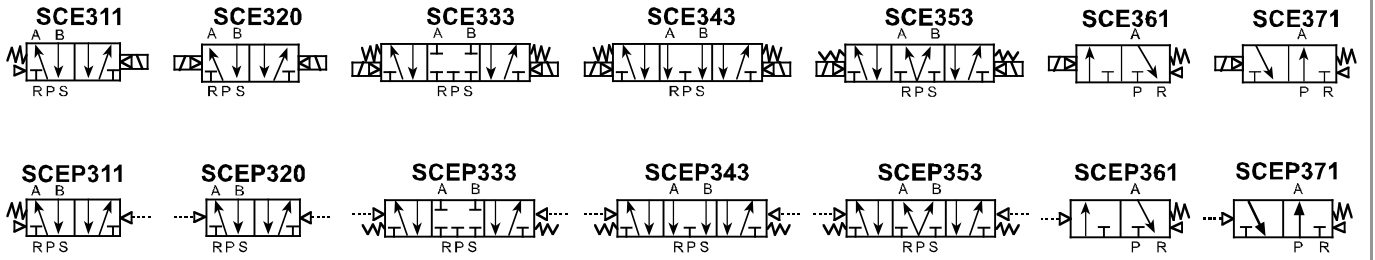
SCE300 Ekonomi Serisi Valfleri / SCE300 Economy Serie Valves



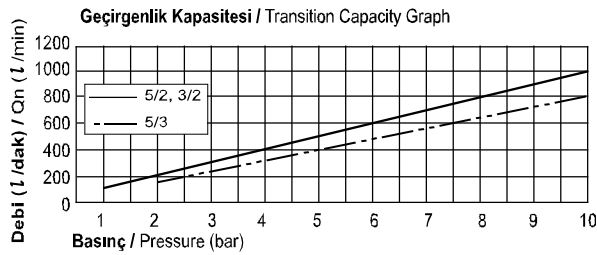
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	9.5	7.5
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı(s) / Min. Activating Time(sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	8 çevrim/sn / 8 cycle/sec	5 çevrim/sn / 5 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding AC:3.5VA(60Hz) / DC:2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



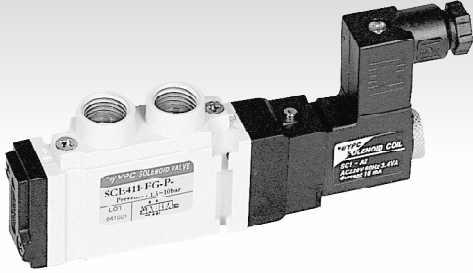
Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

Sipariş Kodu / Ordering Code

SCE3	1	1	D	F5	P	SC1	CN1	A2
Valf Serisi Valve Series	Fonksiyon Function	Geri Dönme Yöntemi Return Method	Bağlantı Tipi Port Type	Bağlantı Plakası ve Dişleri Port Plate & Thread	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SCE3: Selenoid Valf SCE3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold D: Manifold	0: Yok / None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double			F5: 5- Yol / Port G 1/4		SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil		A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		F3: 3- Yol / Port G 1/4	P: Yaylı Kilitli P: Push Non Locking	SG1: Kauçuk Rondelali SG1: Grommet / Flying Leads	CN1: Normal Soket CN1: Normal Connector	A1: AC 110V
	4: 5/3 Açık Merkez 4: 5/3 Open Center			FN5: 5- Yol / Port NPT G 1/4		SD1: Kauçuk Rondelali ve LED'li SD1: Grommet / Flying Leads With LED		CD1: Soket LED'li CD1: Connector With LED
SCEP3: Pnömatik Valf SCEP3: Pneumatic Valve	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center	2: Hava 2: Air	B: Alt Plaka B: Sub-Base	FC5: 5- Yol / Port Ø6 Rekor / Fitting	L: Kilitli L: Lever Locking	SL1: 90 Derece Fiş Giriş Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly With LED	CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor	D4: DC 24V
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			FC3: 3- Yol / Port Ø6 Rekor / Fitting		SM1: 180 Derece Fiş Giriş Kablo LED'li SM1: 180 Degree Plug-in Wire Assembly With LED		D2: DC 12V
	7: 3/2 Normalde Açık 7: 3/2 Normally Open	3: Yay 3: Spring		E: M5 x 0.8 Dış Plaka / External Plate				
				B: Körleme Plakası / Blanking Plate				

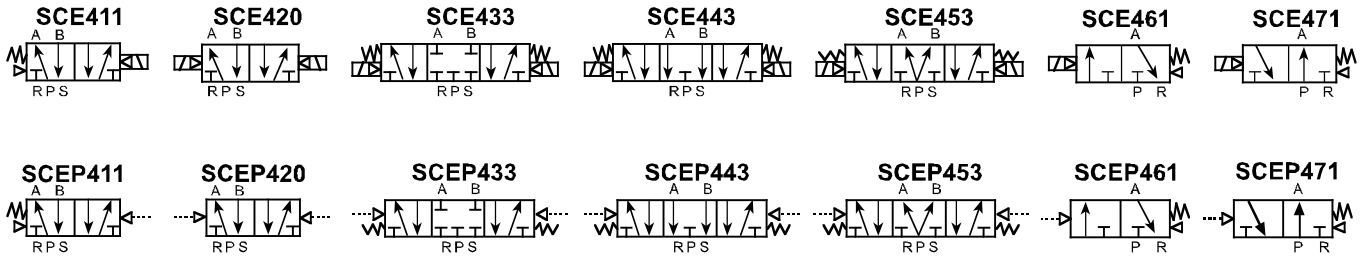
SCE400 Ekonomi Serisi Valfleri / SCE400 Economy Serie Valves



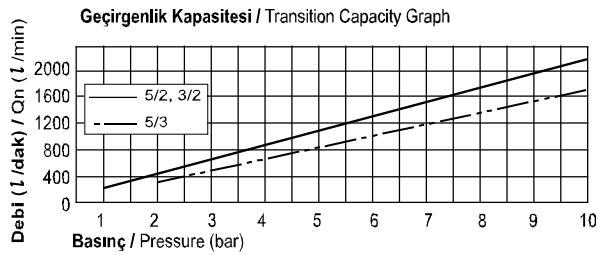
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	16.0	12.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	25 ms yada daha az / 25 ms or less	35 ms yada daha az / 35 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding AC:3.5VA(60Hz) / DC:2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

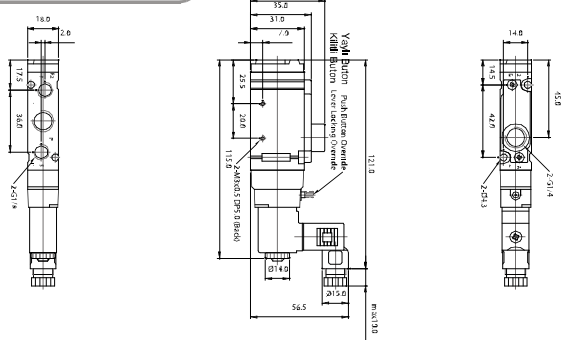
Sipariş Kodu / Ordering Code

SCE4	1	1	D	F5	P	SC1	CN1	A2	
Valf Serisi Valve Series	Fonksiyon Function	Geri Dönme Yöntemi Return Method	Bağlantı Tipi Port Type	Bağlantı Plakası ve Dişleri Port Plate & Thread	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage	
SCE4: Selenoid Valf SCE4: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold D: Manifold	0: Yok / None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	
	2: 5/2 Çift 2: 5/2 Double			F5: 5-Yol / Port G 1/4					
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		F3: 3-Yol / Port G 1/4		P: Yaylı Kilitsiz P: Push Non Locking	SC1: 3'lü Bağlantı SC1: 3 Pin Connector Coil	CN1: Normal Soket CN1: Normal Connector	A2: AC 220V
	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air		FN5: 5-Yol / Port NPT G 1/4		SD1: Kauçuk Rondelali SD1: Grommet / Flying Leads With LED	A1: AC 110V		
SCEP4: Pnömatik Valf SCEP4: Pneumatic Valve	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center	2: Hava 2: Air	B: Alt Plaka B: Sub-Base	FN3: 3-Yol / Port NPT G 1/4	L: Kilitli L: Lever Locking	SL1: 90 Derece Fiş Giriş Kablo LED'li SL1: 90 Degree Plug-in Wire Assembly With LED	CD1: Soket LED'li CD1: Connector With LED	A4: AC 24V	
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed			3: Yay 3: Spring				FC3: 3-Yol / Port Ø8 Rekor / Fitting	SM1: 180 Derece Fiş Giriş Kablo LED'li SM1: 180 Degree Plug-in Wire Assembly With LED
	7: 3/2 Normalde Açık 7: 3/2 Normally Open	B: Körleme Plakası / Blanking Plate		E: M5 x 0.8 Diş Plaka / External Plate				CZ1: Soket LED'li ve Şok Emicili CZ1: Connector With LED & Surge Suppressor	D2: DC 12V

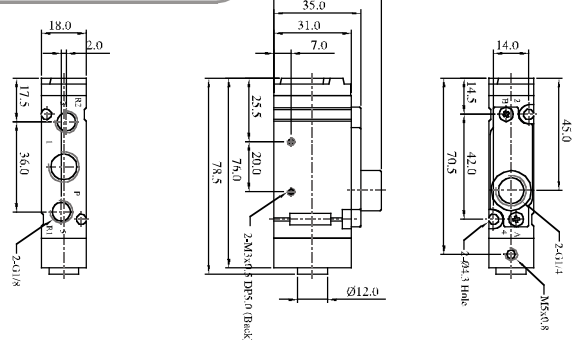
SCE400 Ekonomi Serisi Valfleri / SCE400 Economy Serie Valves

Teknik Çizimler / Technical Drawings

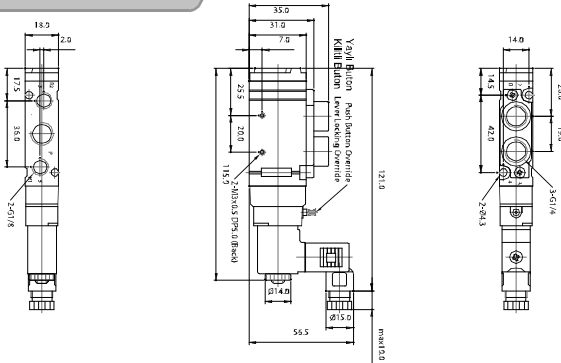
3/2 Solenoid / Solenoid



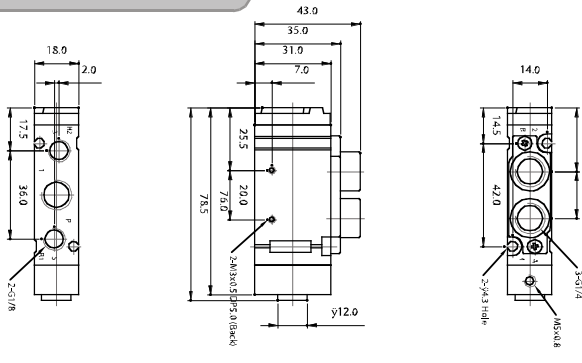
3/2 Pnömatik / Pneumatic



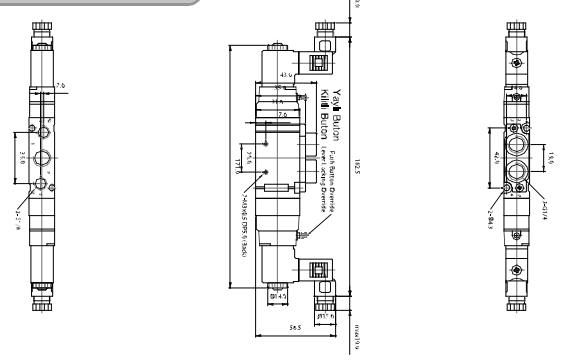
5/2 Solenoid / Solenoid



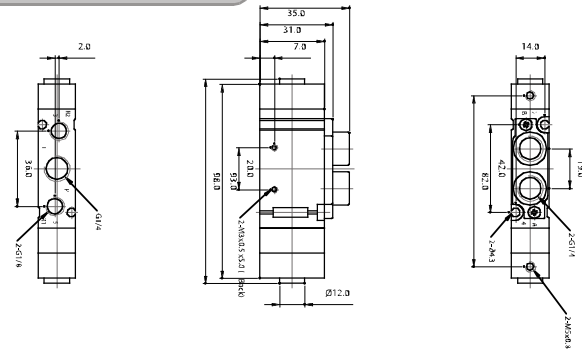
5/2 Pnömatik / Pneumatic



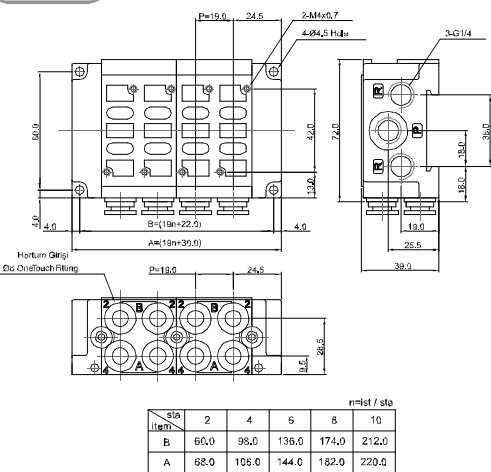
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



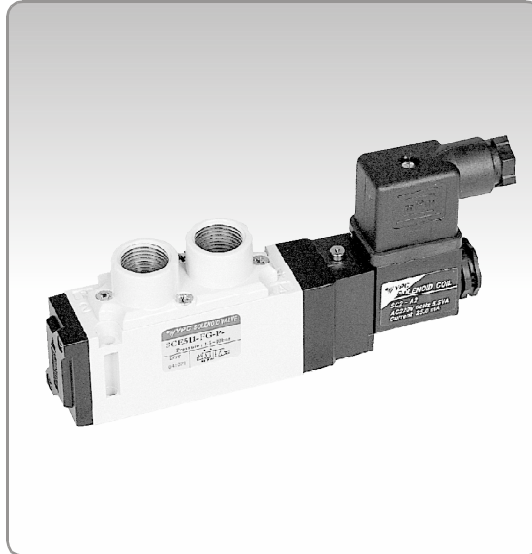
SCB 40



Manifold Bloğu Parçaları / Manifold Block Parts

SCB4	1	S	M04
0: Yok 0: None	1: G	D: Manifold, 1/4" D: Manifold, Port 1/4"	M02: 2-İstasyon M02: 2-Station
		S: Pilotsuz 1/4" Tekli Alt Plaka S: Single Station Sub Base, 1/4" Port Without Pilot Ports	M04: 4-İstasyon M04: 4-Station
2: NPT	1: G	DB: Pilotsuz 1/4", Çiftli Modüler Alt Plaka DB: Double Moduler Sub Base, 1/4" Port Without Pilot Ports	M06: 6-İstasyon M06: 6-Station
		DC8: Çiftli Modüler Alt Plaka Ø8 Otomatik Rekorlu DC8: Double Moduler Sub Base Ø8 Fitting	M08: 8-İstasyon M08: 8-Station
		E: Arka Kapak, 1/8" E: End Cover, 1/8" Port	M10: 10-İstasyon M10: 10-Station
		EB: Arka Körleme Kapağı EB: End Blanking Cover	

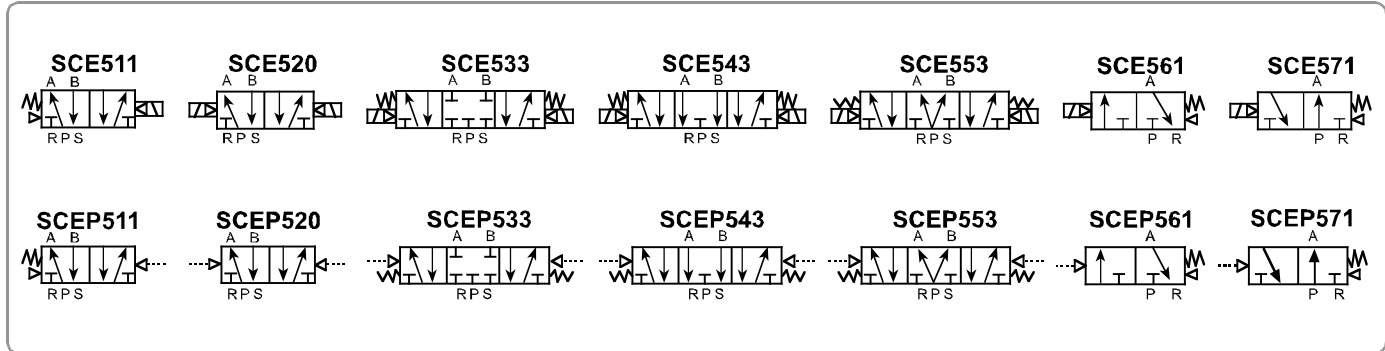
SCE500 Ekonomi Serisi Valfleri / SCE500 Economy Serie Valves



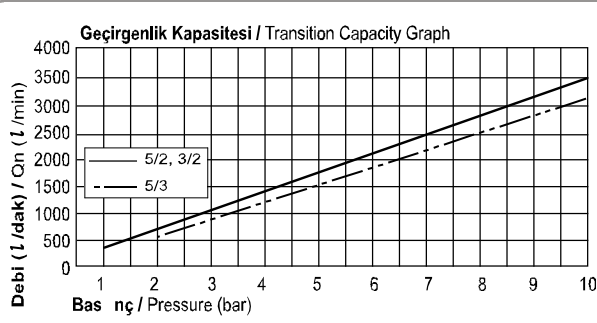
Özellikler / Specification

Model / Model	5, 3 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	40.0	30.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less / DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC:5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

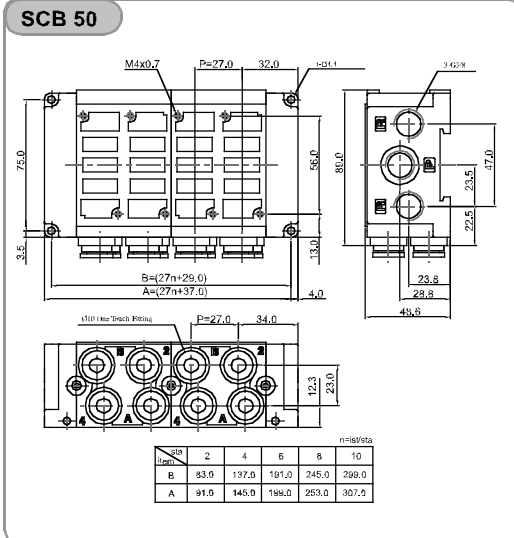
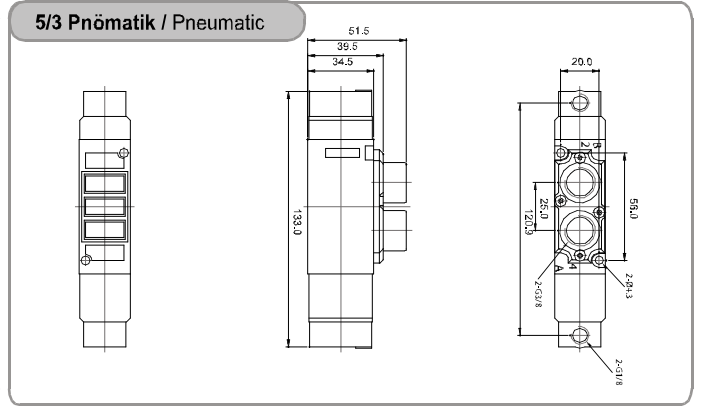
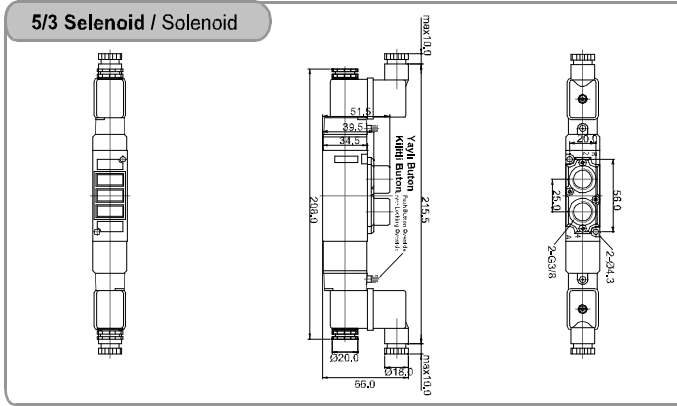
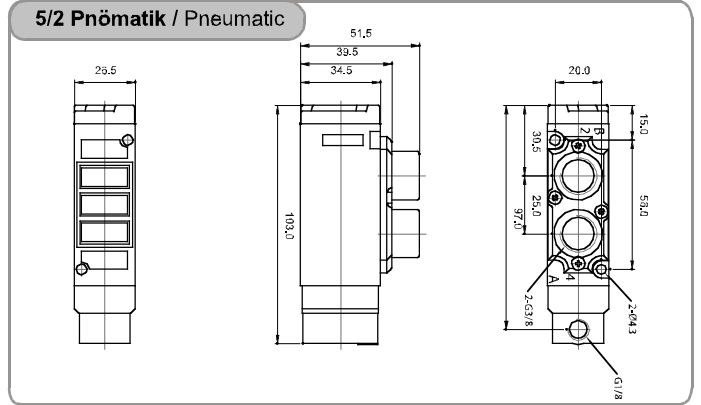
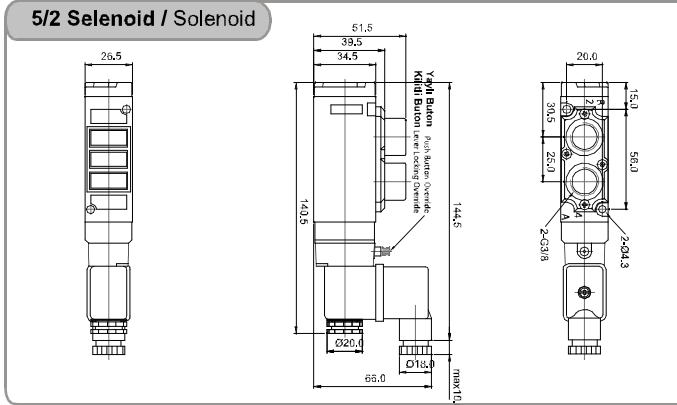
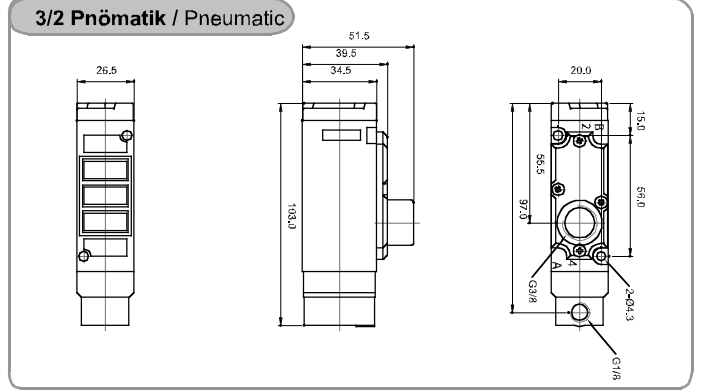
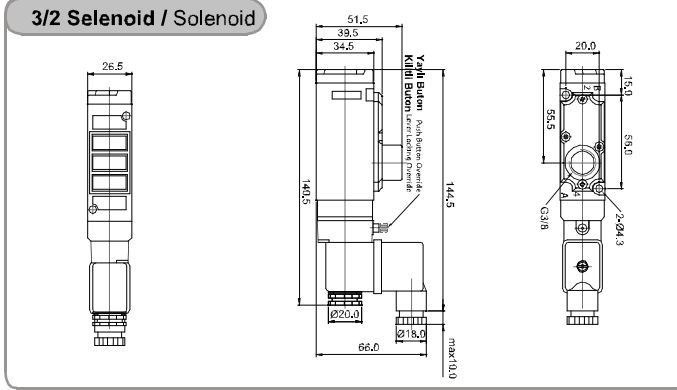
Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

Sipariş Kodu / Ordering Code

SCE5	1	1	D	F	P	SC2	CN2	D4			
Valf Serisi / Valve Series	Fonksiyon / Function	Geri Dönme Yöntemi / Return Method	Bağlantı Tipi / Port Type	Bağlantı Plakası ve Dişi / Port Plate & Thread	Manuel Çalıştırma / Manuel Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage			
SCE5: Selenoid Valf SCE5: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: Yok 0: None	D: Manifold D: Manifold	F: G 3/8"	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None			
	2: 5/2 Çift 2: 5/2 Double			FN: NPT 3/8							
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: Hava + Yay 1: Air + Spring		FC: Ø10 Otomatik Rekor FC: Ø10 One Touch Fitting					P: Yaylı Kilitli P: Push Non-Locking	SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	CN2: Normal Soket CN2: Normal Connector
SCEP5: Pnömatik Valf SCEP5: Pneumatic Valve	4: 5/3 Açık Merkez 4: 5/3 Open Center	2: Hava 2: Air	B: Alt Plaka B: Sub-Base	B: Arka Körlme Plakası B: Blanking End Plate	L: Kilitli L: Lever Locking	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A4: AC 24V D2: DC 24V D2: DC 12V			
	5: 5/3 Basınç Merkez 5: 5/3 Pressure Center			E: Arka Dış Plaka, M5 x 0.8 E: External End Plate, M5 x 0.8					SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED	CZ2: Soket LED'li ve Şok Emicilli CZ2: Connector With LED & Surge Suppressor	
	6: 3/2 Normalde Kapalı 6: 3/2 Normally Closed	3: Yay 3: Spring									
	7: 3/2 Normalde Açık 7: 3/2 Normally Open										

SCE500 Ekonomi Serisi Valfleri / SCE500 Economy Serie Valves

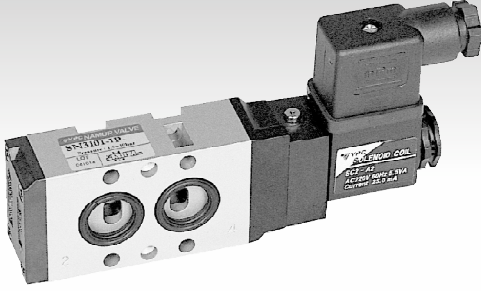
Teknik Çizimler / Technical Drawings



Manifold Bloğu Parçaları / Manifold Block Parts

SCB5	1	S	M04
SC 500 Solenoid Valf SC 500 Solenoid Valve	0: Yok 0: None	D: Manifold, 3/8" D: Manifold, Port 3/8"	M02: 2-İstasyon M02: 2-Station
		S: Pilotsuz 3/8" Tekli Alt Plaka S: Single Station Sub Base, 3/8" Port Without Pilot Ports	M04: 4-İstasyon M04: 4-Station
1: G	1: G	DB: Pilotsuz 3/8", Çiftli Modüler Alt Plaka DB: Double Moduler Sub Base, 3/8" Port Without Pilot Ports	M06: 6-İstasyon M06: 6-Station
		DC10: Çiftli Modüler Alt Plaka Ø10 Otomatik Rekorlu DC10: Double Moduler Sub Base Ø10 Fitting	M08: 8-İstasyon M08: 8-Station
2: NPT	2: NPT	E: Arka Kapak, 3/8" E: End Cover, 3/8" Port	M10: 10-İstasyon M10: 10-Station
		EB: Arka Körleme Kapağı EB: End Blanking Cover	

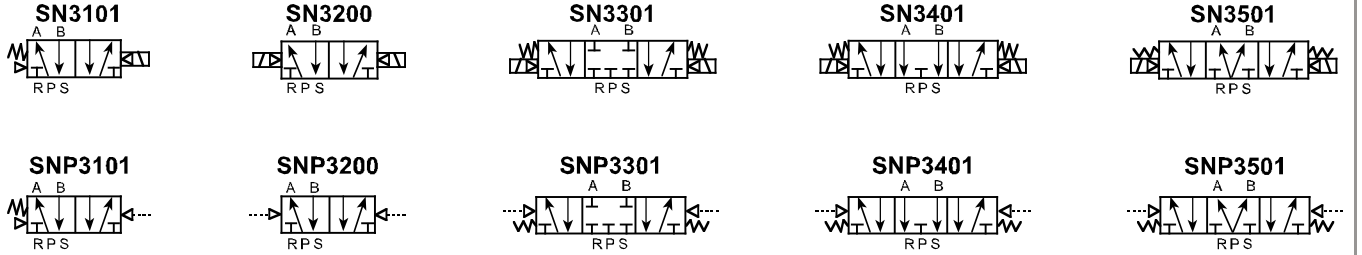
SN3000 Namur Serisi Valfler / SN3000 Namur Series Valves



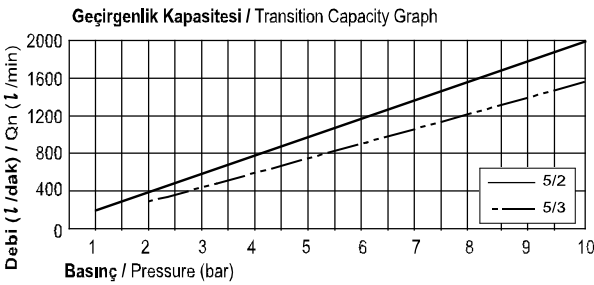
Özellikler / Specification

Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	18.0	12
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı(sn) / Min. Activating Time(sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

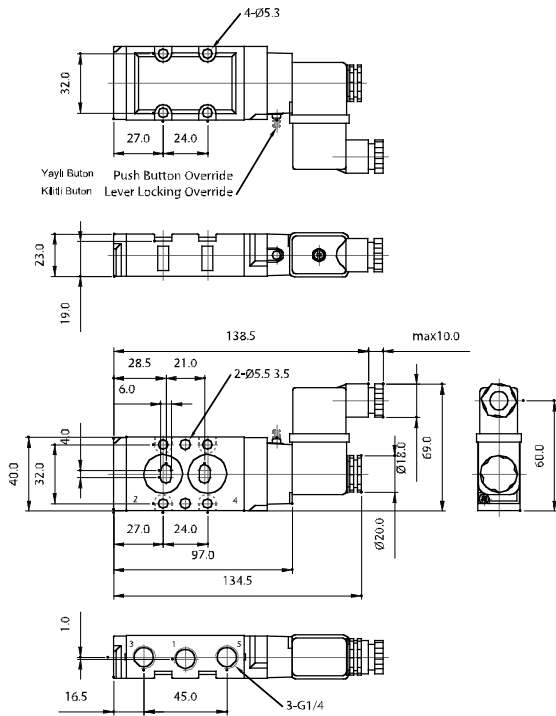
Sipariş Kodu / Ordering Code

SN3	1	0	1	I	P	SC2	CN2	A2
Valf Serisi / Valve Series	Fonksiyon / Function	Bağlantı Ölç. & Diş Tipi / Port Size & Thread	Geri Dönme Yöntemi / Return Method	Pilot Tipi / Int. / Ext. Pilot	Manuel Çalıştırma / Manual Operator	Selenoid Bobin Tipi / Solenoid Coil Type	Soket Tipi / Connector Type	Voltaj / Voltage
SN3: Selenoid Valf SN3: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: G 1/4"	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring				CN2: Normal Soket CN2: Normal Connector	A2: AC 220V
	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center		2: Hava 2: Air				P: Yaylı Kilitli P: Push Non-Locking	CD2: Soket LED'li CD2: Connector With LED
4: 5/3 Açık Merkez 4: 5/3 Open Center	3: Yay 3: Spring	L: Kilirli L: Lever Locking		CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	A4: AC 24V			
SNP3: Pnömatik Valf SNP3: Pneumatic Valve		5: 5/3 Basınç Merkez 5: 5/3 Pressure Center	1: NPT 1/4"				SG2: Kaçuk Rondelali SG2: Grommet / Flying Leads	CNM2: Normal Metal Soket CNM2: Normal Metal Connector
								SD2: Kaçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED
							CZM2: Metal Soket LED'li ve Şok Emicili CZM2: Metal Connector With LED & Surge Suppressor	

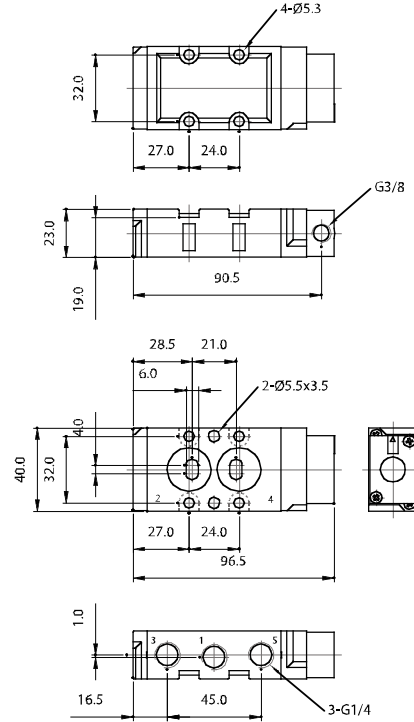
SN3000 Namur Serisi Valfler / SN3000 Namur Series Valfler

Teknik Çizimler / Technical Drawings

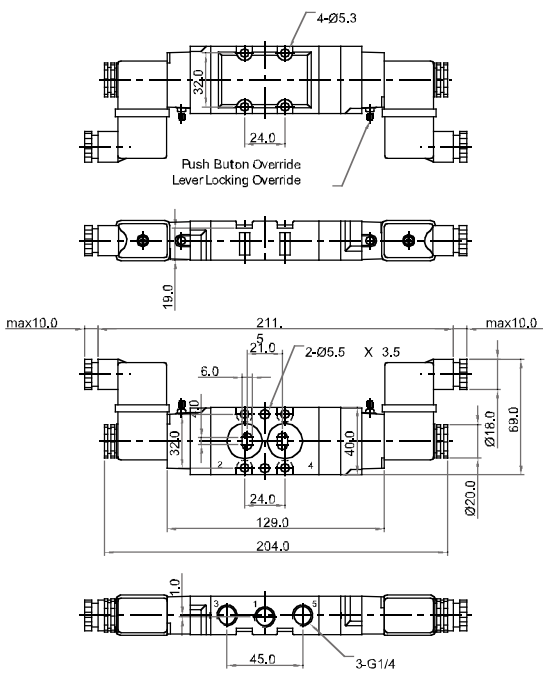
5/2 Solenoid / Solenoid



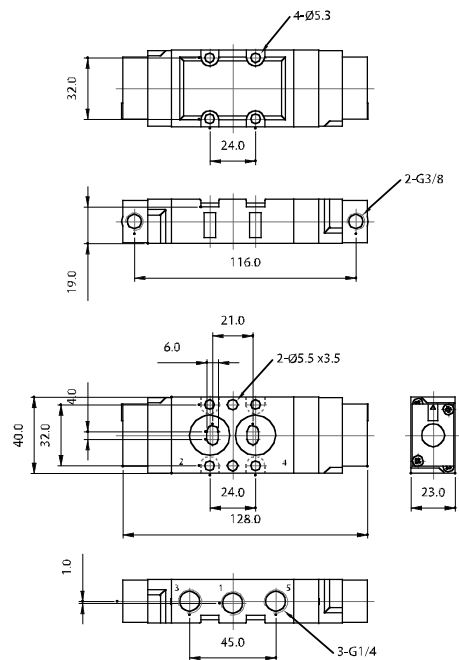
5/2 Pnömatik / Pneumatic



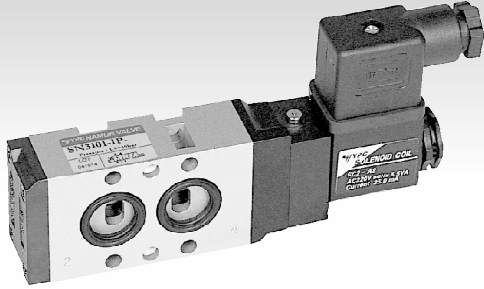
5/3 Solenoid / Solenoid



5/3 Pnömatik / Pneumatic



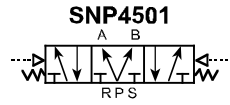
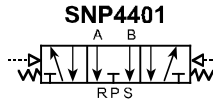
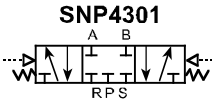
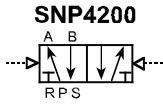
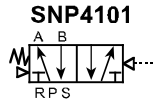
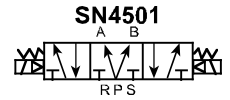
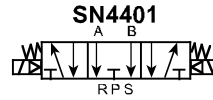
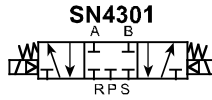
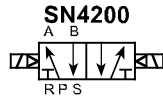
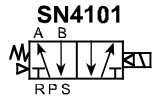
SN4000 Namur Serisi Valfler / SN4000 Namur Series Valves



Özellikler / Specification

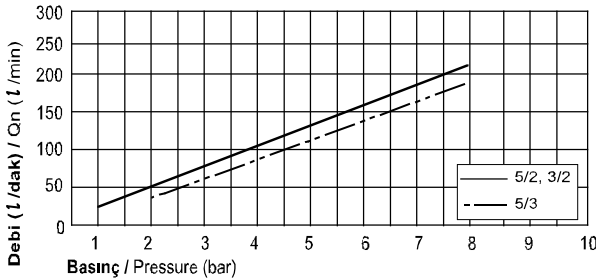
Model / Model	5 Yol / Port - 2 Konum / Position	5 Yol / Port - 3 Konum / Position
Akışkan / Fluid	40µ Filtrelenmiş Hava / Air (to be by 40µ Filter Element)	
Çalışma Basıncı / Operating Pressure	1.5 ~ 10.0 bar	2.0 ~ 10.0 bar
Kesit Alan / Eff. Sectional Area (mm ²) - 5 bar	32.0	16.0
Voltaj Toleransı / Permissible Voltage Variation	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Min. Aktifleşme Zamanı (sn) / Min. Activating Time (sec)	30 ms yada daha az / 30 ms or less	40 ms yada daha az / 40 ms or less
Max. Çalışma Frekansı / Max. Frequency	5 çevrim/sn / 5 cycle/sec	3 çevrim/sn / 3 cycle/sec
Yağlama / Lubrication	Gerekirmez / Not Required (ISO VG32#)	
Yalıtım / Insulation	F Sınıfı / F Class	
Voltaj Aralığı / Voltage Range	AC: 20% veya Daha Az / or Less - DC: 10% veya Daha Az / or Less	
Güç Tüketimi / Power Consumption	Tutma / Holding - AC: 5.5VA (60Hz) / DC: 2.5W	

Sembol / Symbol



Akış Diyagramı / Flow Chart

Geçirgenlik Kapasitesi / Transition Capacity Graph



Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Valf Gövdesi / Valve Body	Alüminyum Kokil Döküm / Die-Cast Aluminium
Spul / Spool	Alüminyum / Aluminium
Keçeler / Seals	NBR
Yay / Spring	Paslanmaz / Stainless
Kapak / Cap	Sıkıştırılmış Çinko Döküm / Zinc Pressure Die-Cast
Pilot Parçaları / Pilot Parts	Cam Takviyeli Naylon / Glass Filled Nylon
Armatür / Armature	Paslanmaz Çelik / Stainless Steel
Armatür Keçeleri / Armature Seals	Viton / Viton

Sipariş Kodu / Ordering Code

SN4	1	0	1	I	P	SC2	CN2	A2
Valf Serisi Valve Series	Fonksiyon Function	Bağlantı Ölç. & Dış Tipi Port Size & Thread	Geril Dönme Yöntemi Return Method	Pilot Tipi Int. / Ext. Pilot	Manuel Çalıştırma Manual Operator	Selenoid Bobin Tipi Solenoid Coil Type	Soket Tipi Connector Type	Voltaj Voltage
SN4: Selenoid Valf SN4: Solenoid Valve	1: 5/2 Tek 1: 5/2 Single	0: G 1/4"	0: Yok 0: None	I: İçten Pilot I: Internal Pilot	P: Yayı Kilitli P: Push Non-Locking	0: Yok 0: None	0: Yok 0: None	0: Yok 0: None
	2: 5/2 Çift 2: 5/2 Double		1: Hava + Yay 1: Air + Spring				CN2: Normal Soket CN2: Normal Connector	A2: AC 220V
SNP4: Pnömatik Valf SNP4: Pneumatic Valve	3: 5/3 Kapalı Merkez 3: 5/3 Closed Center	1: NPT 1/4"	2: Hava 2: Air	L: Kilitli L: Lever Locking	SC2: 3'lü Bağlantı SC2: 3 Pin Connector Coil	SG2: Kauçuk Rondelali SG2: Grommet / Flying Leads	CD2: Soket LED'li CD2: Connector With LED	A1: AC 110V
	4: 5/3 Açık Merkez 4: 5/3 Open Center		3: Yay 3: Spring				CZ2: Soket LED'li ve Şok Emicili CZ2: Connector With LED & Surge Suppressor	A4: AC 24V
	5: 5/3 Basıncı Merkez 5: 5/3 Pressure Center		SD2: Kauçuk Rondelali ve LED'li SD2: Grommet / Flying Leads With LED				CNM2: Normal Metal Soket CNM2: Normal Metal Connector	D4: DC 24V
							CDM2: Metal Soket LED'li CDM2: Metal Connector With LED	D2: DC 12V
							CZM2: Metal Soket LED'li ve Şok Emicili CZM2: Metal Connector With LED & Surge Suppressor	

Solenoid Bobin Serisi / Solenoid Coil Series

Özellikler / Specification

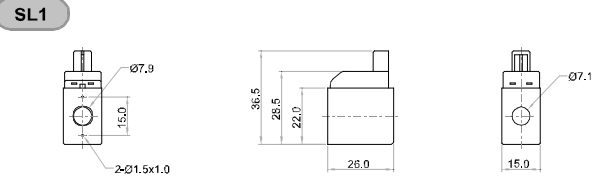
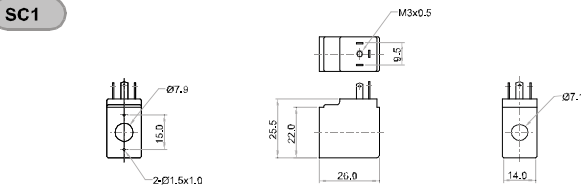
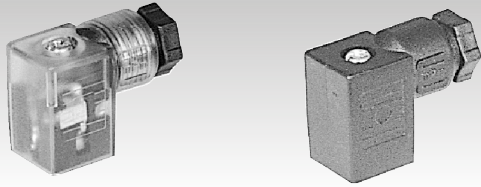
Model / Model	SC1	SC2
Voltaj Toleransı / Voltage Tolerances	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Yalıtım / Insulation	F Sınıfı / F Class	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Güç Tüketimi / Power Consumption	AC: 3.5VA (60Hz)	AC: 5.5VA (60Hz)
	AC: 4.5VA (50Hz)	AC: 6.5VA (50Hz)
	DC: 2.5W	DC: 2.5W

Sipariş Kodu / Ordering Code

SC1	A2
Solenoid Bobin Tipi / Solenoid Coil Type	Voltaj / Voltage
SC1: 15 mm - 3'lü Bağlantı / SC1: 15 mm - 3 Pin Connector Coil	0: Yok / 0: None
SG1: 15 mm - Kaçuk Rondelalı / SG1: 15 mm - Grommet / Flying Leads	A2: AC 220V
SD1: 15 mm - Kaçuk Rondelalı ve LED'li / SD1: 15 mm - Grommet / Flying Leads With LED	A1: AC 110V
SL1: 90 Derece Fişli Kablo LED'li / SL1: 90 Degree Plug-in Wire Assembly LED	A4: AC 24V
SM1: 180 Derece Fişli Kablo LED'li / SM1: 180 Degree Plug-in Wire Assembly LED	D4: DC 24V
SC2: 22 mm - 3'lü Bağlantı / SC2: 22 mm - 3 Pin Connector Coil	D2: DC 12V
SG2: 22 mm - Kaçuk Rondelalı / SG2: 22 mm - Grommet / Flying Leads	
SD2: 22 mm - Kaçuk Rondelalı ve LED'li / SD2: 22 mm - Grommet / Flying Leads With LED	

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Gövde / Body	Cam Takviyeli Naylon / Glass Filled Nylon
Kablo / Lead Wire	AWG-NO.22, NO.24
Kablo Koruması / Lead Wire Packing	Viton / Viton
İç Boru / Yoke	Karbon Çeliği / Carbon Iron
Belirteç / Indicator	Polikarbonat / Polycarbonat

Teknik Çizimler / Technical Drawings

DIN Soket Serisi / DIN Connector Series

Özellikler / Specification

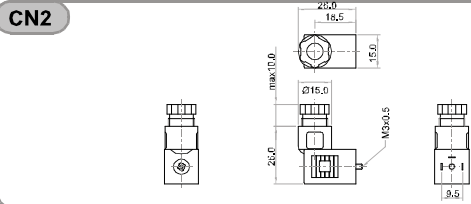
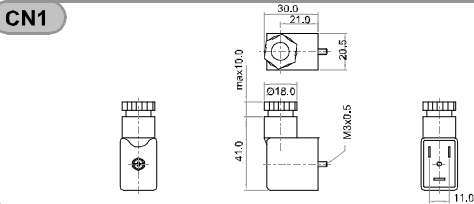
Model / Model	CN1	CN2
Voltaj Toleransı / Voltage Tolerances	±10% da Voltaj Aralığı / ±10% of Rated Voltage	
Koruma / Protection	IP65 (Bobin ile Birlikte / With Coil)	
Sıcaklık / Temperature	5 ~ 60 °C / 41 ~ 140 °F	
Max. Akım / Max Current	2.5 A	
İletkenlik Kesiti / Section Conductance	Max. 0.75 mm ²	Max. 1.50 mm ²

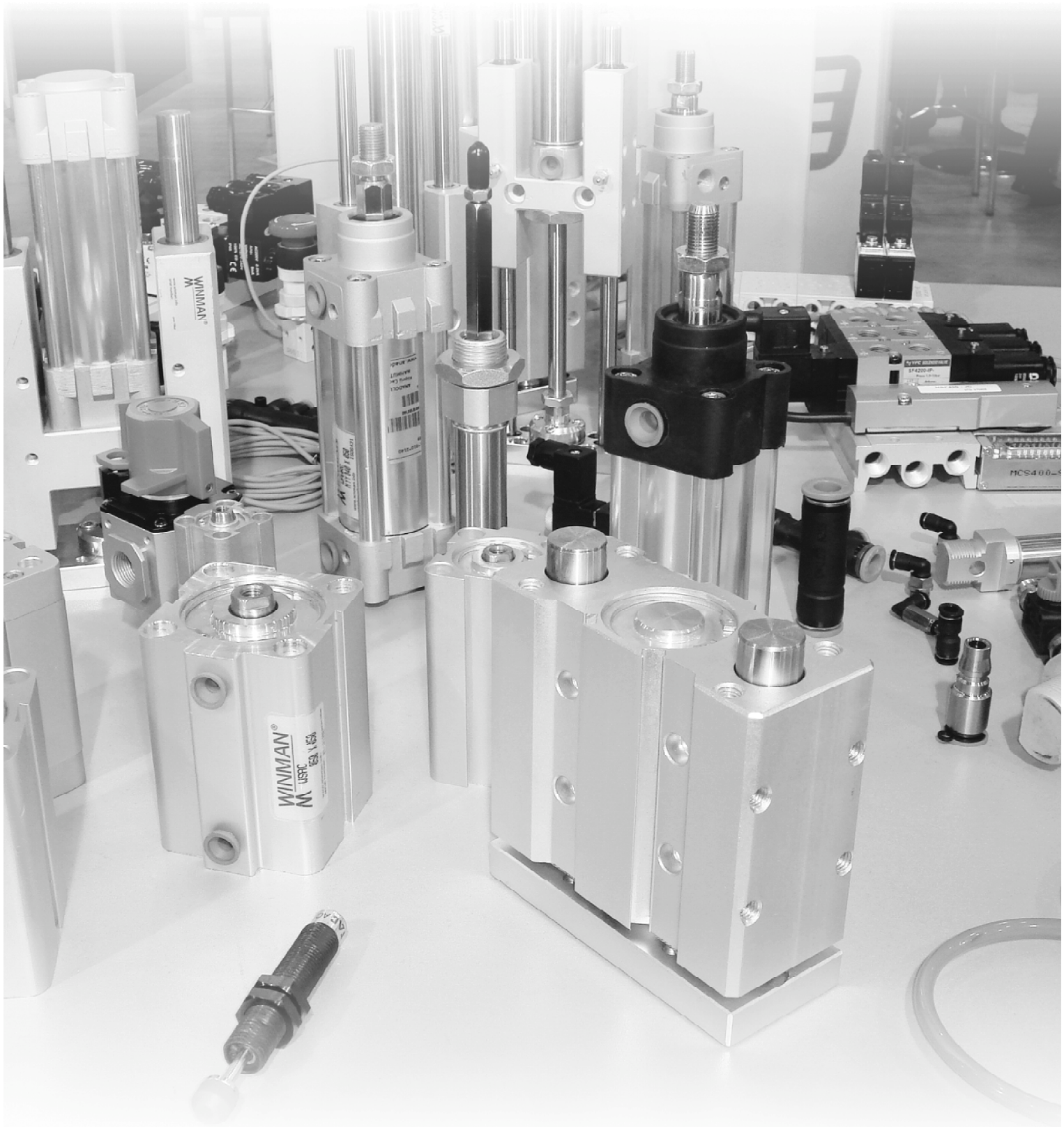
Sipariş Kodu / Ordering Code

SC1	A2
Solenoid Bobin Tipi / Solenoid Coil Type	Voltaj / Voltage
CN1: 15 mm - Normal Soket / CN1: 15 mm - Normal Connector	A2: AC 220V
CD1: 15 mm - Soket LED'li / CD1: 15 mm - Connector With LED	A1: AC 110V
CZ1: 15 mm - Soket LED'li ve Şok Emicili / CZ1: 15 mm - Connector With LED & Surge Suppressor	A4: AC 24V
CN2: 22 mm - Normal Soket / CN2: 22 mm - Normal Connector	D4: DC 24V
CD2: 22 mm - Soket LED'li / CD2: 22 mm - Connector With LED	D2: DC 12V
CZ2: 22 mm - Soket LED'li ve Şok Emicili / CZ2: 22 mm - Connector With LED & Surge Suppressor	
CNM2: 24 mm - Normal Soket / CNM2: 24 mm - Normal Connector	
CDM2: 24 mm - Soket LED'li / CDM2: 24 mm - Connector With LED	
CZM2: 24 mm - Soket LED'li ve Şok Emicili / CZM2: 24 mm - Connector With LED & Surge Suppressor	

Parçaların Malzemeleri / Material of Parts

Parça / Item	Malzeme / Material
Gövde / Body	Cam Takviyeli Naylon / Glass Filled Nylon
Kablo / Lead Wire	AWG-NO.22, NO.24
Kablo Koruması / Lead Wire Packing	Viton / Viton
İç Boru / Yoke	Karbon Çeliği / Carbon Iron
Belirteç / Indicator	Polikarbonat / Polycarbonat

Teknik Çizimler / Technical Drawings


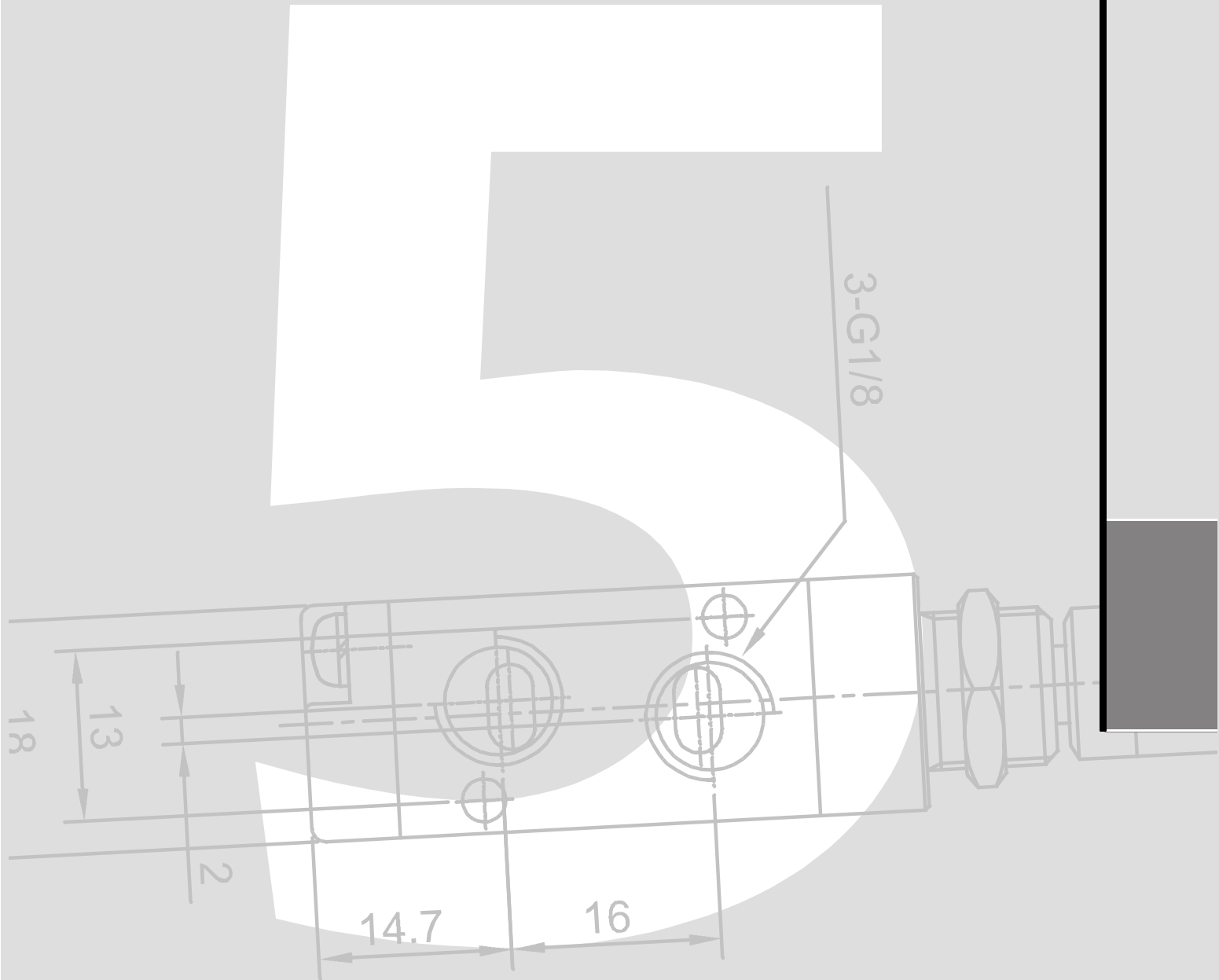


hidtek[®]

WINMAN[®]

MEKANİK KUMANDALI VALFLER

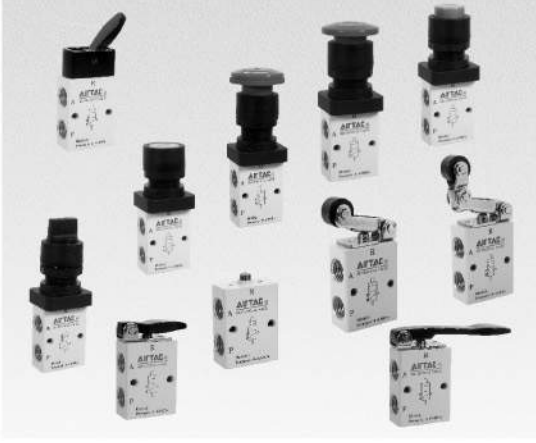
MECHANICALLY ACTUATED VALVES



MEKANİK KUMANDALI VALFLER MECHANICALLY ACTUATED VALVES

- **S3 Serisi Yön Kontrol Valfleri (3/2)**
S3 Series Directional Control Valves (3/2) 5-01 / 5-02
- **3L Serisi Çekmeli Valfler (3/2) / 3L Serisi Push - Pull Valves (3/2)** 5-03 / 5-04
- **4L Serisi Çekmeli Valfler (5/2) / 4L Serisi Push - Pull Valves (5/2)** 5-05 / 5-06
- **4H Serisi Kol Kumandalı Valfler (5/2) / 4H Serisi Hand Lever Valves (5/2)** 5-07
- **4HV Serisi Kol Kumandalı Valfler (4/3 - 4/2)**
4HV Series Hand Lever Valves (4/3 - 4/2) 5-08 / 5-09
- **4F Serisi Pedal Valfler (5/2) / 4F Serisi Foot Pedal Valves (5/2)** 5-10 / 5-11
- **4FM Serisi Pedal Valfler (4/2) / 4FM Serisi Foot Pedal Valves** 5-12
- **PMV Serisi Buton Valfler (5/2 - 3/2) / PMV Serisi Buton Valves (5/2 - 3/2)** 5-13 / 14
- **YMV Serisi Buton & Makaralı Valfler (3/2)**
YMV Series Button & Roller Valves (3/2) 5-15 / 5-16
- **RLV Serisi Makaralı Valfler (3/2 - 5/2) / RLV Serisi Roller Valves (3/2 - 5/2)** 5-17/18
- **KMV Serisi Çekmeli Valfler (3/2 - 5/2)**
KMV Series Knob Push - Pull Valves (3/2 - 5/2) 5-19 / 5-20
- **HLV Serisi Kol Kum. Valfler (3/2-5/2-5/3)**
HLV Series Hand Lever Valves(3/2-5/2-5/3) 5-21 / 5-22
- **FT Serisi Pedal Valfler (5/2 - 5/3) / FT Serisi Foot Pedal Valves (5/2 - 5/3)** 5-23/24
- **YSC Serisi Hız Ayar Valfleri / YSC Serisi Speed Control Valves** 5-25
- **ASC Serisi Hız Ayar Valfleri / ASC Serisi Speed Control Valves** 5-26
- **HSV Serisi Kayar Valfler (3/2) / HSV Serisi Hand Slide Valves (3/2)** 5-27
- **KLA Serisi Hız Ayar Valfleri / KLA Serisi Speed Control Valves** 5-28
- **RE Serisi Hız Ayar Valfleri / RE Serisi Speed Control Valves** 5-28
- **SE Serisi Çabuk Egzost Valfleri / SE Serisi Speedy Exhaust Valves** 5-28
- **ST Serisi VEYA Valfleri / ST Serisi OR Valves** 5-28
- **JPC Serisi Pilotlu Çek (Kilitleme) Valfler / JPC Serisi Piloted Check Valves** 5-28

S3 Serisi / S3 Series



Sembol / Symbol



Ürün Özelliği

- 1- S3B, S3R, S3L ve serilerinin yönünü değiştirmek için gereken harici güç, test pozisyonu ve anahtar sınırı için kullanılabilen harici mekanizma ile sağlanmıştır.
- 2- S3PF, S3PM, S3PP, S3PL, S3Y, S3HS, S3C ve S3D birden yapıdaki kontrol derzleri ve farklı koşullar uygulamaya uygun olması nedeniyle manuel olarak işletilebilir.
- 3- Kapatma yapısı oldukça sıkıdır ve yön değişiminde hassastır, Yağlama gerektirmez.
- 4- Çoklu montajlama onu kurulum ve uygulamaya uygun hale getirir.
- 5- S3C, S3D, S3Y, S3R ve S3L serilerinin kontrol derzleri, uzun ömürlü ve daha güvenilir ve istikrarlı performansa sahip metalden imal edilmiştir.

Product Feature

1. The external force required by changing the direction of the series of S3B, S3R, S3L and S3V is provided by external mechanism, which can be used for position test or limit switch.
2. The series of S3PF, S3PM, S3PP, S3PL, S3Y, S3HS, S3C and S3D are operated manually, owning control joints with several structure forms and suitable for application under different conditions.
3. Shut-off structure has good tightness and is sensitive in direction changing and lubricant is not necessary.
4. Multi-mounting makes it convenient to install and apply.
5. The control joints of series of S3C, S3D, S3Y, S3R and S3L are made of metal which has long service life and more reliable and steady performance.

Özellikler / Specification

Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Sıvı Fluid	Hava (40 µm filtre elemanı ile filtrelenmeli) Air (to be filtered by 40 µm filter element)											
Çalışma Operating	Harici kontrol doğrudan eylem tipi External control direct acting type											
Port Büyüklüğü Port size①	05:M5; 06:1/8"; 08:1/4"											
Ağız Büyüklüğü Orifice size	05:2.5 mm ² (Cv=0.14); 06:8.0mm ² (Cv=0.45); 08:12.0mm ² (Cv=0.67)											
Vana Tipi Valve type	3 port 2 pozisyon 3/2 Way											
Yağlama 2 Lubrication②	Gerekmiyor Not required											
Basınç Aralığı Pressure range	0~0.8MPa(0~114psi)											
Basınç Dayanıklılığı Proof pressure	1.5MPa(215psi)											
Sıcaklık °C Temperature	-20~70 °C											
Gövde Malzemesi Material body	Alüminyum Ulaşım Aluminum alloy											

1- PT dişi, NPT dişi ve G dişi mevcut

2- Yağlama için yağ eklenirse, yarı yolda durmaya izin verilmez. ISO VG32 yağlayıcı madde veya aynı sınıfta bir yağ kullanılması önerilir.

① PT thread, NPT thread and G thread are available.

② Once lubricated air is used, continue with same medium to optimise valve life span. It is suggested to use ISO VG32 lubricant or the oil with the same grade.

Sipariş kodu / Ordering Code

S3 PM - 06 - R - P

Vana Tipi / Valve's type
S3:S tipi 3/2 yollu
S3: S type 3/2 Way

Port Büyüklüğü
Port size
05: M5
06: 1/8"
08: 1/4"

3 Dişli Tipi
Thread type
P: PT
T: NPT
G: G

Model / Model
B: Temel Tip
B: Basic type
C: Uzun saplı Tip
C: Long handle type
D: Kısa Saplı Tip
D: Short handle type
Y: Leveye Tip
Y: Lever type
R: Silindir Tip
R: Roller type
L: Serbest Dönüşlü Silindir Tip
L: Roller with free return type
V: Dikey Tip
V: Vertical type
PL: Mandallama Tip (sadece kırmızı)
PL: Latching type
PP: Çıkıntılı Tip2
PP: Protruding type
PF: Düz Tip
PF: Flat type
PM: Mantar Tip
PM: Mushroom type
HS: Seçici Tip
HS: Selector type

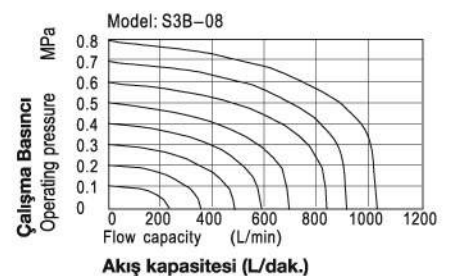
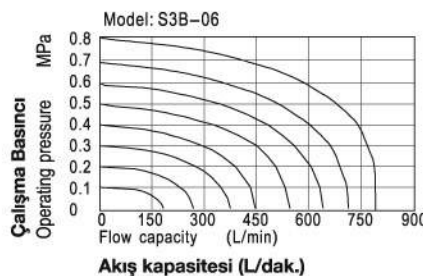
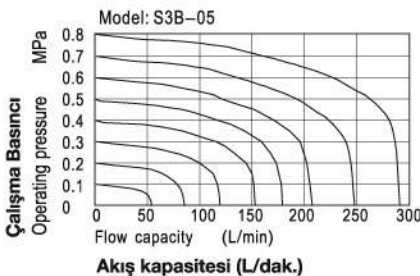
Tuş Rengi
Button color
R: Kırmızı / Red
G: Yeşil / Green
B: Siyah / Black

1 Not: B,C,D,Y,R,L ve V tiplerinin renk kodu yoktur.

2 Not: PP,PF, PM ve HS seçenekleri için üç tuş rengi vardır.

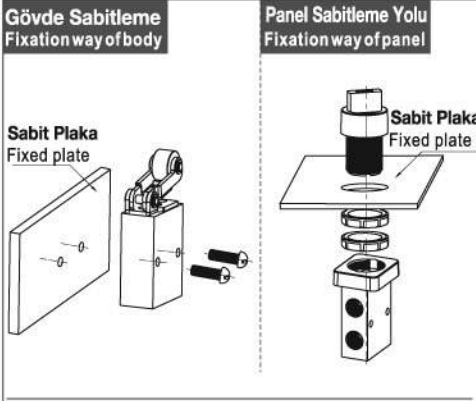
3 Not: Dişli tipi M5 tip ise, kod boştur.

Akış Şeması / Flow Chart



S3 Serisi / S3 Series

Montaj Tablosu / Assemble Chart



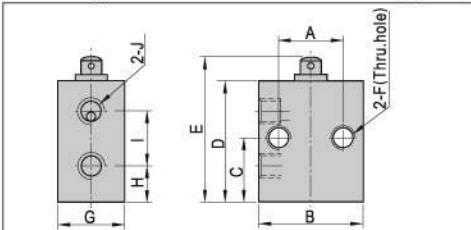
Dikkat ⚠

- 1- Kontrol ayarı yalnızca manuel işleme izin veren mühendislik plastiğinden yapılmıştır ve vanaların metal etkisi ile değiştirmek yasaktır.
- 2- S3B, S3C, S3D, S3PM, S3PF ve S3PP serilerinin otomatik restorasyon fonksiyonu vardır. S3Y, S4HS ve S3PL el vanaları manuel restorasyondur. S3PL oryantasyona basıldıktan sonra döndürme butonunu döndürerek restore edilir.
- 3- Ters yönlü vuruşa dikkat edin. Vananın yön değişimi harici bir güç ile zorlandığında, ters yönlü vuruş, vuruş tablosunda belirtileni aşmayabilir, aksi halde vanaya zarar gelebilir.
- 4- S3L vanayı yalnızca tek yönde değiştirebiliriz (sağdan sola etki) Aksi yöndeki etki geçersizdir. (soldan sağa)
- 5- Kontrol derzi kombinasyonu bireysel olarak düzenlenebilir. Detaylar için sağdaki tabloya göz atın.

Attentions ⚠

- 1)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden.
- 2)The series of S3B, S3C, S3D, S3PM, S3PF and S3PP get the function of automatic restoration. The hand valves of S3Y, S3HS and S3PL are in the type of manual restoration. S3PL will be restored by turning the revolve button after being pressed into orientation.
- 3)Pay attention to the reversing stroke. The reversing stroke can not surpass its stroke stipulated in stroke control table when the direction-change of the valve is forced by any external forces, otherwise it will cause the damage of the valve.
- 4)The S3L can only switch the valve in single direction (impact from right to left). The impact from the other direction is invalid (from left to right).
- 5)Control joint combination can be ordered individually. Please refer to the table on the right for order details.

Gövde Ölçüleri (S3B) / Dimensions Of Body (S3B)



Tür/Öge Type/Item	A	B	C	D	E	F	G	H	I	J
05	16	26	15	30	36	M5x0.8	16.5	9	13	M5x0.8
06	23	30	20.5	41	47	M5x0.8	16.5	11.5	17.5	1/8"
08	24	34	22.5	46	52	M5x0.8	17.5	12	21	1/4"

İç Yapı / Inner Structure

S3PM Tür / S3PM type

No.	Öge Item	No.	Öge Item
1	Gövde Body	11	Tuş Ana Gövdesi Main body of button
2	Taban Kaplaması Bottom cover	12	Tepe Kaplaması Top cover
3	Durdurucu Eklenti Stopper plug	13	Tuş Halkası Button ring
4	Vana Çekirdeği Valve core	14	Sıkıştırma Somunu Clamping nut
5	Vida Screw	15	Tuş Gövdesi Button body
6	Tuş Basma Tokası Button pressing buckle	16	Konektör Connector
7	Yay Spring	17	O-Halkası O-ring
8	Öge Clamping gasket	18	Yay Spring
9	Sıkıştırma Contası Dust cover	19	Yay Spring
10	Tuş Kapağı Button cap	20	O-Halkası O-ring

Ters Yönlü Vuruş / Reversal Stroke

Birim:mm / Unit: mm

Tür Type	Makara Vuruşu Spool stroke	Tuş Vuruşu Button stroke	Tür Type	Makara Vuruşu Spool stroke	Silindir (Kol) Vuruşu Roller(handle) stroke
S3B	2.4~4.0	-	S3R	2.4~3.4	5.5~7.8
S3PF	2.4~4.0	3.8~5.4	S3L	2.4~3.4	6.0~8.6
S3PP	2.4~4.0	3.8~5.4	S3V	2.4~3.8	3.4~4.8
S3PM	2.4~4.0	3.8~5.4	S3C	2.4~3.8	14.4~18.4
S3PL	2.4~4.0	5.9~7.5	S3D	2.4~3.8	7.4~9.4
S3HS	2.4~4.0	5.1~6.7			

Ölçüler / Dimension

Model Model	C Uzun Kollu Tür C Long handle type	D Uzun Kollu Tür D Short handle type	Y Levye Türü Y Lever type
Sipariş Şekli How to order	Sipariş Kodu Ordering code	Tür Type	Sipariş Kodu Ordering code
	M3C210-P13A	M3C210 Uzun Kollu Tür Kontrol Seti M3C210 Long handle type control set	M3D210-Kısa Kollu Tür Kontrol Seti M3D210 Short handle type control set
Uygulanabilir Ürünler Applicable products	S3C05, S3C06, S3C08	S3D05, S3D06, S3D08	S3Y05, S3Y06, S3Y08
Ölçüler Dimensions			

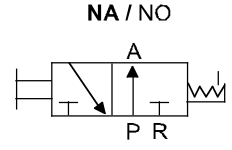
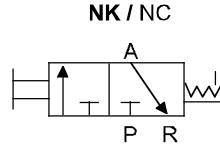
Model Model	R Silindir Tür R Roller type	L Serbest Dönüşlü Tür L Roller with free return type	V Dikey Tür V Vertical type
Sipariş Şekli How to order	Sipariş Kodu Ordering code	Tür Type	Sipariş Kodu Ordering code
	M3R210-P14A	M3R210 Silindir Tür Kontrol Seti M3R210 Roller type control set	M3L210 Serbest Dönüşlü Tür Kontrol Seti M3L210 Roller with free return type control set
Uygulanabilir Ürünler Applicable products	S3R05, S3R06, S3R08	S3L05, S3L06, S3L08	S3V05(06, 08)-P14
Ölçüler Dimensions			

S3 Serisi / S3 Series

Model Model	PP Çıkıntılı Tür PP Protruding type	PM Mantar Tür PM Mushroom type	PL Mandallama Türü (sadece Kırmızı) PL Latching type (only red)
Sipariş Şekli How to order	Sipariş Kodu Ordering code	Sipariş Kodu Ordering code	Sipariş Kodu Ordering code
	Tür Type	Tür Type	Tür Type
	S3PP05-P11A S3PP çıkıntılı tür kontrol seti (Yeşil) S3PP protruding type control set (Green)	S3PM05-P11A S3PM Mantar Tür Kontrol Seti (Yeşil) S3PM mushroom type control set (Green)	S3PL05-P12A S3PL Mandallama Tür Kontrol Seti (Kırmızı) S3PL Latching type control set (Red)
S3PP05-P12A S3PP Çıkıntılı Tür Kontrol Seti (Kırmızı) S3PP protruding type control set (Red)	S3PM05-P12A S3PM Mantar Tür Kontrol Seti (Kırmızı) S3PM mushroom type control set (Red)		
S3PP05-P13A S3PP Çıkıntılı Tür Kontrol Seti (Siyah) S3PP protruding type control set (Black)	S3PM05-P13A S3PM Mantar Tür Kontrol Seti (Siyah) S3PM mushroom type control set (Black)		
Uygulanabilir Ürünler Applicable products	S3PP05, S3PP06, S3PP08	S3PM05, S3PM06, S3PM08	S3PL05, S3PL06, S3PL08
Ölçüler Dimensions			

Model Model	PF Düz Tür PF Flat type	HS Seçici Tür HS Selector type
Sipariş Şekli How to order	Sipariş Kodu Ordering code	Sipariş Kodu Ordering code
	Tür Type	Tür Type
	S3PF05-P11A S3PF Düz Tür Kontrol Seti (Yeşil) S3PF flat type control set (Green)	S3HS05-P11A S3HS Seçici Tür Kontrol Seti (Yeşil) S3HS selector type control set (Green)
S3PF05-P12A S3PF Düz Tür Kontrol Seti (Kırmızı) S3PF flat type control set (Red)	S3HS05-P12A S3HS Seçici Tür Kontrol Seti (Kırmızı) S3HS selector type control set (Red)	
S3PF05-P13A S3PF Düz Tür Kontrol Seti (Siyah) S3PF flat type control set (Black)	S3HS05-P13A S3HS Seçici Tür Kontrol Seti (Siyah) S3HS selector type control set (Black)	
Uygulanabilir Ürünler Applicable products	S3PF05, S3PF06, S3PF08	S3HS05, S3HS06, S3HS08
Ölçüler Dimensions		

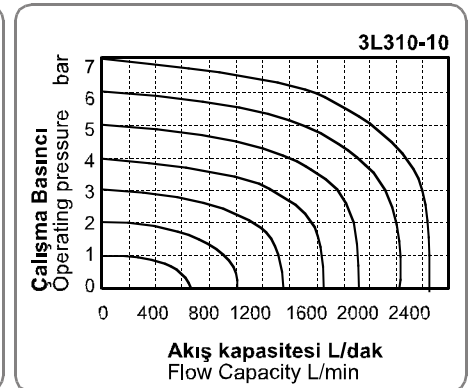
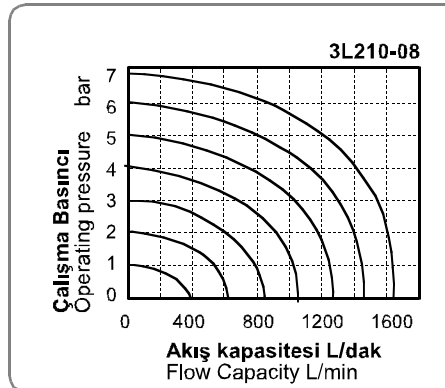
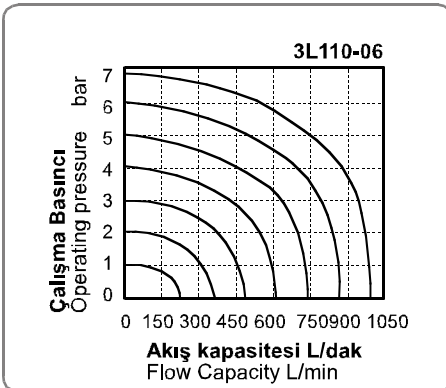
3L Serisi Çekmeli Valfler (3/2) / 3L Series Push - Pull Valves (3/2)

Sembol / Symbol

Sipariş Kodu / Ordering Code

3L	1	10	06	NO
Model Model	Kod Code	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Çalışma Tipi Acting Type
3L: 3 Yol 2 Konum Çekmeli Valf 3L: 3Port 2 Position push-pull valve	1: 100 Serisi / Series 2: 200 Serisi / Series 3: 300 Serisi / Series	10: 2 Konumlu 10: 2 Position	06: 1/8" 08: 1/4" 10: 3/8"	NC: Normalde Kapalı Normally Closed NO: Normalde Açık Normally Open

Özellikler / Specification

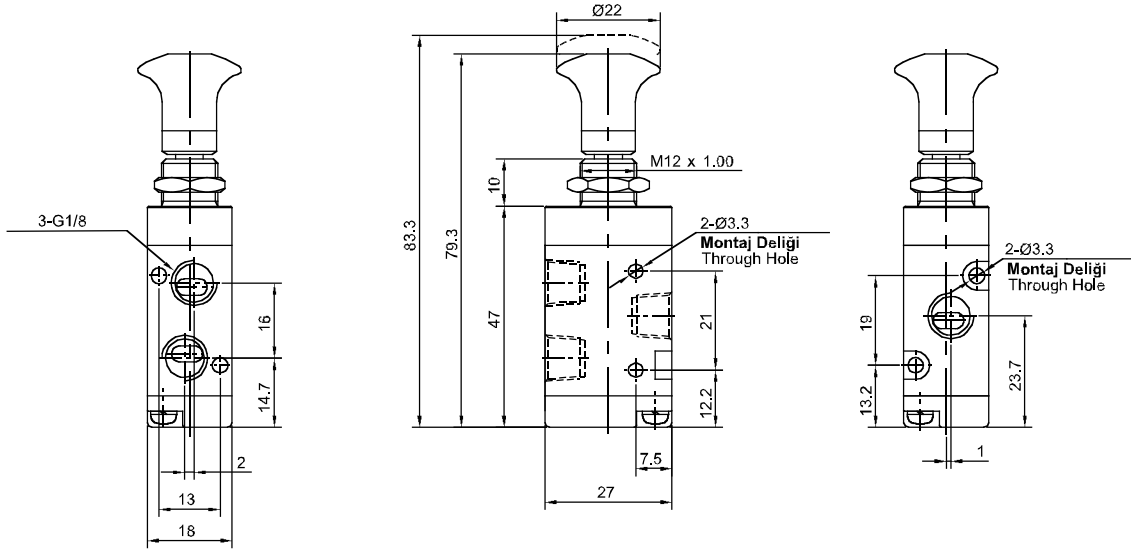
Model / Model	3L110-06	3L210-06	3L210-08	3L310-08	3L310-10
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)				
Tip / Type	3 Yol 2 Konum / 3 Port 2 Position				
Bağlantı Ölçüsü / Port Size	1/8"		1/4"		3/8"
Orifis Çapı / Orifice Size	12 mm ² / Cv = 0.67	14 mm ² / Cv = 0.78	16 mm ² / Cv = 0.89	25 mm ² / Cv = 1.39	30 mm ² / Cv = 1.67
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi				
Test Basıncı / Proof Pressure	12.0 bar / 1.2MPa / 171Psi				
Sıcaklık / Temperature	-5 ~ 60°C				

Akış Diyagramı / Flow Chart


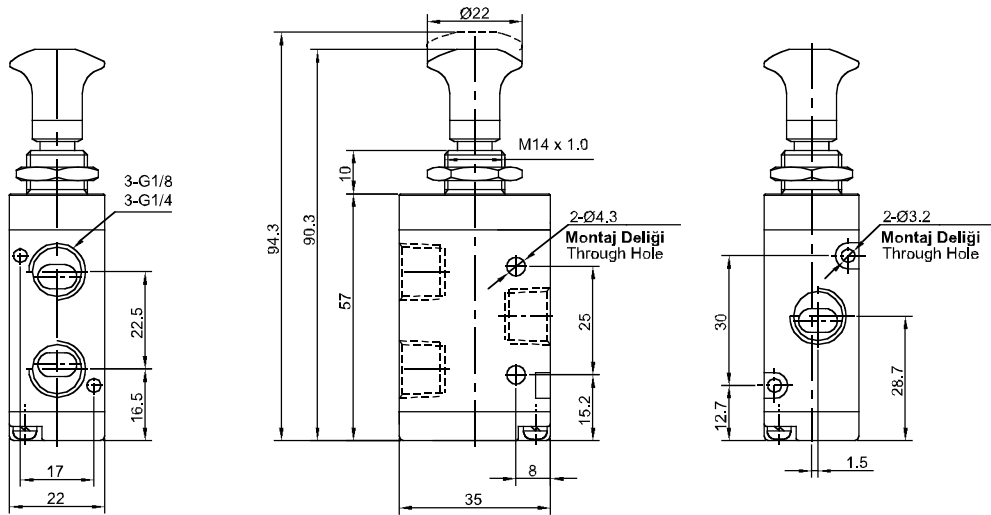
3L Serisi Çekmeli Valfler (3/2) / 3L Series Push - Pull Valves (3/2)

Teknik Çizimler / Technical Drawings

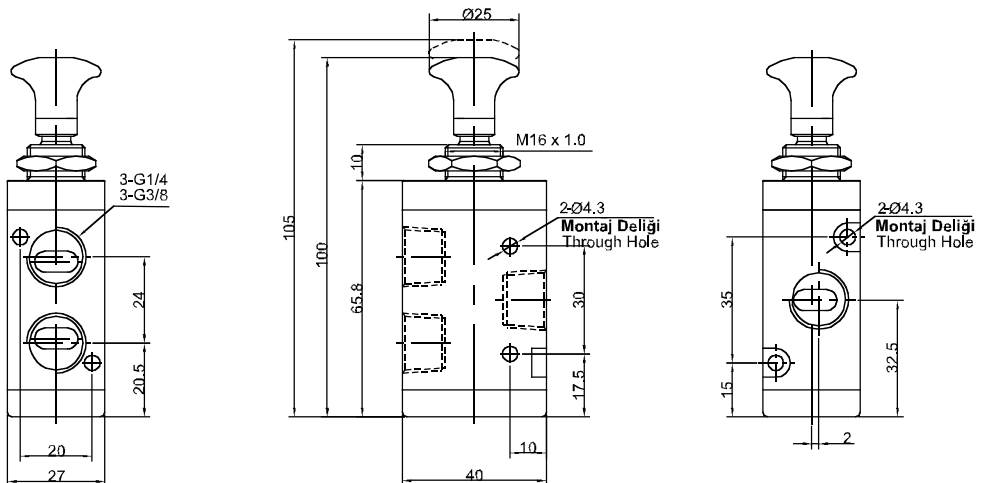
3L100



3L200



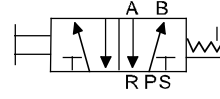
3L300



4L Serisi Çekmeli Valfler (5/2) / 4L Series Push - Pull Valves (5/2)



Sembol / Symbol



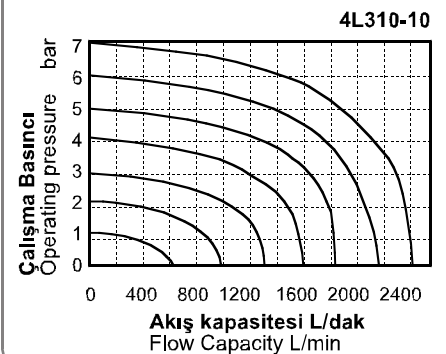
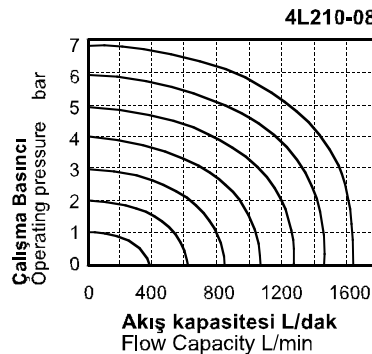
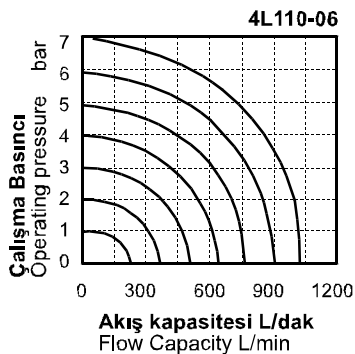
Sipariş Kodu / Ordering Code

4L	1	10	06
Model Model	Kod Code	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size
4L: 5 Yol 2 Konum Çekmeli Valf 4L: 5Port 2 Position push-pull valve	1: 100 Serisi / Series 2: 200 Serisi / Series 3: 300 Serisi / Series	10: 2 Konumlu 10: 2 Position	06: 1/8" 08: 1/4" 10: 3/8"

Özellikler / Specification

Model / Model	4L110-06	4L210-06	4L210-08	4L310-08	4L310-10
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)				
Tip / Type	5 Yol 2 Konum / 5 Port 2 Position				
Bağlantı Ölçüsü / Port Size	1/8"		1/4"		3/8"
Orifis Çapı / Orifice Size	12 mm ² / Cv = 0.67	14 mm ² / Cv = 0.78	16 mm ² / Cv = 0.89	25 mm ² / Cv = 1.39	30 mm ² / Cv = 1.67
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi				
Test Basıncı / Proof Pressure	12.0 bar / 1.2MPa / 171Psi				
Sıcaklık / Temperature	-5 ~ 60°C				

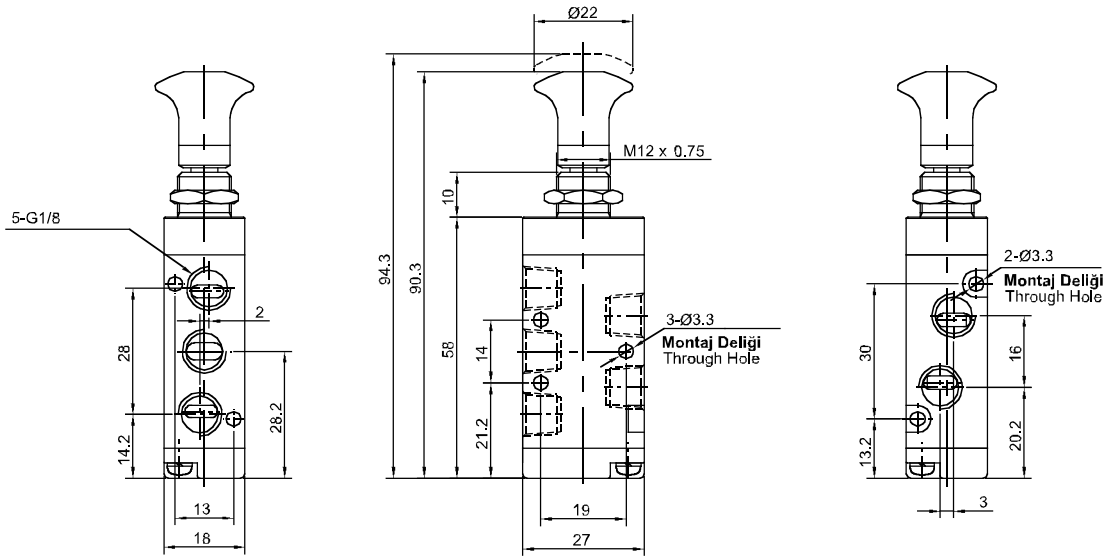
Akış Diyagramı / Flow Chart



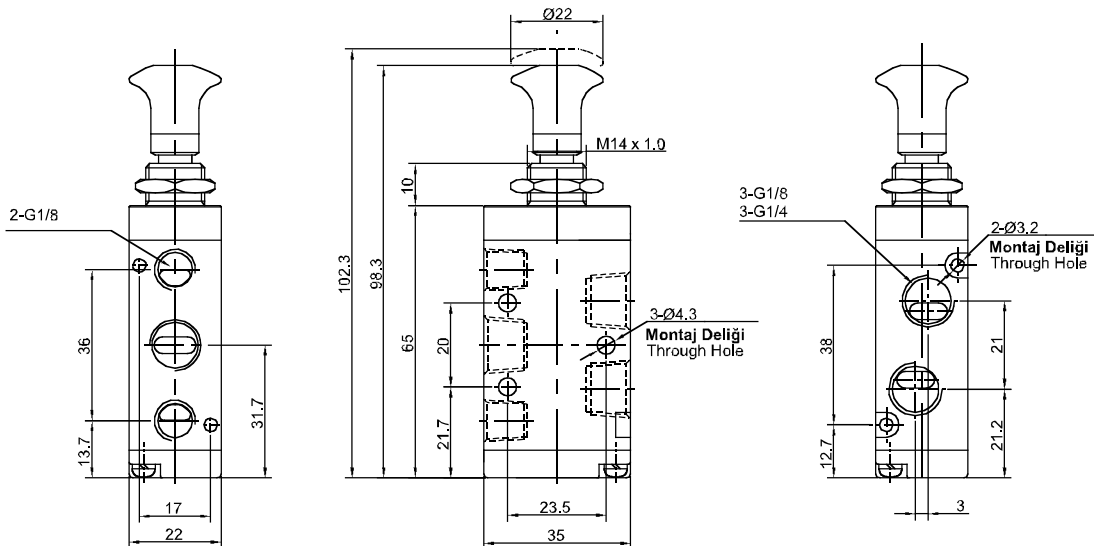
4L Serisi Çekmeli Valfler (5/2) / 4L Series Push - Pull Valves (5/2)

Teknik Çizimler / Technical Drawings

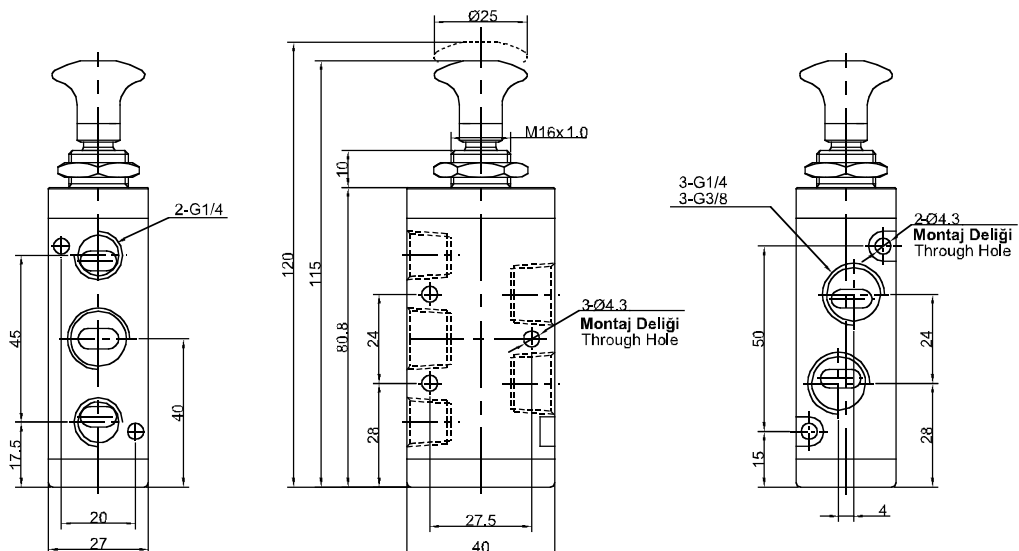
4L100



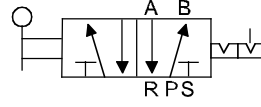
4L200



4L300



4H Serisi Kol Kumandalı Valfler (5/2) / 4H Series Hand Lever Valves (5/2)

Sembol / Symbol

Sipariş Kodu / Ordering Code

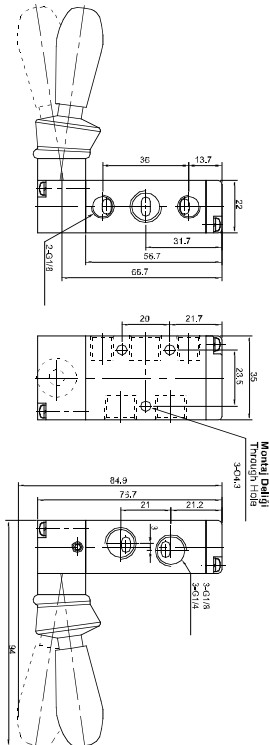
4H	2	10	06
Model Model	Kod Code	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size
4H: 5 Yol 2 Konum Kol kumandalı Valf 4H: 5Port 2 Position Hand Lever valve	2: 200 Serisi / Series 3: 300 Serisi / Series	10: 2 Konumlu 10: 2 Position	06: 1/8" 08: 1/4" 10: 3/8"

Özellikler / Specification

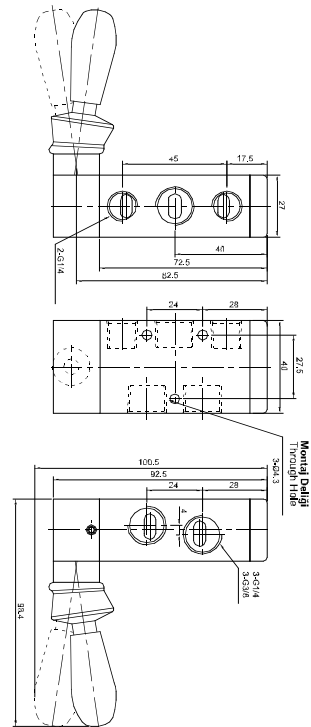
Model / Model	4H210-06	4H210-08	4H310-08	4H310-10
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)			
Çalışma Tipi / Operating	Direkt Etkili / Direct Acting			
Bağlantı Ölçüsü / Port Size	Giriş=Çıkış=Egzost=1/8" In=Out=Exhaust=1/8"	Giriş=Çıkış=1/4"Egzost=1/8" In=Out=1/4"Exhaust=1/8"	Giriş=Çıkış=Egzost=1/4" In=Out=Exhaust=1/4"	Giriş=Çıkış=3/8" Egzost=1/4" In=Out=3/8" Exhaust=1/4"
Orifis Çapı / Orifice Size	14 mm ² / Cv = 0.78	16 mm ² / Cv = 0.89	25 mm ² / Cv = 1.39	30 mm ² / Cv = 1.67
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi			
Sıcaklık / Temperature	-5 ~ 60°C			
Çalışma Açısı / Operating Angle	±15°C			

Teknik Çizimler / Technical Drawings

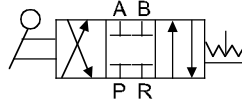
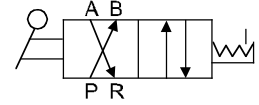
4H200



4H300



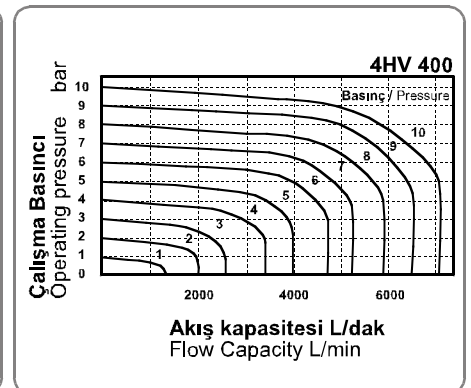
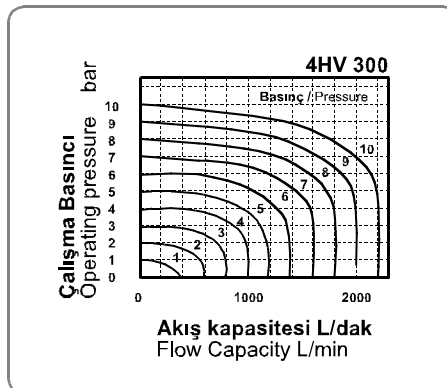
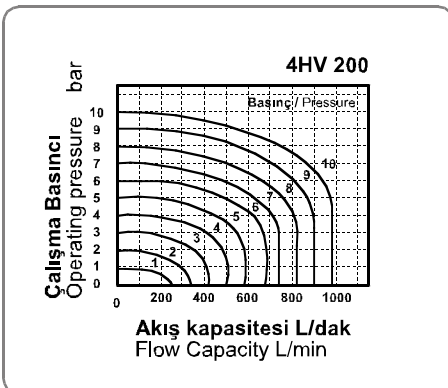
4HV Serisi Kol Kumandalı Valfler (4/3 - 4/2) / 4HV Series Hand Lever Valves (4/3 - 4/2)

Sembol / Symbol
4/3 Kapalı Merkez / Closed Center

4/2 Kapalı Merkez / Closed Center

Sipariş Kodu / Ordering Code

4HV	2	30	06	S
Model Model	Kod Code	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Bağlantı Installation
4HV: 4 Yol 3/2 Konum Kol Kumandalı Valf	2: 200 Serisi / Series 3: 300 Serisi / Series 4: 400 Serisi / Series	10: 4 Yol 2 Konum 4 Port 2 Position 30: 4 Yol 3 Konum 4 Port 3 Position	06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2" 20: 3/4"	Boş: Gövde Bağlantı Blank: Body Installation S: Panel Bağlantı S: Panel Installation

Özellikler / Specification

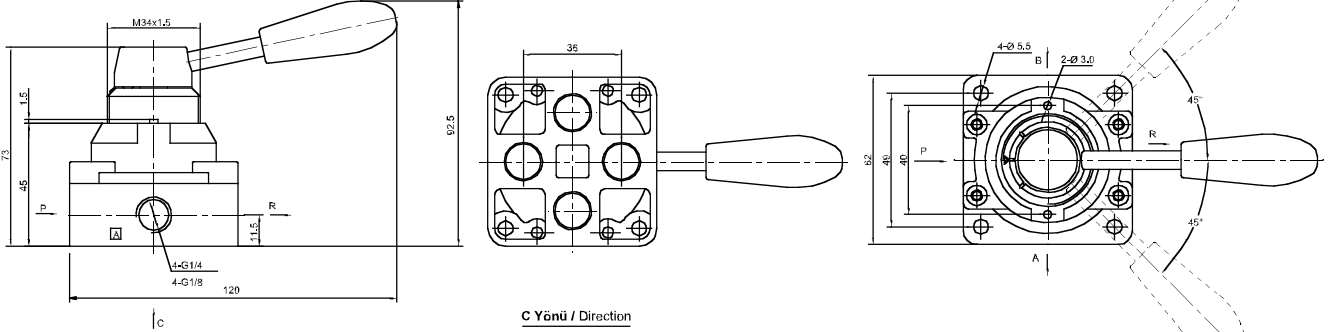
Model / Model	4HV210-06 4HV230-06	4HV210-08 4HV230-08	4HV310-08 4HV330-08	4HV310-10 4HV330-10	4HV410-15 4HV430-15	4HV410-20 4HV430-20
Akışkan / Fluid	40µm filtrelenmiş hava / Air (to be filtered by 40µm filter element)					
Tip / Type	4 Yol 2 Konum / 4 Port 2 Position 4 Yol 3 Konum / 4 Port 3 Position					
Bağlantı Ölçüsü / Port Size	1/8"	1/4"		3/8"	1/2"	3/4"
Orifis Çapı / Orifice Size	14 mm ² / Cv = 0.78	16 mm ² / Cv = 0.89	30 mm ² / Cv = 1.67	33 mm ² / Cv = 1.83	88 mm ² / Cv = 4.89	95 mm ² / Cv = 5.27
Basınç Aralığı / Pressure Range	0~10.0 bar / 0~1.0MPa / 0~142Psi					
Test Basıncı / Proof Pressure	15.0 bar / 1.5MPa / 213Psi					
Sıcaklık / Temperature	-5 ~ 60°C					

Akış Diyagramı / Flow Chart


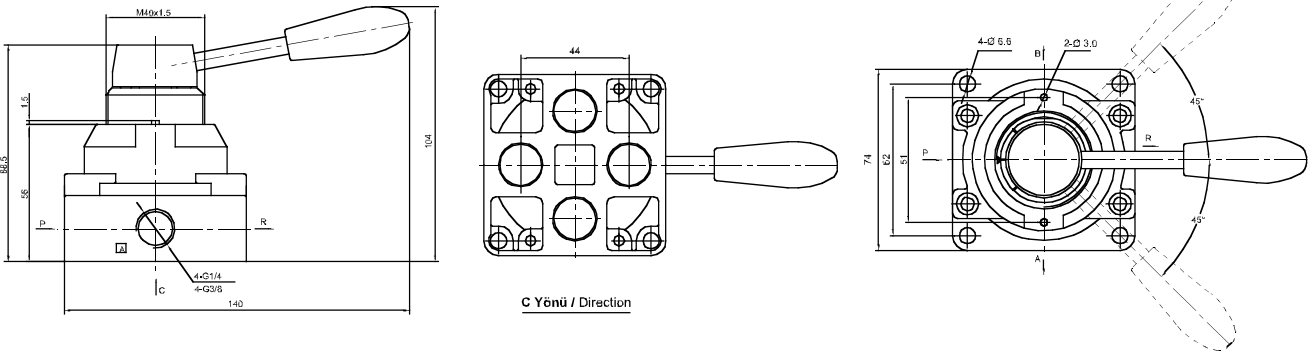
4HV Serisi Kol Kumandalı Valfler (4/3 - 4/2) / 4HV Series Hand Lever Valves (4/3 - 4/2)

Teknik Çizimler / Technical Drawings

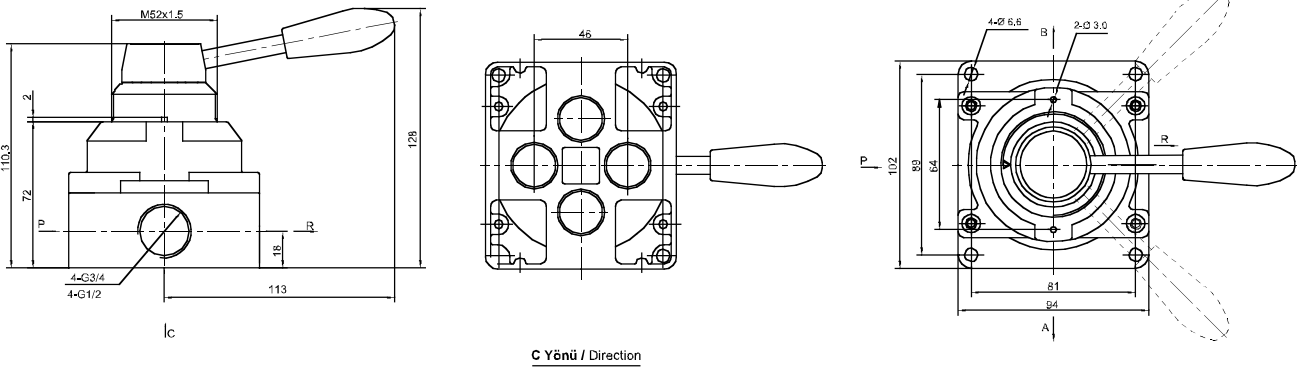
4HV200



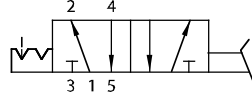
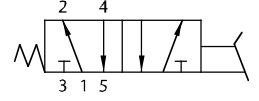
4HV300



4HV400



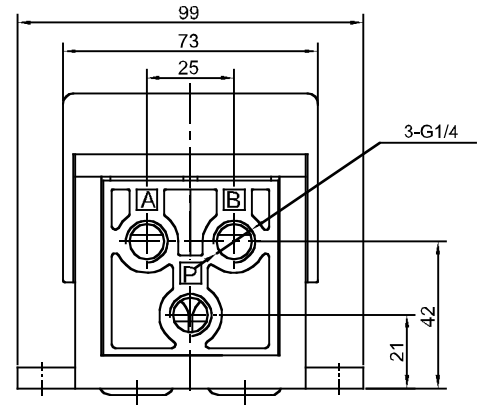
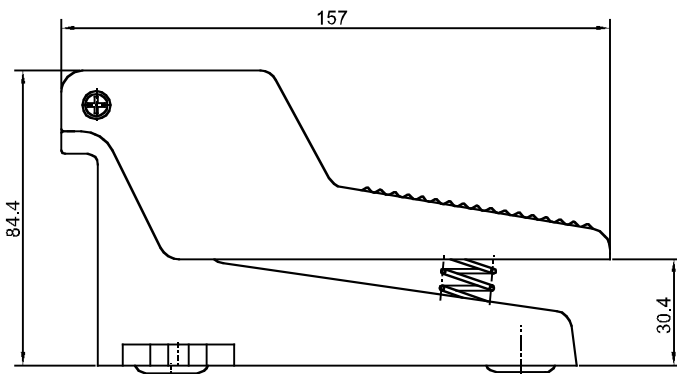
4F Serisi Pedal Valfler (5/2) / 4F Series Foot Pedal Valves (5/2)

Sembol / Symbol
Kilitli / With Lock

Kilitsiz / Without Lock

Özellikler / Specification

4F2	10	08	L
Model Model	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Fonksiyon Function
4F2: 5 Yol 2 Konum Pedal Valf	10: 2 Konumlu	08: 1/4"	Boş: Standart Blank: Standard
4F2: 5Port 2 Position Foot Pedal Valve	10: 2 Position		L: Kilitli L: With Lock
			G: Korumalı G: With Guard
			LG: Kilitli ve Korumalı LG: With Lock and Guard

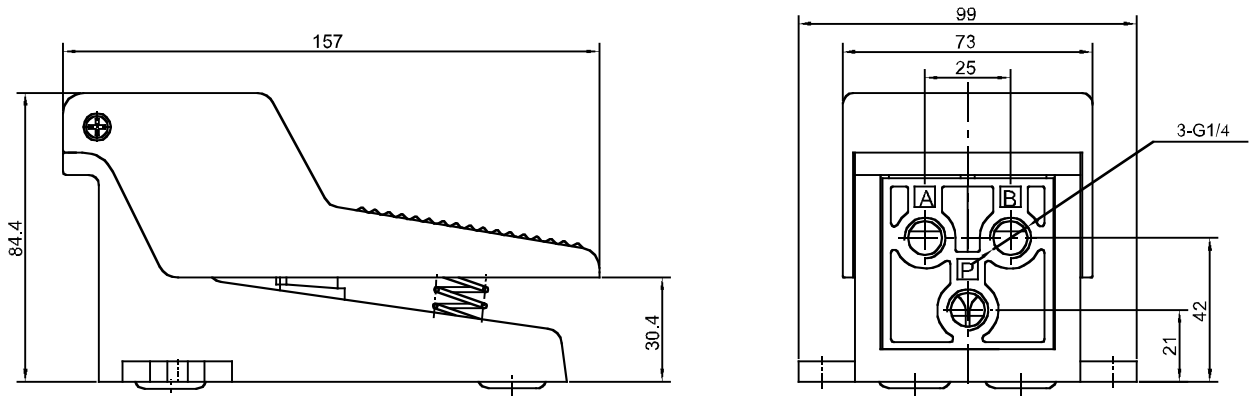
Sipariş Kodu / Ordering Code

Model / Model	4F210-08	4F210-08L	4F210-08G	4F210-08LG
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)			
Çalışma Tipi / Operating	Direkt Etkili / Direct Acting			
Bağlantı Ölçüsü / Port Size	Giriş=Çıkış=1/4" / In=Out=1/4"			
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi			
Sıcaklık / Temperature	-5 ~ 60°C			

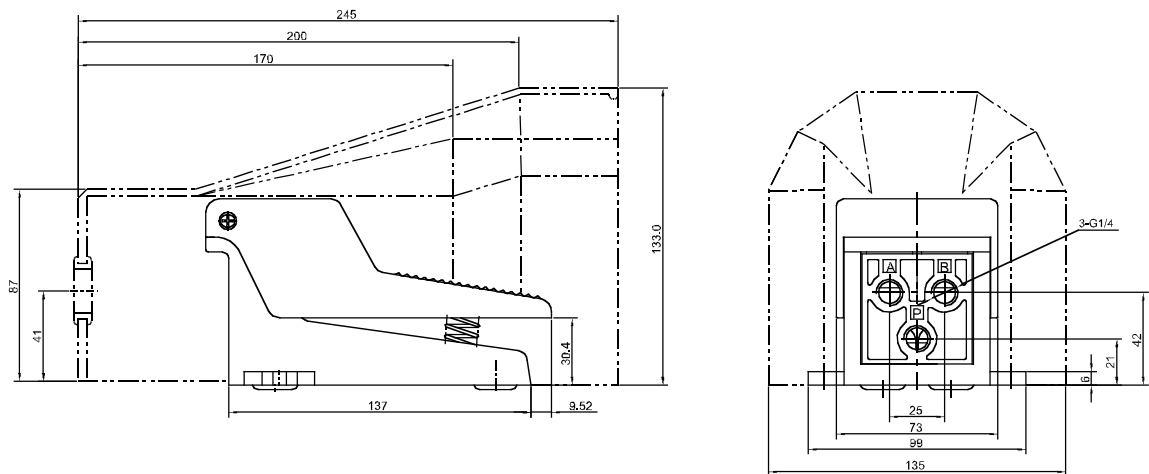
Teknik Çizimler / Technical Drawings
4F210-08


4F Serisi Pedal Valfler (5/2) / 4F Series Foot Pedal Valves (5/2)

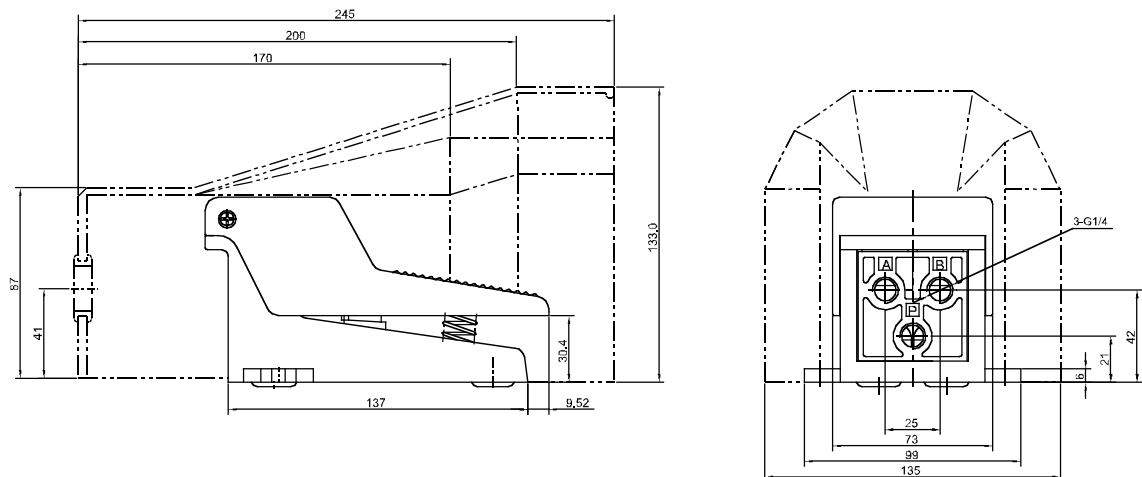
4F210-08L

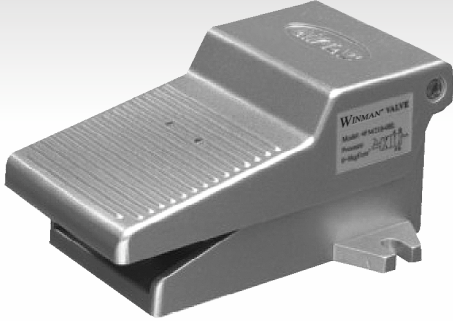
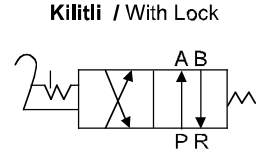
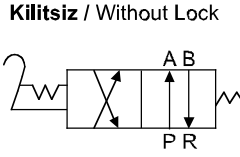


4F210-08G



4F210-08LG

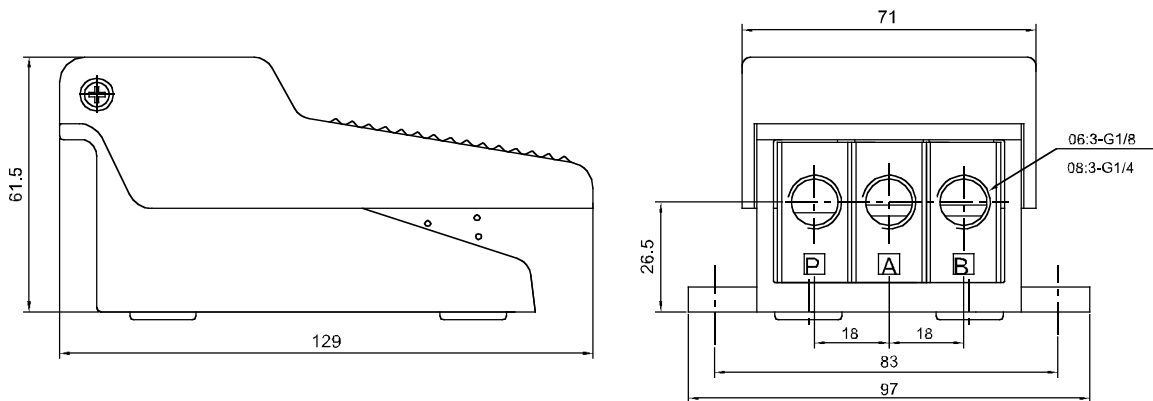


4FM Serisi Pedal Valfler (4/2) / 4FM Series Foot Pedal Valves (4/2)

Sembol / Symbol

Sipariş Kodu / Ordering Code

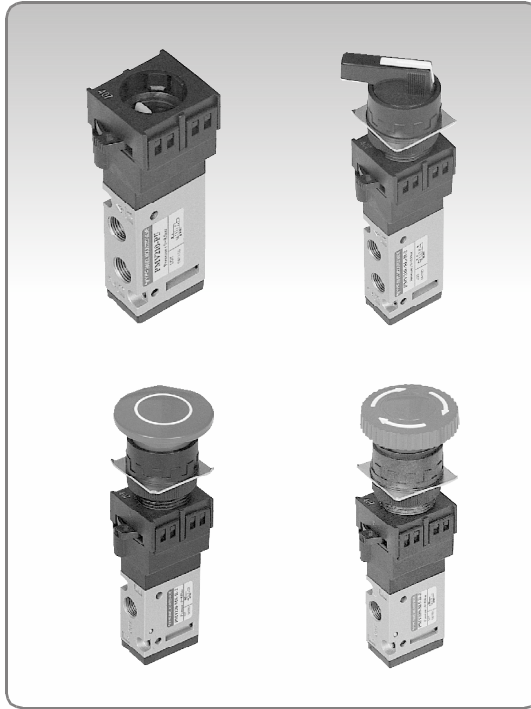
4FM2	10	08	L
Model Model	Valf Tipi Valve Type	Bağlantı Ölçüsü Port Size	Fonksiyon Function
4FM2: 4 Yol 2 Konum Pedal Valf	10: 2 Konumlu	06: 1/8"	Boş: Standart Blank: Standard
4FM2: 4 Port 2 Position Foot Pedal Valve	10: 2 Position	08: 1/4"	L: Kilitli L: With Lock

Özellikler / Specification

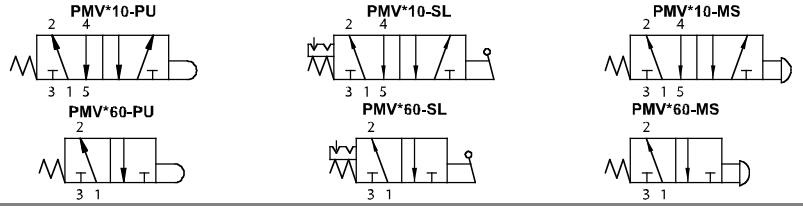
Model / Model	4FM210-06	4FM210-06L	4FM210-08	4FM210-08L
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)			
Çalışma Tipi / Operating	Direkt Etkili / Direct Acting			
Bağlantı Ölçüsü / Port Size	Giriş=Çıkış=1/8" / In=Out=1/8"		Giriş=Çıkış=1/4" / In=Out=1/4"	
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi			
Sıcaklık / Temperature	-5 ~ 60°C			
Yağlama / Lubrication	Gerektirmez / Not Required			

Teknik Çizimler / Technical Drawings
4FM210


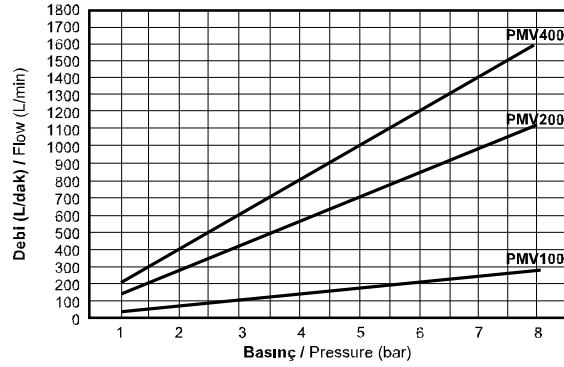
PMV Serisi Buton Valfler (5/2 - 3/2) / PMV Series Button Valves (5/2 - 3/2)



Sembol / Symbol



Akış Diyagramı / Flow Chart



Özellikler / Specification

Model / Model	PMV100	PMV200	PMV400
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)		
Çalışma Tipi / Operating	5/2, 3/2		
Bağlantı Ölçüsü / Port Size	M5	1/8"	1/4"
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi		
Kesit Alan / Sectional Area (mm ²)	3.5	12.6	19.0
Sıcaklık / Temperature	-5 ~ 60°C		
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)		

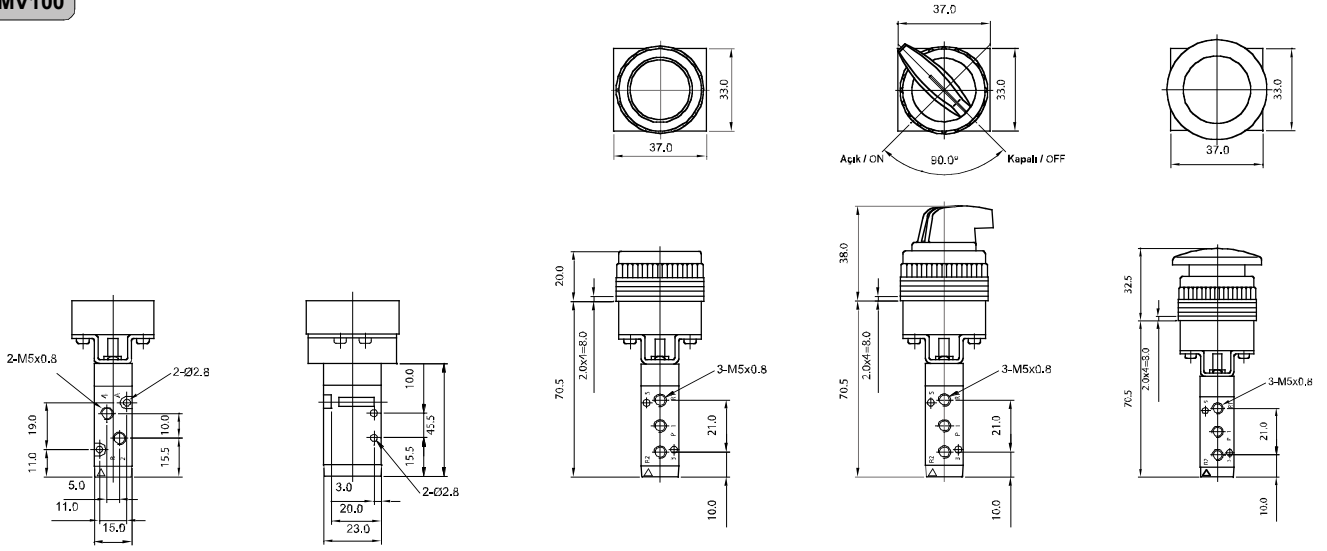
Sipariş Kodu / Ordering Code

PMV1	1	0	FP	R	1
Model Model	Fonksiyon Function	Dış Tipi Thread Type	Anahtar Tipi Switch Type	Buton Rengi Button Color	Montaj Deliği Mounting Holes
PMV1: M5 x 0.8 Bağlantı Deliği Port	1: 5/2 Yay Dönüslü 5/2 Spring Return 6: 3/2 Yay Dönüslü 3/2 Spring Return	0: G	0: Yok / None	0: Yok / None	0: Yok / None
PMV2: 1/8" Bağlantı Deliği Port			PU: Pimli / Pushrod	B: Siyah / Black	1: 22 mm
PMV4: 1/4" Bağlantı Deliği Port			FP: Gömme Buton Flush, Push Button	R: Kırmızı / Red	2: 25 mm
			SL: Konum Değiştiricili Selector	G: Yeşil / Green	3: 30 mm
			MS: Yay Dönüslü Mantar Spring Return Mushroom	Y: Sarı / Yellow	
			MT: Kilitli Mantar Turn to Unlock Mushroom		

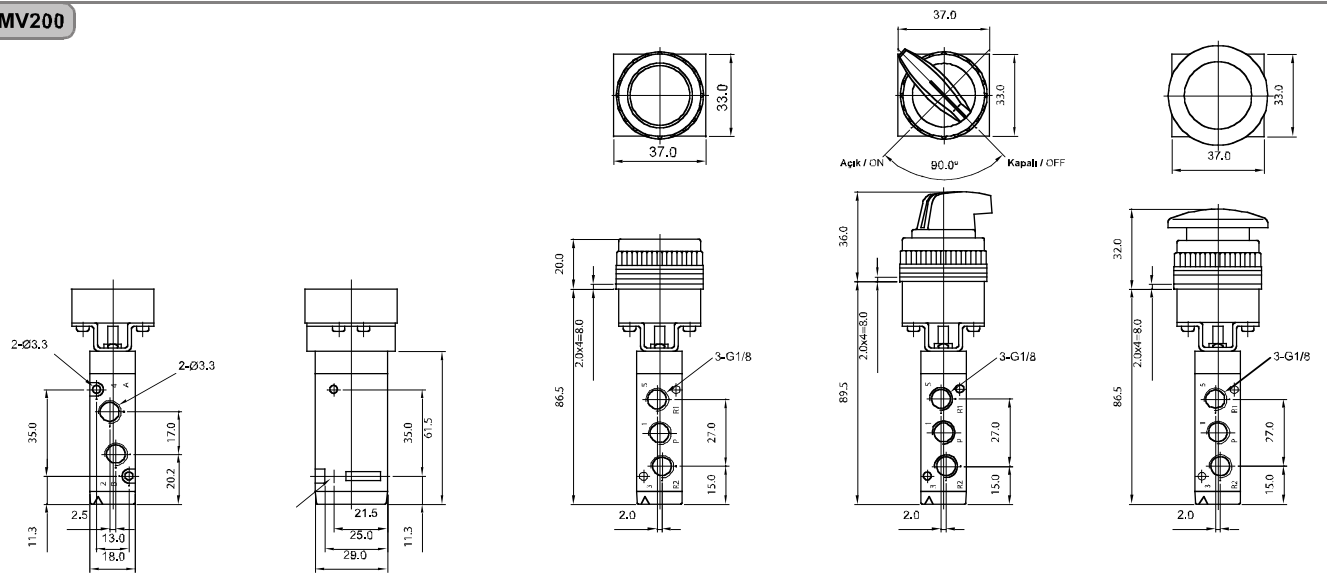
PMV Serisi Buton Valfler (5/2 - 3/2) / PMV Series Button Valves (5/2 - 3/2)

Teknik Çizimler / Technical Drawings

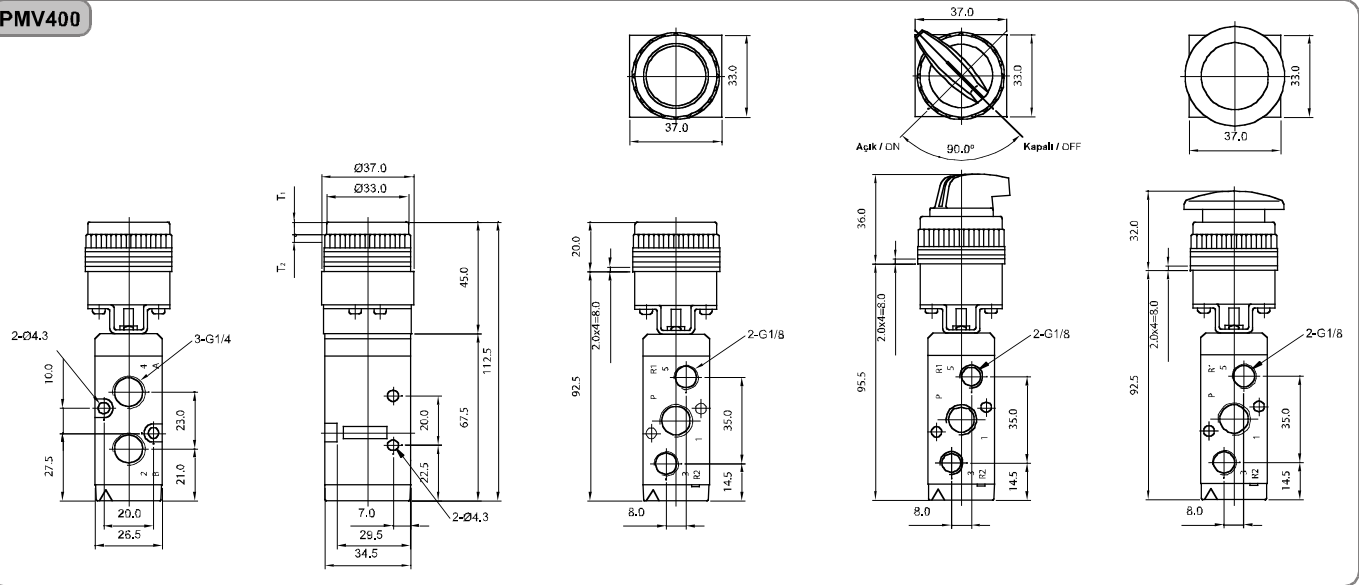
PMV100



PMV200



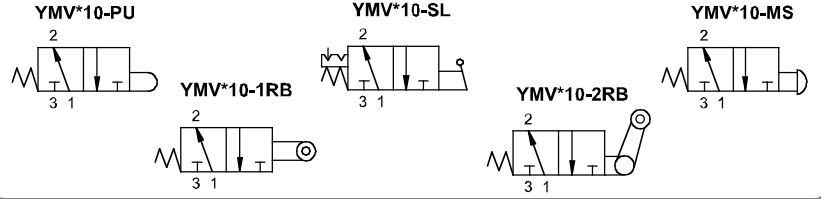
PMV400



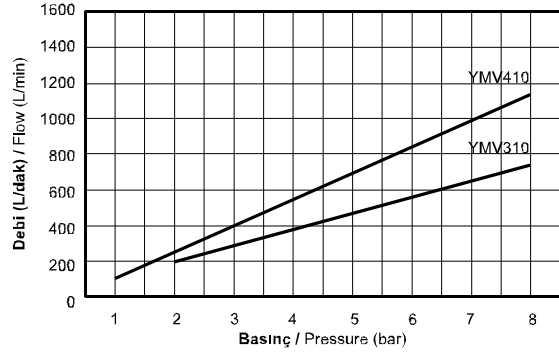
YMV Serisi Buton & Makaralı Valfler (3/2) / YMV Series Button & Roller Valves (3/2)



Sembol / Symbol



Akış Diyagramı / Flow Chart



Özellikler / Specification

Model / Model	YMV310	YMV410
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)	
Çalışma Tipi / Operating	3/2	
Bağlantı Ölçüsü / Port Size	1/8"	1/4"
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi	
Kesit Alan / Sectional Area (mm ²)	10.5	16.0
Sıcaklık / Temperature	5 ~ 60°C	
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)	

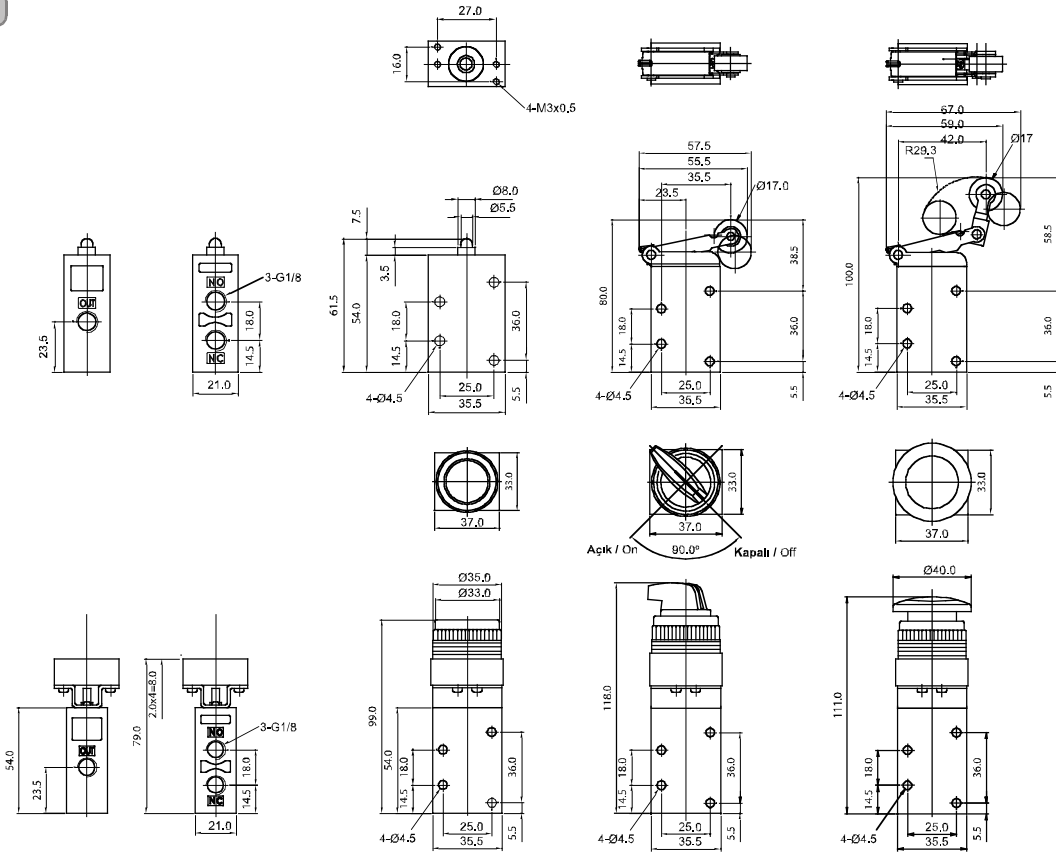
Sipariş Kodu / Ordering Code

YMV3	1	0	FP	3
Model Model	Fonksiyon Function	Diş Tipi Thread Type	Anahtar Tipi Switch Type	Montaj Deliği Mounting Holes
YMV3: 1/8" Bağlantı Deliği Port	1: 3/2 Yay Dönüslü 3/2 Spring Return	0: G	PU: Pimli / Pushrod 1RP: Plastik Makaralı / Two-Way Plastic Roller Lever 1RB: Rulman Makaralı / Two-Way Bearing Roller Lever 2RP: Mafsallı Plastik Makaralı / One-Way Plastic Roller Lever 2RB: Mafsallı Rulman Makaralı / One-Way Bearing Roller Lever FP: Gömme Buton / Flush, Push Button SL: Konum Değiştiricili / Selector MS: Yay Dönüslü Mantar / Spring Return Mushroom MT: Kilitli Mantar / Turn to Unlock Mushroom	3: 30 mm
YMV4: 1/4" Bağlantı Deliği Port				

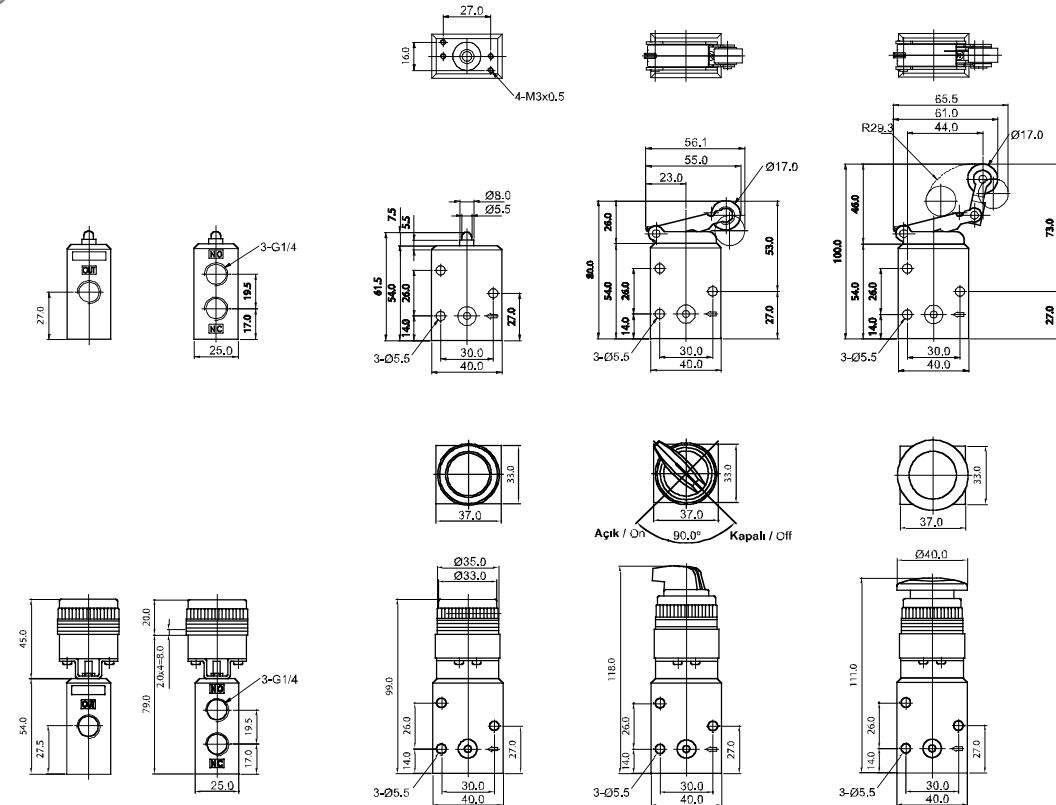
YMV Serisi Buton & Makaralı Valfler (3/2) / YMV Series Button & Roller Valves (3/2)

Teknik Çizimler / Technical Drawings

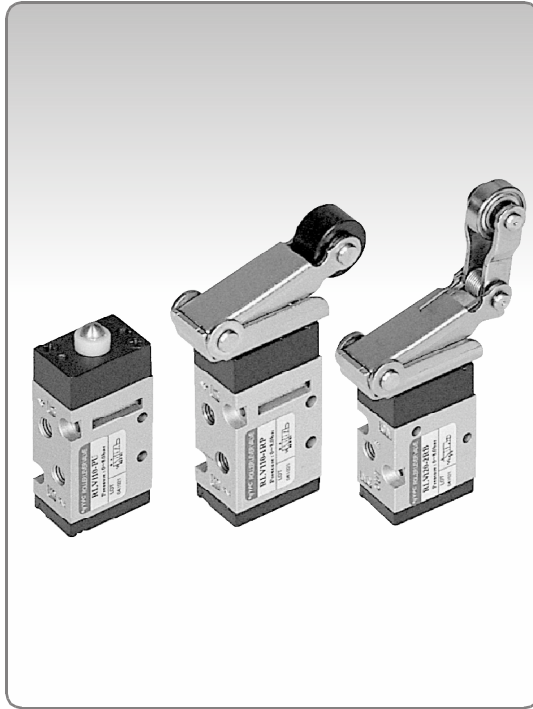
YMV310



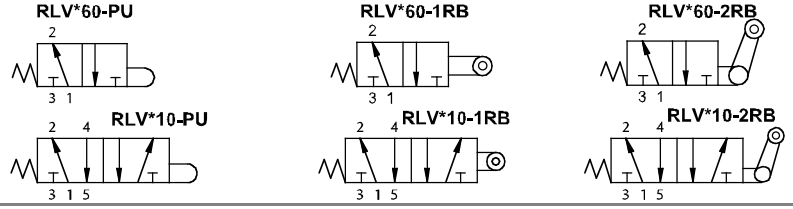
YMV410



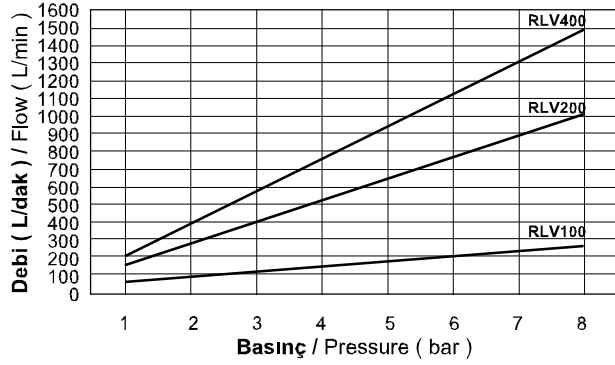
RLV Serisi Makaralı Valfler (3/2 - 5/2) / RLV Series Roller Valves (3/2 - 5/2)



Sembol / Symbol



Akış Diyagramı / Flow Chart

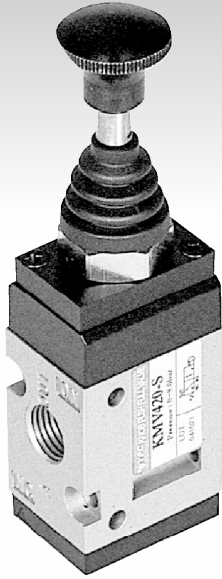
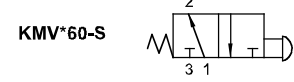
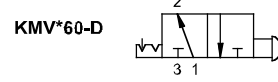
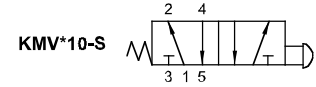
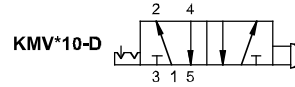
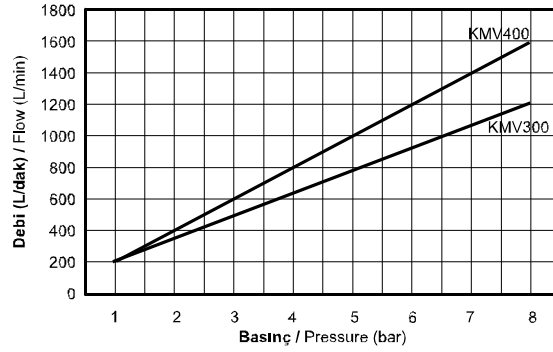


Özellikler / Specification

Model / Model	RLV100	RLV200	RLV400
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)		
Çalışma Tipi / Operating	5/2, 3/2		
Bağlantı Ölçüsü / Port Size	M5	1/8"	1/4"
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi		
Kesit Alan / Sectional Area (mm ²)	3.5	12.6	19.0
Sıcaklık / Temperature	5 ~ 60°C		
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)		

Sipariş Kodu / Ordering Code

RLV1	1	0	PU
Model Model	Fonksiyon Function	Diş Tipi Thread Type	Anahtar Tipi Switch Type
RLV1: M5 x 0.8 Bağlantı Deliği Port	1: 5/2 Yay Dönüslü 5/2 Spring Return	0: G	PU: Pimli / Pushrod
RLV2: 1/8" Bağlantı Deliği Port	6: 3/2 Yay Dönüslü 3/2 Spring Return		1RP: Plastik Makaralı / Two-Way Plastic Roller Lever
RLV4: 1/4" Bağlantı Deliği Port			1RB: Rulman Makaralı / Two-Way Bearing Roller Lever 2RP: Mafsallı Plastik Makaralı / One-Way Plastic Roller Lever 2RB: Mafsallı Rulman Makaralı / One-Way Bearing Roller Lever

KMV Serisi Çekmeli Valfler (3/2 - 5/2) / KMV Series Knob Push - Pull Valves (3/2 - 5/2)

Sembol / Symbol

Akış Diyagramı / Flow Chart

Özellikler / Specification

Model / Model	KMV300	KMV400
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)	
Çalışma Tipi / Operating	5/2	5/2 , 3/2
Bağlantı Ölçüsü / Port Size	1/8"	1/4"
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi	
Kesit Alan / Sectional Area (mm²)	13.5	18.0
Sıcaklık / Temperature	5 ~ 60°C	
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)	

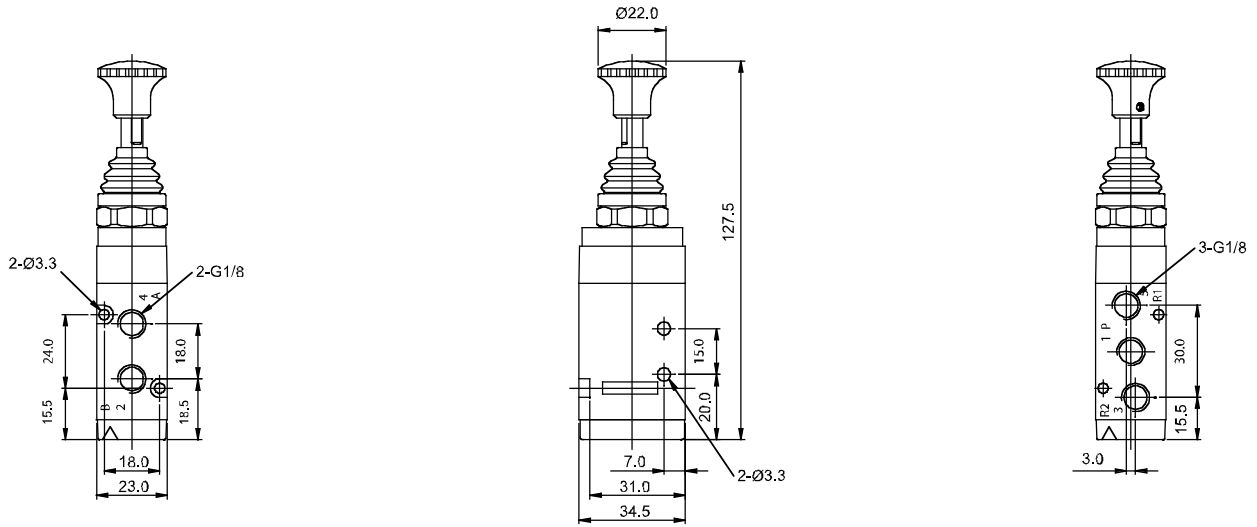
Sipariş Kodu / Ordering Code

KMV3	1	0	S	P
Model Model	Fonksiyon Function	Diş Tipi Thread Type	Geri Dönüş Yöntemi / Return Method	Manuel Kontrol Manuel Operator
KMV3: 1/8" Bağlantı Deliği Port	1: 5/2 Yay Dönüslü 5/2 Spring Return	0: G	S: Kol-Yay / Push-Spring	P: Oturtma Plakası Standing Plate
KMV4: 1/4" Bağlantı Deliği Port	6: 3/2 Yay Dönüslü NK 3/2 Spring Return NO		D: Kol-Kol / Push-Push	
			DA: Kol-Hava / Push-Air	

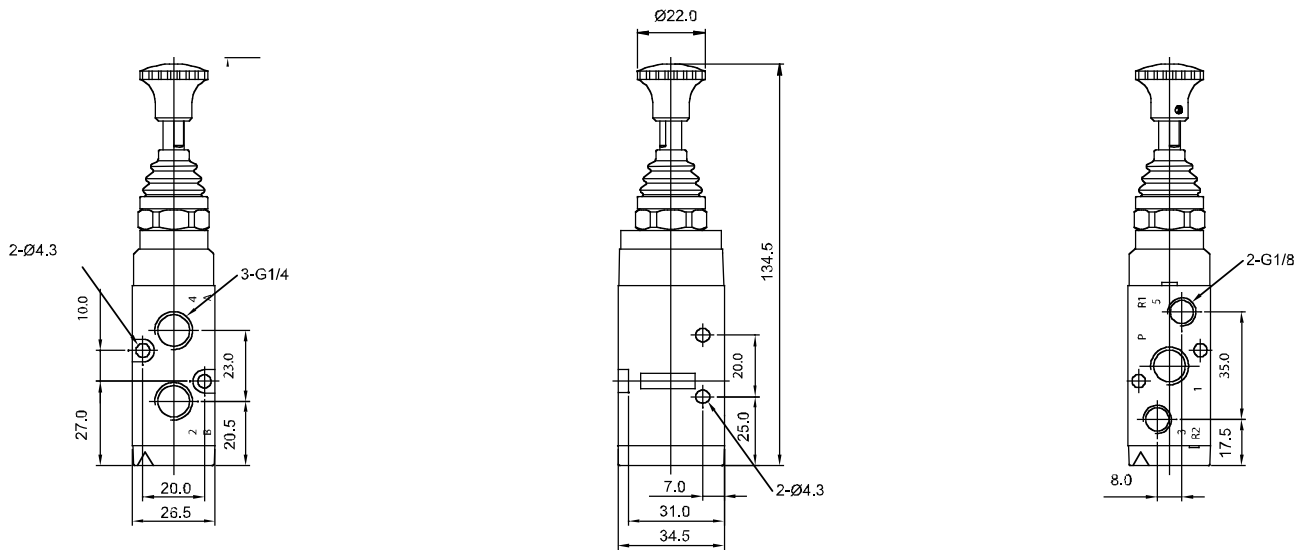
KMV Serisi Çekmeli Valfler (3/2 - 5/2) / KMV Series Knob Push - Pull Valves (3/2 - 5/2)

Teknik Çizimler / Technical Drawings

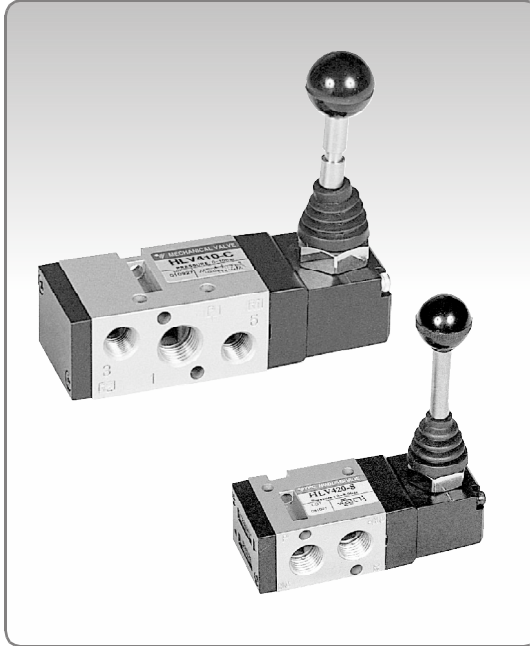
KMV300



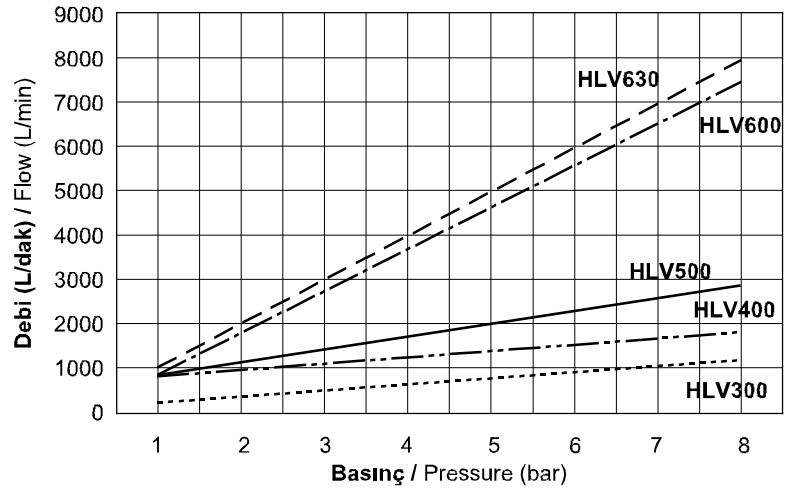
KMV400



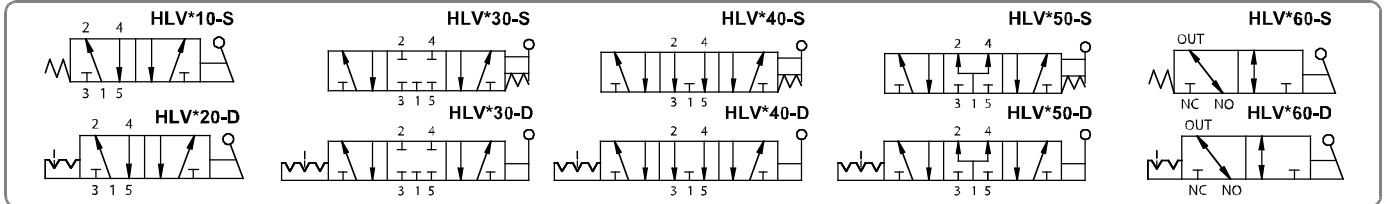
HLV Serisi Kol Kum. Valfler (3/2 - 5/2 - 5/3) / HLV Series Hand Lever Valves (3/2 - 5/2 - 5/3)



Akış Diyagramı / Flow Chart



Sembol / Symbol



Özellikler / Specification

Model / Model	HLV300	HLV400	HLV500	HLV600
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)			
Çalışma Tipi / Operating	5/2, 5/3	5/2, 5/3, 3/2		5/2, 5/3
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	3/8"	1/2"
Basınç Aralığı / Pressure Range	0~8.0 bar / 0~0.8MPa / 0~114Psi			
Kesit Alan / Sectional Area (mm ²)	13.5	18.0	35.0	90.0
Sıcaklık / Temperature	5 ~ 60°C			
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)			

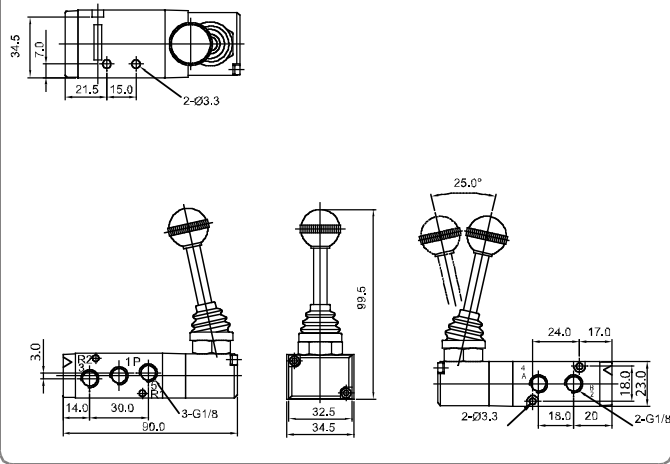
Sipariş Kodu / Ordering Code

HLV3	1	0	S
Model Model	Fonksiyon Function	Diş Tipi Thread Type	Geri Dönüş Yöntemi / Return Method
HLV3: 1/8" Bağlantı Deliği Port Size	1: 5/2 Yay Dönüştü / Single	0: G	S: Kol-Yay / Push-Spring D: Kol-Kol / Push-Push
HLV4: 1/4" Bağlantı Deliği Port Size	2: 5/2 Kol Dönüştü / Double		
HLV5: 3/8" Bağlantı Deliği Port Size	3: 5/3 Kapalı Merkez / Closed Center		
HLV6: 1/2" Bağlantı Deliği Port Size	4: 5/3 Açık Merkez / Open Center		
	5: 5/3 Basınç Merkez / Pressure Center		
	6: 3/2 Normalde Kapalı / Normally Closed		

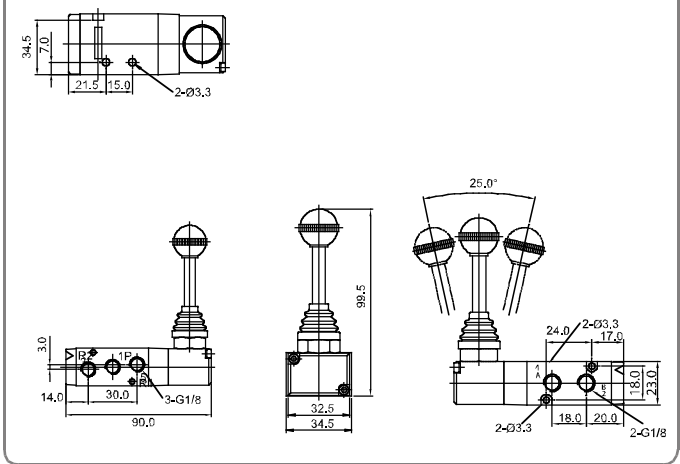
HLV Serisi Kol Kum. Valfler (3/2 - 5/2 - 5/3) / HLV Series Hand Lever Valves (3/2 - 5/2 - 5/3)

Teknik Çizimler / Technical Drawings

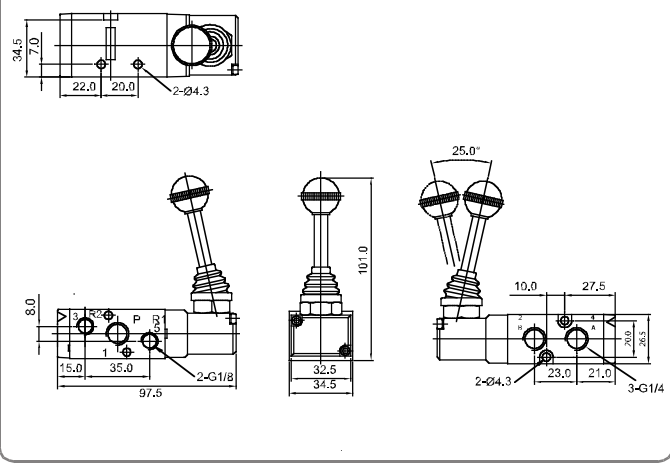
HLV310



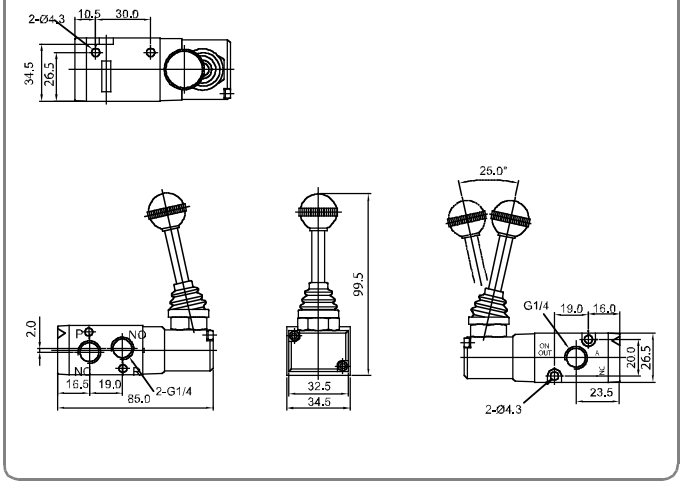
HLV330



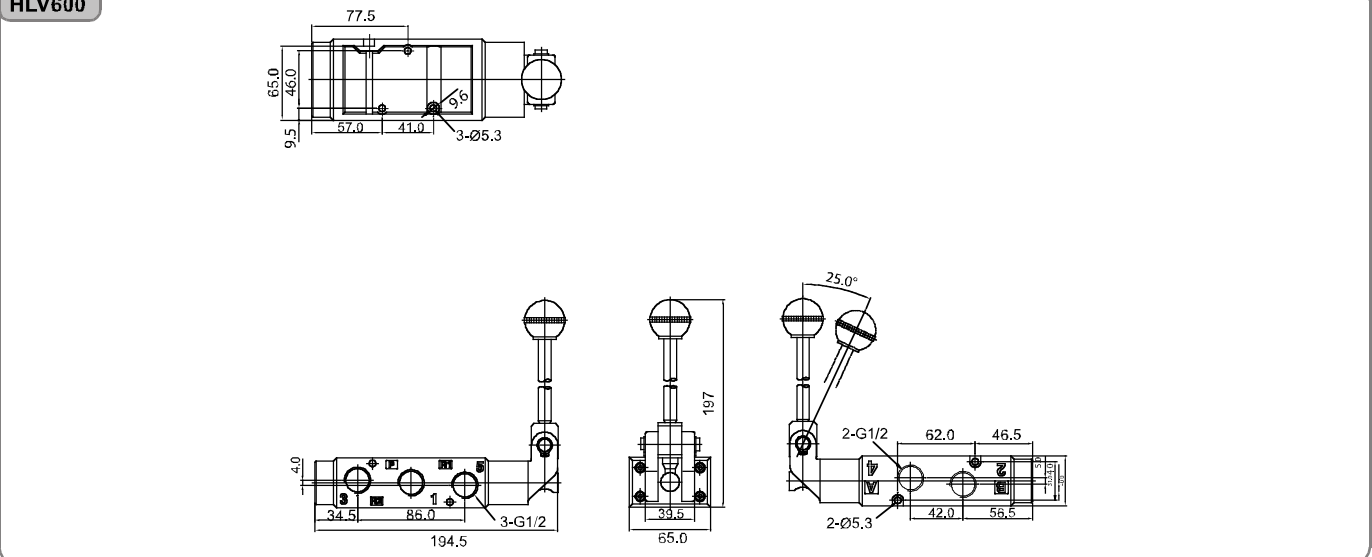
HLV410



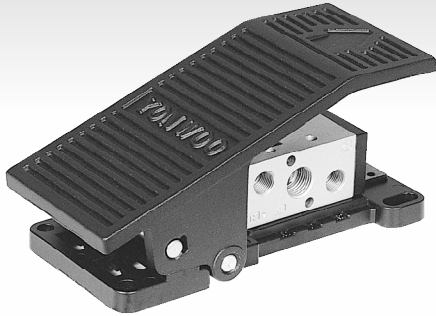
HLV460



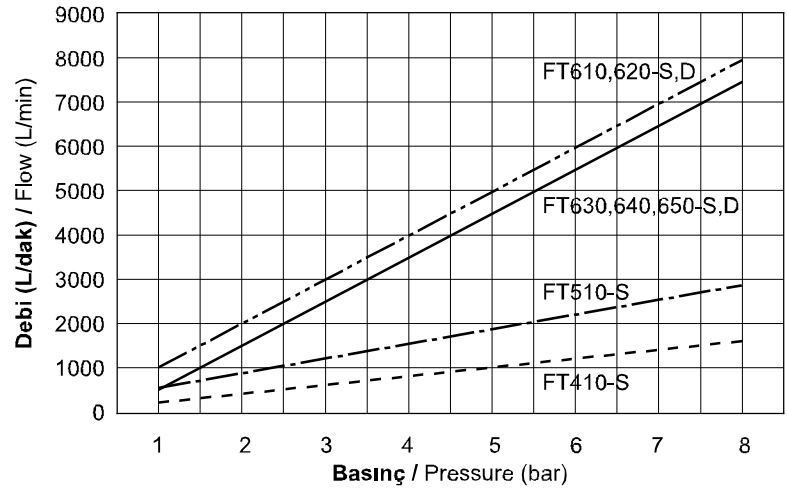
HLV600



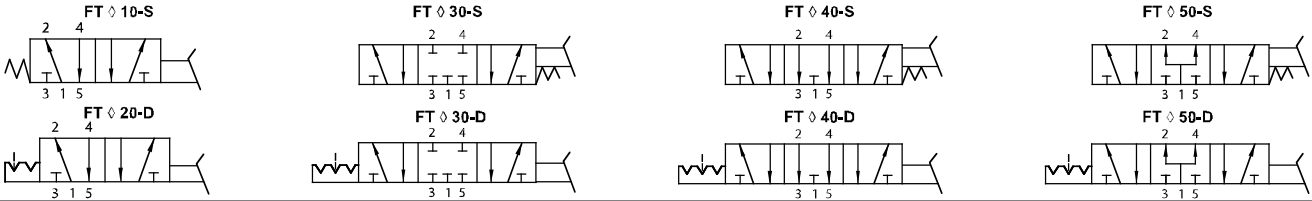
FT Serisi Pedal Valfler (5/2 - 5/3) / FT Series Foot Pedal Valves (5/2 - 5/3)



Akış Diyagramı / Flow Chart



Sembol / Symbol



Özellikler / Specification

Model / Model	FT410-S	FT510-S	FT600S,D
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)		
Çalışma Tipi / Operating	5/2		5/2 , 5/3
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"
Basınç Aralığı / Pressure Range	1,5~8,0 bar / 0,15~0,8MPa / 22~114Psi		0~8,0 bar / 0~0,8MPa / 0~114Psi
Kesit Alan / Sectional Area (mm ²)	19,0	35,0	90,0
Sıcaklık / Temperature	5~60°C		
Yağlama / Lubrication	Gerektirmez / Not Required (ISO VG32)		

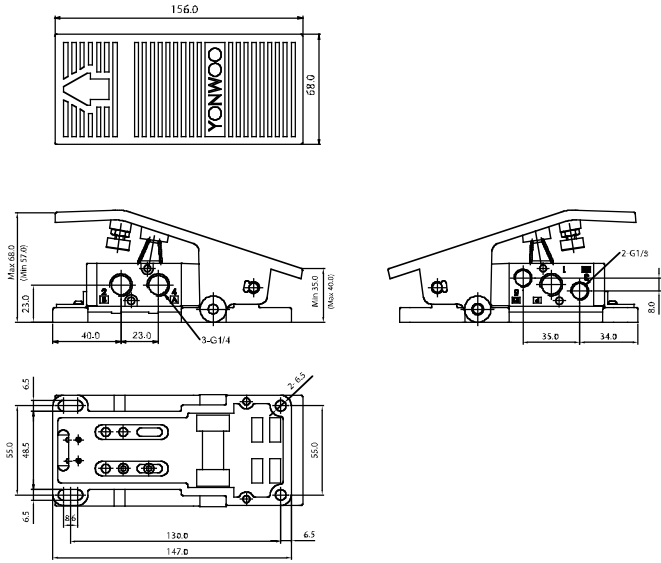
Sipariş Kodu / Ordering Code

FT4	1	0	S
Model Model	Fonksiyon Function	Dış Tipi Thread Type	Geri Dönüş Yöntemi / Return Method
FT4: 1/4" Bağlantı Deliği Port	1: 5/2 Yay Dönüslü / Single	0: G	S: Pedal-Yay / Push-Spring D: Pedal-Pedal / Push-Push
FT5: 3/8" Bağlantı Deliği Port	2: 5/2 Kol Dönüslü / Double		
FT6: 1/2" Bağlantı Deliği Port	3: 5/3 Kapalı Merkez / Closed Center		
	4: 5/3 Açık Merkez / Open Center		
	5: 5/3 Basınç Merkez / Pressure Center		

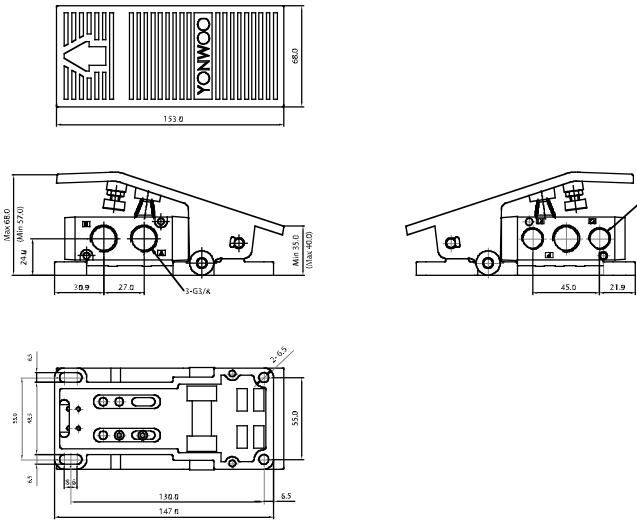
FT Serisi Pedal Valfler (5/2 - 5/3) / FT Series Foot Pedal Valves (5/2 - 5/3)

Teknik Çizimler / Technical Drawings

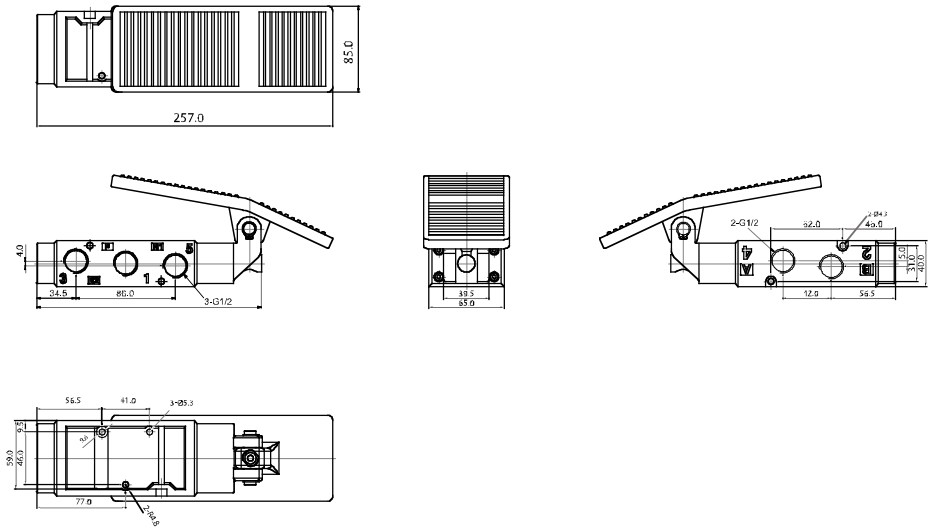
FT400



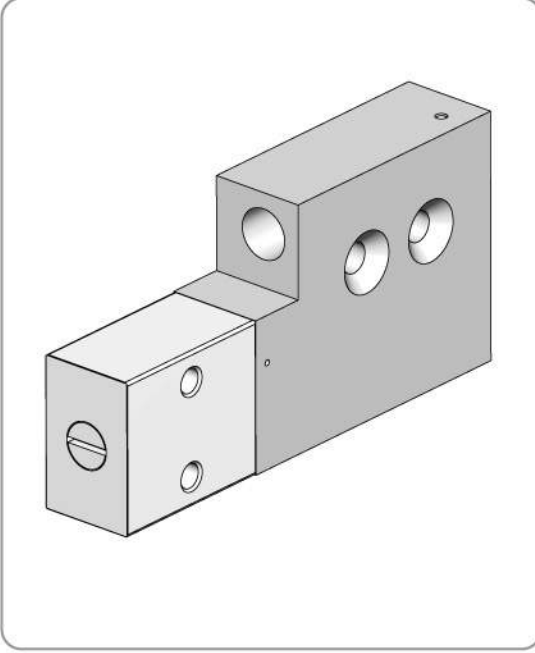
FT500



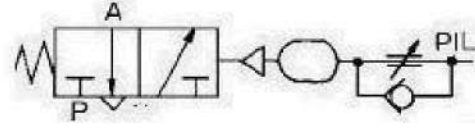
FT600



WTD - 001 Serisi / WTD-001 Series



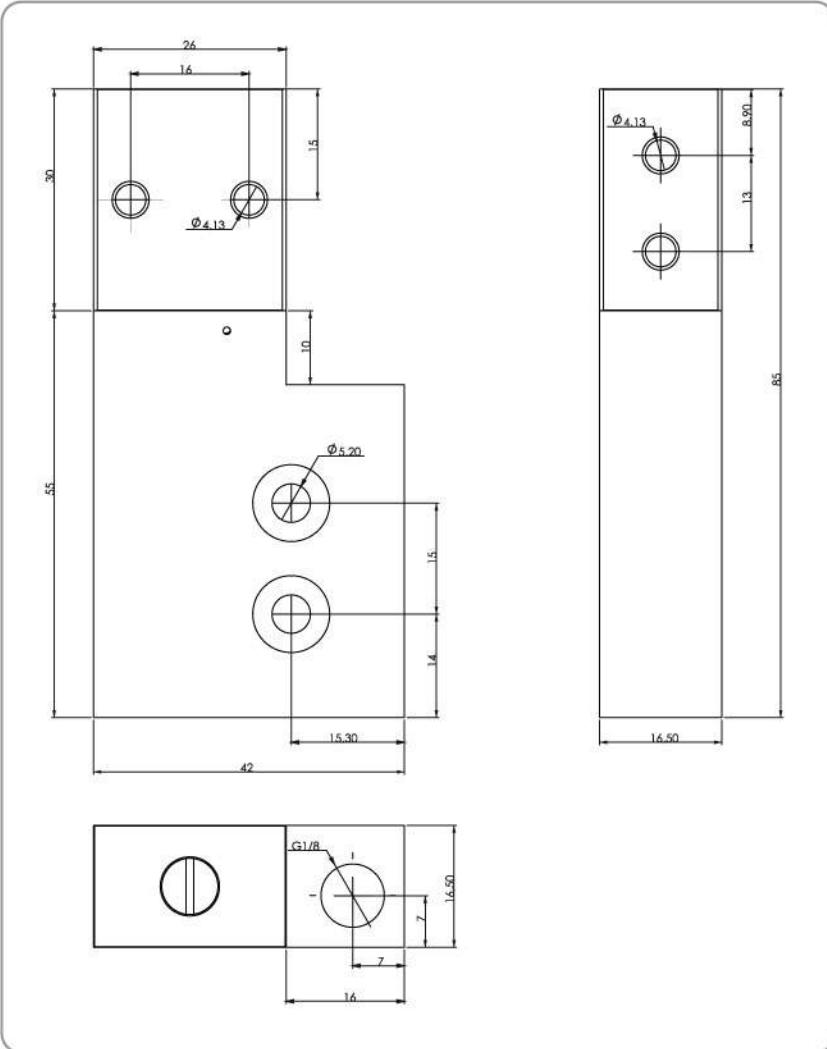
Sembol / Symbol



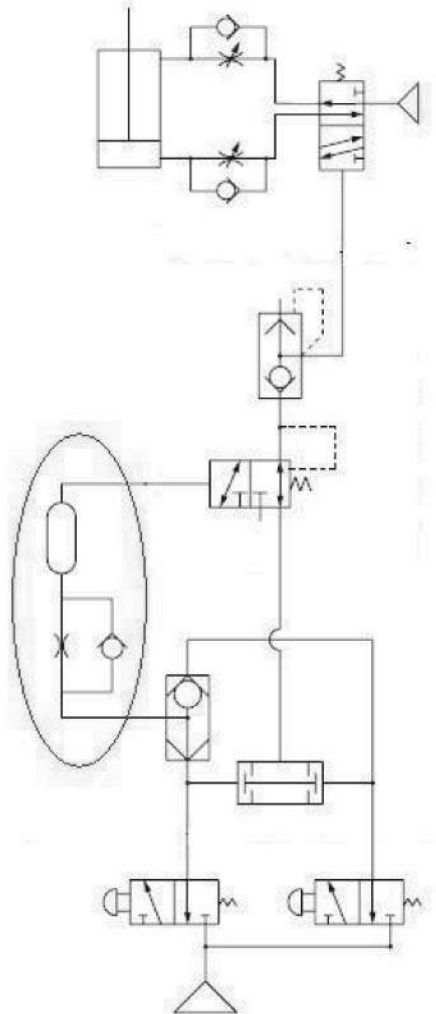
Özellikler / Specification

Model / Model	WTD-001
Akışkan /	Filtrelenmiş Hava (40 mikron)
Çalışma Tipi /	Normalde Kapalı
Bağlantı Ölçüsü /	M5
Basınç Aralığı /	3,5-8,0 bar
Çalışma Sıcaklığı /	0-60 °C
Yağlama /	Gerektirmez
Zamanlama Aralığı /	0,05-10 sn
Sinyal Hattı /	1/8"

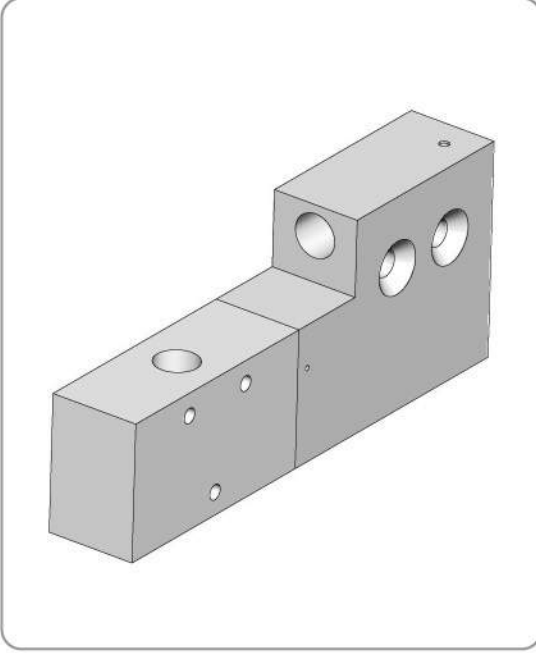
Sinyal hattında 1/8" Ters Kısmı Kullanılmaktadır. /



Örnek devre Uygulaması

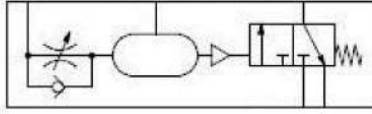


WTD - 002 Serisi / WTD-002 Series

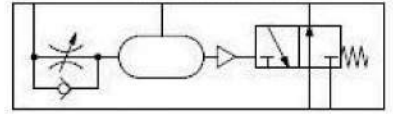


Sembol / Symbol

Normalde Kapalı



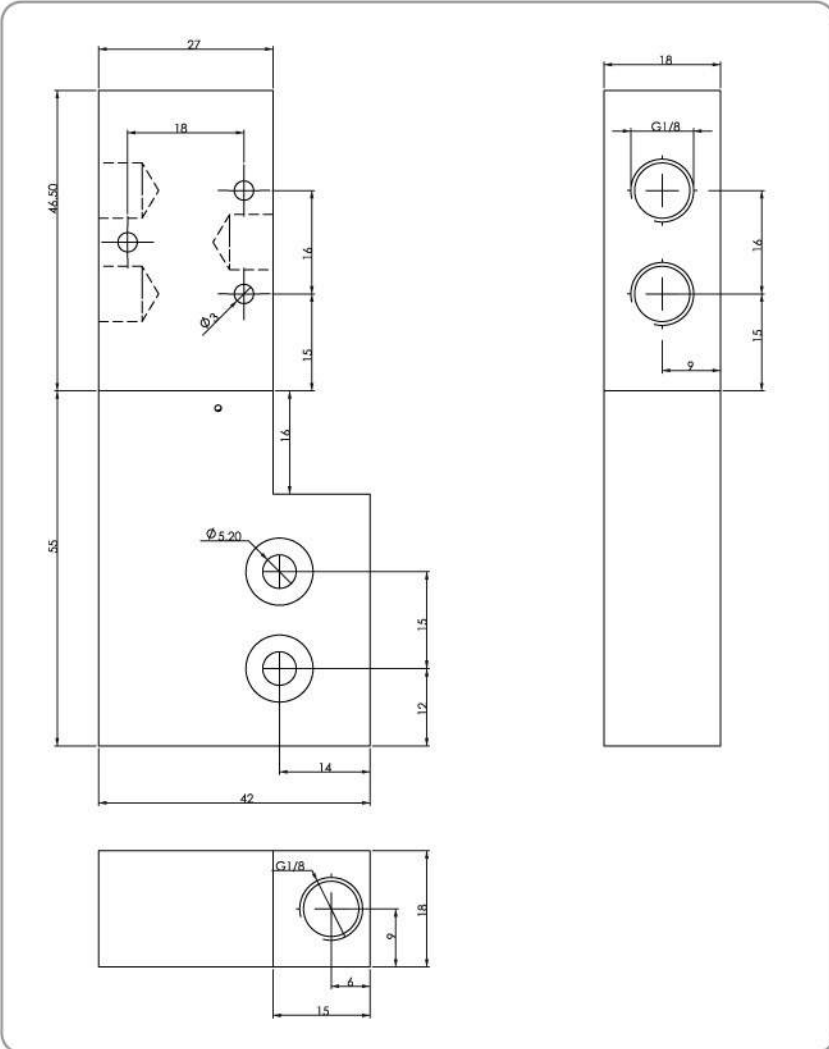
Normalde Açık



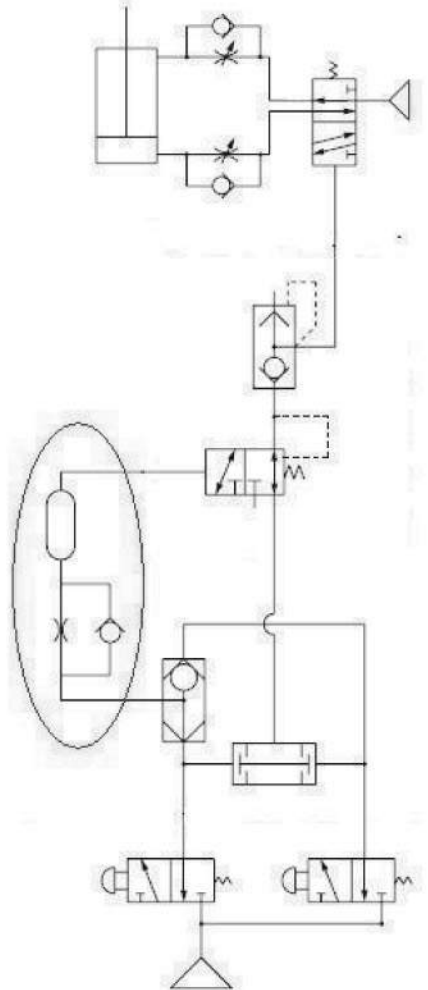
Özellikler / Specification

Model / Model	WTD-002
Akışkan /	Filtrelenmiş Hava (40 mikron)
Çalışma Tipi /	Normalde Kapalı / Normalde Açık
Bağlantı Ölçüsü /	1/8"
Basınç Aralığı /	3,5-8,0 bar
Çalışma Sıcaklığı /	0-60 °C
Yağlama /	Gerektirmez
Zamanlama Aralığı /	0,05-10 sn
Sinyal Hattı /	1/8"

Sinyal hattında 1/8" Ters Kısma Kullanılmaktadır. /



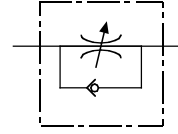
Örnek devre Uygulaması



ASC Serisi Hız Ayar Valfleri / ASC Series Speed Control Valves



Sembol / Symbol



Sipariş Kodu / Ordering Code

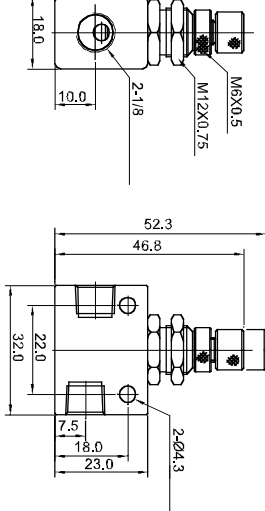
ASC	100	06
Model Model	Model Model	Diş Tipi Thread Type
ASC: Hız Ayar Valfi Speed Controller	100: 100 Serisi / Series 200: 200 Serisi / Series 300: 300 Serisi / Series	06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"

Özellikler / Specification

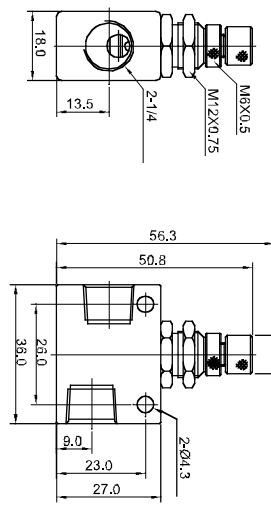
Model / Model	ASC100-06	ASC200-08	ASC300-10	ASC300-15
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)			
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	3/8"	1/2"
Basınç Aralığı / Pressure Range	0.5~9.5 bar / 0.05~0.95MPa / 7~135Psi			
Test Basıncı / Proof Pressure	15 bar / 1.5 MPa / 213 Psi			
Sıcaklık / Temperature	- 5 ~ 60°C			
Kontrollü Akış (L/dak) Control Flow (L/min)	200	450	1250	1650
Serbest Akış (L/dak) Free Flow (L/min)	400	800	1500	2500

Teknik Çizimler / Technical Drawings

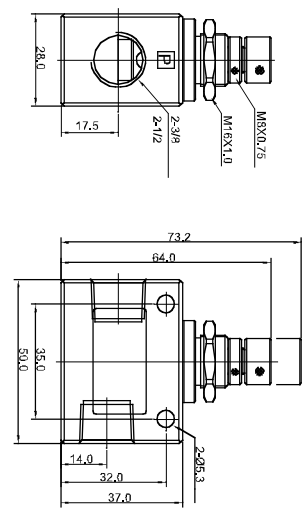
ASC100-06



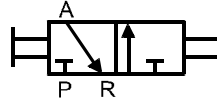
ASC200-08



ASC300-10(15)



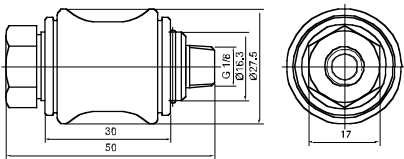
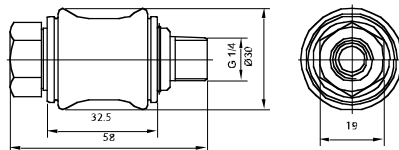
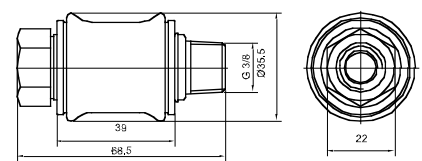
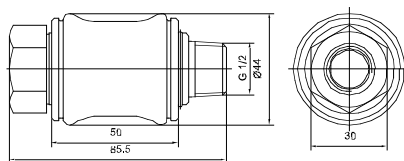
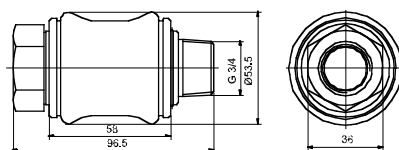
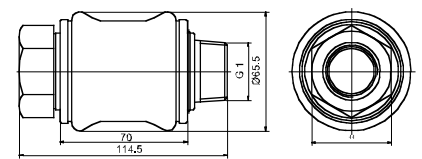
HSV Serisi Kayar Valfler (3/2) / HSV Series Hand Slide Valves (3/2)

Sembol / Symbol

Sipariş Kodu / Ordering Code

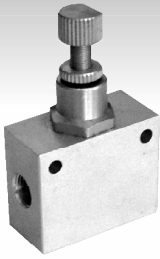
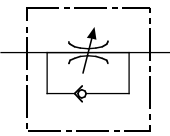
HSV	08	SS
Model Model	Bağlantı Ölçüsü Port Size	Diş Tipi Thread Type
HSV: Kayar Valf Hand Slide Valve	06: 1/8"	Boş / Blank: Standart Standard
	08: 1/4"	SS: İki Tarafıda Erkek Double Male Thread
	10: 3/8"	FF: İki Tarafıda Dişi Double Female Thread
	15: 1/2"	SF: Erkek-Dişi Male-Female
	20: 3/4"	
	25: 1"	

Özellikler / Specification

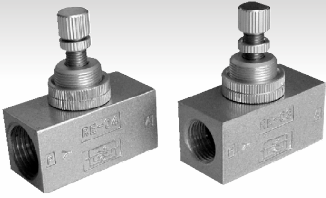
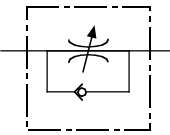
Model / Model	HSV06	HSV08	HSV10	HSV15	HSV20	HSV25
Akışkan / Fluid	40µ filtrelenmiş hava / Air (to be filtered by 40µ filter element)					
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Basınç Aralığı / Pressure Range	0~10.0 bar / 0~1.0 MPa / 0~142 Psi					
Test Basıncı / Proof Pressure	15 bar / 1.5 MPa / 213 Psi					
Sıcaklık / Temperature	-5 ~ 60°C					

Teknik Çizimler / Technical Drawings
HSV06

HSV08

HSV10

HSV15

HSV20

HSV25



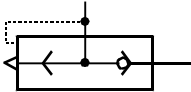
KLA Serisi Hız Ayar Valfleri / KLA Series Speed Control Valves

	Sembol / Symbol	Sipariş Kodu / Ordering Code		
		KLA	08	
		Model Model	Bağlantı Ölçüsü Port Size	Basınc Aralığı Pressure Range
KLA: Hız Ayar Valfi Speed Control Valve	06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	1.5~8.0 bar 0.15~0.8 MPa		

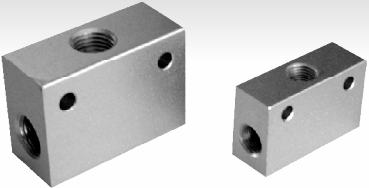
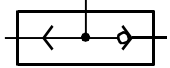
RE Serisi Hız Ayar Valfleri / RE Series Speed Control Valves

	Sembol / Symbol	Sipariş Kodu / Ordering Code		
		RE	08	
		Model Model	Bağlantı Ölçüsü Port Size	Basınc Aralığı Pressure Range
RE: Hız Ayar Valfi Speed Control Valve	06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	1.5~8.0 bar 0.15~0.8 MPa		


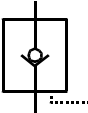
SE Serisi Çabuk Egzost Valfleri / SE Series Speedy Exhaust Valves

	Sembol / Symbol	Sipariş Kodu / Ordering Code		
		SE	08	
		Model Model	Bağlantı Ölçüsü Port Size	Basınc Aralığı Pressure Range
SE: Çabuk Egzost Valfi Speedy Exhaust Valve	06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2"	1.5~8.0 bar 0.15~0.8 MPa		

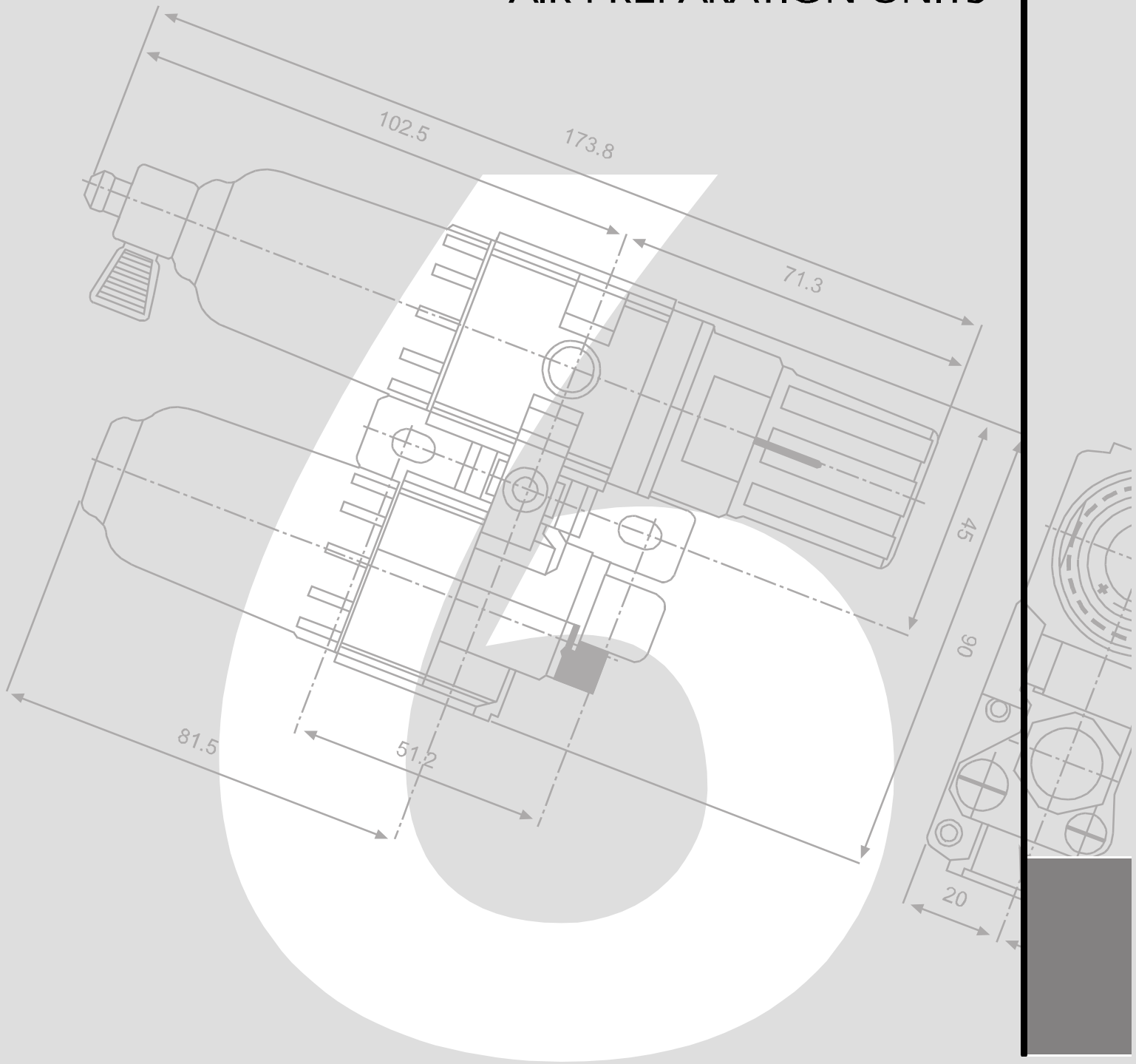
ST Serisi VEYA Valfleri / ST Series OR Valves

	Sembol / Symbol	Sipariş Kodu / Ordering Code		
		ST	08	
		Model Model	Bağlantı Ölçüsü Port Size	Basınc Aralığı Pressure Range
ST: VEYA Valfi OR Valve	06: 1/8" 08: 1/4"	1.5~8.0 bar 0.15~0.8 MPa		

JPC Serisi Pilotlu Çek (Kilitleme) Valfler / JPC Series Piloted Check Valves

	Sembol / Symbol	Sipariş Kodu / Ordering Code		
		JPC	02	
		Model Model	Bağlantı Ölçüsü Port Size	Basınc Aralığı Pressure Range
JPC: Pilotlu Çek Valf Piloted Check Valve	02: 1/4" 04: 1/2"	1.5~8.0 bar 0.15~0.8 MPa		

HAVA HAZIRLAYICILAR AIR PREPARATION UNITS



HAVA HAZIRLAYICILAR

AIR PREPARATION UNITS

- GFC Serisi FR.L Şartlandırıcı / GFC Series FR.L Combination 6-01
- GC Serisi F.R.L Şartlandırıcı / GC Series F.R.L Combination 6-03
- AFC - BFC Serisi FR.L Şartlandırıcı / AFC - BFC Series FR.L Combination 6-05
- FRL20 Serisi FR.L Şartlandırıcı / FRL20 Series FR.L Combination 6-07
- C20 Serisi F.R.L Şartlandırıcı / C20 Series F.R.L Combination 6-08
- FRL50 Serisi FR.L Şartlandırıcı / FRL50 Series FR.L Combination 6-09
- C50 Serisi F.R.L Şartlandırıcı / C50 Series F.R.L Combination 6-10
- FRL80 Serisi FR.L Şartlandırıcı / FRL80 Series FR.L Combination 6-11
- C80 Serisi F.R.L Şartlandırıcı / C80 Series F.R.L Combination 6-12
- C90 Serisi F.R.L Şartlandırıcı / C90 Series F.R.L Combination 6-13
- GFR Serisi Filtre - Regülatör / GFR Series Filter - Regulator 6-14
- AFR - BFR Serisi Filtre - Regülatör / AFR - BFR Series Filter - Regulator 6-16
- GR Serisi Regülatör / GR Series Regulator 6-18
- AR - BR Serisi Regülatör / AR - BR Series Regulator 6-20
- IR Serisi Hassas Regülatör / IR Series Precision Regulator 6-22
- QTY Yüksek Basınç Regülatör / High - Pressure Regulator 6-23
- QSL Yüksek Basınç Filtresi / High - Press Filter 6-23
- GF Serisi Filtre / GF Series Filter 6-24
- AF - BF Serisi Filtre / AF - BF Series Filter 6-25
- GL Serisi Yağlayıcı / GL Series Lubricator 6-26
- AL BL Serisi / AL BL Series 6-27
- GV Serisi Yumuşak Kalkış Valfi / GV Series Soft Start - Up Valve 6-28
- GZ Serisi Basınç Emniyet Valfi / GZ Series Pressure Relief Valve 6-30
- GA Serisi Hava Dağıtım Bloğu / GA Series Air Distribution Block 6-31
- AAD Serisi / AAD Series 6-32

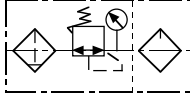
GFC Serisi FR.L Şartlandırıcı / GFC Series FR.L Combination



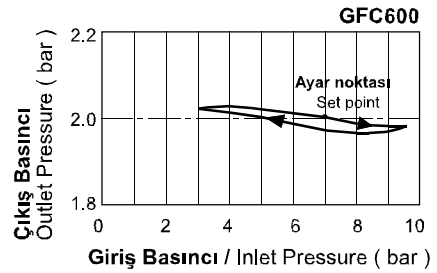
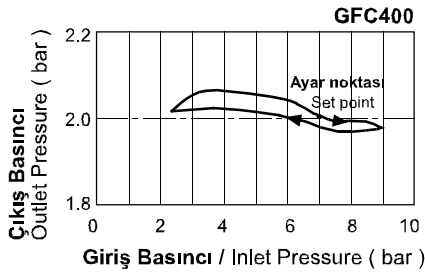
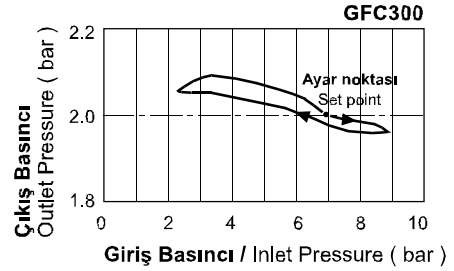
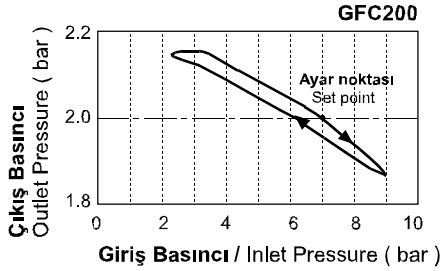
Özellikler / Specification

Model / Model	GFC200 -06	GFC200 -08	GFC300 -08	GFC300 -10	GFC300 -15	GFC400 -10	GFC400 -15	GFC600 -20	GFC600 -25
Akışkan / Fluid	Hava / Air								
Bağlantı Ölçüsü Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtreleme Seviyesi Filtering Grade	40µ veya / or 5µ								
Basınç Aralığı Pressure Range	1.5~9.0bar / 0.15~0.9MPa / 21~128Psi								
Max. Çalışma Basıncı Max. Pressure	10.0bar / 1.0MPa / 142Psi								
Test Basıncı Proof Pressure	15.0bar / 1.5MPa / 213Psi								
Sıcaklık / Temperature	5~60°C								
Filtre Kavanoz Kapasitesi Drain Bowl Capacity	10cc	40cc			80cc		230cc		
Yağ Kavanoz Kapasitesi Oil Bowl Capacity	25cc	75cc			160cc		380cc		
Önerilen Yağ Recommended Lubricant	ISOVG32 veya eş değeri / ISO VG32 or equivalent								
Ağırlık / Weight	425g	980g			1950g		3240g		

Sembol / Symbol



Basınç Diyagramları / Pressure Charts

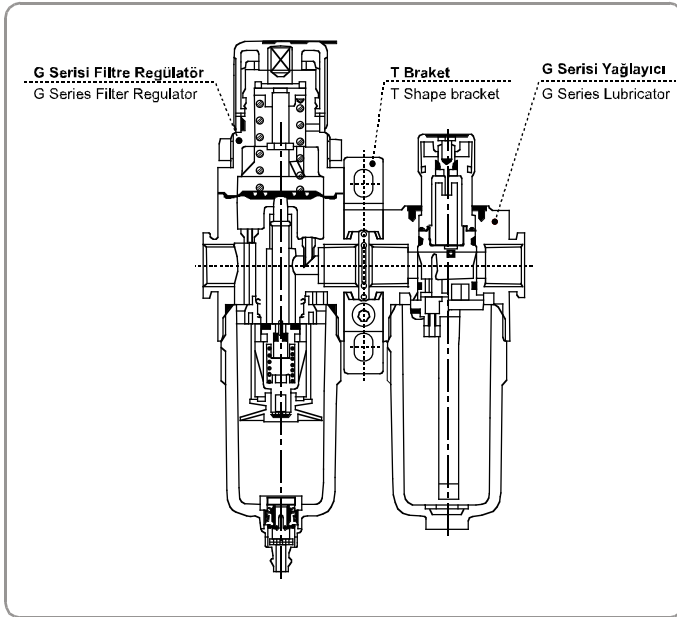


Sipariş Kodu / Ordering Code

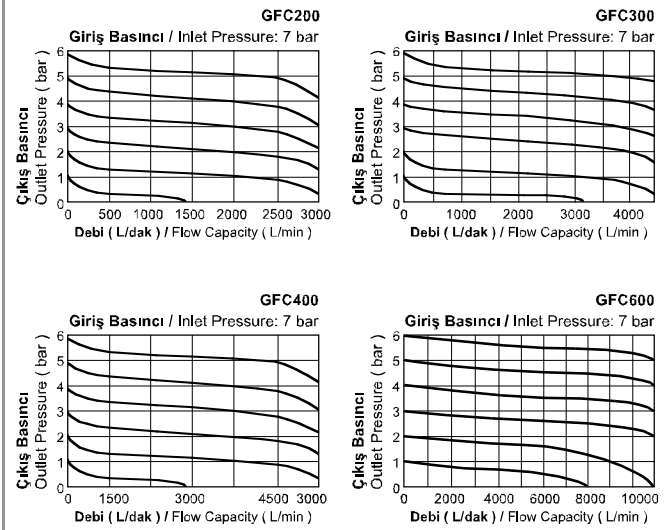
GFC200	08	M	L	-	F	1	W	G
Model / Model	Bağlantı / Port	Tahliye / Drain	Basınç / Pressure	Manometre / Gauge	Manometre Şekli Gauge Shape	Skala / Scale	Filtreleme Derecesi Filtering Grade	Diş Tipi / Thread
GFC200	06: 1/8" 08: 1/4"	Boş / Blank: Yarı Otomatik Semi auto drain	Boş / Blank: Standart Standard	Boş / Blank: Manometreli Pressure Gauge	F: Kare Square	1: MPa	Boş / Blank: 40µ	Boş / Blank: PT
GFC300	08: 1/4" 10: 3/8" 15: 1/2"	M: Elle Tahliye Manuel Drain	L: Düşük Basınç Low Pressure (4 bar)	N: Manometresiz No Pressure Gauge	C: Yuvarlak Round	2: Psi	W: 5µ	G: BSPP
GFC400	10: 3/8" 15: 1/2"	A: Otomatik Auto Drain				3: bar		T: NPT
GFC600	20: 3/4" 25: 1"							

GFC Serisi FR.L Şartlandırıcı / GFC Series FR.L Combination

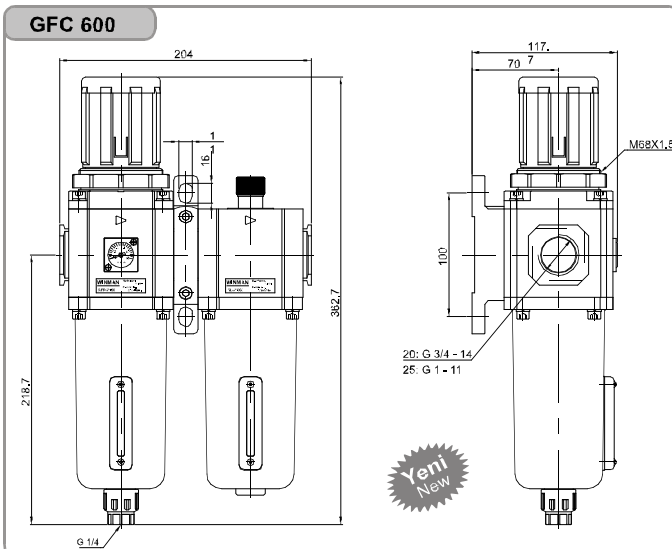
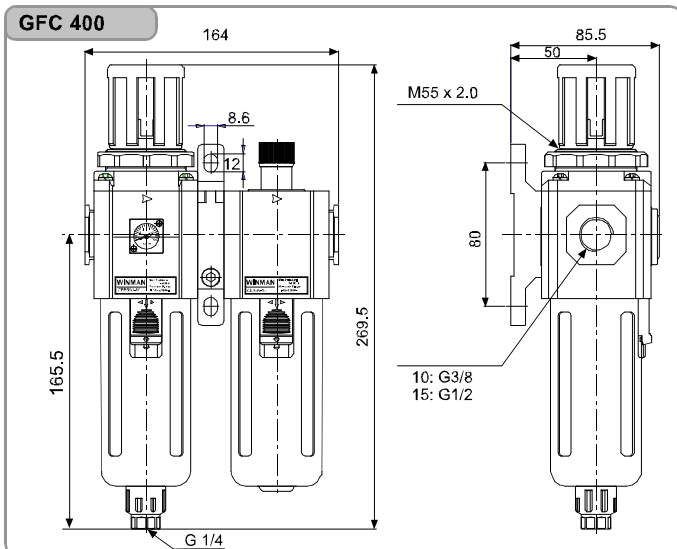
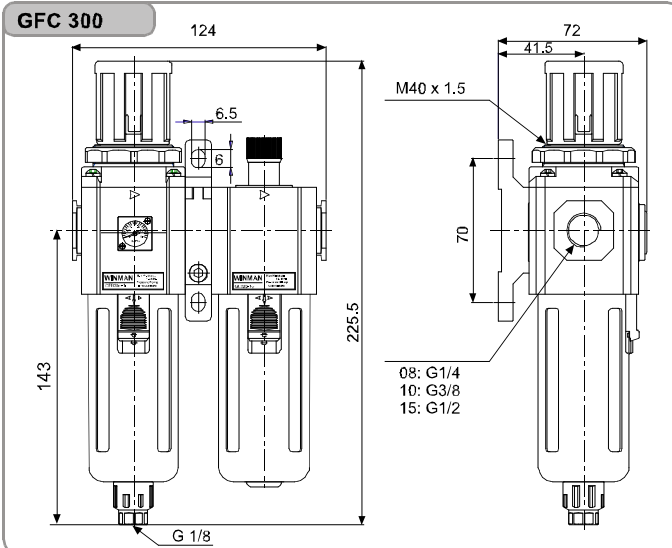
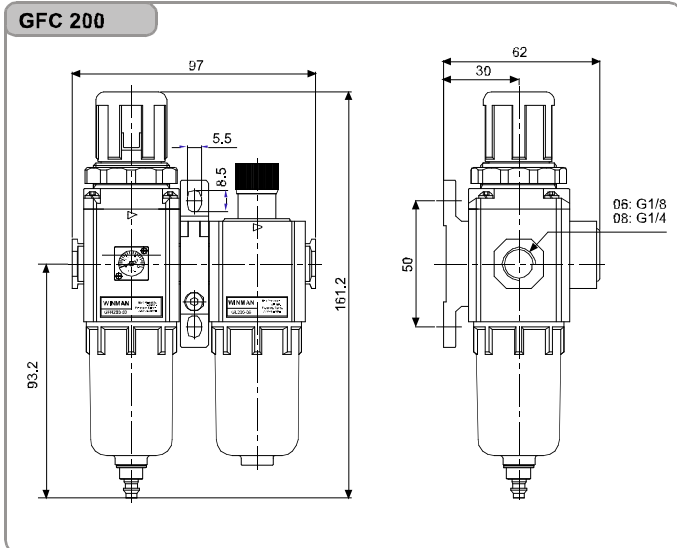
İç Yapı / Inner Structure



Akış Diyagramı / Flow Charts



Teknik Çizimler / Technical Drawing



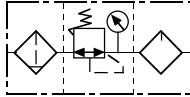
GC Serisi F.R.L Şartlandırıcı / GC Series F.R.L Combination



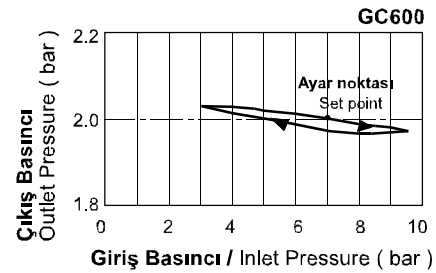
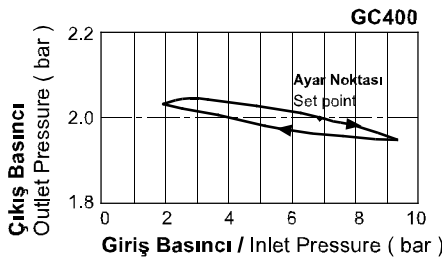
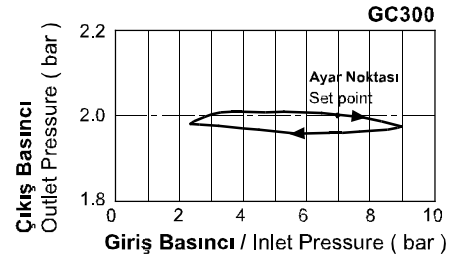
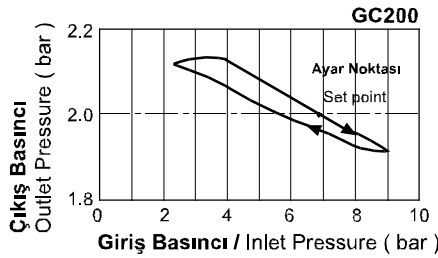
Özellikler / Specification

Model / Model	GC200 -06	GC200 -08	GC300 -08	GC300 -10	GC300 -15	GC400 -10	GC400 -15	GC600 -20	GC600 -25
Akışkan / Fluid	Hava / Air								
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtreleme Seviyesi Filtering Grade	40µ veya / or 5µ								
Basınç Aralığı Pressure Range	1.5~9.0bar / 0.15~0.9MPa / 21~128Psi								
Max. Çalışma Basıncı Max. Pressure	10.0bar / 1.0MPa / 142Psi								
Test Basıncı Proof Pressure	15.0bar / 1.5MPa / 213Psi								
Sıcaklık / Temperature	5~60°C								
Filtre Kavanoz Kapasitesi Drain Bowl Capacity	10cc		40cc			80cc		230cc	
Yağ Kavanoz Kapasitesi Oil Bowl Capacity	25cc		75cc			160cc		380cc	
Önerilen Yağ Recommended Lubricant	ISOVG32 veya eş değeri / ISO VG32 or equivalent								
Ağırlık / Weight	580g		1300g			2358g		3390g	

Sembol / Symbol



Basınç Diyagramları / Pressure Charts



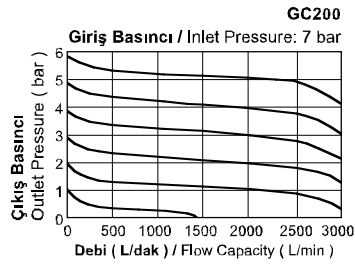
Sipariş Kodu / Ordering Code

GC200	08	M	L	-	F	1	W	G
Model / Model	Bağlantı / Port	Tahliye / Drain	Basınç / Pressure	Manometre / Gauge	Manometre Şekli / Gauge Shape	Skala / Scale	Filtreleme Derecesi / Filtering Grade	Diş Tipi / Thread
GC200	06: 1/8" 08: 1/4"	Boş / Blank: Yarı Otomatik Semi Auto Drain	Boş / Blank: Standart Standard	Boş / Blank: Manometreli Pressure Gauge	F: Kare Square	1: MPa	Boş / Blank: 40µ	Boş / Blank: PT
GC300	08: 1/4" 10: 3/8" 15: 1/2"	M: Elle Tahliye Manual Drain	L: Düşük Basınç Low Pressure (4 bar)	N: Manometresiz No Pressure Gauge	C: Yuvarlak Round	2: Psi 3: bar	W: 5µ	G: BSPP T: NPT
GC400	10: 3/8" 15: 1/2"							
GC600	20: 3/4" 25: 1"	A: Otomatik Auto Drain						

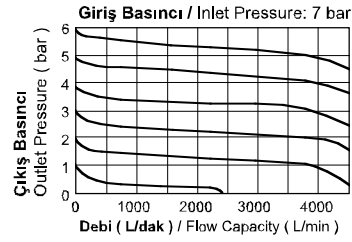
GC Serisi F.R.L Şartlandırıcı / GC Series F.R.L Combination

Akış Diyagramı / Flow Charts

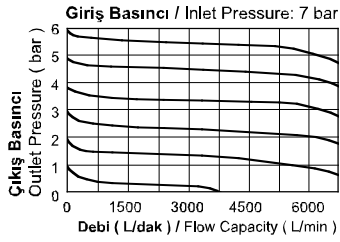
GC 200



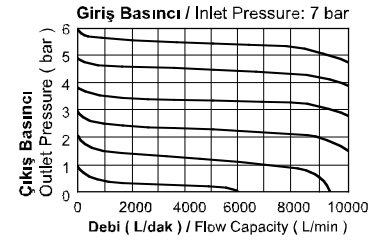
GC300



GC400

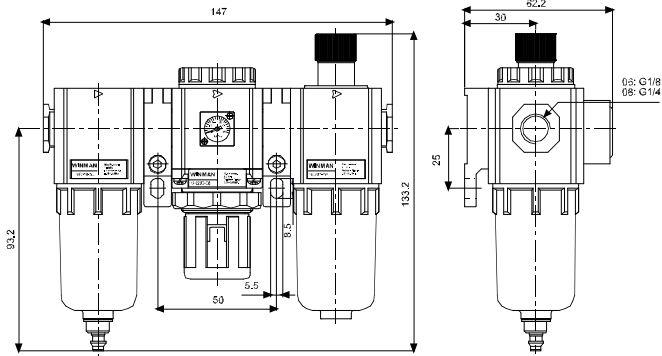


GC600

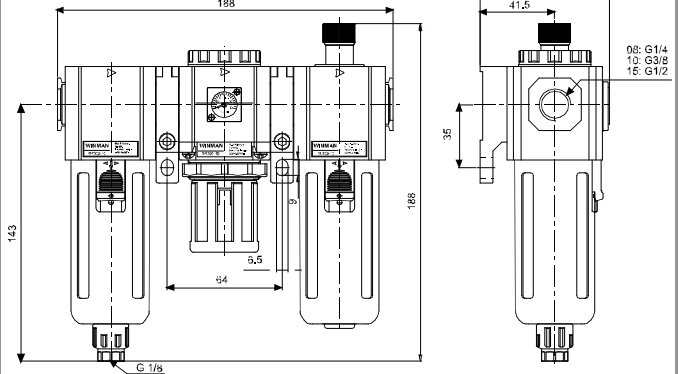


Teknik Çizimler / Technical Drawing

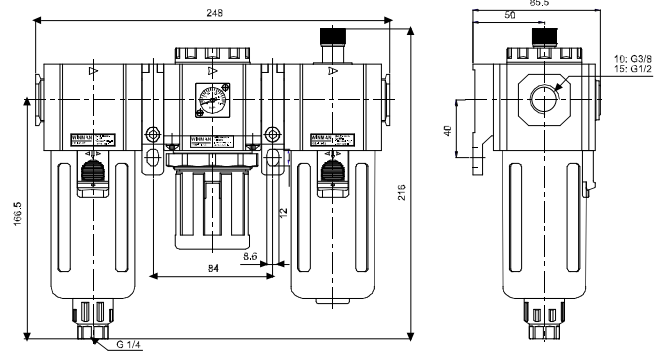
GC 200



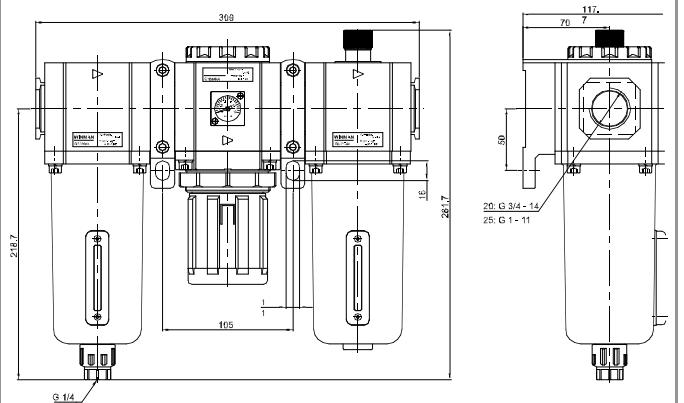
GC 300



GC 400



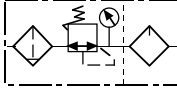
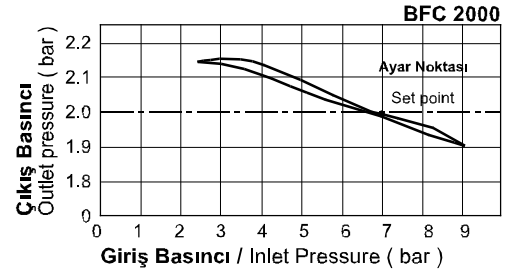
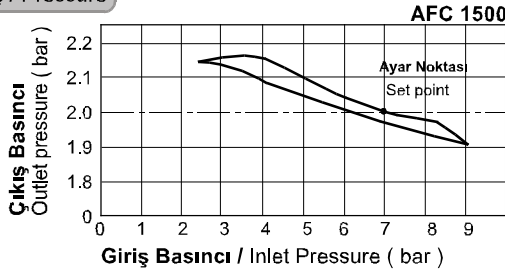
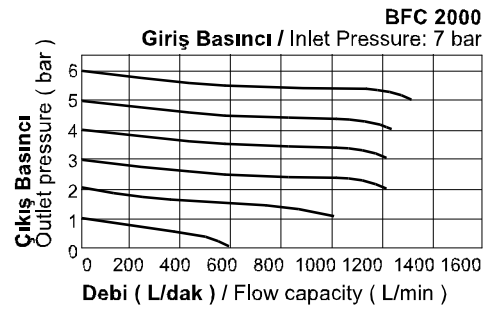
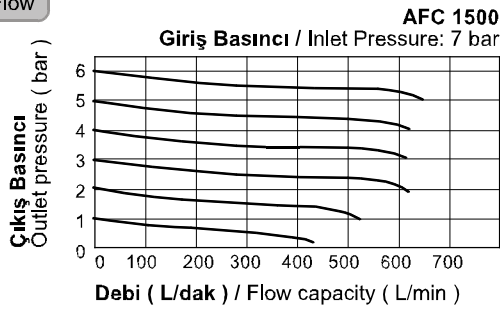
GC 600



AFC - BFC Serisi FR.L Şartlandırıcı / AFC - BFC Series FR.L Combination

Özellikler / Specification

Model / Model	AFC1500	AFC2000	BFC2000	BFC3000	BFC4000
Akışkan / Fluid	Hava / Air				
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"
Filtreleme Seviyesi / Filtering Grade	40µ				
Basınç Aralığı / Pressure Range	0.5~8.5bar / 0.05~0.85MPa / 7~121Psi				
Max. Çalışma Basıncı / Max. Pressure	9.5bar / 0.95MPa / 135Psi				
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi				
Sıcaklık / Temperature	5~60°C				
Filtre Kavanoz Kapasitesi / Drain Bowl Capacity	15cc			60cc	
Yağ Kavanoz Kapasitesi / Oil Bowl Capacity	25cc			90cc	
Önerilen Yağ / Recommended Lubricant	ISOVG32 veya eş değeri / ISO VG32 or equivalent				
Ağırlık / Weight	500g			700g	

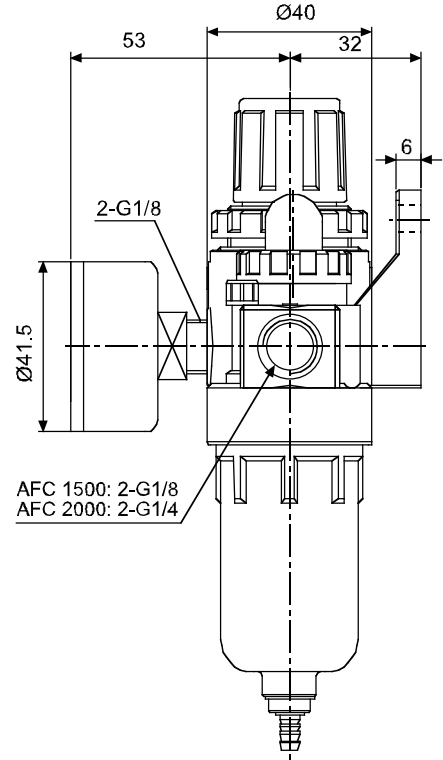
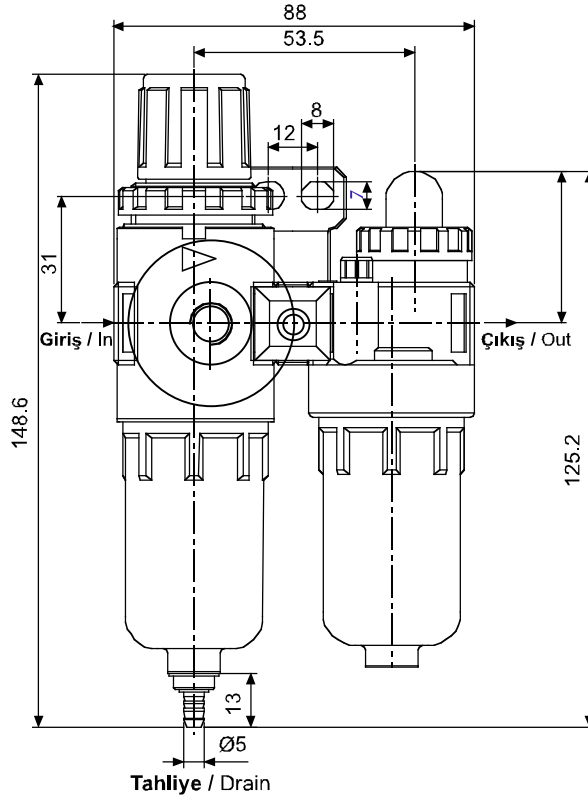
Sembol / Symbol

Basınç ve Akış Diyagramları / Pressure and Flow Chart
Basınç / Pressure

Debi / Flow

Sipariş Kodu / Ordering Code

AFC	1500	M
Model / Model	Bağlantı Ölçüsü / Port Size	Tahliye Tipi / Drain Type
AFC: Mini Seri / Mini Serie	1500: 1/8" 2000: 1/4"	Boş / Blank: Yarı Otomatik Semi auto drain A: Otomatik Auto Drain Sadece BFC Serisi için Only BFC Series have this function M: Elle Tahliye Manual Drain
BFC: Orta Seri / Medium Serie	2000: 1/4" 3000: 3/8" 4000: 1/2"	

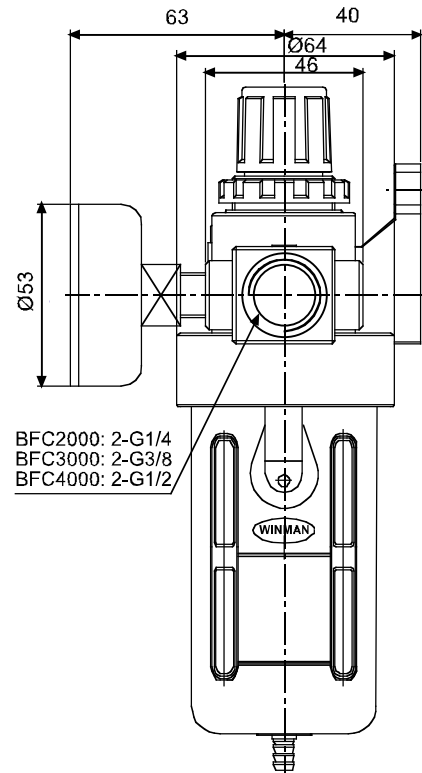
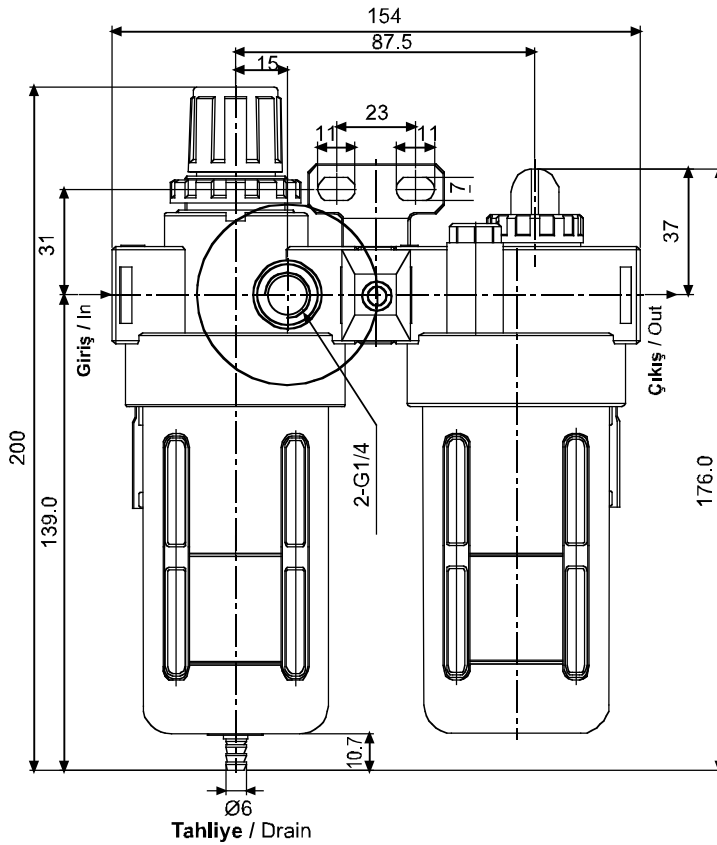
AFC - BFC Serisi FR.L Şartlandırıcı / AFC - BFC Series FR.L Combination

Teknik Çizimler / Technical Drawing

AFC



BFC



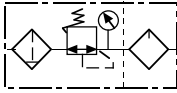
FRL20 Serisi FR.L Şartlandırıcı / FRL20 Series FR.L Combination



Özellikler / Specification

Model / Model	FRL201	FRL202	FRL212	
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5~9.9		0.5~16	
Max. Çalışma Basıncı / Max. Service Pressure (bar)	10.2		20	
Max. Akış (L / dak) / Max. Flow (L / min)	1000	1100	1100	
Çalışma Sıcaklığı / Operating Temp Range	5°C~60°C			
Filtre Hazne Kapasitesi / Drain Capacity	15ml			
Yağ Hazne Kapasitesi / Oil Capacity	30ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi Type of Constitution Unit	Filtre Regülatör Air Filter Regulator	FR201	FR202	FR212
	Yağlayıcı Lubricator	L201	L202	L212

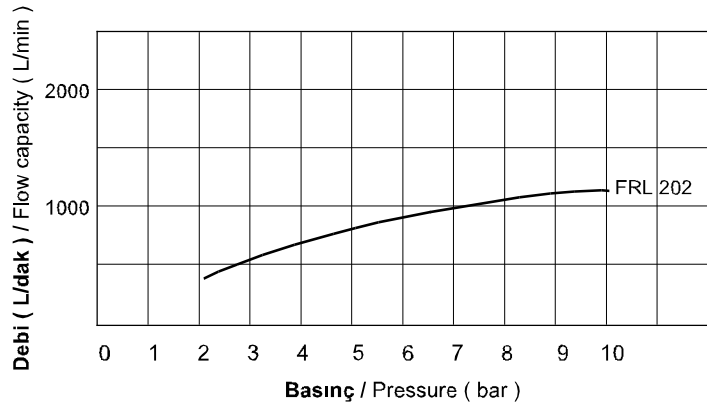
Sembol / Symbol



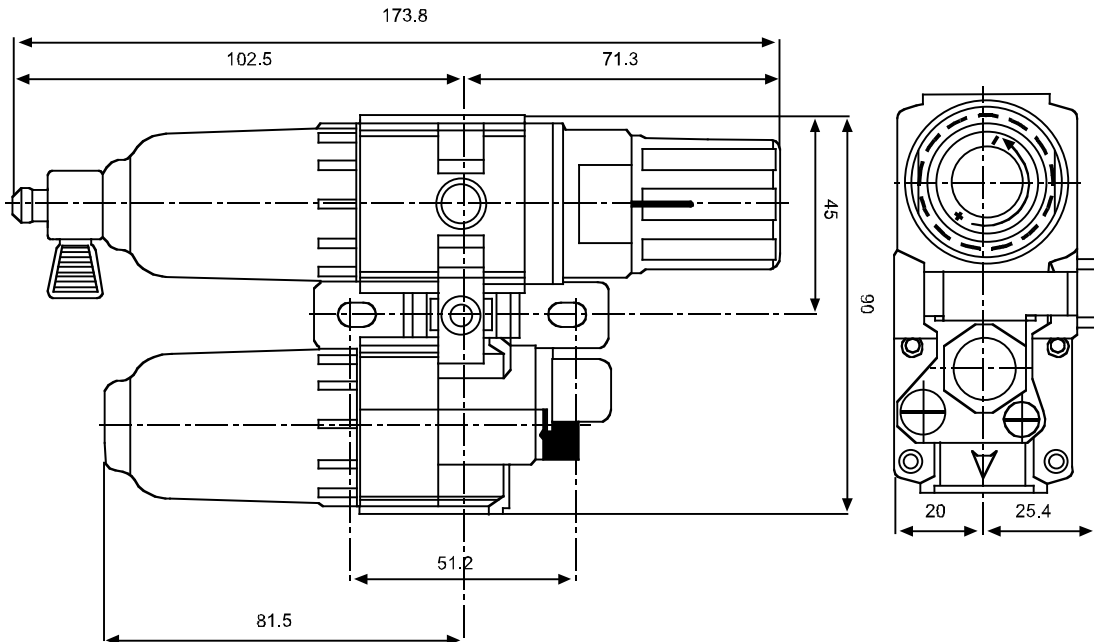
Sipariş Kodu / Ordering Code

FRL	20	2
Model / Model	Tip / Type	Bağlantı Ölçüsü Port Size
Filtre / Regülatör Yağlayıcı	20 Serisi / Series	1: 1/8"
Filter / Regulator Lubricator		2: 1/4"

Akış Diyagramı / Flow Chart



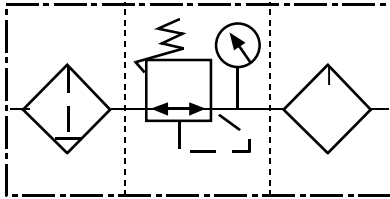
Teknik Çizim / Technical Drawing



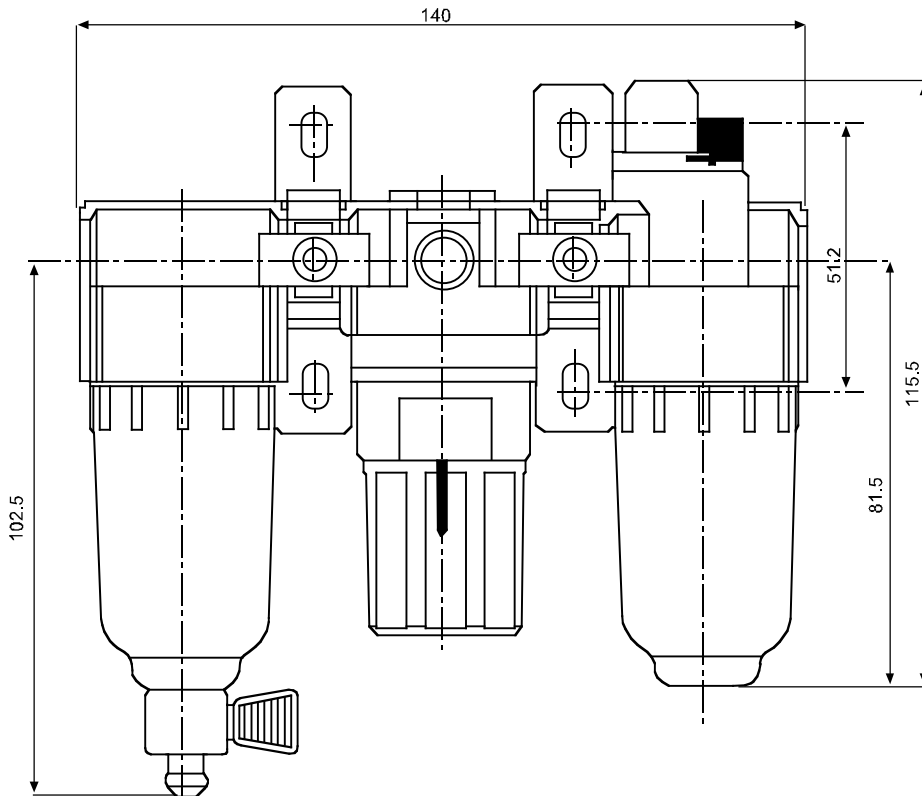
C20 Serisi F.R.L Şartlandırıcı / C20 Series F.R.L Combination

Özellikler / Specification

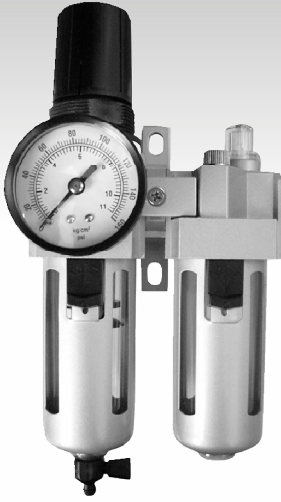
Model / Model	C 201	C 202	
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	
Filtre Elemanı / Filter Element	5µ		
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5~9.9		
Max. Çalışma Basıncı / Max. Service Pressure (bar)	10.2		
Max. Akış (L / dak) / Max. Flow (L / min)	1000	1100	
Çalışma Sıcaklığı / Operating Temp Range	5°C~60°C		
Filtre Hazne Kapasitesi / Drain Capacity	15ml		
Yağ Hazne Kapasitesi / Oil Capacity	30ml		
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32		
Bileşen Tipi Type of Constitution Unit	Filtre / Air Filter	F201	F202
	Regülatör / Regulator	R201	R202
	Yağlayıcı / Lubricator	L201	L202

Sembol / Symbol

Sipariş Kodu / Ordering Code

C	20	2
Model / Model	Tip / Type	Bağlantı Ölçüsü / Port Size
Filtre Regülatör Yağlayıcı Filter Regulator Lubricator	20 Serisi / Series	1: 1/8" 2: 1/4"

Teknik Çizim / Technical Drawing


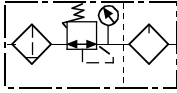
FRL50 Serisi FR.L Şartlandırıcı / FRL50 Series FR.L Combination



Özellikler / Specification

Model / Model	FRL502	FRL503	FRL504	
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"	
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5~10.2			
Max. Çalışma Basıncı / Max. Service Pressure (bar)	15			
Max. Akış (L / dak) / Max. Flow (L / min)	2200	3000	3100	
Çalışma Sıcaklığı / Operating Temp Range	5°C ~ 60°C			
Filtre Hazne Kapasitesi / Drain Capacity	55 ml			
Yağ Hazne Kapasitesi / Oil Capacity	80 ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi Type of Constitution Unit	Filtre Regülatör Air Filter Regulator	FR502	FR503	FR504
	Yağlayıcı Lubricator	L502	L503	L504

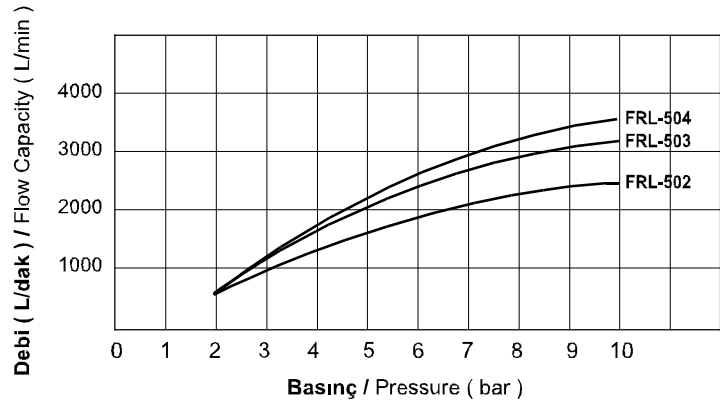
Sembol / Symbol



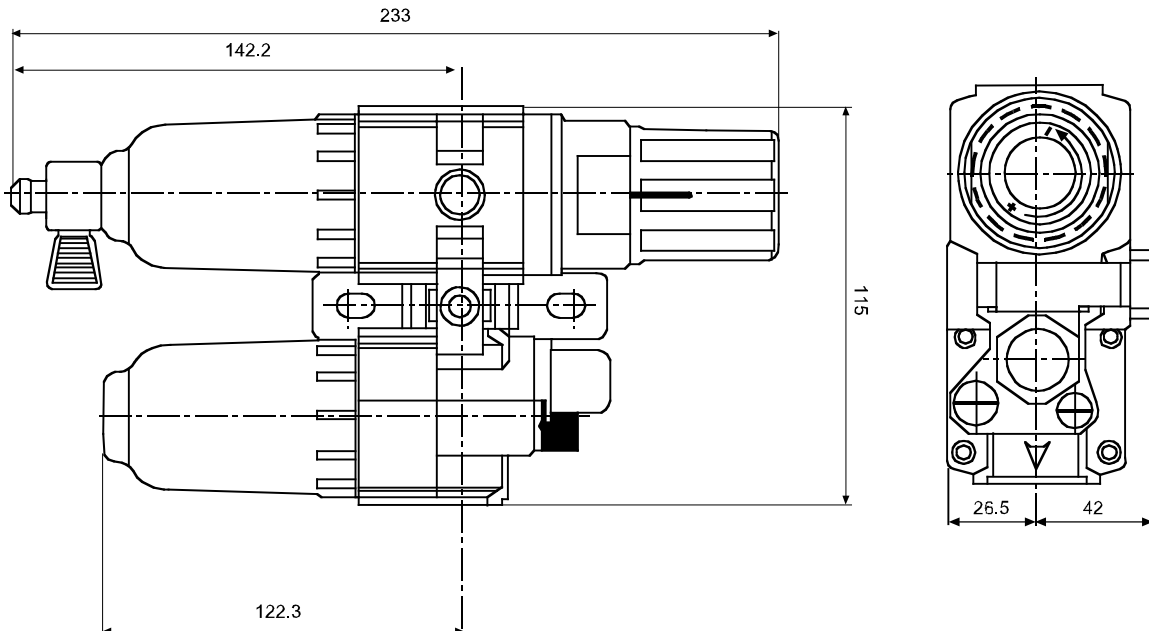
Sipariş Kodu / Ordering Code

FRL	50	2	A
Model / Model	Tip / Type	Bağlantı Ölçüsü Port Size	Otomatik Tahliye Auto Drain
Filtre / Regülatör Yağlayıcı	50 Serisi 50 Series	2: 1/4"	Boş / Blank: Manuel
Filter / Regulator Lubricator		3: 3/8"	A : Otomatik Auto
		4: 1/2"	

Akış Diyagramı / Flow Chart



Teknik Çizim / Technical Drawing



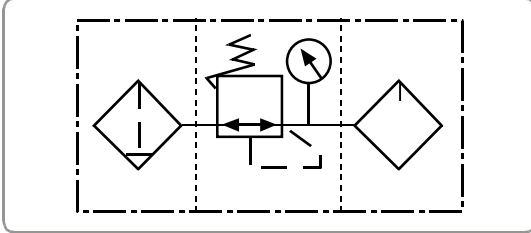
C50 Serisi F.R.L Şartlandırıcı / C50 Series F.R.L Combination



Özellikler / Specification

Model / Model	C 502	C 503	C 504	
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"	
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5 ~ 10.2			
Max. Çalışma Basıncı / Max. Service Pressure (bar)	15			
Max. Akış (L / dak) / Max. Flow (L / min)	2200	3000	3100	
Çalışma Sıcaklığı / Operating Temp Range	5°C ~ 60°C			
Filtre Hazne Kapasitesi / Drain Capacity	55 ml			
Yağ Hazne Kapasitesi / Oil Capacity	80 ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi Type of Constitution Unit	Filtre / Air Filter	F502	F503	F504
	Regülatör / Regulator	R502	R503	R504
	Yağlayıcı / Lubricator	L502	L503	L504

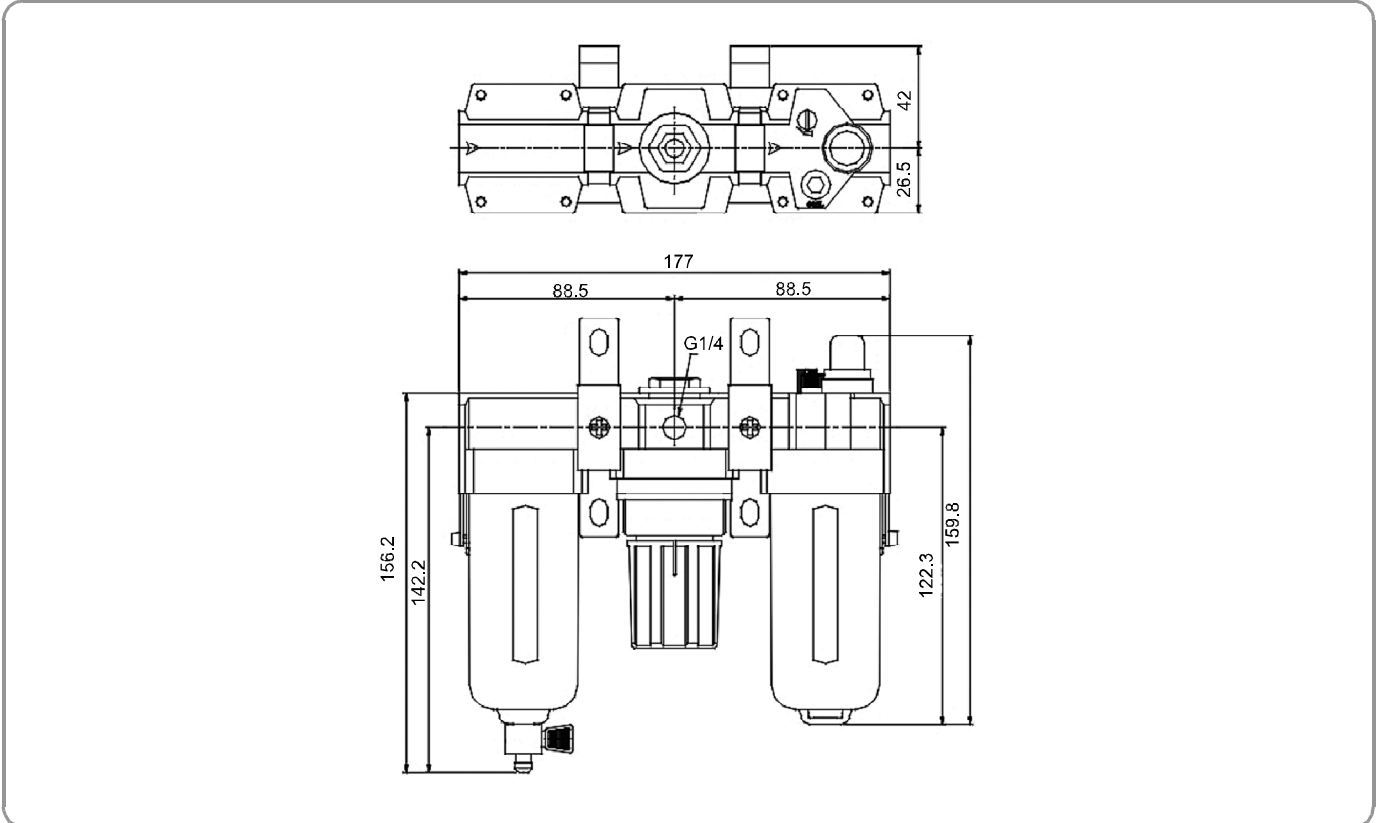
Sembol / Symbol



Sipariş Kodu / Ordering Code

C	50	2	A
Model / Model	Tip / Type	Bağlantı Ölçüsü / Port Size	Otomatik Tahliye Auto Drain
Filtre Regülatör Yağlayıcı Filter Regulator Lubricator	50 Serisi / Series	2: 1/4" 3: 3/8" 4: 1/2"	Boş / Blank: Manuel A : Otomatik / Auto

Teknik Çizim / Technical Drawing



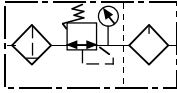
FRL80 Serisi FR.L Şartlandırıcı / FRL80 Series FR.L Combination



Özellikler / Specification

Model / Model	FRL802	FRL803	FRL804	FRL832
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"	1/4", 3/8", 1/2"
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5 ~ 9.9			0.5 ~ 15
Max. Çalışma Basıncı / Max. Service Pressure (bar)	15			20
Max. Akış (L / dak) / Max. Flow (L / min)	1750	2500	3000	1750 ~ 3000
Çalışma Sıcaklığı / Operating Temp Range	5°C ~ 60°C			
Filtre Hazne Kapasitesi / Drain Capacity	80 ml			
Yağ Hazne Kapasitesi / Oil Capacity	125 ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi / Type of Constitution Unit	Filtre Regülatör / Air Filter Regulator			
	FR802	FR803	FR804	
	Yağlayıcı / Lubricator			
	L802	L803	L804	

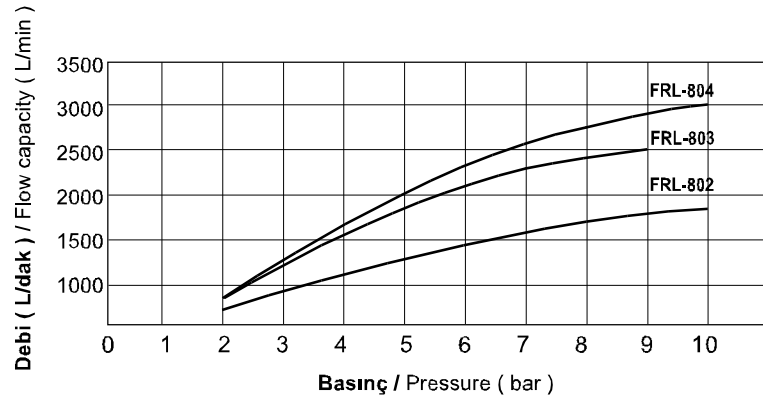
Sembol / Symbol



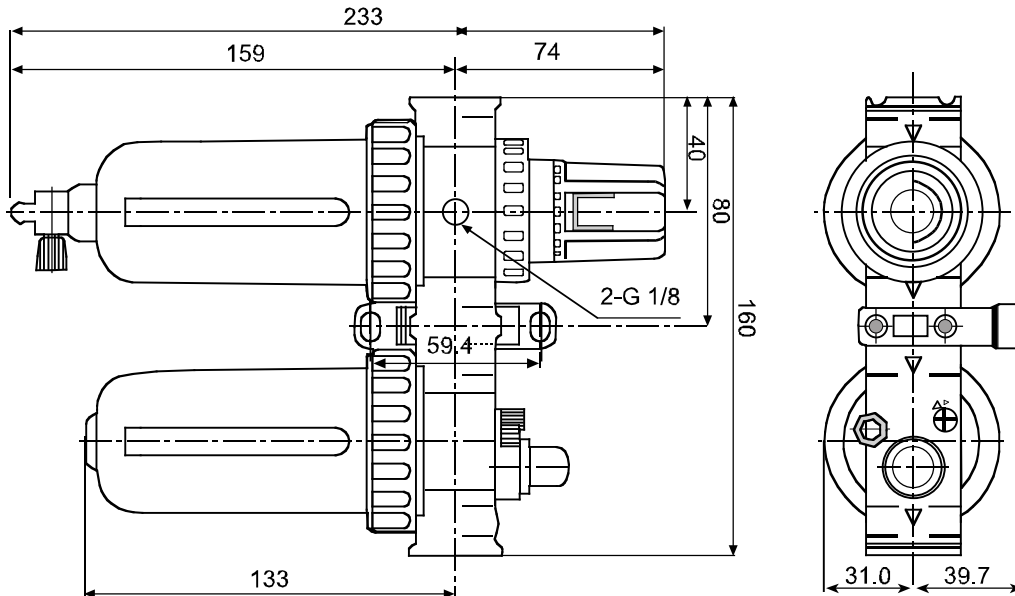
Sipariş Kodu / Ordering Code

FRL	80	2	A
Model / Model	Tip / Type	Bağlantı Ölçüsü / Port Size	Otomatik Tahliye / Auto Drain
Filtre / Regülatör / Yağlayıcı	80 Serisi / 80 Series	2: 1/4" 3: 3/8" 4: 1/2"	Boş / Blank: Manuel A: Otomatik / Auto
Filter / Regulator / Lubricator			

Akış Diyagramı / Flow Chart



Teknik Çizim / Technical Drawing



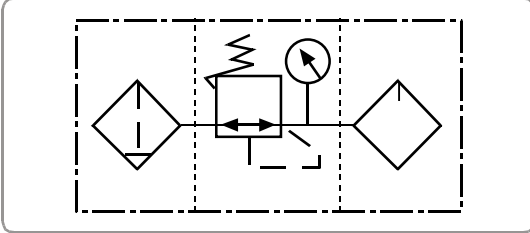
C80 Serisi F.R.L Şartlandırıcı / C80 Series F.R.L Combination



Özellikler / Specification

Model / Model	C 802	C 803	C 804	
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"	
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	0.5 ~ 9.9			
Max. Çalışma Basıncı / Max. Service Pressure (bar)	15			
Max. Akış (L / dak) / Max. Flow (L / min)	1750	2500	3000	
Çalışma Sıcaklığı / Operating Temp Range	5°C ~ 60°C			
Filtre Hazne Kapasitesi / Drain Capacity	80 ml			
Yağ Hazne Kapasitesi / Oil Capacity	125 ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi Type of Constitution Unit	Filtre / Air Filter	F802	F803	F804
	Regülatör / Regulator	R802	R803	R804
	Yağlayıcı / Lubricator	L802	L803	L804

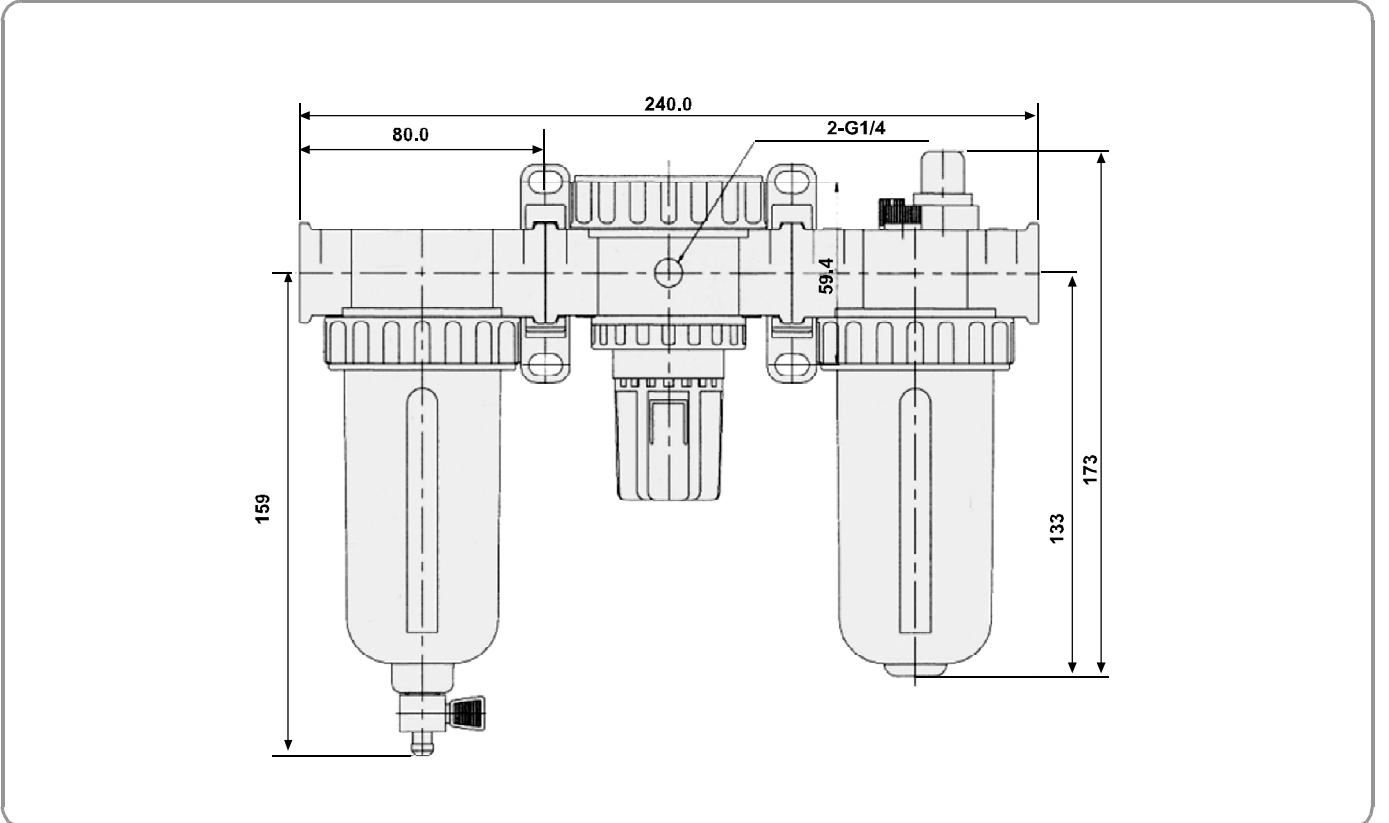
Sembol / Symbol



Sipariş Kodu / Ordering Code

C	80	2	A
Model / Model	Tip / Type	Bağlantı Ölçüsü / Port Size	Otomatik Tahliye Auto Drain
Filtre Regülatör Yağlayıcı Filter Regulator Lubricator	80 Serisi / Series	2: 1/4" 3: 3/8" 4: 1/2"	Boş / Blank: Manuel A : Otomatik / Auto

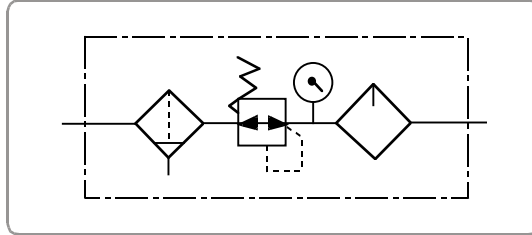
Teknik Çizim / Technical Drawing



C90 Serisi F.R.L Şartlandırıcı / C90 Series F.R.L Combination

Özellikler / Specification

Model / Model	C 906 R 906	C 908 R 908	F 906 L 906	F 908 L 908
Bağlantı Ölçüsü / Port Size	3/4"	1"	3/4"	1"
Filtre Elemanı / Filter Element	5µ			
Çalışma Basıncı / Adj. Pressure Range (bar)	10		20	
Max. Çalışma Basıncı / Max. Service Pressure (bar)	15		20	
Max. Akış (L / dak) / Max. Flow (L / min)	4600	5200	4600	5200
Çalışma Sıcaklığı / Operating Temp Range	5°C ~ 60°C			
Filtre Hazne Kapasitesi / Drain Capacity	350 ml			
Yağ Hazne Kapasitesi / Oil Capacity	350 ml			
Tavsiye Edilen Yağ / Recommended Lubricant	ISO VG-32			
Bileşen Tipi Type of Constitution Unit	Filtre / Air Filter	F906	F908	
	Regülatör / Regulator	R906	R908	
	Yağlayıcı / Lubricator	L906	L908	

Sembol / Symbol

Sipariş Kodu / Ordering Code

C	90	6	A
Model / Model	Tip / Type	Bağlantı Ölçüsü / Port Size	Otomatik Tahliye Auto Drain
Filtre Regülatör Yağlayıcı Filter Regulator Lubricator	90 Serisi / Series	6: 3/4" 8: 1"	Boş / Blank: Manuel A : Otomatik / Auto

Teknik Çizim / Technical Drawing

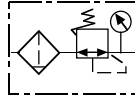

GFR Serisi Filtre - Regülatör / GFR Series Filter - Regulator



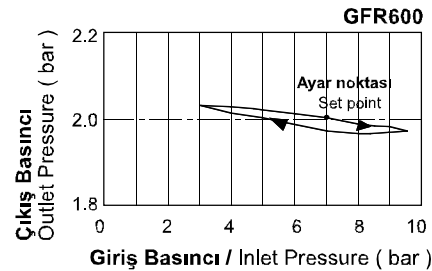
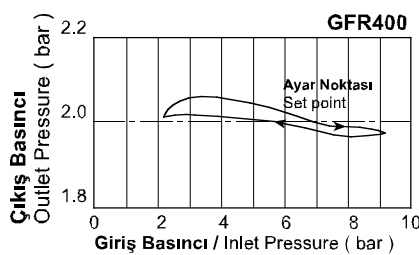
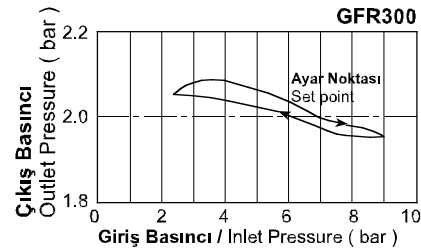
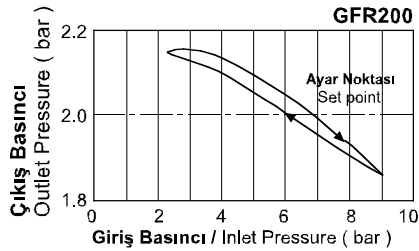
Özellikler / Specification

Model / Model	GFR200 -06	GFR200 -08	GFR300 -08	GFR300 -10	GFR300 -15	GFR400 -10	GFR400 -15	GFR600 -20	GFR600 -25
Akışkan / Fluid	Hava / Air								
Bağlantı Ölçüsü Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtreleme Seviyesi Filtering Grade	40µ veya / or 5µ								
Basınç Aralığı Pressure Range	1.5~9.0bar / 0.15~0.9MPa / 21~128Psi								
Max. Çalışma Basıncı Max. Pressure	10.0bar / 1.0MPa / 142Psi								
Test Basıncı Proof Pressure	15.0bar / 1.5MPa / 213Psi								
Sıcaklık / Temperature	5~60°C								
Tahliye Kavanoz Kapasitesi Drain Bowl Capacity	10cc		40cc			80cc		230cc	
Ağırlık / Weight	216g		500g			1026g		3240g	

Sembol / Symbol



Basınç Diyagramları / Pressure Charts



Sipariş Kodu / Ordering Code

GFR200	08	M	L	-	-	F	1	W	G
Model / Model	Bağlantı / Port	Tahliye / Drain	Basınç / Pressure	Aksesuarlar / Accessories	Manometre / Gauge	Manometre Şekli / Gauge Shape	Skala / Scale	Filtreleme Derecesi / Filtering Grade	Diş Tipi / Thread
GFR200	06: 1/8" 08: 1/4"	Boş / Blank: Yarı Otomatik Semi Auto Drain	Boş / Blank: Standart Standard	Boş / Blank: Braketli / Bracket	Boş / Blank: Manometreli Pressure Gauge	F: Kare Square	1: MPa	Boş / Blank: 40µ	Boş / Blank: PT G: BSPP T: NPT
GFR300	08: 1/4" 10: 3/8" 15: 1/2"	M: Elle Tahliye Manuel Drain	L: Düşük Basınç Low Pressure	J: Braketsiz No Bracket	N: Manometresiz No Pressure Gauge	C: Yuvarlak Round	2: Psi	W: 5µ	
GFR400	10: 3/8" 15: 1/2"	A: Otomatik Auto Drain	(4 bar)				3: bar		
GFR600	20: 3/4" 25: 1"								

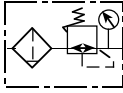
AFR - BFR Serisi Filtre - Regülatör / AFR - BFR Series Filter - Regulator



Özellikler / Specification

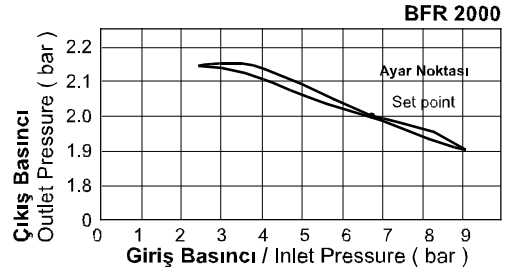
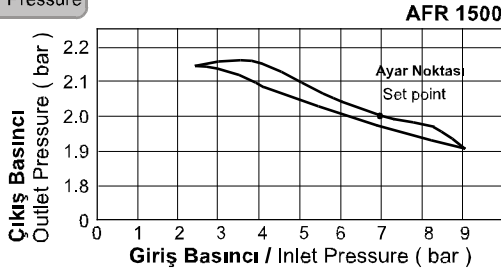
Model / Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Akışkan / Fluid	Hava / Air				
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"
Filtreleme Seviyesi / Filtering Grade	40µ				
Basınç Aralığı / Pressure Range	0.5-8.5bar / 0.05-0.85MPa / 7-121Psi				
Max. Çalışma Basıncı / Max. Pressure	9.5bar / 0.95MPa / 135Psi				
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi				
Sıcaklık / Temperature	5-60°C				
Tahliye Kavanoz Kapasitesi / Drain Bowl Capacity	15cc		60cc		
Ağırlık / Weight	260g		400g		

Sembol / Symbol

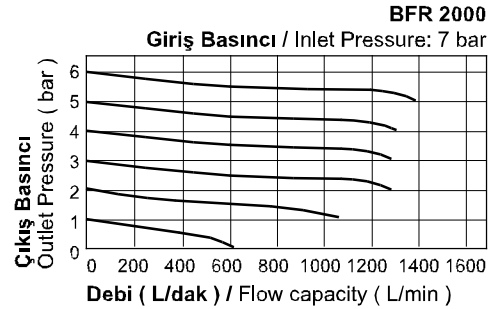
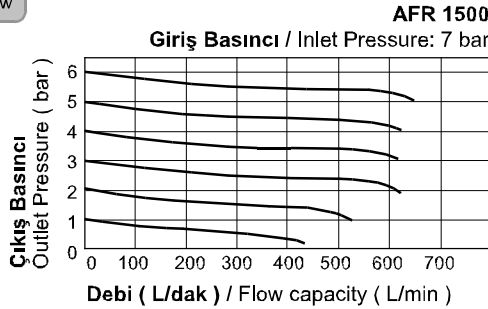


Basınç ve Akış Diyagramları / Pressure and Flow Chart

Basınç / Pressure



Debi / Flow



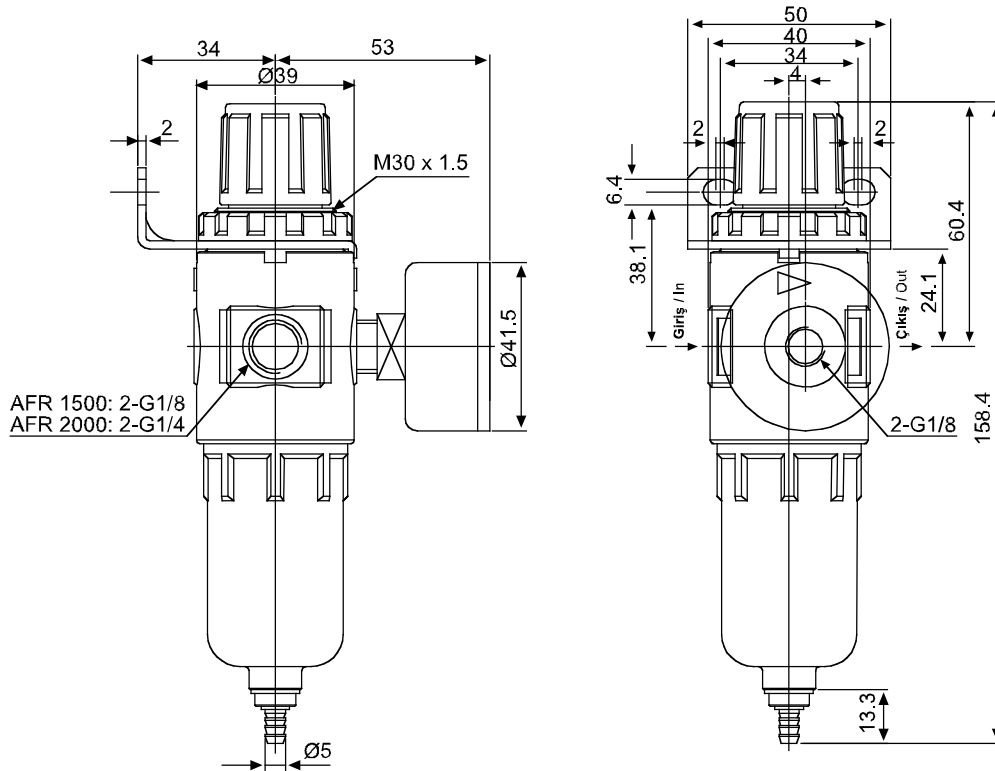
Sipariş Kodu / Ordering Code

AFR	1500	M
Model / Model	Bağlantı Ölçüsü / Port Size	Tahliye Tipi / Drain Type
AFR: Mini Seri / Mini Serie	1500: 1/8" 2000: 1/4"	Boş / Blank: Yarı Otomatik Semi auto drain
BFR: Orta Seri / Medium Serie	2000: 1/4" 3000: 3/8" 4000: 1/2"	A: Otomatik Auto Drain Sadece BFR Serisi için Only BFR Series have this function M: Elle Tahliye Manuel Drain

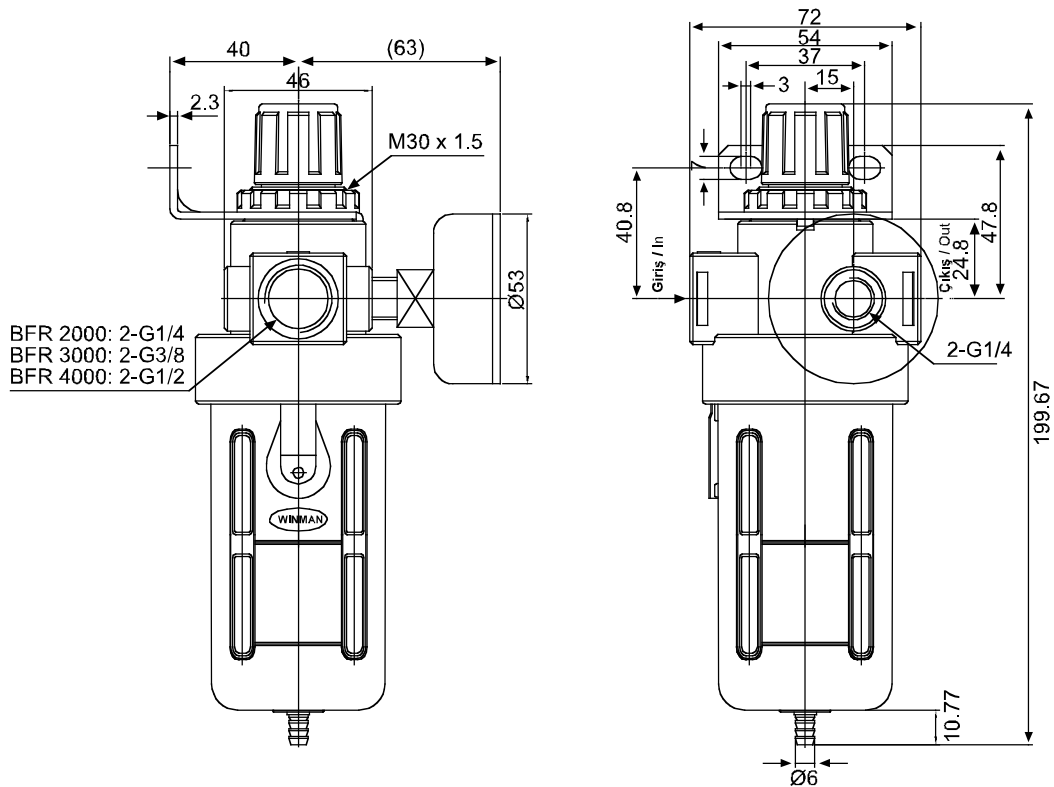
AFR - BFR Serisi Filtre - Regülatör / AFR - BFR Series Filter - Regulator

Teknik Çizimler / Technical Drawing

AFR



BFR



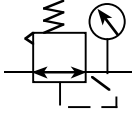
GR Serisi Regülatör / GR Series Regulator



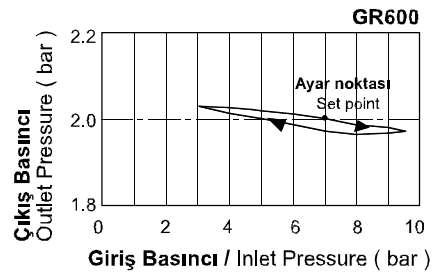
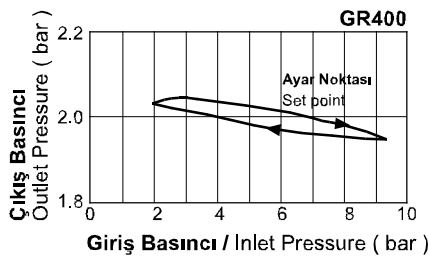
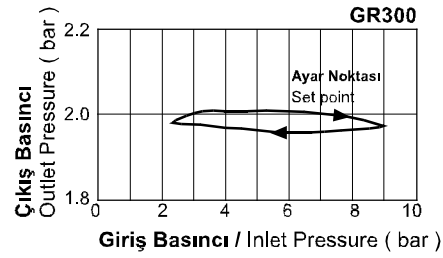
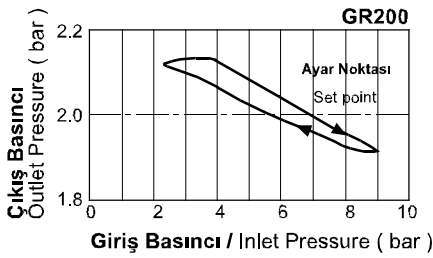
Özellikler / Specification

Model / Model	GR200-06	GR200-08	GR300-08	GR300-10	GR300-15	GR400-10	GR400-15	GR600-20	GR600-25
Akışkan / Fluid	Hava / Air								
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Basınç Aralığı / Pressure Range	1.5~9.0bar / 0.15~0.9MPa / 21~128Psi								
Max. Çalışma Basıncı / Max. Pressure	10.0bar / 1.0MPa / 142Psi								
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi								
Sıcaklık / Temperature	5~60°C								
Ağırlık / Weight	169g		350g			720g		1110g	

Sembol / Symbol



Basınç Diyagramları / Pressure Charts

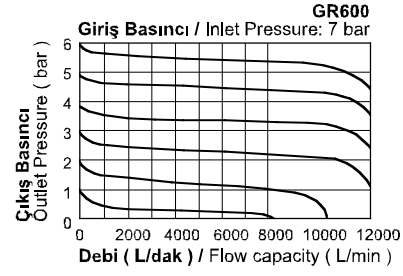
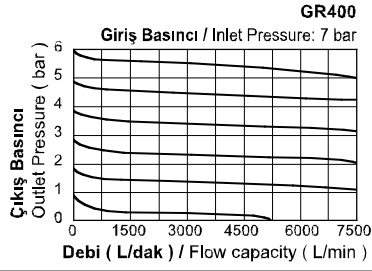
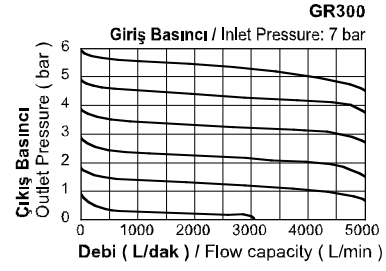
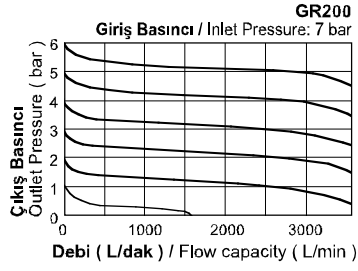


Sipariş Kodu / Ordering Code

GR200	08	L	-	-	F	1	G
Model / Model	Bağlantı / Port	Basınç / Pressure	Aksesuarlar / Accessories	Manometre / Gauge	Manometre Şekli / Gauge Shape	Skala / Scale	Diş Tipi / Thread
GR200	06: 1/8" 08: 1/4"	Boş / Blank: Standart / Standard L: Düşük Basınç / Low Pressure (4 bar)	Boş / Blank: Braketli / Bracket	Boş / Blank: Manometreli / Pressure Gauge	F: Kare / Square	1: MPa 2: Psi 3: bar	Boş / Blank: PT G: BSPP T: NPT
GR300	08: 1/4" 10: 3/8" 15: 1/2"		J: Braketsiz / No Bracket	N: Manometresiz / No Pressure Gauge	C: Yuvarlak / Round		
GR400	10: 3/8" 15: 1/2"						
GR600	20: 3/4" 25: 1"						

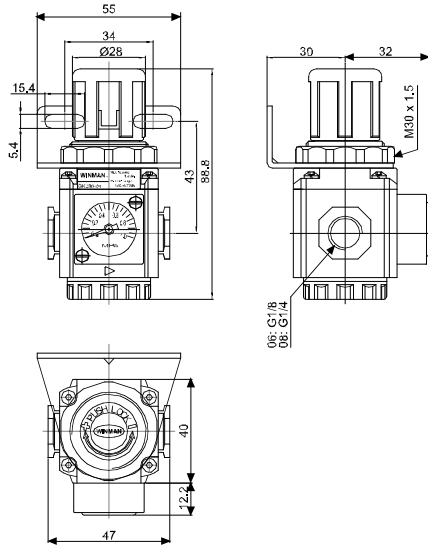
GR Serisi Regülatör / GR Series Regulator

Akış Diyagramları / Flow Charts

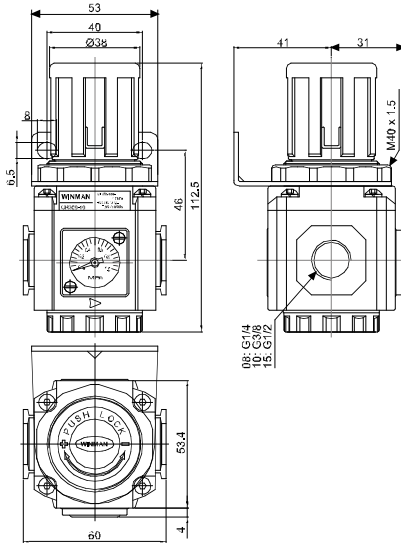


Teknik Çizimler / Technical Drawing

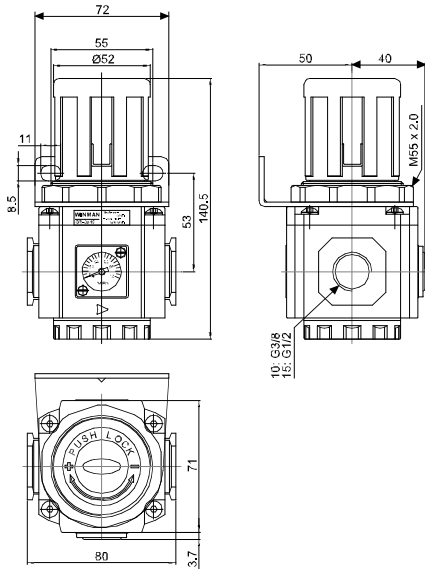
GR 200



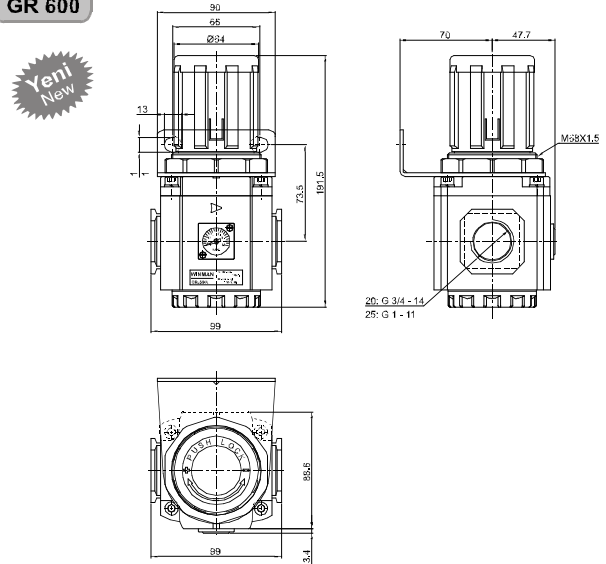
GR 300



GR 400



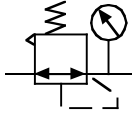
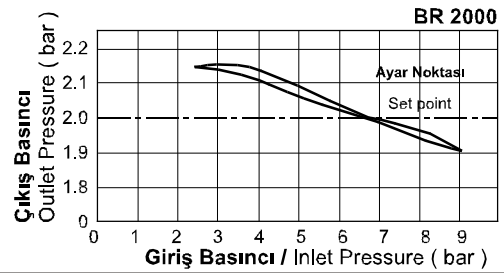
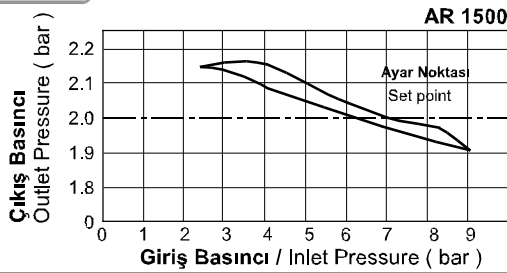
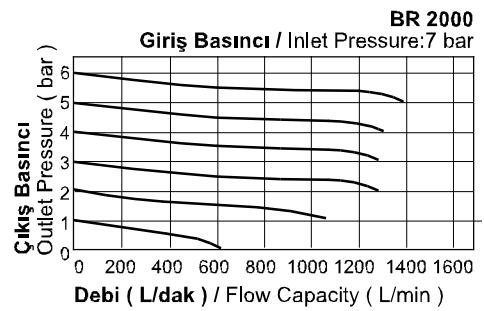
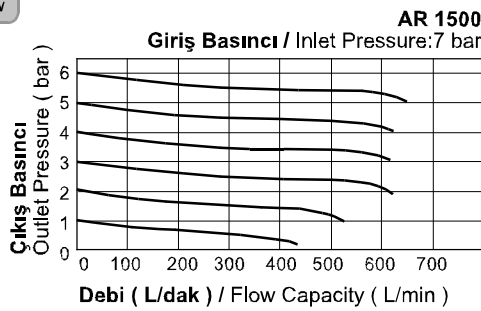
GR 600



AR - BR Serisi Regülatör / AR - BR Series Regulator

Özellikler / Specification

Model / Model	AR1500	AR2000	BR2000	BR3000	BR4000
Akışkan / Fluid	Hava / Air				
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"
Basınç Aralığı Pressure Range	0.5-8.5bar / 0.05-0.85MPa / 7-121Psi				
Max. Çalışma Basıncı Max. Pressure	9.5bar / 0.95MPa / 135Psi				
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi				
Sıcaklık / Temperature	5-60°C				
Ağırlık / Weight	200g		230g		

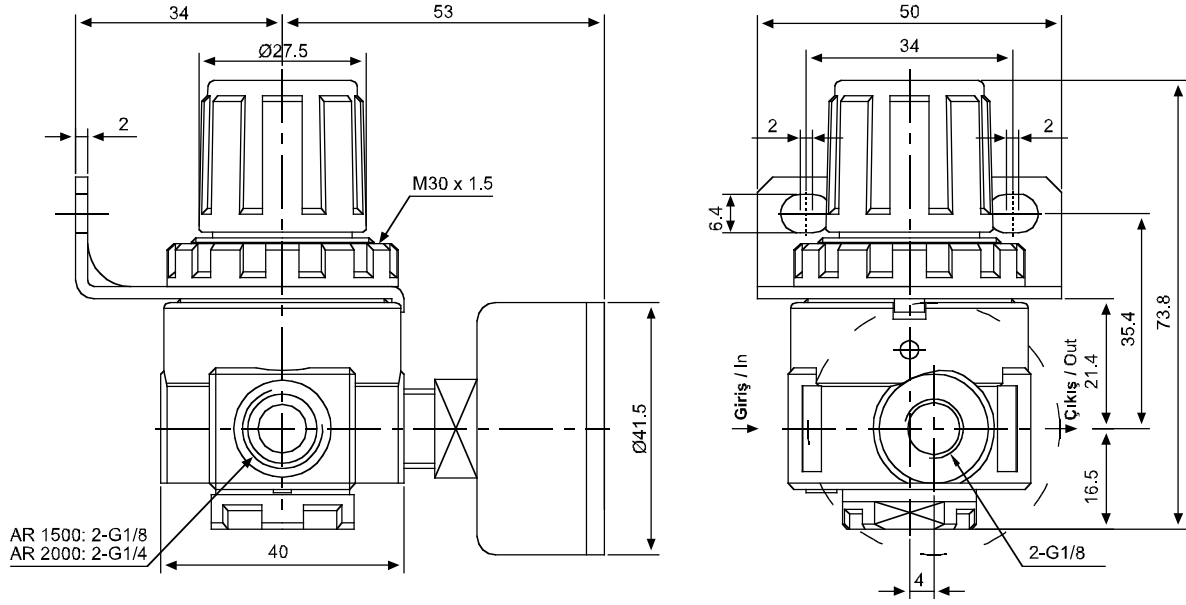
Sembol / Symbol

Basınç ve Akış Diyagramları / Pressure and Flow Chart
Basınç / Pressure

Debi / Flow

Sipariş Kodu / Ordering Code

AR	1500	L
Model / Model	Bağlantı Ölçüsü / Port Size	Basınç Tipi / Pressure Type
AR: Mini Seri / Mini Serie	1500: 1/8" 2000: 1/4"	Boş / Blank: Standart / Standard - 8.5 bar
BR: Orta Seri / Medium Serie	2000: 1/4" 3000: 3/8" 4000: 1/2"	L: Düşük Basınç / Low Pressure - 4.0 bar

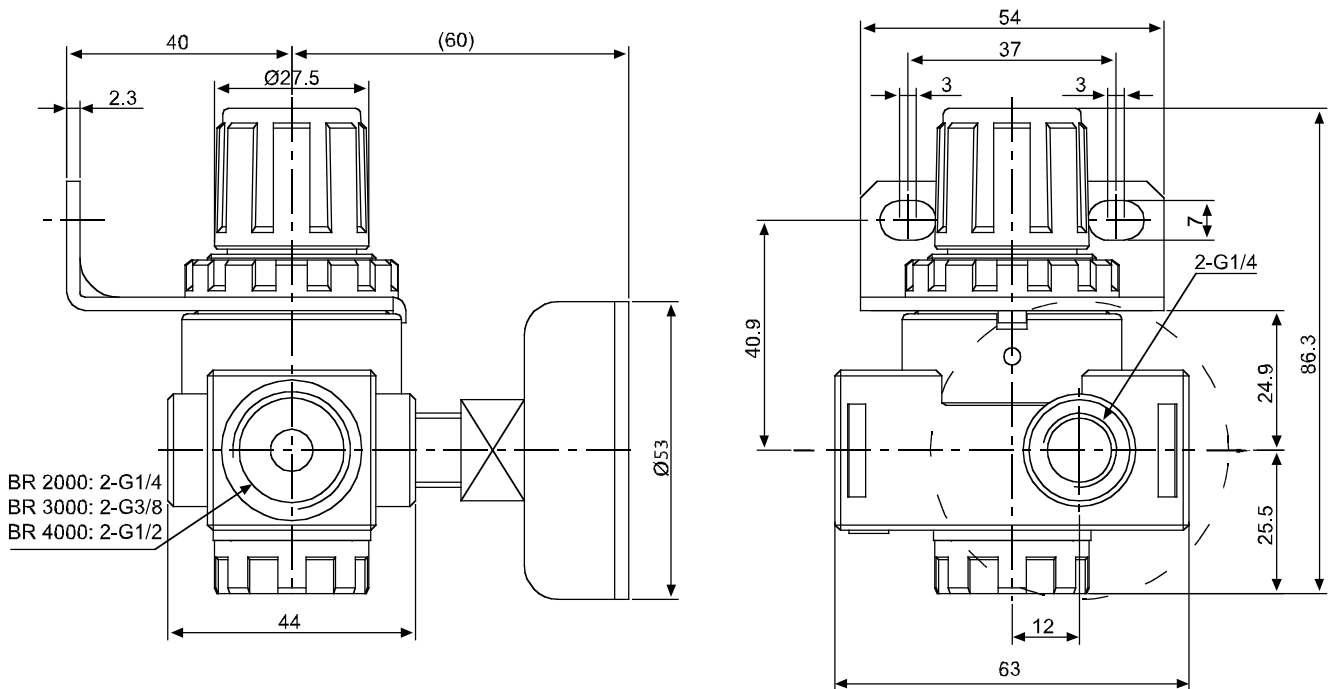
AR - BR Serisi Regülatör / AR - BR Series Regulator

Teknik Çizimler / Technical Drawing

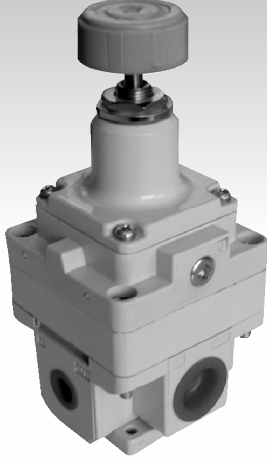
AR



BR



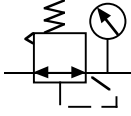
IR Serisi Hassas Regülatör / IR Series Precision Regulator



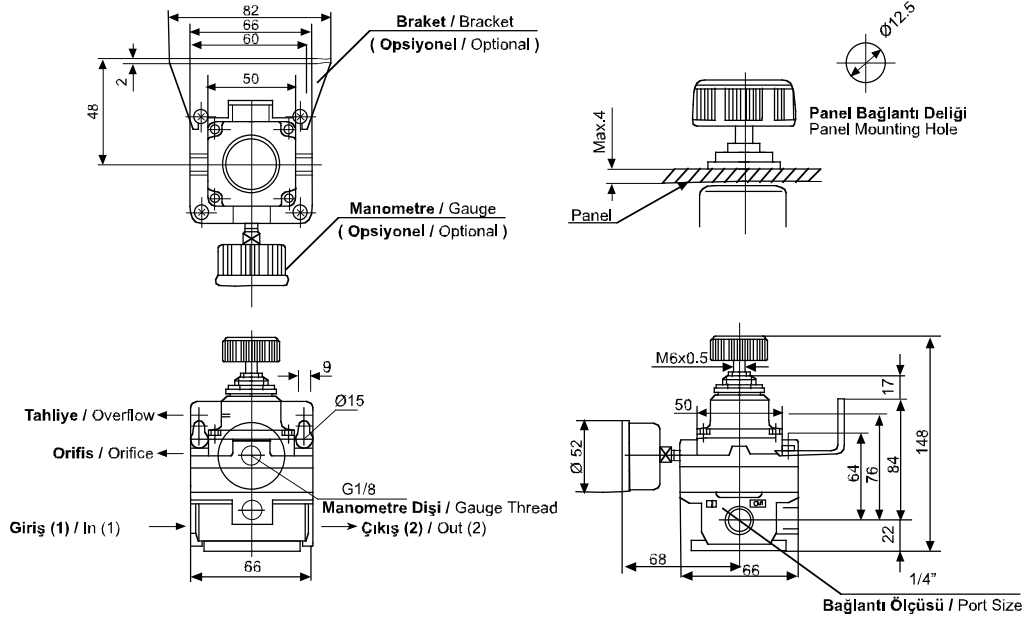
Özellikler / Specification

Model / Model	IR3000-02	IR3010-02	IR3020-02
Akışkan / Fluid	Hava / Air		
Bağlantı Ölçüsü / Port Size	1/4"		
Hassasiyet / Precision	Tüm değerler içinde %0.2 / Within %0.2 of full span		
Basınç Aralığı Pressure Range	0.05 - 2 bar	0.05 - 4 bar	0.05 - 8 bar
Max. Çalışma Basıncı Max. Pressure	10.0bar / 1.0MPa / 142Psi		
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi		
Sıcaklık / Temperature	5~60°C		
Debi / Flow	1100 L/dak - L/min		
Hava Tüketimi Air Consumption	4 L/dak' dan daha az (1.0MPa) / Less than 4 L/min (1.0MPa)		

Sembol / Symbol



Teknik Çizimler / Technical Drawings



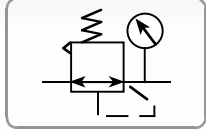
Sipariş Kodu / Ordering Code

IR30	10	□	02	B	R
Model / Model	Basınç / Pressure	Diş Tipi / Thread	Bağlantı / Port	Aksesuarlar Accessories	Manometre / Gauge
IR30: Hassas Regülatör Precision Regulator	00: 0.05 ~ 2.0 bar	Boş / Blank: G	02: 1/4"	Boş / Blank: Yok / None	Boş / Blank: Normal
	10: 0.05 ~ 4.0 bar			B: Braketli / With Bracket	
	20: 0.05 ~ 8.0 bar	N: NPT		G: Manometreli / With Gauge	R: Ters Yön / Reverse Side

QTY Yüksek Basınç Regülatör / High - Pressure Regulator



Sembol / Symbol



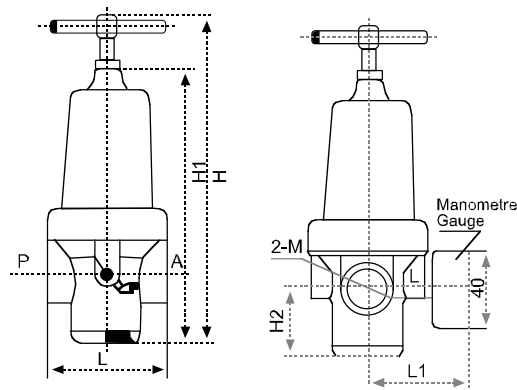
Özellikler / Specification

Model / Model	QTY				
Bağlantı Ölçüsü / Port Size	1/4"	3/8"	1/2"	3/4"	1"
Basınç Aralığı Pressure Range	0.05 ~ 3.0 MPa / 0.5 ~ 30 bar				
Max. Çalışma Basıncı Max. Pressure	4.0 MPa / 40 bar				
Sıcaklık / Temperature	-25°C ~ +80°C				

Sipariş Kodu / Ordering Code

QTY	H	15
Regülatör / Regulator	Yüksek Basınç / High Pressure	Bağlantı Ölçüsü / Port Size

Teknik Çizimler / Technical Drawing

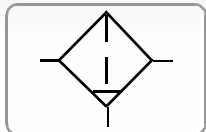


Bağlantı Ölçüsü Port Size	L	L1	H	H1	H2	M	M1
8	55	60	140	100	22	G1/4	G1/4
10	55	60	140	100	22	G3/8	G1/4
15	55	60	140	100	22	G1/2	G1/4
20	75	72	190	159	50	G3/4	G1/4
25	75	72	190	159	50	G1	G1/4

QSL Yüksek Basınç Filtresi / High - Press Filter



Sembol / Symbol



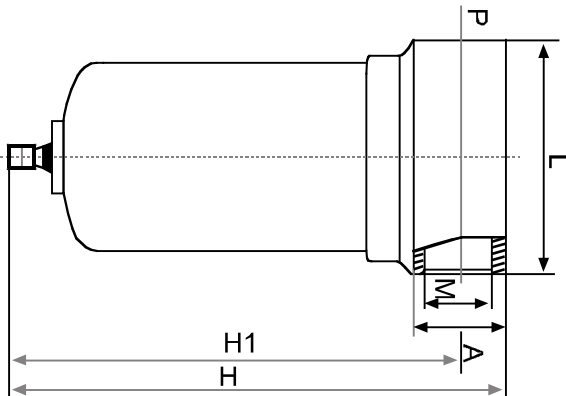
Özellikler / Specification

Model / Model	QSL
Ayırma Oranı / Separation Rate	≥ 80%
Filtre Hassasiyeti Filter Precision	25 ~ 50 µm
Max. Çalışma Basıncı Max. Pressure	4.0 MPa / 40 bar
Sıcaklık / Temperature	-25°C ~ +80°C

Sipariş Kodu / Ordering Code

QSL	H	15
Filtre / Filter	Yüksek Basınç / High Pressure	Bağlantı Ölçüsü / Port Size

Teknik Çizim / Technical Drawing

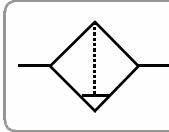


Bağlantı Ölçüsü Port Size	L	H	H1	M
10	60	160	145	G3/8
15	60	160	145	G1/2
20	90	215	190	G3/4
25	90	215	190	G1

GF Serisi Filtre / GF Series Filter



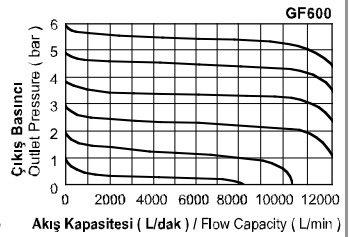
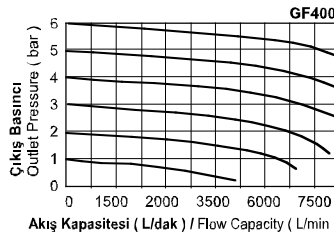
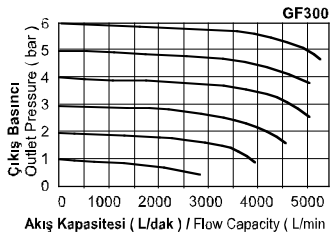
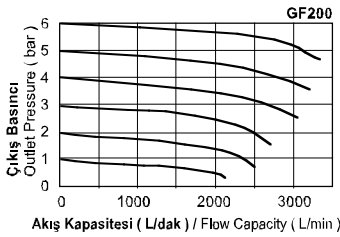
Sembol / Symbol



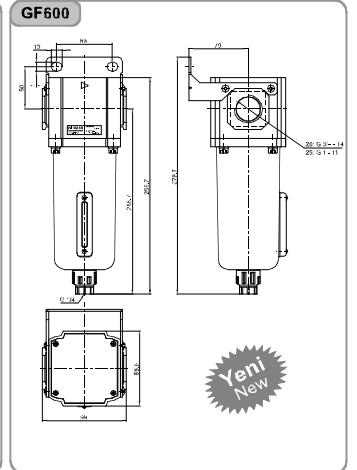
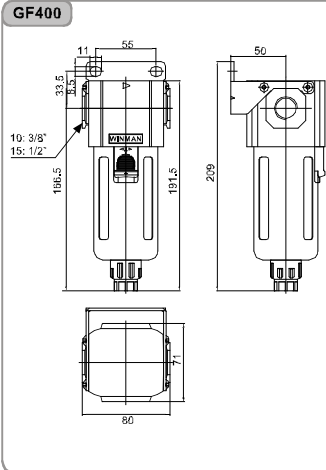
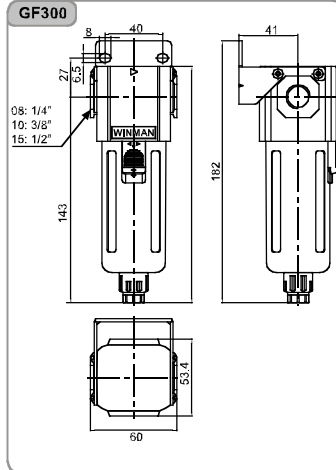
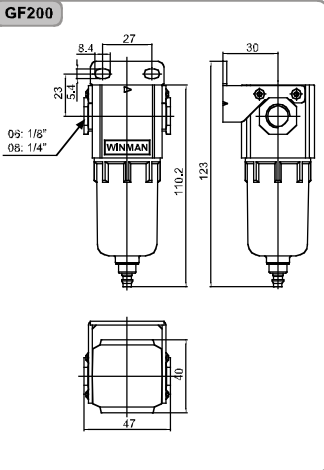
Özellikler / Specification

Model / Model	GF200 -06	GF200 -08	GF300 -08	GF300 -10	GF300 -15	GF400 -10	GF400 -15	GF600 -20	GF600 -25
Akışkan / Fluid	Hava / Air								
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"	3/4"	1"
Filtreleme Seviyesi Filtering Grade	40µ veya / or 5µ								
Basınç Aralığı Pressure Range	1.5~9.0bar / 0.15~0.9MPa / 21~128Psi								
Max. Çalışma Basıncı Max. Pressure	10.0bar / 1.0MPa / 142Psi								
Test Basıncı Proof Pressure	15.0bar / 1.5MPa / 213Psi								
Sıcaklık / Temperature	5~60°C								
Filtre Kavanoz Kapasitesi Drain Bowl Capacity	10cc		40cc			80cc		230cc	
Ağırlık / Weight	133g		360g			680g		1050g	

Akış Diyagramı / Flow Chart



Teknik Çizimler / Technical Drawing



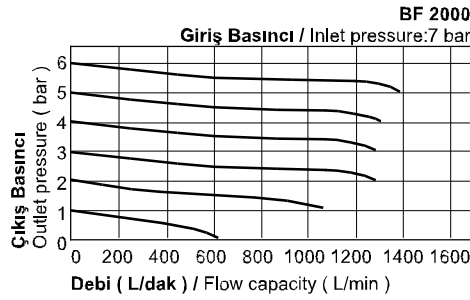
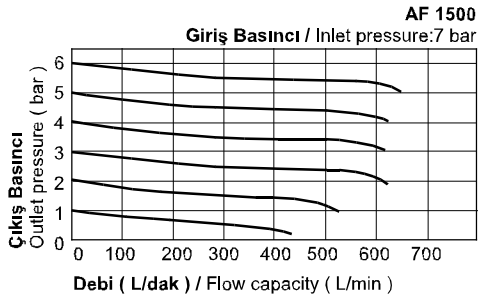
AF - BF Serisi Filtre / AF - BF Series Filter



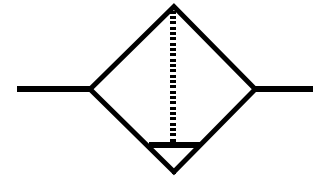
Özellikler / Specification

Model / Model	AFR1500	AFR2000	BFR2000	BFR3000	BFR4000
Akışkan / Fluid	Hava / Air				
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"
Filtreleme Seviyesi / Filtering Grade	40µ				
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi				
Sıcaklık / Temperature	5~60°C				
Tahliye Kavanoz Kapasitesi / Drain bowl capacity	15cc		60cc		
Ağırlık / Weight	140g		330g		

Akış Diyagramı / Flow Chart



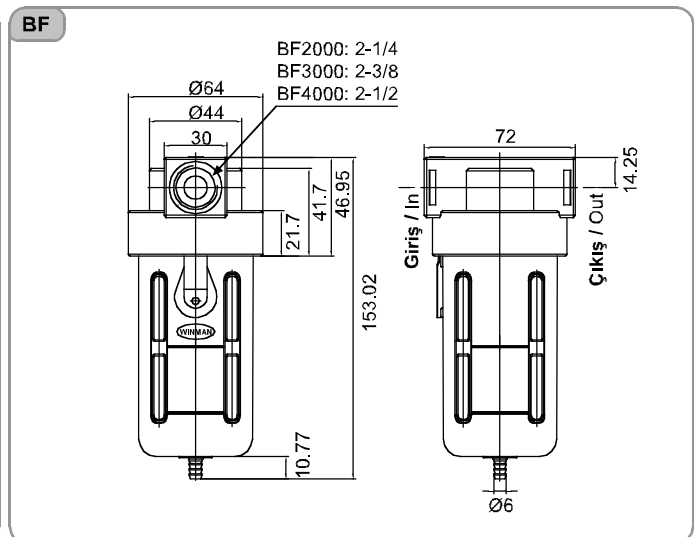
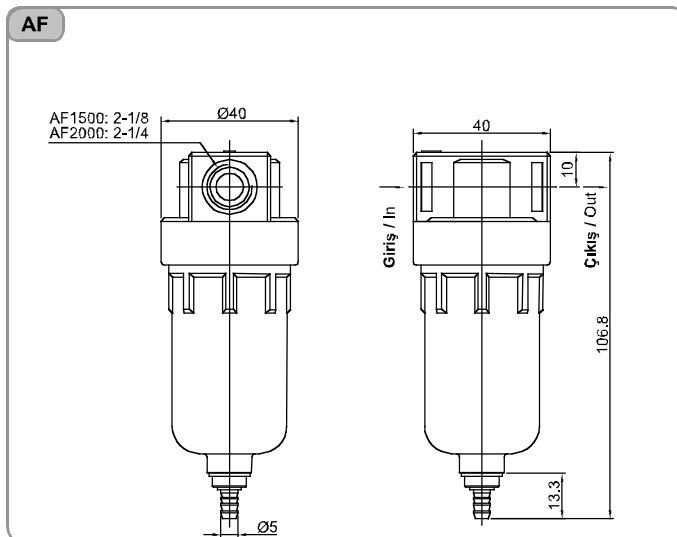
Sembol / Symbol



Sipariş Kodu / Ordering Code

AF	1500	M
Model / Model	Bağlantı Ölçüsü / Port Size	Tahliye Tipi / Drain Type
AF: Mini Seri / Mini Serie	1500: 1/8" 2000: 1/4"	Boş / Blank: Yarı Otomatik Semi auto drain A: Otomatik Auto Drain M: Elle Tahliye Manuel Drain
BF: Orta Seri / Medium Serie	2000: 1/4" 3000: 3/8" 4000: 1/2"	

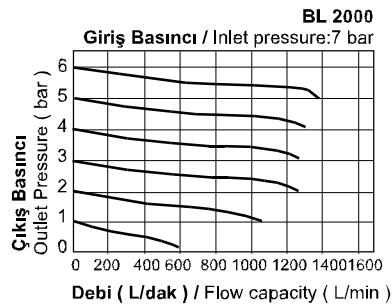
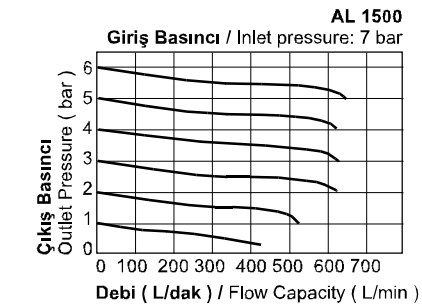
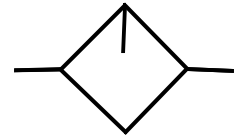
Teknik Çizimler / Technical Drawing



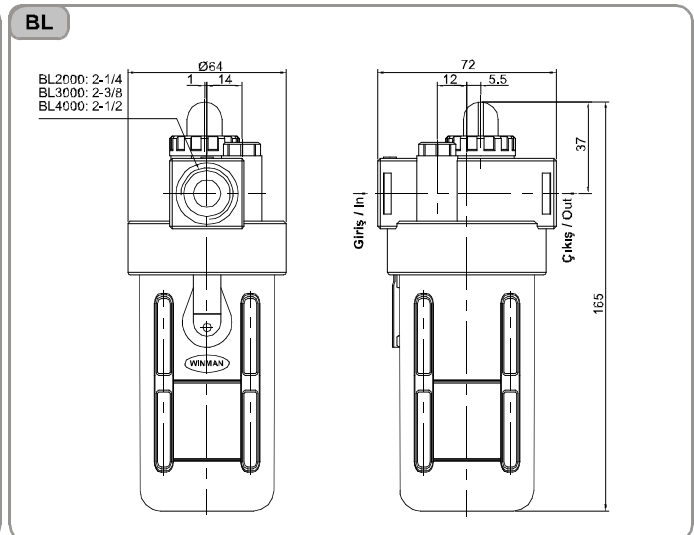
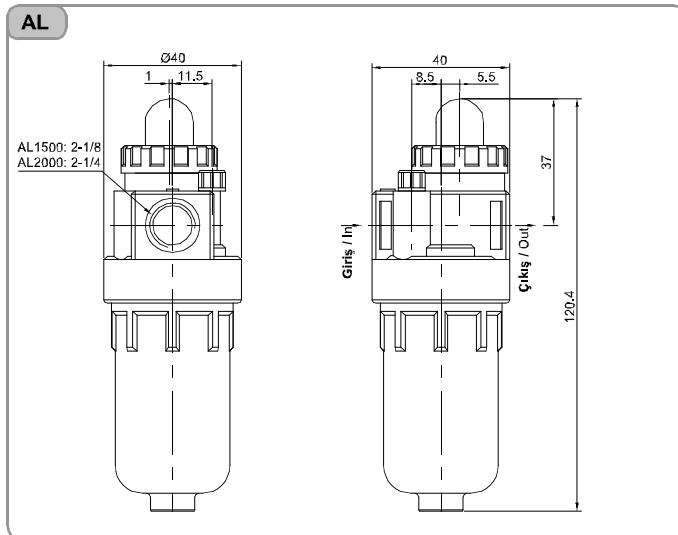
AL BL Serisi / AL BL Series

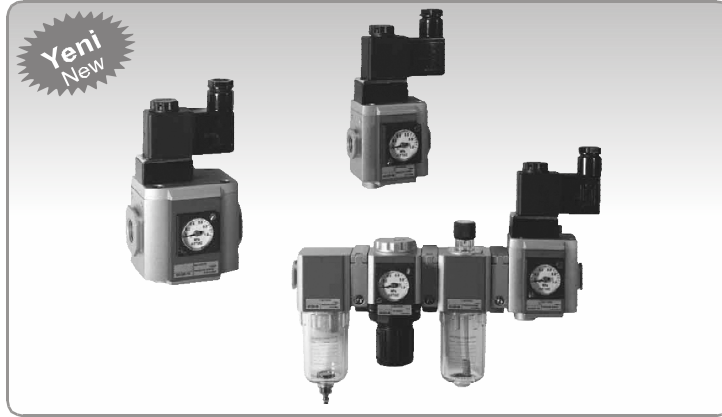
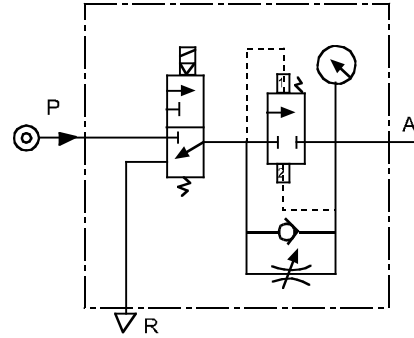
Özellikler / Specification

Model / Model	AL1500	AL2000	BL2000	BL3000	BL4000
Akışkan / Fluid	Hava / Air				
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"
Önerilen Yağ Recommended Lubricant	ISO VG 32				
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi				
Sıcaklık / Temperature	5~60°C				
Yağ Kavanoz Kapasitesi Oil Bowl Capacity	25cc		90cc		
Ağırlık / Weight	170g		250g		

Akış Diyagramı / Flow Chart

Sembol / Symbol

Sipariş Kodu / Ordering Code

AL	1500
Model / Model	Bağlantı Ölçüsü / Port Size
AL: Mini Seri / Mini Serie	1500: 1/8" 2000: 1/4"
BL: Orta Seri / Medium Serie	2000: 1/4" 3000: 3/8" 4000: 1/2"

Teknik Çizimler / Technical Drawings


GV Serisi Yumuşak Kalkış Valfi/ GV Series Soft Start-Up Valve

Sembol / Symbol

Çalışması / Features

Yumuşak kalkış valfi, basınçlı havayı sisteme güvenli bir şekilde göndermeyi sağlar. Basınçlı hava P hattından yumuşak kalkış valfine girilir. 3/2 valfe elektrik sinyali verildiğinde, havanın bir kısmı iğne valften geçerek A hattına verilir. Çıkış basıncı, giriş basıncının yarısı kadar olduktan sonra, yumuşak kalkış valfi tamamen açılır, ve maksimum kapasitede havayı geçirir. Elektrik sinyali kesildiğinde; P hattı kapanır, sistemdeki basınçlı hava R hattından hızlı bir şekilde dışarıya tahliye olur. Bu sayede sistemdeki basınç sıfırlanmış olur, sistemin tamamına etkili olur.

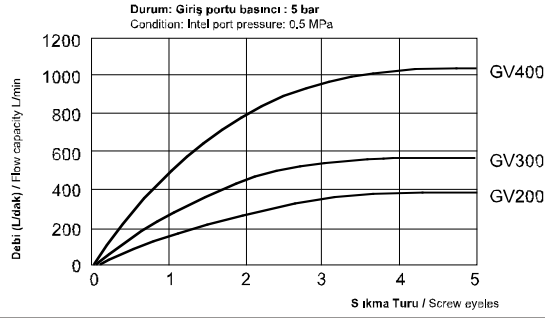
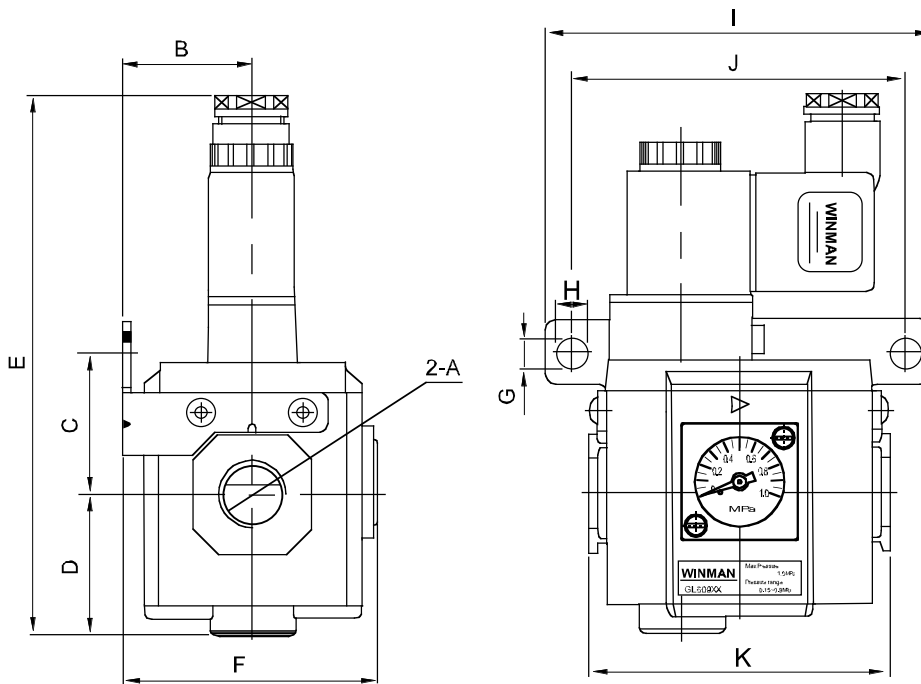
Soft start-up valve is used to bring pressure safely in pneumatic system and make the security effect. The aerated conduit connects with P in Soft start-up valve. To be electrified, the 3/2 way valve is opened. Then few of air is transited to A via needle valve, which produces the pressure in system. When the output pressure is equal to the half of input pressure, the Soft start-up valve opens completely, and the flow capacity is in maximum. When the electricity is broken, P will be closed, and air will return to R check valve and put out quickly, Then the systematic pressure turn to zero, Which plays a prevent effect to the whole system.

Özellikler / Specification

Model / Model	GV200-06	GV200-08	GV300-08	GV300-10	GV300-15	GV400-10	GV400-15
Akışkan / Fluid	Hava / Air						
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	3/8"	1/2"	3/8"	1/2"	
Basınç Aralığı / Pressure Range	2.5~9bar / 0.25~0.9MPa / 35~130psi						
Test Basıncı / Proof Pressure	15bar 1.5MPa / 215psi						
Sıcaklık / Temperature	5~60°C						
Çalışma Tipi / Acting Type	Elektrik Kontrollü / Solenoid Control						
Egzost Port Ölçüsü / Exhaust Port Size	1/4"		3/8"			1/2"	
Güç Bağlantısı / Power Connection	Terminal / Grommet						
Standart Gerilim / Standard Voltage	AC380V 50Hz, AC220V 50Hz, AC110V 50Hz, AC24V 50Hz, DC24V, DC12V						
Voltaj Aralığı / Voltage Range	-15%Vs~10%Vs						
Yalıtım / Insulation	Class B						
Güç Tüketimi / Power Consumption	AC380V : 2.5VA, AC220V : 2.0VA, AC110V : 2.5VA, AC24V : 3.5VA, DC24V : 3.0W, DC12V : 2.5W						
Opsiyon: Manometre / Option: Pressure Gauge	F: Kare Tip / Square Type C: Yuvarlak Tip / Round Type						
Uygun Olduğu FRL / Suitable F.R.L. Type	GC200-06	GC200-08	GC300-08	GC300-10	GC300-15	GC400-10	GC400-15

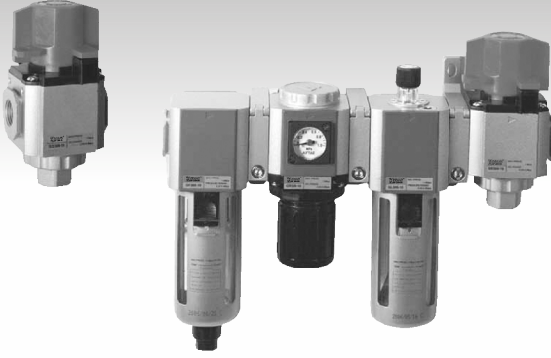
Sipariş Kodu / Ordering Code

GV300	10	-	-	F	1	A	G
Model Model	Bağlantı Ölçüsü / Port Size	Aksesuarlar Accessories	Manometre Pressure Gauge	Manometre Tip Pressure Gauge Shape	Skala Scale	Voltaj Voltage	Diş Tipi Thread
GV200: 200 Serisi Yumuşak Kalkış Valfi GV200: 200 Series Soft start-up valve	06: 1/8" 08: 1/4"	Boş / Blank : Braket / Bracket * J : Braketsiz / No Bracket * T : T Tipi Braket T Type Bracket ** L : L Tipi Braket L Type Bracket ** U : U Tipi Braket U Type Bracket **	Boş / Blank : Manometreli / With Pressure Gauge N: Manometresiz No Pressure Gauge	F: Kare / Square C: Yuvarlak / Round	1 : MPa 2 : psi 3 : bar	A: AC220V (50/60Hz) B: DC24V C: AC110V (50/60Hz) D: AC380V (50/60Hz) E: AC24V (50/60Hz) F: DC12V	Boş / Blank: PT G: BSPP T: NPT
GV300: 300 Serisi Yumuşak Kalkış Valfi GV300: 300 Series Soft start-up valve	08: 1/4" 10: 3/8" 15: 1/2"						
GV400: 400 Serisi Yumuşak Kalkış Valfi GV400: 400 Series Soft start-up valve	10: 3/8" 15: 1/2"	*: Uygulamanıza göre For individual application **: G tipi ürünlere göre for G type products					

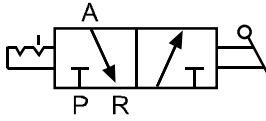
GV Serisi Yumuşak Kalkış Valfi/ GV Series Soft Start-Up Valve
Akış Diyagramı / Flow Chart

Teknik Çizim / Technical Drawing


Ölçü / Model Item / Model	GV200		GV300			GV400	
	06	08	08	10	15	10	15
A	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"
B	24.5		31.5			40.5	
C	30.3		34.3			39	
D	30.4		34			40.5	
E	124.5		131			142.4	
F	56.7		62.2			79.7	
G	5.4		6.5			8.5	
H	8		8			11	
I	80		95			120	
J	67		82			102	
K	59		74			90	

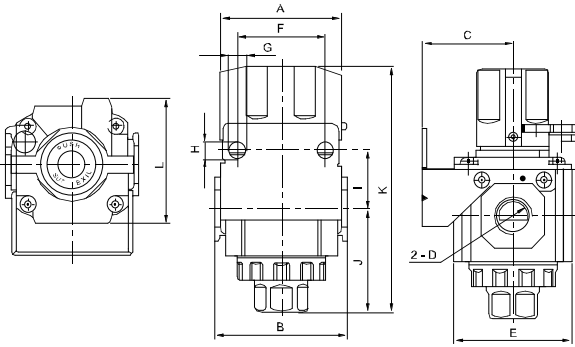
GZ Serisi Basınç Emniyet Valfi / GZ Series Pressure Relief Valve

 Yeni
New


Sembol / Symbol



Teknik Çizim / Technical Drawings



Özellikler / Specification

Model / Model	GZ200		GZ300			GZ400	
	06	08	08	10	15	10	15
Akışkan / Fluid	Hava / Air						
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"
Çalışma Tipi / Acting Type	Elle / Manual						
Valf Tipi / Valve Type	3/2 / 3 port 2 way						
Basınç Aralığı / Pressure Range	0~9bar / 0~0.9MPa(0~130psi)						
Test Basıncı / Proof Pressure	0~15bar / 1.5MPa(215psi)						
Sıcaklık / Temperature	5~60°C						
Çalışma Açısı / Operation Angle	90°						

Ölçü / Model Item / Model	GZ200		GZ300			GZ400	
	06	08	08	10	15	10	15
A	42		55			71	
B	47		60			80	
C	30		41			50	
D	1/8"	1/4"	1/4"	3/8"	1/2"	3/8"	1/2"
E	40		53.4			71	
F	27		40			55	
G	8.4		8			11	
H	5.4		6.5			8.5	
I	23		27			33.5	
J	36.5		46			58.5	
K	89		112.5			133.5	
L	42.6		56.4			71	

Çalışması / Features

1. Modüler dizaynı sayesinde şartlandırıcı guruplarına monte edilebilir
2. Manuel olarak üç yollu valf gibi kullanılır
3. Bağlantı portları ürün üzerinde işaretlidir
4. GZ serisi OSHA standartlarına göre imal edilmiştir:

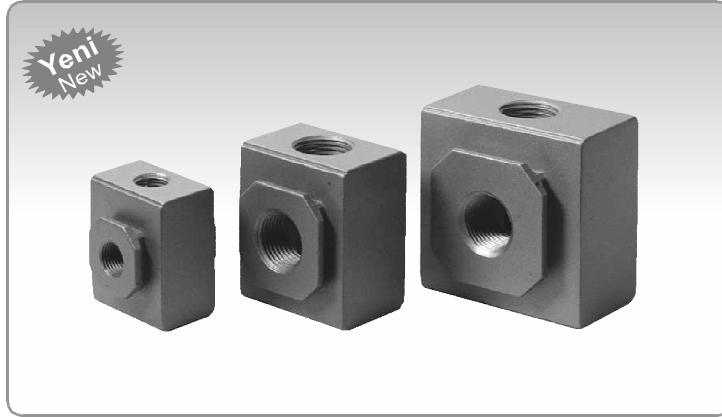
Makine bakımdayken, kalan basıncı tahliye ediniz. Aksi takdirde, üçüncü bir şahsın sistemi kasıtsız olarak çalıştırması sonucu, sisteme tekrar basınç uygulanır ve silindirlere ya da makine aniden çalışır. Bu durum kazalara yol açabilir. Kazaların oluşmasını engellemek için sistemi kilitleyiniz.

1. It is module style designed, It can be assembled with service unit if it equipped tie roc.
2. It can be used as manual T/Three way valve.
3. Operation instruction mark (EXH./SUP) can be confirmed by eyes.
4. GZ series accord with OSHA standard: As maintaining the machine, please expel the surplus pressure by surplus pressure valve, In this course, the unmeant operation by the third person will cause the pressure in back conduit and the sudden startup on the machine such as cylinder. This will cause the hurt. So please lock it in case any hurt occurs.

Sipariş Kodu / Ordering Code

GZ300	10	-	G
Model Model	Bağlantı Ölçüsü / Port Size	Aksesuarlar Accessories	Diş Tipi Thread
GZ200: 200 Serisi Basınç Emniyet Valfi GZ200: 200 Series Pressure relief valve	06: 1/8" 08: 1/4"	Boş / Blank : Braket / Bracket * J : Braketsiz / No Bracket * T : T Tipi Braket / T Type Bracket ** L : L Tipi Braket / L Type Bracket ** U : U Tipi Braket / U Type Bracket **	Boş / Blank: PT G: BSPP T: NPT
GZ300: 300 Serisi Basınç Emniyet Valfi GZ300: 300 Series Pressure relief valve	08: 1/4" 10: 3/8" 15: 1/2"	*: Uygulamana göre For individual application **: G tipi ürünlere göre For G type products	
GZ400: 400 Serisi Basınç Emniyet Valfi GZ400: 400 Series Pressure relief valve	10: 3/8" 15: 1/2"		

GA Serisi Hava Dağıtım Bloğu / GA Series Air Distribution Block



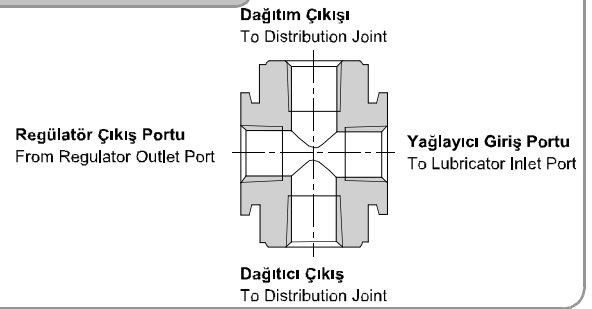
Teknik Özellikler / Technical Specification

- Filtre-Regülatör ve yağlayıcı arasında bağlanır. Hava bu bloktan sisteme ve yağlayıcıya ayrı olarak gönderilebilir.**
To be installed between filter regulator and lubricator. Air can be distributed to lubricator and actuators separately from the block.
- Regülatör ve yağlayıcı tiplerine göre 3 farklı braket tipi mevcuttur.**
Three types of brackets are available to content with different regulators and lubricator.

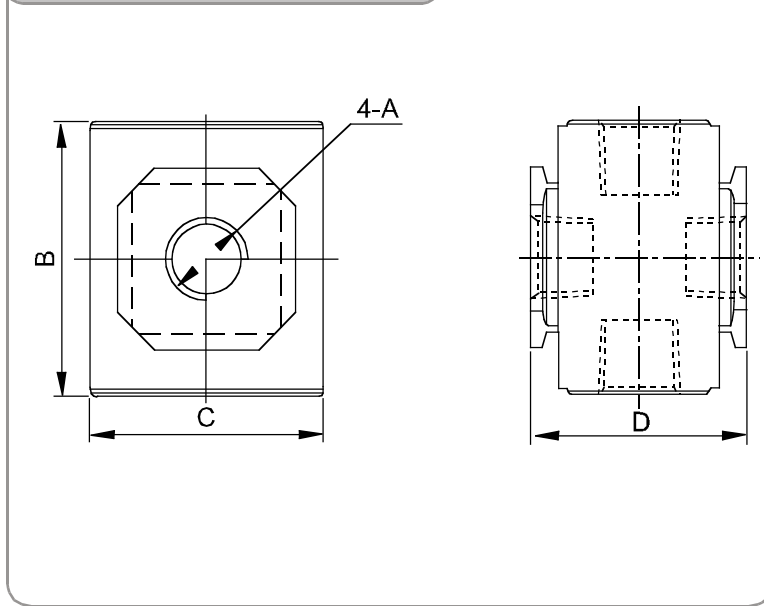
Özellikler / Specification

Model / Model	GA214		GA314		GA414		GA614	
	06	08	08	10	10	15	20	25
Akışkan / Fluid	Hava / Air							
Bağlantı Ölçüsü / Port Size	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	1"
Yol Numarası / Way Number	4							
Basınç Aralığı / Pressure Range	0~9 bar 0~0.9MPa (0~130psi)							
Test Basıncı / Proof Pressure	15 bar 1.5MPa (215psi)							
Sıcaklık / Temperature	5~60°C							

İç Yapı / Inner Structure



Teknik Çizim / Technical Drawing



Model / Item		A	B	C	D
GA214	06	1/8"	36	30	28.3
	08	1/4"	36	30	28.3
GA314	08	1/4"	44	38	35
	10	3/8"	44	38	35
GA414	10	3/8"	52	52	42
	15	1/2"	52	52	42
GA614	20	3/4"	76	68	60
	25	1"	76	68	60

Sipariş Kodu / Ordering Code

GA214	08	T	G
Model Model	Bağlantı Ölçüsü Port Size	Aksesuarlar Accessories	Diş Tipi Thread
GA214: 200 serisi hava dağıtım bloğu GA214: 200 Series Air distribution block	06: 1/8" 08: 1/4"	T: T tipi braket T: With T Shape Bracket	Boş / Blank: PT G: BSPP T: NPT
GA314: 300 serisi hava dağıtım bloğu GA314: 300 Series Air distribution block	08: 1/4" 10: 3/8"	L: L tipi braket L: With L Shape Bracket	
GA414: 400 serisi hava dağıtım bloğu GA414: 400 Series Air distribution block	10: 3/8" 15: 1/2"	U: U tipi braket U: With U Shape Bracket	
GA614: 600 serisi hava dağıtım bloğu GA614: 600 Series Air distribution block	20: 3/4" 25: 1"		

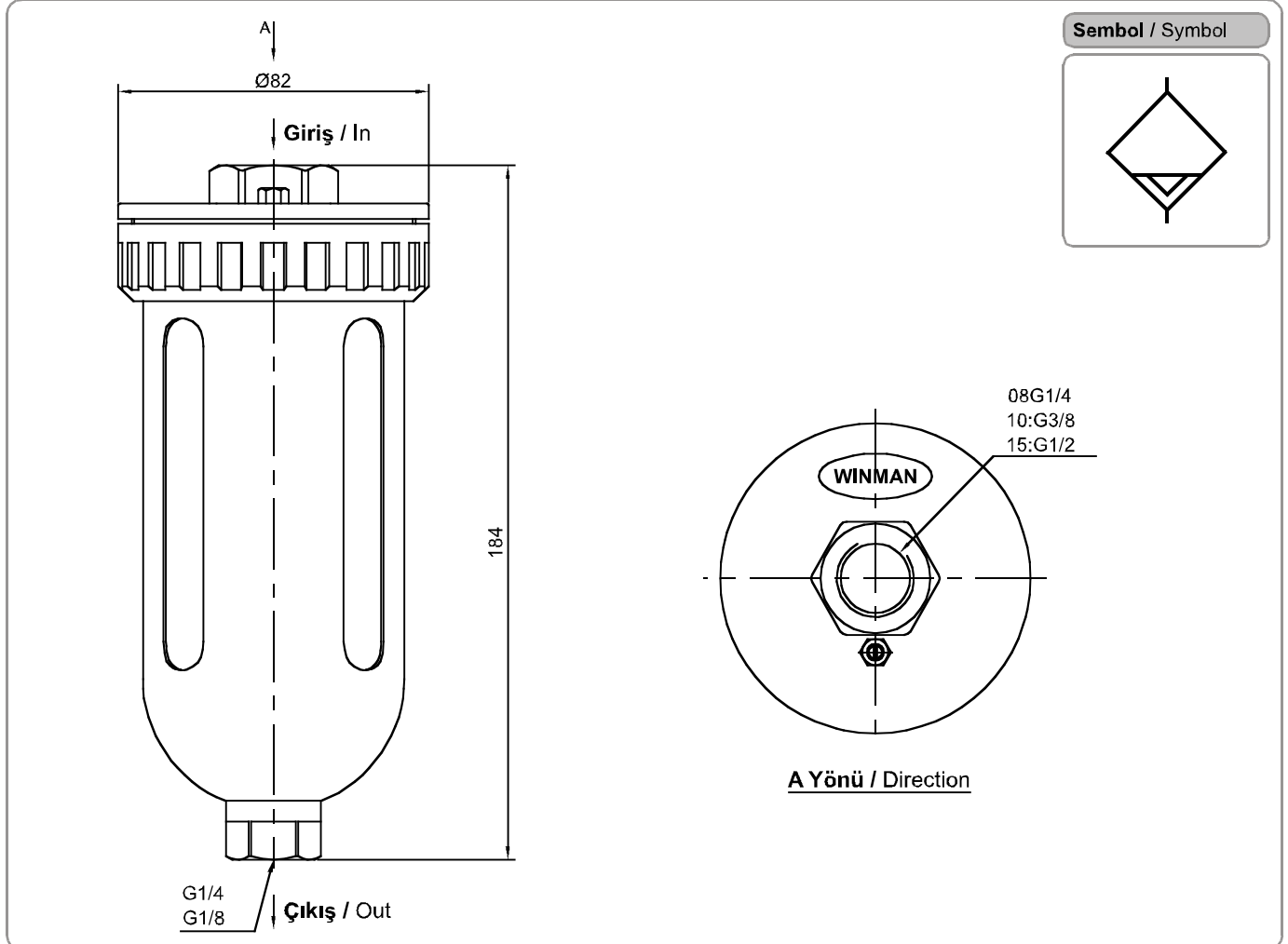
AAD Serisi / AAD Series

Özellikler / Specification

Model / Model	AAD400-10	AAD400-15
Akışkan / Fluid	Hava / Air	
Giriş Ölçüsü / Inlet Port Size	3/8"	1/2"
Çıkış Ölçüsü / Outlet Port Size	1/4"	3/8"
Test Basıncı / Proof Pressure	15.0bar / 1.5MPa / 213Psi	
Max. Çalışma Basıncı / Max. Pressure	10.0bar / 1.0MPa / 142Psi	
Sıcaklık / Temperature	5~60°C	
Ağırlık / Weight	450g	680g

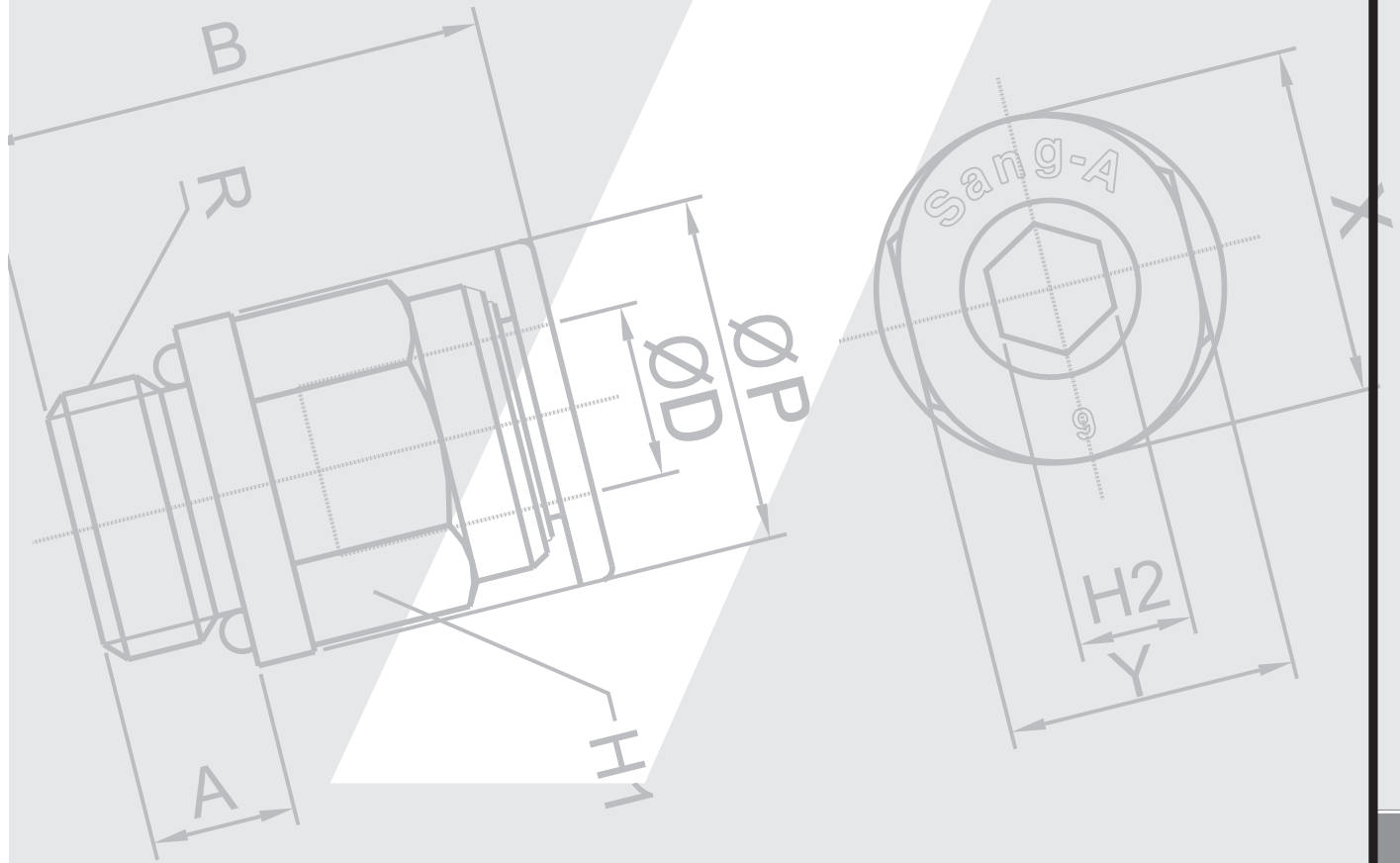
Sipariş Kodu / Ordering Code

AAD400	10
Model / Model	Bağlantı Ölçüsü / Port Size
AAD400: Otomatik Tahliye / Drip Leg Drain	10: 3/8" 15: 1/2"

Teknik Çizim / Technical Drawing


BAĞLANTI ELEMANLARI

FITTINGS



BAĞLANTI ELEMANLARI

FITTINGS

• Otomatik Bağlantı Elemanları / One-Touch Fittings	7-01
• PC - Erkek Rekor / Male Straight	7-02
• PL - Döner Dirsek / Male Elbow	7-02
• PL - 45° Döner Dirsek / Male 45° Elbow	7-03
• PT - Orta Bacak Te / Male Branch Tee	7-03
• PST - Yan Bacak Te / Male Run Tee	7-04
• POC - Yuvarlak Rekor Bağlantı / Round Male Straight	7-04
• PCF - Dişi Rekor / Female Straight	7-05
• PH - Erkek Banjo / Male Banjo	7-05
• PHF - Ara Kısa Döner Dirsek / Male Banjo	7-06
• PWT - Orta Bacak Dişli Ye / Male Y	7-06
• PHT (D2) - İkili Kısa Dirsek Tip Dağıtıcı / Double Universal Elbow	7-07
• PHT (D3) - Üçlü Kısa Dirsek Tip Dağıtıcı / Triple Universal Elbow	7-07
• PAT (D2) - Dörtlü Kısa Dirsek Tip Dağıtıcı / Double Branch A	7-08
• PAT (D3) - Altılı Kısa Dirsek Tip Dağıtıcı / Triple Branch A	7-08
• PMF Perde Geçiş Dişi Rekor / Bulkhead Female Straight	7-09
• PJC - Dişi Boru Bağlantı / Plug-in Male	7-09
• PLF - Dişi Döner Dirsek / Female Elbow	7-10
• PTF - Orta Bacak Dişi Te / Female Branch Tee	7-10
• POL - Allenli Kısa Döner Dirsek / Hex. Holed Banjo	7-11
• PLL - Uzun Dirsek / Extended Male Elbow	7-11
• PLLP - Uzun Dirsek / Extended Male Elbow	7-12
• PUC - Nipel Bağlantı / Union Straight	7-12
• PUL - Dirsek / Union Elbow	7-12
• PUT - Te Bağlantı / Union Tee	7-13
• PY - Ye Bağlantı / Union Y	7-13
• PG - Redüksiyon Tipi Nipel / Reducer	7-13
• PUG - Değişik Çaplı Te Bağlantı / Different Dia Of Union Tee	7-13
• PW - Redüksiyon Tip Ye Bağlantı / Reducer Y	7-14
• PZA - Kruva / Union Kross	7-14
• PMM - Perde Geçiş Bağlantı / Bulkhead Union	7-14
• PPM - Perde Geçiş Bağlantı (Plastik) / Bulkhead Union P	7-14
• PLM - Perde Geçiş Dirsek Bağlantı / Bulkhead Union P	7-15
• PCP - Soket Rekor / Straight Ace Coupler Plug	7-15
• PA - İkili Döner Dirsek (Erkek) / Dual Male Banjo	7-15
• PAF - İkili Döner Dirsek (Dişi) / Dual Female Banjo	7-15
• PGJ - Boru Girişli Düşürücü / Plug In Reducer	7-16
• PLJ - Boru Girişli Dirsek / Plug-In Elbow	7-16
• PLJ45 - Boru Girişli 45° Dirsek / Plug-In Extended Elbow	7-16
• PLLJ - Boru Girişli Dirsek (Uzun) / Plug-In Extended Elbow	7-16
• PLL45 - Boru Girişli 45° Dirsek (Uzun)	7-17
• PLGJ - Boru Girişli Düşürücü Dirsek / Plug-In Reducer Elbow	7-17
• PLGJ45 - Boru Girişli Düşürücü 45° Dirsek / Plug-In Reducer Elbow	7-17

BAĞLANTI ELEMANLARI

FITTINGS

• PIJ - Boru Bağlantı / Tube Splicer.....	7-17
• PJH - Uzun Boru Bağlantı / Extended Tube Splicer.....	7-18
• PIG - Düşürücü Boru Bağlantı / Reducer Tube Splicer.....	7-18
• PP - Körtapa / Plug.....	7-18
• PWJ - Boru Girişli Düşürücü Y / Plug-In Reducer Y.....	7-19
• PYJ - Boru Girişli Y / Plug-In Y.....	7-19
• PPF - Dişi Körtapa / Cap.....	7-19
• PXG - Hortum Girişli Dörtlü Düşürücü Y / Reducer Double Y Union.....	7-19
• PXJ - Boru Girişli Dörtlü Düşürücü Y /.....	7-20
• PXT - Dişli Dörtlü Y / Male Double Y.....	7-20
• PKG - Hortum Girişli Üçlü Dağıtıcı / Reducer Triple Branch Union.....	7-20
• PKJ - Boru Girişli Üçlü Dağıtıcı / Reducer Double Y Union.....	7-20
• PKD - Dişli Üçlü Dağıtıcı / Male Reducer Triple Branch.....	7-21
• PGL (D1) - Kısa Döner Dirsek / Single Universal Elbow.....	7-21
• PGL (D2) - İkili Kısa Döner Dirsek / Double Universal Elbow.....	7-21
• PGL (3) - Üçlü Kısa Döner Dirsek / Triple Universal Elbow.....	7-21
• PGT (D1) - Kısa Döner T / Single Universal Tee.....	7-22
• PGT (D2) - İkili Kısa Döner T / Double Universal Tee.....	7-22
• PGT (D3) - Üçlü Kısa Döner T / Triple Universal Tee.....	7-22
• PGB (D1) - Tekli Döner Spul / Spool.....	7-22
• PGB (D2) - İkili Döner Spul / Double.....	7-23
• PGB (D3) - Üçlü Döner Spul / Triple Spool.....	7-23
• PGL - Tekli Dirsek Gövdesi / Elbow Body.....	7-23
• PGT - Tekli T Gövdesi / Tee Body.....	7-23
• CAS - Kartuş / Insert - Tube.....	7-24
• CASI - Emniyet Klipsi / Insert - Tube Clip.....	7-24
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• PL - C Döner Dirsek / Male Elbow.....	7-26
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• POC-C - Mini Yuvarlak Rekor Bağlantı / Round Male Straight.....	7-26
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• PUL-C - Dirsek / Union Elbow.....	7-27
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• PCF-C - Dişi Rekor/ Female Straight.....	7-27
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• PWJ-C - Boru Girişli Düşürücü Y / Plug-In Reducer Y.....	7-28
• PLJ-C - Boru Girişli Dirsek / Plug-In Elbow.....	7-28
• PMM-C - Perde Geçiş Bağlantı / Bulkhead Union.....	7-28
• PCC-C - Yuvarlak Rekor / Round Male Straight.....	7-28
• PPF-C - Mini Körtapa / Cap.....	7-28
• PZA-C - Kruva / Union Cross.....	7-29
• PYJ-C - Boru Girişli Y / Plug-In Y.....	7-29
• PG-C - Redüksiyon Tipi Nipel / Reducer.....	7-29
• PY-C - Y Bağlantı / Union Y.....	7-29

BAĞLANTI ELEMANLARI

FITTINGS

• PP-C - Körtapa / Plug	7-29
• PLM-C - Perde Geçiş Dirseği / Bulkhead Union P.	7-29
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• NHRS - Yüksek Hızlı Döner Nipel / High Speed Male Swivel Nippel	7-34
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• PCVF - Dişli Tip Çekvalf / Threaded Type Check Valve	7-39
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• BUG - Orantılı EI Kontrollü Vana / Reducing Union	7-41
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• HVFF - Hortum - Hortum Vana / Hand Valve (Tube)	7-44
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• AG-M - Hava Tabancası (Orta) / Air Gun (Medium)	7-46
• AG-L - Hava Tabancası (Uzun) / Air Gun (Long)	7-46
• AG-SP - Hava Tabancası (Kısa) / Air Gun (Short)	7-46
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BAĞLANTI ELEMANLARI

FITTINGS

• MPC- Rekor Bağlantı / Male Connector.....	7-49
• MPOC- Yuvarlak Rekor Bağlantı / Round Male Straight.....	7-49
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• MPT - Orta Bacak Te / Swivel Tee.....	7-50
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• MPUT - Te Bağlantı / Union Tee.....	7-51
• MPY - Ye Bağlantı / Union Yee.....	7-51
• MPX - Orta Bacak Dişli Ye / Threaded Yee.....	7-51
• MPM-Perde Geçiş Nipeli / Bulkhead Connector.....	7-52
• MPLJ-Boru Girişli Dirsek / Male Union Elbow.....	7-52
• MPGJ- Boru Girişli Redüksiyon / Male Reducer.....	7-52
• MPP - Dişi Kör Tapa / Female Blank Cap.....	7-52
• MPZA - Kruva / Union Plus.....	7-52
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• PSM - Nipel / Straight Male.....	7-53
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• PEL - Erkek Dirsek / Equal Male Elbow.....	7-53
• PFL - Dişi Dirsek / Equal Female Elbow.....	7-53
• PEFL - Kuyruklu Dirsek / Equal Female Male Elbow.....	7-53
• PMT - Orta Bacak Tee / Male Branch Tee.....	7-53
• PFT - Te Bağlantı / Equal Female Tee.....	7-53
• PFC- Kruva / Equal Female Cross.....	7-53
• PO - Körtapa / Plug.....	7-53
• POO - Set Skur / Set Screw.....	7-53
• PYT - Orta Bacak Ye / Male Yee.....	7-53
• PZ- İç & Dış Dişli / In & Out Thread.....	7-53
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• RPCF-Dişi Rekor Bağlantı / Female Connector.....	7-54
• RPL - Dirsek Bağlantı / Elbow.....	7-54
• RPST - Yan Bacak Te / Swivel Tee.....	7-54
• RPH - Kısa Döner Dirsek / Short Swivel Elbow.....	7-55
• RPM - Perde Geçiş Nipeli / Bulkhead Union.....	7-55
• RPUC - Nipel Bağlantı / Union Straight.....	7-55
• RPUT- Te Bağlantı / Union Tee.....	7-55
• BSL - Sinter Susturucu / Sinter Silencer.....	7-55
• BSLM - Tapa Susturucu / Plug Silencer.....	7-55
• ISD - Hız Ayarlı Susturucu / Speed Controller Silencer.....	7-55
• ST - Plastik Susturucu / Plastic Silencer.....	7-55

Otomatik Bağlantı Elemanları / One-Touch Fittings

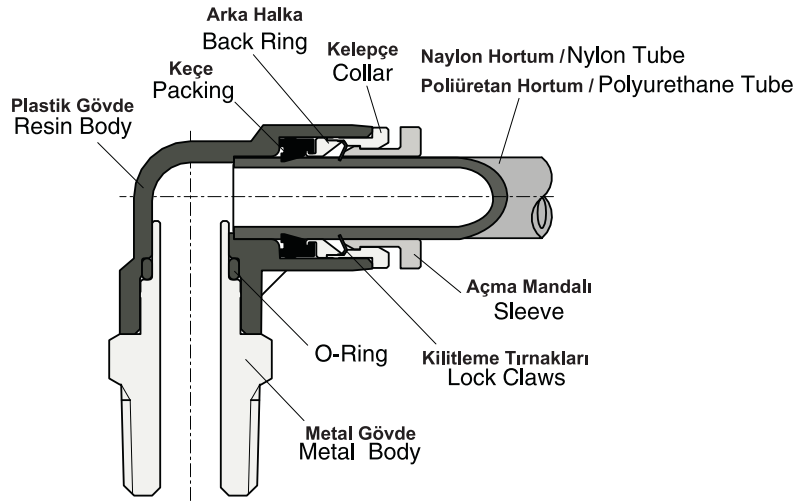
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Naylon / Polyurathane and Nylon

Özellikler / Specification

- Tek dokunuşla kolayca bağlantı / Easy to connect/disconnect tube by one touch.
- PC tipi, altı yönden sıkma işlemi sağladığından kısıtlı alanlarda kullanışlıdır. / PC type is useful for piping in confined spaces, given its six-angle wrench processing inside.
- Eliptik buton, kısıtlı alanlarda hortumun kolayca takılıp sökülmesi mümkün kılar. / Elliptical sleeve makes it possible to apply and remove the tube easily in confined spaces.
- Fittingler contalıdır, dişler oring ve teflonludur. / Fittings are equipped with a Gasket, O-ring and Teflon-Treatment

Yapısal Diyagram / Structural Diagram



Sipariş Kodu / Ordering Code

PC	06	G01
Model / Model	Hortum Çapı (ØD) / Tube Diameter	Diş Ölçüsü (T) / Thread Size
Otomatik Bağlantı Elemanları One Touch Fittings	04: Ø4	M5: M5 x 0.8
	06: Ø6	M6: M6 x 1.0
	08: Ø8	G01: 1/8"
	10: Ø10	G02: 1/4"
	12: Ø12	G03: 3/8"
	16: Ø16	G04: 1/2"

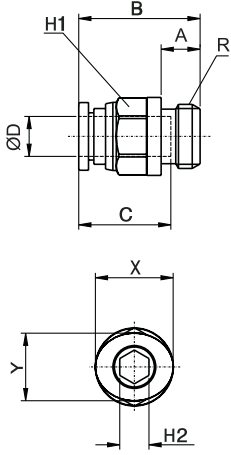
PC- Erkek Rekor / Male Straight



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	C	H1	H2	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PC 04-M5	4	M5	5,5	22,2	16	10	2	10	12	2	6,9	100
PC 04-M6		M6	6,5	23,2	16	10	3	10	12	3	6,9	100
PC 04-01		G1/8	8	22,2	16	10	3	10	12	3	7,6	100
PC 04-02		G1/4	11	22,2	16	14	3	10	12	3	15	100
PC 04-03	6	G3/8	12	22,2	16	17	3	10	12	3	25	50
PC 06-M5		M5	5,5	24,7	17	12	2	12	14	2	10,5	100
PC 06-M6		M6	6,5	25,7	17	12	3	12	14	3	10,8	100
PC 06-01		G1/8	8	23,2	17	12	4	12	14	4	9,2	100
PC 06-02	8	G1/4	11	25,2	17	14	4	12	14	4	14,8	100
PC 06-03		G3/8	12	24,7	17	17	4	12	14	4	24,4	50
PC 06-04		G1/2	15	27,3	17	21	4	12	14	4	47,9	50
PC 08-01		G1/8	8	28,5	18,5	14	4	14	16	4	14	100
PC 08-02	10	G1/4	11	27	18,5	14	6	14	16	6	16,3	100
PC 08-03		G3/8	12	25,3	18,5	17	6	14	16	6	26,6	50
PC 08-04		G1/2	15	28,3	18,5	21	6	14	16	6	48,7	50
PC 10-01		G1/8	8	31	21	17	4	17	19	4	23,3	50
PC 10-02	12	G1/4	11	34	21	17	6	17	19	6	27,6	50
PC 10-03		G3/8	12	30	21	17	8	17	19	8	32,5	50
PC 10-04		G1/2	15	29,5	21	21	8	17	19	8	44,7	50
PC 12-01		16	G1/8	8	32,5	22,5	21	4	21	23	4	33,1
PC 12-02	G1/4		11	35,5	22,5	21	6	21	23	6	36,5	50
PC 12-03	G3/8		12	31,1	22,5	21	8	21	23	8	35,6	50
PC 12-04	G1/2		15	33,1	22,5	21	8	21	23	8	48,1	25
PC 16-03	16	G3/8	12	39,5	25,5	24	8	24	27	8	57,1	25
PC 16-04		G1/2	15	42	25,5	24	10	24	27	10	71,7	25

Teknik Çizim / Technical Drawing



IPCG - Metrik Erkek Rekor / Metric Male Straight

MODEL	HORTUM TUBE	DIŞ ÖLÇÜSÜ THREAD SIZE
IPCG 06-M 12x1,5	06	M12x1,5
IPCG 08-M 12x1,5	08	M12x1,5
IPCG 08-M 12x1,25	08	M12x1,25
IPCG 10-M 12x1,5	10	M12x1,5
IPCG 12-M 12x1,5	12	M12x1,5
IPCG 08-M 14x1,5	08	M14x1,5
IPCG 10-M 14x1,5	10	M14x1,5

MODEL	HORTUM TUBE	DIŞ ÖLÇÜSÜ THREAD SIZE
IPCG 12-M 14x1,5	12	M14x1,5
IPCG 08-M 16x1,5	08	M16x1,5
IPCG 10-M 16x1,5	10	M16x1,5
IPCG 12-M 16x1,5	12	M16x1,5
IPCG 08-M 22x1,5	08	M22x1,5
IPCG 10-M 22x1,5	10	M22x1,5
IPCG 12-M 22x1,5	12	M22x1,5

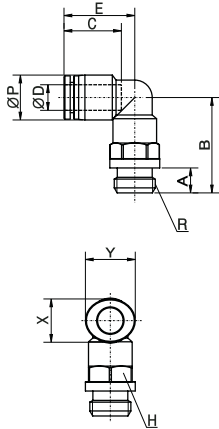
PL- Döner Dirsek / Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PL 04-M5	4	M5	10,4	5,5	17,5	16	18,7	8	10	12	2	5,6	100
PL 04-M6		M6	10,4	6,5	18,5	16	18,7	8	10	12	2	6,3	100
PL 04-01		G1/8	10,4	8	24,6	16	18,7	10	10	12	2,6	10,8	100
PL 04-02		G1/4	10,4	11	27,6	16	18,7	14	10	12	2,6	17,6	100
PL 04-03	6	G3/8	10,4	12	28,6	16	18,7	17	10	12	2,6	26,1	50
PL 06-M5		M5	12,4	5,5	22	17	20	10	12	14	2	6,2	100
PL 06-M6		M6	12,4	6,5	23,5	17	20	10	12	14	3	6,5	100
PL 06-01		G1/8	12,4	8	24	17	21,1	12	12	14	4,6	12,7	100
PL 06-02	8	G1/4	12,4	11	28	17	21,1	14	12	14	4,6	20,8	50
PL 06-03		G3/8	12,4	12	30	17	21,1	17	12	14	4,6	32,5	50
PL 06-04		G1/2	12,4	15	30	17	21,1	21	12	14	4,6	52,6	50
PL 08-01		G1/8	14,4	8	27	18,5	22,8	14	14	16	5	15,8	50
PL 08-02	10	G1/4	14,4	11	31	18,5	22,8	14	14	16	6	23,1	50
PL 08-03		G3/8	14,4	12	32	18,5	22,8	17	14	16	6	35,5	50
PL 08-04		G1/2	14,4	15	36	18,5	22,8	21	14	16	6	55,8	25
PL 10-01		12	G1/8	17,6	8	32	21	26,1	17	17	19	5	28,9
PL 10-02	G1/4		17,6	11	35	21	26,1	17	17	19	8	31,6	25
PL 10-03	G3/8		17,6	12	36	21	26,1	17	17	19	8	40,2	25
PL 10-04	G1/2		17,6	15	39	21	26,1	21	17	19	8	53,9	25
PL 12-01	16	G1/8	21	8	34	22,5	29,3	21	21	23	5	39,5	25
PL 12-02		G1/4	21	11	37	22,5	29,3	21	21	23	8	44,3	25
PL 12-03		G3/8	21	12	38	22,5	29,3	21	21	23	9	48,2	25
PL 12-04		G1/2	21	15	41	22,5	29,3	21	21	23	9	59,4	25
PL 16-03	16	G3/8	25,6	12	44,3	24,8	33,3	24	24	27	10	74,9	20
PL 16-04		G1/2	25,6	15	47,3	24,8	33,3	24	24	27	13	82,8	20

Teknik Çizim / Technical Drawing



IPLG - Metrik Döner Dirsek / Metric Male Elbow

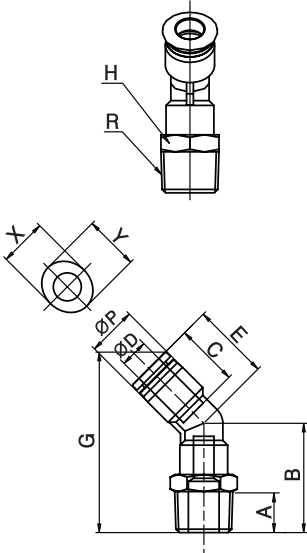
MODEL	HORTUM / TUBE	DIŞ ÖLÇÜSÜ / THREAD SIZE
IPLG 06-M 12x1,5	06	M12x1,5
IPLG 08-M 12x1,5	08	M12x1,5
IPLG 10-M 12x1,5	10	M12x1,5
IPLG 12-M 12x1,5	12	M12x1,5
IPLG 08-M 14x1,5	08	M14x1,5
IPLG 10-M 14x1,5	10	M14x1,5
IPLG 12-M 14x1,5	12	M14x1,5

MODEL	HORTUM / TUBE	DIŞ ÖLÇÜSÜ / THREAD SIZE
IPLG 08-M 16x1,5	08	M16x1,5
IPLG 10-M 16x1,5	10	M16x1,5
IPLG 12-M 16x1,5	12	M16x1,5
IPLG 08-M 22x1,5	08	M22x1,5
IPLG 10-M 22x1,5	10	M22x1,5
IPLG 12-M 22x1,5	12	M22x1,5

PL- 45° Döner Dirsek / Male 45° Elbow



Teknik Çizim / Technical Drawing



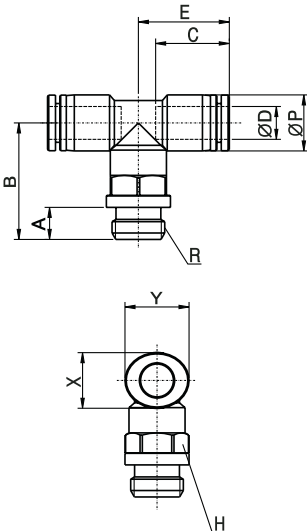
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	G	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PL45 04-M5	4	M5	10.4	4	22	16	18.1	10	34.76	10	12	2	5.6	100
PL45 04-M6		M6	10.4	5	23	16	18.1	10	35.76	10	12	2	6.3	100
PL45 04-01		G1/8	10.4	8	24.6	16	18.1	10	37.36	10	12	2.6	10.8	100
PL45 04-02		G1/4	10.4	11	27.6	16	18.1	14	40.36	10	12	2.6	17.6	100
PL45 04-03	6	G3/8	10.4	12	28.6	16	18.1	17	41.63	10	12	2.6	26.1	50
PL45 06-M5		M5	12.4	4	21.9	17	20.1	12	36.08	12	14	2	6.2	100
PL45 06-M6		M6	12.4	5	22.9	17	20.1	12	37.08	12	14	3	6.5	100
PL45 06-01		G1/8	12.4	8	24	17	20.1	12	39.18	12	14	4.6	12.7	100
PL45 06-02	8	G1/4	12.4	11	28	17	20.1	14	42.17	12	14	4.6	20.8	50
PL45 06-03		G3/8	12.4	12	30	17	20.1	17	44.18	12	14	4.6	32.5	50
PL45 06-04		G1/2	12.4	15	33	17	20.1	21	47.18	12	14	4.6	52.6	50
PL45 08-01		G1/8	14.4	8	27	18.5	22.7	14	43.03	14	16	5	15.8	50
PL45 08-02	10	G1/4	14.4	11	31	18.5	22.7	14	47.03	14	16	6	23.1	50
PL45 08-03		G3/8	14.4	12	32	18.5	22.7	17	48.03	14	16	6	35.5	50
PL45 08-04		G1/2	14.4	15	36	18.5	22.7	21	52.03	14	16	6	55.8	25
PL45 10-01		G1/8	17.6	8	32	21	26.1	17	50.35	17	19	5	28.9	25
PL45 10-02	12	G1/4	17.6	11	35	21	26.1	17	53.35	17	19	8	31.6	25
PL45 10-03		G3/8	17.6	12	36	21	26.1	17	53.35	17	19	8	40.2	25
PL45 10-04		G1/2	17.6	15	39	21	26.1	21	57.35	17	19	8	53.9	25
PL45 12-01		G1/8	21	8	33.9	22.5	29.3	21	54.57	21	23	5	39.5	25
PL45 12-02	16	G1/4	21	11	36.9	22.5	29.3	21	57.57	21	23	8	44.3	25
PL45 12-03		G3/8	21	12	37.9	22.5	29.3	21	58.57	21	23	9	48.2	25
PL45 12-04		G1/2	21	15	40.9	22.5	29.3	21	61.57	21	23	9	59.4	25

PT- Orta Bacak Te / Male Branch Tee



Teknik Çizim / Technical Drawing



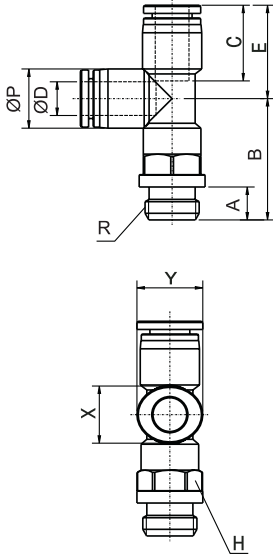
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PT 04-M5	4	M5	10.4	5.5	22.1	16	18.5	10	10	12	2	11.1	100
PT 04-M6		M6	10.4	6.5	23.1	16	18.5	10	10	12	2	11.1	100
PT 04-01		G1/8	10.4	8	24.6	16	18.5	10	10	12	2.6	13	100
PT 04-02		G1/4	10.4	11	27.9	16	18.5	14	10	12	2.6	19.7	50
PT 04-03	6	G3/8	10.4	12	28.6	16	18.5	17	10	12	2.6	28.3	50
PT 06-M5		M5	12.4	5.5	23	17	20.4	12	12	14	2	13.7	50
PT 06-M6		M6	12.4	6.5	24.5	17	20.4	12	12	14	3	13.7	50
PT 06-01		G1/8	12.4	8	25	17	20.4	12	12	14	4.6	15.3	50
PT 06-02	8	G1/4	12.4	11	29	17	20.4	14	12	14	4.6	23.6	50
PT 06-03		G3/8	12.4	12	31	17	20.4	17	12	14	4.6	35	50
PT 06-04		G1/2	12.4	15	35	17	20.4	21	12	14	4.6	43	50
PT 08-01		G1/8	14.4	8	25.5	18.5	22.8	14	14	16	5	19.6	50
PT 08-02	10	G1/4	14.4	11	29.5	18.5	22.8	14	14	16	6	26.6	50
PT 08-03		G3/8	14.4	12	30.5	18.5	22.8	17	14	16	6	40.2	25
PT 08-04		G1/2	14.4	15	34.5	18.5	22.8	21	14	16	6	51.5	25
PT 10-01		G1/8	17.6	8	32	21	26	17	17	19	5	25.6	25
PT 10-02	12	G1/4	17.6	11	35	21	26	17	17	19	8	37.9	25
PT 10-03		G3/8	17.6	12	36	21	26	17	17	19	8	46.7	25
PT 10-04		G1/2	17.6	15	39	21	26	21	17	19	8	59.3	25
PT 12-01		G1/8	21	8	34	22.5	29	21	21	23	5	47.8	20
PT 12-02	16	G1/4	21	11	37	22.5	29	21	21	23	8	52.3	20
PT 12-03		G3/8	21	12	38	22.5	29	21	21	23	9	56.1	20
PT 12-04		G1/2	21	15	41	22.5	29	21	21	23	9	67	20
PT 16-03		G3/8	25.6	12	44.3	24.8	31.1	24	24	27	10	90.4	16
PT 16-04	G1/2	25.6	15	47.3	24.8	31.1	24	24	27	13	98.4	12	

PST- Yan Bacak Te / Male Run Tee



Teknik Çizim / Technical Drawing



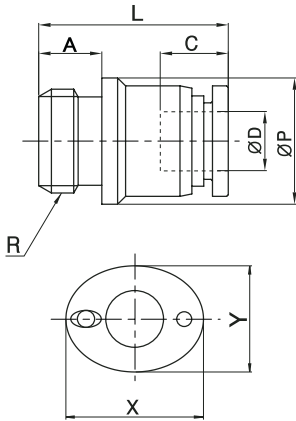
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PST 04-M5	4	M5	10.4	5.5	22.1	16	18.5	10	10	12	2	11.1	100
PST 04-M6		M6	10.4	6.5	23.1	16	18.5	10	10	12	2	11.1	100
PST 04-01		G1/8	10.4	8	24.6	16	18.5	10	10	12	2.6	13.1	100
PST 04-02		G1/4	10.4	11	27.9	16	18.5	14	10	12	2.6	19.6	50
PST 04-03		G3/8	10.4	12	28.6	16	18.5	17	10	12	2.6	25	50
PST 06-M5	6	M5	12.4	5.5	23	17	20.4	12	12	14	2	13.6	50
PST 06-M6		M6	12.4	6.5	24.5	17	20.4	12	12	14	3	13.6	50
PST 06-01		G1/8	12.4	8	25	17	20.4	12	12	14	4.6	15.6	50
PST 06-02		G1/4	12.4	11	29	17	20.4	14	12	14	4.6	23.7	50
PST 06-03		G3/8	12.4	12	31	17	20.4	17	12	14	4.6	34.5	50
PST 06-04	G1/2	12.4	15	35	17	20.4	21	12	14	4.6	40	50	
PST 08-01	8	G1/8	14.4	8	25.5	18.5	22.8	14	14	16	5	19.6	50
PST 08-02		G1/4	14.4	11	29.5	18.5	22.8	14	14	16	6	26.4	50
PST 08-03		G3/8	14.4	12	30.5	18.5	22.8	17	14	16	6	34.1	25
PST 08-04		G1/2	14.4	15	34.5	18.5	22.8	21	14	16	6	51.8	25
PST 10-01	10	G1/8	17.6	8	32	21	26	17	17	19	5	35.5	25
PST 10-02		G1/4	17.6	11	35	21	26	17	17	19	8	38.4	25
PST 10-03		G3/8	17.6	12	36	21	26	17	17	19	8	46.9	25
PST 10-04	G1/2	17.6	15	39	21	26	21	17	19	8	60.3	25	
PST 12-01	12	G1/8	21.2	8	34	22.5	28.7	21	21	23	5	48	20
PST 12-02		G1/4	21.2	11	37	22.5	28.7	21	21	23	8	52.2	20
PST 12-03		G3/8	21.2	12	38	22.5	28.7	21	21	23	9	56.1	20
PST 12-04		G1/2	21.2	15	41	22.5	28.7	21	21	23	9	67.2	20

POC- Yuvarlak Rekor Bağlantı / Round Male Straight



Teknik Çizim / Technical Drawing



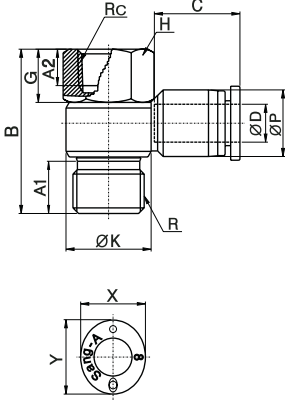
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
POC 04-M5	4	M5	10	5.5	22.2	16	2	10	12	2	6.3	100
POC 04-M6		M6	10	6.5	22.2	16	3	10	12	3	6.3	100
POC 04-01		G1/8	10	8	22.2	16	3	10	12	3	6.9	100
POC 04-02		G1/4	14	11	22.2	16	3	10	12	3	14.5	100
POC 04-03		G3/8	15	12	22.2	16	3	10	12	3	20	50
POC 06-M5	6	M5	12	5.5	24.7	17	2	12	14	2	9.3	100
POC 06-M6		M6	12	6.5	25.7	17	3	12	14	3	9.5	100
POC 06-01		G1/8	11	8	23.2	17	4	12	14	4	8.2	100
POC 06-02		G1/4	14	11	25.2	17	4	12	14	4	16.2	100
POC 06-03		G3/8	17	12	24.7	17	4	12	14	4	24.1	50
POC 08-01	8	G1/8	14	8	28.5	18.5	4	12	16	5	14.3	100
POC 08-02		G1/4	14	11	27	18.5	6	14	16	6	17.6	100
POC 08-03		G3/8	17	12	25.3	18.5	6	14	16	6	22.9	50
POC 08-04		G1/2	21	15	28.3	18.5	6	14	16	6	41.6	50
POC 10-01	10	G1/8	17	8	31	21	4	17	19	4	20.4	50
POC 10-02		G1/4	17	11	34	21	6	17	19	6	24.2	50
POC 10-03		G3/8	17	12	30	21	6	17	19	8	23	50
POC 10-04		G1/2	21	15	29.5	21	6	17	19	8	43.4	50
POC 12-01	12	G1/8	20	8	32.5	22.5	4	21	23	4	35	50
POC 12-02		G1/4	20	11	35.5	22.5	6	21	23	6	33.4	50
POC 12-03		G3/8	21	12	31.1	22.5	8	21	23	8	31.9	50
POC 12-04		G1/2	21	15	33.1	22.5	8	21	23	8	44.5	25

PHF- Ara Kısa Döner Dirsek / Female Banjo



Teknik Çizim / Technical Drawing



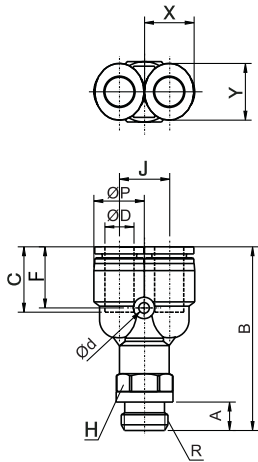
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	Rc	ØP	A1	A2	B	C	H	G	ØK	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PHF 04-M5	4	M5	M5	10.4	5.5	5	21.2	16	8	6.5	10	10	12	2	7.8	100
PHF 04-M6		M6	M6	10.4	6.5	6	22.5	16	8	7.5	10	10	12	3	7.8	100
PHF 04-01		G1/8	G1/8	10.4	8	9	30.5	16	14	9.5	14.4	10	12	2	19.8	50
PHF 04-02		G1/4	G1/4	10.4	11	12	36	16	17	11.5	18.4	10	12	3	21	50
PHF 06-M5	6	M5	M5	12.4	5.5	5	21	17	8	6.5	10	12	14	2	8.5	50
PHF 06-M6		M6	M6	12.4	6.5	6	22.5	17	8	7.5	10	12	14	2.5	8.5	50
PHF 06-01		G1/8	G1/8	12.4	8	9	30.5	17	14	9.5	14.4	12	14	4	20.6	50
PHF 06-02		G1/4	G1/4	12.4	11	12	36	17	17	11.5	18.4	12	14	4	33.8	50
PHF 06-03	G3/8	G3/8	12.4	12	13	41.8	17	21	13.5	22	12	14	5	45	50	
PHF 08-01	8	G1/8	G1/8	14.4	8	9	30.5	18.5	14	9.5	14.4	14	16	5	21.5	50
PHF 08-02		G1/4	G1/4	14.4	11	12	36	18.5	17	11.5	18.4	14	16	5.5	35	50
PHF 08-03		G3/8	G3/8	14.4	12	13	41.8	18.5	21	13.5	22	14	16	6	59.9	50
PHF 08-04		G1/2	G1/2	14.4	15	16	51	18.5	24	17	28	14	16	7	63	25
PHF 10-02	10	G1/4	G1/4	17.6	11	12	36	20	17	11.5	18.4	17	19	5.5	38	25
PHF 10-03		G3/8	G3/8	17.6	12	13	41.8	20	21	13.5	22	17	19	8	63	25
PHF 10-04		G1/2	G1/2	17.6	15	16	51	20	24	17	28	17	19	8	89	20
PHF 12-02	12	G1/4	G1/4	21	11	12	36	22.5	16	11.5	18.4	21	23	8	62	20
PHF 12-03		G3/8	G3/8	21	12	12	41.8	22.5	21	13.5	22	21	23	9	66	20
PHF 12-04		G1/2	G1/2	21	15	15	51	22.5	24	17	28	21	23	9	99.2	20

PWT - Orta Bacak Dişli Ye / Male Y



Teknik Çizim / Technical Drawing



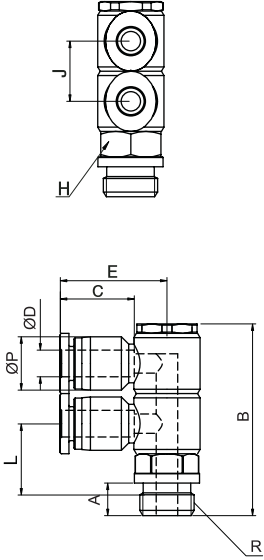
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	Ød	J	F	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PWT 04-M5	4	M5	10.4	5.5	40.3	16	2.2	9.6	15.2	10	10	12	2	11.4	50
PWT 04-M6		M6	10.4	6.5	41.3	16	2.2	9.6	15.2	10	10	12	2	11.4	50
PWT 04-01		G1/8	10.4	8	42.8	16	2.2	9.6	15.2	10	10	12	2.6	13.2	50
PWT 04-02		G1/4	10.4	11	45.8	16	2.2	9.6	15.2	14	10	12	2.6	20.1	50
PWT 04-03	G3/8	10.4	12	46.8	16	2.2	9.6	15.2	17	10	12	2.6	27	50	
PWT 06-M5	6	M5	12.4	5.5	41.7	17	3.2	12	17	12	12	14	2	13.8	50
PWT 06-M6		M6	12.4	6.5	43.2	17	3.2	12	17	12	12	14	3	13.8	50
PWT 06-01		G1/8	12.4	8	43.7	17	3.2	12	17	12	12	14	4.6	15.8	50
PWT 06-02		G1/4	12.4	11	47.7	17	3.2	12	17	14	12	14	4.6	23.5	50
PWT 06-03	G3/8	12.4	12	49.7	17	3.2	12	17	17	12	14	4.6	35.2	50	
PWT 08-01	8	G1/8	14.4	8	47.8	18.5	3.2	14	17.3	14	14	16	6	20.3	50
PWT 08-02		G1/4	14.4	11	51.8	18.5	3.2	14	17.3	14	14	16	6	27.4	50
PWT 08-03		G3/8	14.4	12	52.8	18.5	3.2	14	17.3	17	14	16	6	35	25
PWT 08-04		G1/2	14.4	15	56.5	18.5	3.2	14	17.3	21	14	16	6	52.6	25
PWT 10-01	10	G1/8	17.6	8	55.2	21	4.2	18	21.5	17	17	19	5	37	25
PWT 10-02		G1/4	17.6	11	58.2	21	4.2	18	21.5	17	17	19	8	39.6	25
PWT 10-03		G3/8	17.6	12	59.2	21	4.2	18	21.5	17	17	19	8	47.9	25
PWT 10-04		G1/2	17.6	15	62.2	21	4.2	18	21.5	21	17	19	8	62.2	25
PWT 12-01	12	G1/8	21.2	8	57.7	22.5	4.2	20.8	21	21	21	23	5	49	25
PWT 12-02		G1/4	21.2	11	60.7	22.5	4.2	20.8	21	21	21	23	8	53.5	25
PWT 12-03		G3/8	21.2	12	61.7	22.5	4.2	20.8	21	21	21	23	9	57.2	20
PWT 12-04		G1/2	21.2	15	64.7	22.5	4.2	20.8	21	21	21	23	9	69	20

PHT (D2)- İkili Kısa Dirsek Tip Dağıtıcı / Double Universal Elbow



Teknik Çizim / Technical Drawing



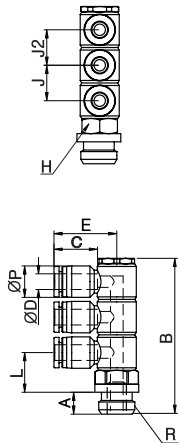
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	C	H	L	J	E	ØP	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PHT 04-01(2)	4	G1/8	6	44.2	16	14	16.6	14	22.3	10.4	3	28.5	25
PHT 04-02(2)		G1/4	8	45.2	16	17	18	14	22.3	10.4	3	31	25
PHT 04-03(2)		G3/8	10	47.2	16	21	18.5	14	22.3	10.4	3	41.5	25
PHT 06-01(2)	6	G1/8	6	42.2	17	14	16.6	14	26.5	12.4	5	30.5	25
PHT 06-02(2)		G1/4	8	45.2	17	17	18	14	26.5	12.4	5	33	25
PHT 06-03(2)		G3/8	10	47.2	17	21	18.5	14	26.5	12.4	5	43.5	25
PHT 08-01(2)	8	G1/8	6	44.2	18.5	17	17.1	15	29.1	14.4	7	44.5	25
PHT 08-02(2)		G1/4	8	47.2	18.5	17	18.5	15	29.1	14.4	7	47.5	25
PHT 08-03(2)		G3/8	10	49.2	18.5	21	19	15	29.1	14.4	7	52.5	25
PHT 08-04(2)		G1/2	12	51.2	18.5	24	20.4	15	29.1	14.4	7	75.5	25
PHT 10-02(2)	10	G1/4	8	55.6	21	17	23	18	34.3	17.6	8	85	25
PHT 10-03(2)		G3/8	10	57.6	21	21	23.8	18	34.3	17.6	8	91	20
PHT 10-04(2)		G1/2	12	59.6	21	24	24.2	18	34.3	17.6	8	99	20
PHT 12-02(2)	12	G1/4	8	65.8	22.5	27	26.9	21.8	38.3	21.2	10	146	9
PHT 12-03(2)		G3/8	10	67.8	22.5	27	27.4	21.8	38.3	21.2	10	152	9
PHT 12-04(2)		G1/2	12	69.8	22.5	27	28.8	21.8	38.3	21.2	10	159	9

PHT(D3) - Üçlü Kısa Dirsek Tip Dağıtıcı / Triple Universal Elbow



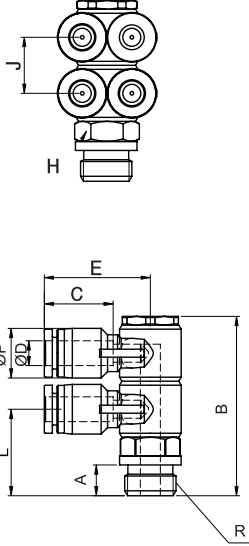
Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

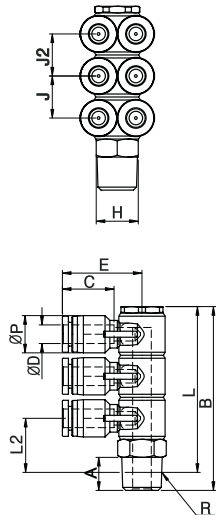
MODEL	ØD	R	A	B	C	H	L	L2	J	J2	E	ØP	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PHT 04-01(3)	4	G1/8	8	58.2	16	14	53.8	16.6	14	14	22.3	10.4	3	36.5	25
PHT 04-02(3)		G1/4	11	61.2	16	14	55.2	18	14	14	22.3	10.4	3	39.5	25
PHT 04-03(3)		G3/8	12	62.2	16	17	55.7	18.5	14	14	22.3	10.4	3	49.5	25
PHT 06-01(3)	6	G1/8	8	58.2	17	14	53.8	16.6	14	14	26.5	12.4	5	39	25
PHT 06-02(3)		G1/4	11	61.2	17	14	55.2	18	14	14	26.5	12.4	5	42	25
PHT 06-03(3)		G3/8	12	62.2	17	17	55.7	18.5	14	14	26.5	12.4	5	52.5	25
PHT 08-01(3)	8	G1/8	8	61.3	18.5	17	56.9	17.1	15	15	29.1	14.4	7	57.5	25
PHT 08-02(3)		G1/4	11	64.3	18.5	17	58.3	18.5	15	15	29.1	14.4	7	60.5	25
PHT 08-03(3)		G3/8	12	65.3	18.5	17	58.7	19	15	15	29.1	14.4	7	65	20
PHT 08-04(3)		G1/2	15	68.2	18.5	21	60.1	20.4	15	18	29.1	14.4	7	88.5	20
PHT 10-02(3)	10	G1/4	11	76.2	21	21	70.2	23	18	18	34.3	17.6	8	107.5	12
PHT 10-03(3)		G3/8	12	77.2	21	21	70.7	23.85	18	18	34.3	17.6	8	114	12
PHT 10-04(3)		G1/2	15	80.2	21	21	72.1	24.25	18	18	34.3	17.6	8	121.5	12
PHT 12-02(3)	12	G1/4	11	90.6	22.5	27	84.6	26.9	21.8	21.8	38.3	21.2	10	181	9
PHT 12-03(3)		G3/8	12	91.3	22.5	27	84.8	27.4	21.8	21.8	38.3	21.2	10	187	9
PHT 12-04(3)		G1/2	15	94	22.5	27	86.5	28.8	21.8	21.8	38.3	21.2	10	195	9

PAT (D2)- Dörtlü Kısa Dirsek Tip Dağıtıcı / Double Branch A

Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	C	H	L	J	E	ØP	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PAT 04-01(2)	4	G1/8	6	42.2	16	14	16.6	14	22.3	10.4	3	33	25
PAT 04-02(2)		G1/4	8	45.2	16	17	18	14	22.3	10.4	3	36	25
PAT 04-03(2)		G3/8	10	47.2	16	21	18.5	14	22.3	10.4	3	46	25
PAT 06-01(2)	6	G1/8	6	42.2	17	14	16.6	14	26.5	12.4	5	37.5	25
PAT 06-02(2)		G1/4	8	45.2	17	17	18	14	26.5	12.4	5	40	25
PAT 06-03(2)		G3/8	10	47.2	17	21	18.5	14	26.5	12.4	5	50.5	25
PAT 08-01(2)	8	G1/8	6	44.2	18.5	17	17.1	15	29.1	14.4	7	53.5	20
PAT 08-02(2)		G1/4	8	47.2	18.5	17	18.5	15	29.1	14.4	7	57	20
PAT 08-03(2)		G3/8	10	49.2	18.5	21	19	15	29.1	14.4	7	62	20
PAT 08-04(2)		G1/2	12	51.2	18.5	24	20.4	15	29.1	14.4	7	84.5	20
PAT 10-02(2)	10	G1/4	8	55.6	21	17	23	18	34.3	17.6	8	98	12
PAT 10-03(2)		G3/8	10	57.6	21	21	23.8	18	34.3	17.6	8	104.5	12
PAT 10-04(2)		G1/2	12	59.6	21	24	24.2	18	34.3	17.6	8	112.5	12
PAT 12-02(2)	12	G1/4	8	65.8	22.5	27	26.9	21.8	38.3	21.2	10	163.5	6
PAT 12-03(2)		G3/8	10	67.8	22.5	27	27.4	21.8	38.3	21.2	10	169	6
PAT 12-04(2)		G1/2	12	69.8	22.5	27	28.8	21.8	38.3	21.2	10	177	6

PAT(D3)- Altılı Kısa Dirsek Tip Dağıtıcı / Triple Branch A

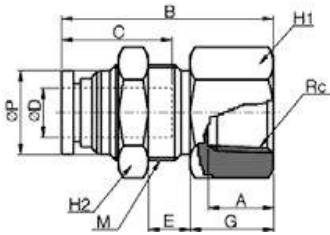
Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	C	H	L	J	J2	E	ØP	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PAT 04-01(3)	4	G1/8	8	58.2	16	14	53.8	14	14	22.3	10.4	3	43.5	25
PAT 04-02(3)		G1/4	11	61.2	16	14	55.2	14	14	22.3	10.4	3	46.5	25
PAT 04-03(3)		G3/8	12	62.2	16	17	55.7	14	14	22.3	10.4	3	56.5	25
PAT 06-01(3)	6	G1/8	8	58.2	17	14	53.8	14	14	26.5	12.4	5	49.5	20
PAT 06-02(3)		G1/4	11	61.2	17	14	55.2	14	14	26.5	12.4	5	52.5	20
PAT 06-03(3)		G3/8	12	62.2	17	17	55.7	14	14	26.5	12.4	5	62.5	20
PAT 08-01(3)	8	G1/8	8	61.3	18.5	17	56.9	15	15	29.1	14.4	7	71	16
PAT 08-02(3)		G1/4	11	64.3	18.5	17	58.3	15	15	29.1	14.4	7	74	16
PAT 08-03(3)		G3/8	12	65.3	18.5	17	58.7	15	15	29.1	14.4	7	79	16
PAT 08-04(3)		G1/2	15	68.2	18.5	21	60.1	15	15	29.1	14.4	7	102	16
PAT 10-02(3)	10	G1/4	11	76.2	21	21	70.2	18	18	34.3	17.6	8	127.5	9
PAT 10-03(3)		G3/8	12	77.2	21	21	70.7	18	18	34.3	17.6	8	134	9
PAT 10-04(3)		G1/2	15	80.2	21	21	72.1	18	18	34.3	17.6	8	142	9
PAT 12-02(3)	12	G1/4	11	90.6	22.5	27	84.6	21.8	21.8	38.3	21.2	10	207.5	6
PAT 12-03(3)		G3/8	12	91.3	22.5	27	84.8	21.8	21.8	38.3	21.2	10	215	6
PAT 12-04(3)		G1/2	15	94	22.5	27	86.5	21.8	21.8	38.3	21.2	10	222	6

PMF- Perde Geçiş Dişi Rekor / Bulkhead Female Straight



Teknik Çizim / Technical Drawing



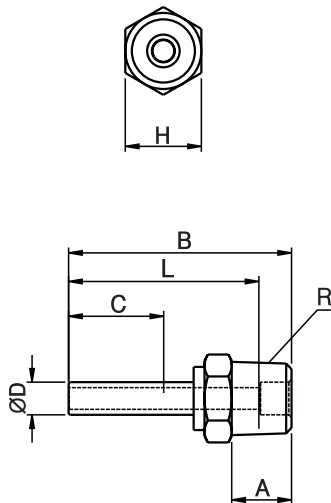
Ölçü Tablosu / Dimension Chart

MODEL	ØD	Rc	ØP	G	A	B	C	E	H1	H2	M	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PMF 04-01	4	G1/8	10	11	9	26.2	16	5	14	14	M12	3.5	17.7	50
PMF 04-02		G1/4	10	14	12	29.2	16	5	17	14	M12	3.5	24	50
PMF 04-03		G3/8	10	15	13	30.2	16	5	21	17	M12	3.5	31	50
PMF 06-01	6	G1/8	12	9	9	27.1	17	7.5	17	17	M14	5	25.7	50
PMF 06-02		G1/4	12	13.5	12	31.7	17	7.5	17	17	M14	5	28	50
PMF 06-03		G3/8	12	15	13	33.2	17	7.5	19	17	M14	5	29	50
PMF 08-01	8	G1/8	14	10	9	31.5	18.5	9.2	19	19	M16	7	40.2	50
PMF 08-02		G1/4	14	14	12	35.5	18.5	9.2	19	19	M16	7	43.8	50
PMF 08-03		G3/8	14	15	13	36.5	18.5	9.2	19	19	M16	7	35.7	50
PMF 08-04		G1/2	14	19	16	40.5	18.5	9.2	24	19	M16	7	47	25
PMF 10-01	10	G1/8	17	11	9	31	21	7	22	24	M20	7	57.9	25
PMF 10-02		G1/4	17	14	12	34	21	7	24	24	M20	9	65.8	25
PMF 10-03		G3/8	17	15	13	35	21	7	24	24	M20	9	69	25
PMF 10-04		G1/2	17	19	16	39	21	7	24	24	M20	9	72	25
PMF 12-01	12	G1/8	20	10	9	32.5	22.5	9.9	24	26	M22	10	74	25
PMF 12-02		G1/4	20	13	12	35.5	22.5	9.9	24	26	M22	10	76.5	25
PMF 12-03		G3/8	20	15	13	37.5	22.5	9.9	24	26	M22	10	77.9	25
PMF 12-04		G1/2	20	19	16	41.5	22.5	9.9	24	26	M22	10	80	25

PCJ- Dişli Boru Bağlantısı / Plug-In Male



Teknik Çizim / Technical Drawing



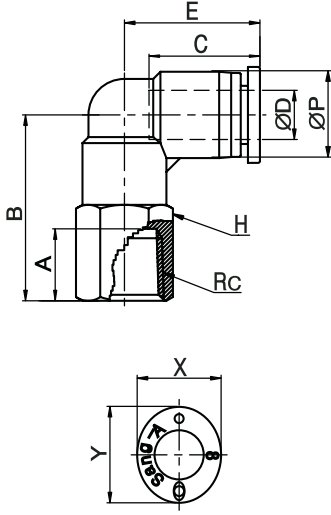
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	L	C	H	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCJ 04-M5	4	M5	4	36.9	32.9	16	10	3	5.8	100
PCJ 04-01		G1/8	8	33	28.6	16	10	3	6	100
PCJ 04-02		G1/4	11	36	30	16	14	3	15	100
PCJ 06-M5	6	M5	4	41.9	37.9	17	10	5	5.9	100
PCJ 06-01		G1/8	8	68	33.6	17	10	5	12	100
PCJ 06-02		G1/4	11	41	35	17	14	5	15	50
PCJ 06-03	G3/8	12	42	35.5	17	17	5	20	50	
PCJ 08-01	8	G1/8	8	48	40	18.5	12	7	12	50
PCJ 08-02		G1/4	11	43	37	18.5	14	7	13	50
PCJ 08-03		G3/8	12	44	37.5	18.5	17	7	21.3	50
PCJ 10-02	10	G1/4	11	55	49	21	17	8	24.3	25
PCJ 10-03		G3/8	12	49	42.5	21	17	8	25	25
PCJ 10-04		G1/2	15	52	43.9	21	121	8	33.9	25
PCJ 12-02	12	G1/4	11	62	56	22.5	19	10	29.3	25
PCJ 12-03		G3/8	15	60.9	54.4	22.5	19	10	34	25
PCJ 12-04		G1/2	15	57	48.9	22.5	21	10	40	25
PCJ 16-03	16	G3/8	12	66	59.5	25.5	21	13	44	12
PCJ 16-04		G1/2	15	67	58.9	25.5	21	13	50.6	12

PLF- Dişi Döner Dirsek / Female Elbow



Teknik Çizim / Technical Drawing



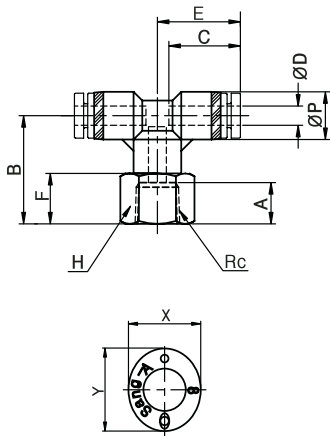
Ölçü Tablosu / Dimension Chart

MODEL	ØD	Rc	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PLF 04-M5	4	M5	10.4	5	16	16	18.5	10	10	12	2	8	100
PLF 04-M6		M6	10.4	6	17	16	18.5	10	10	12	2	9	100
PLF 04-01		G1/8	10.4	9	23.6	16	18.5	14	10	12	2.6	16	100
PLF 04-02		G1/4	10.4	12	26.6	16	18.5	17	10	12	2.6	20	100
PLF 06-M5	6	M5	12.8	5	16	17	20.3	12	12	14	2	12.3	100
PLF 06-M6		M6	12.8	6	17	17	20.3	12	12	14	3	12.3	100
PLF 06-01		G1/8	12.8	9	23	17	20.3	14	12	14	4.6	21	100
PLF 06-02		G1/4	12.8	12	26	17	20.3	17	12	14	4.6	23.3	50
PLF 06-03	8	G3/8	12.8	13	27	17	20.3	21	12	14	4.6	25	50
PLF 08-01		G1/8	14.4	9	26	18.5	22.6	14	14	16	5	18.9	50
PLF 08-02		G1/4	14.4	12	29	18.5	22.6	17	14	16	6	25.9	50
PLF 08-03	10	G3/8	14.4	13	30	18.5	22.6	21	14	16	6	29	50
PLF 10-02		G1/4	17.6	12	33	21	27	17	17	19	8	33.8	25
PLF 10-03		G3/8	17.6	13	34.5	21	27	21	17	19	8	37	25
PLF 10-04	10	G1/2	17.6	16	38	21	27	24	17	19	8	41	25

PTF- Orta Bacak Dişi Te / Female Branch Tee



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	Rc	ØP	A	B	C	E	H	F	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PTF 04-M5	4	M5	10.4	5	19.6	16	18.5	10	7	10	12	2.6	12	100
PTF 04-M6		M6	10.4	6	20.6	16	18.5	10	8	10	12	2.6	12.3	100
PTF 04-01		G1/8	10.4	9	23.6	16	18.5	14	11	10	12	2.6	16.9	100
PTF 04-02		G1/4	10.4	12	26.6	16	18.5	17	14	10	12	2.6	21	50
PTF 06-M5	6	M5	12.8	5	20	17	20.4	12	7	12	14	3.5	13.5	50
PTF 06-M6		M6	12.8	6	21	17	20.4	12	8	12	14	4.6	15	50
PTF 06-01		G1/8	12.8	9	24	17	20.4	14	11	12	14	4.6	19	50
PTF 06-02		G1/4	12.8	12	27	17	20.4	17	14	12	14	4.6	26	50
PTF 06-03	8	G3/8	12.8	13	28	17	20.4	21	15	12	14	4.6	33	50
PTF 08-01		G1/8	14.4	9	24.5	18.5	22.7	14	11	14	16	5	23	50
PTF 08-02		G1/4	14.4	12	27.5	18.5	22.7	17	14	14	16	6	30	50
PTF 08-03	10	G3/8	14.4	13	28.5	18.5	22.7	21	15	14	16	6	35	25
PTF 10-02		G1/4	17.6	12	33	21	26.1	17	14	17	19	8	41	25
PTF 10-03		G3/8	17.6	13	34.5	21	26.1	21	15.5	17	19	8	46	25
PTF 10-04	10	G1/2	17.6	16	38	21	26.1	24	19	17	19	8	58	25

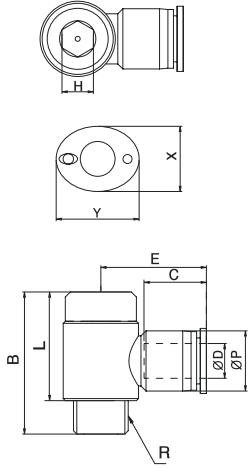
POL- Allenli Kısa Döner Dirsek / Hex. Holed Banjo



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	A	B	L	ØP	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
POL 04-M5	4	M5	3.5	18	14.5	10.4	16	21	5	10	12	3	6.5	100
POL 04-M6		M6	4.5	19	14.5	10.4	16	21	5	10	12	3	6.5	100
POL 04-01		G1/8	8	26.9	22.5	10.4	16	21.5	6	10	12	3	10	50
POL 06-M5	6	M5	3.5	18	14.5	12.4	17	24.9	5	12	14	5	14	100
POL 06-M6		M6	4.5	19	14.5	12.4	17	24.9	5	12	14	5	20	100
POL 06-01		G1/8	8	26.9	22.5	12.4	17	25.7	6	12	14	5	15	50
POL 06-02	6	G1/4	11	29.5	23.5	12.4	17	25.7	8	12	14	5	21.5	50
POL 06-03		G3/8	12	33.8	27.3	12.4	17	28.2	10	12	14	5	23	25
POL 08-01		G1/8	8	26.9	22.5	14.4	18.5	25.1	6	14	16	7	22	50
POL 08-02	8	G1/4	11	29.5	23.5	14.4	18.5	28.3	8	14	16	7	28	50
POL 08-03		G3/8	12	33.8	27.3	14.4	18.5	28.7	10	14	16	7	36	25
POL 08-04		G1/2	15	45	36.9	14.4	18.5	30.6	12	14	16	7	44	20
POL 10-02	10	G1/4	11	29.5	23.5	17.6	21	31.7	8	17	19	8	41	25
POL 10-03		G3/8	12	33.8	27.3	17.6	21	32.1	10	17	19	8	49.5	25
POL 10-04		G1/2	15	45	26.9	17.6	21	35	12	17	19	8	57	20
POL 12-02	12	G1/4	11	29.5	23.5	21	22.5	35.6	8	21	23	10	58.9	25
POL 12-03		G3/8	12	33.8	27.3	21	22.5	36	10	21	23	10	68	25
POL 12-04		G1/2	15	45	26.9	21	22.5	36	12	21	23	10	83	25

Teknik Çizim / Technical Drawing



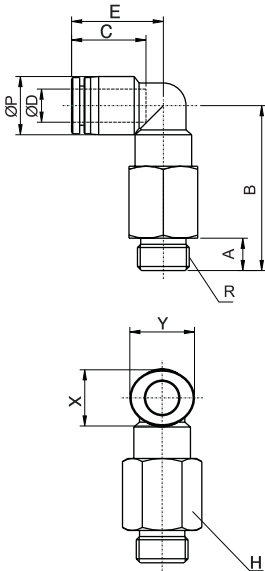
PLL - Uzun Dirsek / Extended Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PLL 04-M5	4	M5	10.4	4	30.9	16	18.7	8	10	12	2	11.3	100
PLL 04-M6		M6	10.4	6.5	31.9	16	18.7	8	10	12	2	11.3	100
PLL 04-01		G1/8	10.4	8	36	16	18.7	10	10	12	2.6	17.2	50
PLL 04-02	4	G1/4	10.4	11	39	16	18.7	14	10	12	2.6	30.1	50
PLL 04-03		G3/8	10.4	12	40.5	16	18.7	17	10	12	2.6	40	50
PLL 06-M5		M5	12.4	4	35.4	17	20	8	12	14	2	11.8	50
PLL 06-M6	6	M6	12.4	6.5	36.9	17	20	8	12	14	3	11.8	50
PLL 06-01		G1/8	12.4	8	37.8	17	21.1	12	12	14	4.6	25.4	50
PLL 06-02		G1/4	12.4	11	41.8	17	21.1	14	12	14	4.6	34.2	50
PLL 06-03	6	G3/8	12.4	12	44.3	17	21.1	17	12	14	4.6	51.2	50
PLL 08-01		G1/8	14.4	8	42.4	18.5	22.8	14	14	16	5	34	50
PLL 08-02		G1/4	14.4	11	46.4	18.5	22.8	14	14	16	6	41	50
PLL 08-03	8	G3/8	14.4	12	47.9	18.5	22.8	17	14	16	6	61.8	25
PLL 08-04		G1/2	14.4	15	52.4	18.5	22.8	21	14	16	6	70	20
PLL 10-01		G1/8	17.6	8	50.6	21	26.1	17	17	19	5	60.2	25
PLL 10-02	10	G1/4	17.6	11	53.6	21	26.1	17	17	19	8	62.7	25
PLL 10-03		G3/8	17.6	12	55.1	21	26.1	17	17	19	8	72.1	25
PLL 10-04		G1/2	17.6	15	58.6	21	26.1	21	17	19	8	97.7	20
PLL 12-01	12	G1/8	21	8	56	22.5	24.3	21	21	23	5	90	25
PLL 12-02		G1/4	21	11	59	22.5	24.3	21	21	23	8	99.7	25
PLL 12-03		G3/8	21	12	60.5	22.5	24.3	21	21	23	9	105.2	20
PLL 12-04		G1/2	21	15	34	22.5	24.3	21	21	23	9	110.8	20

Teknik Çizim / Technical Drawing



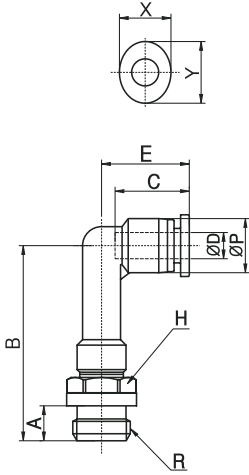
PLLP - Uzun Dirsek / Extended Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet / Kutu Qty / Box
PLLP 04-M5	4	M5	10.4	4	26.4	16	18.1	8	10	12	2	4.2	100
PLLP 04-M6		M6	10.4	5	26.4	16	18.1	10	10	12	3	6.5	100
PLLP 04-01		G1/8	10.4	8	25.5	16	18.1	10	10	12	3	10.8	50
PLLP 04-02		G1/4	10.4	11	25.5	16	18.1	14	10	12	3	18.7	50
PLLP 04-03		G3/8	10.4	12	26	16	18.1	17	10	12	3	28.5	50
PLLP 06-M5	6	M5	12.8	4	34.6	17	20.1	12	12	14	2	11.3	50
PLLP 06-M6		M6	12.8	5	34.6	17	20.1	12	12	14	4	13	50
PLLP 06-01		G1/8	12.8	8	33.2	17	20.1	12	12	14	4	14.3	50
PLLP 06-02		G1/4	12.8	11	33.2	17	20.1	14	12	14	4	20.4	50
PLLP 06-03		G3/8	12.8	12	33.7	17	20.1	17	12	14	4	31.7	50
PLLP 06-04	G1/2	12.8	15	35.7	17	20.1	21	12	14	4	58.3	25	
PLLP 08-01	8	G1/8	14.4	8	37.7	18.5	22.7	14	14	16	6	17.5	50
PLLP 08-02		G1/4	14.4	11	37.7	18.5	22.7	14	14	16	6	23.4	50
PLLP 08-03		G3/8	14.4	12	38.2	18.5	22.7	17	14	16	6	33.3	25
PLLP 08-04		G1/2	14.4	15	40.2	18.5	22.7	21	14	16	6	56.3	20
PLLP 10-01	10	G1/8	17.6	8	43.7	21	26.1	17	17	19	6	26.4	25
PLLP 10-02		G1/4	17.6	11	43.7	21	26.1	17	17	19	8	30.8	25
PLLP 10-03		G3/8	17.6	12	43.7	21	26.1	17	17	19	8	37	25
PLLP 10-04		G1/2	17.6	15	45.7	21	26.1	21	17	19	8	61.4	20
PLLP 12-01	12	G1/8	21	8	51.5	22.5	29.3	19	21	23	5	35	25
PLLP 12-02		G1/4	21	11	51.5	22.5	29.3	19	21	23	9	39.6	25
PLLP 12-03		G3/8	21	12	51.5	22.5	29.3	19	21	23	10	45	20
PLLP 12-04		G1/2	21	15	52.5	22.5	29.3	21	21	23	10	64.9	20

Teknik Çizim / Technical Drawing



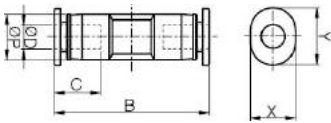
PUC - Nipel Bağlantı / Union Straight



Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUC 04	4	10	33.4	16	10	12	3	4.5	100
PUC 06	6	12.4	35.4	17	12	14	5	5.6	50
PUC 08	8	14.4	39	18.5	14	16	7	7.7	50
PUC 10	10	17.6	43	21	17	19	8	13.4	50
PUC 12	12	21.2	47	22.5	21	23	10	18.8	25
PUC 16	16	25.6	62.2	24.8	24	27	13	35.3	20

Teknik Çizim / Technical Drawing



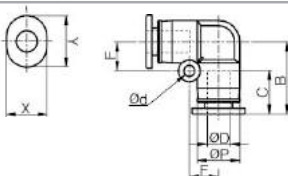
PUL - Dirsek / Union Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	E	C	F	Ød	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUL 04	4	10	18.7	16	6	2.2	10	12	3	4.7	100
PUL 06	6	12.4	20.4	17	8	3.2	12	14	5	6.2	50
PUL 08	8	14.4	22.8	18.5	10	4.2	14	16	7	8.7	50
PUL 10	10	17.6	26.1	21	12	4.2	17	19	8	15.1	25
PUL 12	12	21.2	29	22.5	14	4.2	21	23	10	20.7	25
PUL 16	16	25.6	31.1	24.8	16.3	5.3	24	27	13	36.5	20

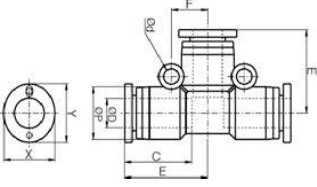
Teknik Çizim / Technical Drawing



PUT - Te Bağlantı / Union Tee



Teknik Çizim / Technical Drawing



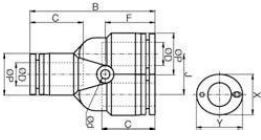
Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	E	C	F	Ød	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUT 04	4	10	18.5	16	6	2.2	10	12	3	7	100
PUT 06	6	12.4	20.4	17	8	3.2	12	14	5	9.4	50
PUT 08	8	14.4	22.8	18.5	9	4.2	14	16	7	12.6	50
PUT 10	10	17.6	26.1	21	12	4.2	17	19	8	22.1	25
PUT 12	12	21.2	29	22.5	14	4.2	21	23	10	30.7	20
PUT 16	16	25.6	31.1	24.8	16.6	5.3	24	27	13	52.3	16

PY - Ye Bağlantı / Union Y



Teknik Çizim / Technical Drawing



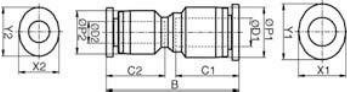
Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C	Ød	J	F	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PY 04	4	10	35.9	16	2.2	9.6	15.2	10	12	3	7	100
PY 06	6	12.4	39.4	17	3.2	12	17	12	14	5	9.1	50
PY 08	8	14.4	43.5	18.5	3.2	14	17.3	14	16	7	13	50
PY 10	10	17.6	50	21	4.2	18	21.5	17	19	8	22.6	25
PY 12	12	21.2	53	22.5	4.2	20.8	21	21	23	10	30.5	20

PG - Redüksiyon Tipi Nipel / Reducer



Teknik Çizim / Technical Drawing



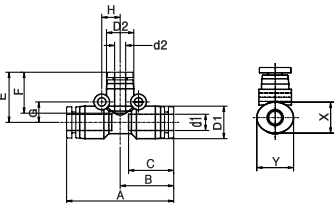
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØP1	B	C1	ØD2	ØP2	C2	X1	Y1	X2	Y2	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PG 06-04	6	12.4	34.9	17	4	10	16	12	14	10	12	3	5.2	100
PG 08-04	8	14.4	37.2	18.5	4	12.4	17	14	16	10	12	3	13.1	50
PG 08-06	8	14.4	37.2	18.5	6	12.4	17	14	16	12	14	5	6.9	50
PG 10-06	10	19.6	41	21	6	14.4	18.5	17	19	12	14	5	20.2	50
PG 10-08	10	19.6	41	21	8	14.4	18.5	17	19	14	16	7	10.9	50
PG 12-08	12	21.2	45	22.5	8	17.6	21	21	23	14	16	7	28.9	25
PG 12-10	12	21.2	45	22.5	10	17.6	21	21	23	17	19	8	16.4	25
PG 16-12	16	25.6	51.8	24.8	12	21.2	22.5	24	27	21	23	10	27.2	20

PUG - Değişik Çaplı Te Bağlantı / Different Dia of Union Tee



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	D1	d1	D2	d2	A	B	C	E	F	G	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUG 06-04	12.4	6	10.4	4	40.8	20.4	17	19.1	15.6	7.8	7.0	12	14	3	9	50
PUG 08-04	14.4	8	12.4	4	45.4	22.7	18.5	21	17.2	8.6	8.2	12	16	4	15.2	50
PUG 08-06	14.4	8	12.4	6	45.4	22.7	18.5	21.7	17.2	8.6	8.2	14	16	5	12	50
PUG 10-06	17.6	10	14.4	6	52.2	26.1	21	23.7	18.4	10.8	9.4	14	19	6	23.7	25
PUG 10-08	17.6	10	14.4	8	52.2	26.1	21	23.4	18.4	10.8	9.4	17	19	7	20	25
PUG 12-08	21.2	12	17.4	8	58.6	29.3	22.5	26	21	13	11.5	17	23	8	34.4	20
PUG 12-10	21.2	12	17.4	10	58.6	29.3	22.5	27.1	21	13	11.5	21	23	8	28	20

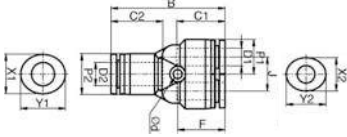
PW - Redüksiyon Tip Ye Bağlantı / Reducer Y



Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	Ød	J	F	X1	Y1	X2	Y2	Orifs (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PW 06-04	4	6	10.4	12.4	26.9	16	17	2.2	9.3	15.2	12	14	10	12	3	7.6	100
PW 08-04	4	8	12.4	14.4	40.7	17	18.5	3.2	12	16.2	14	16	10	12	3	14.3	50
PW 08-06	6	8	12.4	14.4	40.7	17	18.5	3.2	12	16.9	14	16	12	14	5	10.1	50
PW 10-06	6	10	14.4	17.6	49.5	18.5	21	4.2	14	19.2	17	19	12	14	5	22.8	25
PW 10-08	8	10	14.4	17.6	49.5	18.5	21	4.2	14	20	17	19	14	16	7	16.4	25
PW 12-08	8	12	19.6	21.2	53.5	21	22.5	4.2	16	20.4	23	17	14	16	7	33.1	25
PW 12-10	10	12	19.6	21.2	53.5	21	22.5	4.2	16	21.5	21	23	17	19	8	25.5	25

Teknik Çizim / Technical Drawing



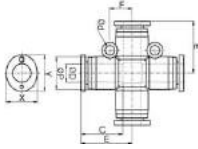
PZA - Kruva / Union Cross



Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	E	C	F	Ød	X	Y	Orifs (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PZA 04	4	10	18.7	16	6	2.2	10	12	3	9	50
PZA 06	6	12.4	20.4	17	8	3.2	12	14	5	11.9	50
PZA 08	8	14.4	22.8	18.5	9	4.2	14	16	7	16.2	25
PZA 10	10	17.6	26.1	21	12	4.2	17	19	8	28.8	25
PZA 12	12	21.2	29.3	22.5	14	4.2	21	23	10	40.5	15

Teknik Çizim / Technical Drawing



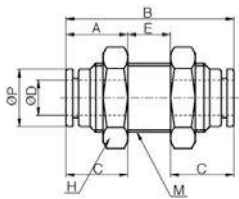
PMM - Perde Geçiş Bağlantı / Bulkhead Union



Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	A	B	C	E	H	ØP	Orifs (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PMM 04	4	M12 X 1.0P	10.2	33.4	16	13	14	10	3	18	100
PMM 06	6	M14 X 1.0P	10.7	35.9	17	14.5	17	12	5	25.3	50
PMM 08	8	M16 X 1.0P	12.3	38.5	18.5	13.9	19	14	7	33.9	50
PMM 10	10	M20 X 1.0P	13	43.5	21	17.5	24	17	9	59.2	25
PMM 12	12	M22 X 1.0P	12.6	46.2	22	21	26	20	10	78.1	25

Teknik Çizim / Technical Drawing



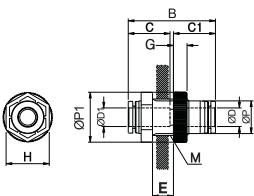
PPM - Perde Geçiş Bağlantı (Plastik) / Bulkhead Union P



Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØD1	M	PANEL	C	C1	B	ØP	ØP1	E (Min)	E (Max)	H	G	Orifs (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PPM 04	4	4	M12 X 1.5P	12.5	15.6	16	32.2	10.4	16	1	7.8	14	5	3	7	100
PPM 06	6	6	M14 X 1.5P	14.5	17.2	17	36	12.4	18	1	9.2	17	5	5	9.5	50
PPM 08	8	8	M16 X 1.5P	16.5	18.4	18.5	38.4	14.4	22	1	9.2	19	6	7	13.5	50
PPM 10	10	10	M20 X 2.0P	20.5	21	21	43.6	17.6	28	1	10.8	24	6	8	23	25
PPM 12	12	12	M24 X 2.0P	24.5	22.5	22.5	47.6	21.2	31	1	16.2	27	6	10	31	25

Teknik Çizim / Technical Drawing



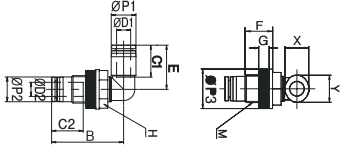
PLM - Perde Geçiş Dirsek Bağlantı / Bulkhead Union P



Ölçü Tablosu / Dimension Chart

MODEL	ØP1	ØD1	ØP2	ØD2	E	C1	C2	B	F	G	H	ØP3	M	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLM 04	10.4	4	10.4	4	19.8	15.6	16	33.6	16.6	5	14	17	M12X1.5P	10	12	3	11	100
PLM 06	12.4	6	12.4	6	17.2	23	17	37.9	15	5	17	20.5	M14X1.5P	12	14	5	12.5	50
PLM 08	17.4	8	17.4	8	25.7	18.6	18.5	41.9	16	6	19	23	M16X1.5P	14	16	7	18.5	50
PLM 10	17.6	10	17.6	10	30.3	21.4	21	47.6	18	6	24	29	M20X2.0P	17	19	8	29	25
PLM 12	21.2	12	21.2	12	32.7	23.3	22.5	53.8	20	6	27	32	M24X2.0P	21	23	10	40	25

Teknik Çizim / Technical Drawing



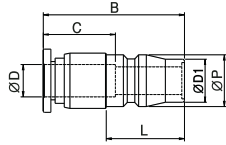
PCP - Soket Rekor / Straight Ace Coupler Plug



Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØD1	ØP	B	L	C	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCP 04	4	10.9	13.1	32.6	20.5	16	3	20	100
PCP 06	6	10.9	13.1	33.5	20.5	17	5	19	100
PCP 08	8	10.9	13.1	37	20.5	18.5	7	20	100
PCP 10	10	10.9	13.1	44	20.5	21	8	29	50
PCP 12	12	10.9	13.1	47.2	20.5	22.5	10	44	50
PCP 16	16	10.9	13.1	50.2	20.5	25.5	13	52	25

Teknik Çizim / Technical Drawing



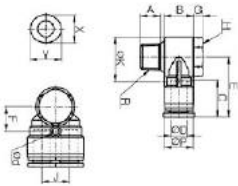
PA - İkili Döner Dirsek (Erkek) / Dual Male Banjo



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	A	B	C	E	H	ØK	G	F	J	Ød	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PA 04-M5	4	M5	10.4	5.5	8.9	16	20.9	8	10	3	0	10	0	10	12	2	9.2	50
PA 06-01	6	G1/8	12.4	8	14	17	26.7	14	15.5	4	11	12	3.2	12	14	4	25.8	50
PA 08-02	8	G1/4	14.4	11	15	18.5	30.2	17	20	4.5	12	14	3.2	14	16	5.5	46.6	25
PA 10-02	10	G1/4	17.6	11	15	20	32	17	20	4.5	12.5	17	4.4	17	19	8	72	20
PA 10-03	10	G3/8	17.6	12	18	21	34.3	22	23	5	15	17	4.4	17	19	8	76.7	20
PA 12-04	12	G1/2	21	15	21	22.5	38.3	24	30	5	17	20	4.4	23	21	9	118	10

Teknik Çizim / Technical Drawing



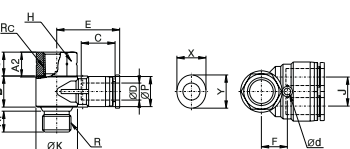
PAF- Büyük İkili Döner Dirsek (Dişi) / Dual Female Banjo



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	Rc	ØP	A1	A2	B	C	E	H	ØK	G	F	J	Ød	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PAF 04-M5	4	M5	M5	10.4	5.5	5	8.9	16	20.9	8	10	6.5	10	10	3.2	10	12	2	9.9	50
PAF 06-G01	6	G1/8	G1/8	12.4	8	9	14	17	26.7	14	15.5	9.5	11	12	3.2	12	14	4	27.5	50
PAF 08-G02	8	G1/4	G1/4	14.4	11	12	15	18.5	30.2	17	20	11.5	12.5	14	3.2	14	16	5.5	47.2	25
PAF 10-G03	10	G3/8	G3/8	17.6	12	13	18	21	34.3	22	23	13.5	15	17	4.4	17	19	8	80.8	15
PAF 12-G04	12	G1/2	G1/2	21	15	16	21	22.5	38.3	24	30	17	17	20	4.4	21	23	9	118.2	10

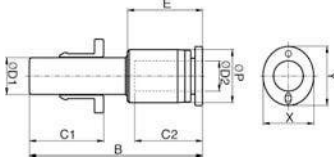
Teknik Çizim / Technical Drawing



PGJ - Boru Girişli Düşürücü / Plug-In Reducer



Teknik Çizim / Technical Drawing



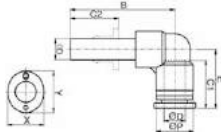
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGJ 06-04	6	4	10	41.2	17	16	18.2	10	12	3	3.2	100
PGJ 08-04	8	4	10	43.2	18.5	16	18.2	10	12	3	3.8	100
PGJ 08-06		6	12.4	44.2	18.5	17	19.2	12	14	5	4.2	50
PGJ 10-06	10	6	12.4	46.2	21	17	19.2	12	14	5	4.9	50
PGJ 10-08		8	14.4	47.5	21	18.5	20.5	14	16	7	6.1	50
PGJ 12-06	12	6	12.4	48.2	22.5	17	19.2	12	14	5	5.9	25
PGJ 12-08		8	14.4	49.5	22.5	18.5	20.5	14	16	7	7	25
PGJ 12-10		10	17.6	52.4	22.5	21	23	17	19	8	9.9	25

PLJ - Boru Girişli Dirsek / Plug-In Elbow



Teknik Çizim / Technical Drawing



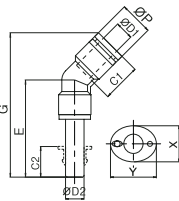
Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C1	E	C2	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLJ 04	4	10.4	30.6	16	18.7	16	10	12	3	4.7	100
PLJ 06	6	12.4	35	17	21.1	17	12	14	5	5.4	50
PLJ 08	8	14.4	40	18.5	22.8	18.5	14	16	7	8	50
PLJ 10	10	17.6	48	21	26.1	21	17	19	8	15	50
PLJ 12	12	21	82	22.5	24.3	22.5	21	23	10	21.4	25
PLJ 16	16	25.6	58.3	24.8	33.5	24.8	24	27	13	23.2	20

PLJ45 - Boru Girişli 45° Dirsek / Plug-In Extended Elbow



Teknik Çizim / Technical Drawing



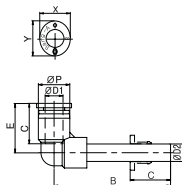
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	E	C1	C2	G	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLJ45 04	4	4	10.4	32.6	16	16	45.36	10	12	3	6.5	100
PLJ45 06	6	6	12.8	37	17	17	51.18	12	14	5	8.9	50
PLJ45 08	8	8	14.4	42	18.5	18.5	58.03	14	16	7	12.2	50
PLJ45 10	10	10	17.6	48	21	21	66.35	17	19	8	19.8	50
PLJ45 12	12	12	21	53.9	22.5	22.5	74.57	21	23	10	31.2	25

PLLJ - Boru Girişli Dirsek (Uzun) / Plug-In Extended Elbow



Teknik Çizim / Technical Drawing



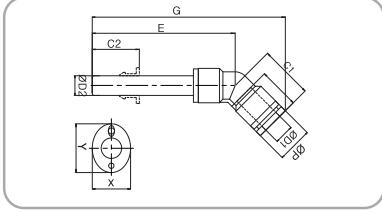
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C	E	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLLJ 04	4	4	10.4	39.3	16	18.7	10	12	3	4	100
PLLJ 06	6	6	12.4	49.8	17	21.1	12	14	5	5.5	50
PLLJ 08	8	8	14.4	54	18.5	22.8	14	16	7	8.5	50
PLLJ 10	10	10	17.6	62	21	26.1	17	19	8	13.5	25
PLLJ 12	12	12	21.2	68.5	22.5	29.3	21	23	10	19.2	25
PLLJ 16	16	16	25.6	59.8	24.8	33.5	24	27	13	22.3	20

PLLJ45 - Boru Girişli 45° Dirsek (Uzun) / Plug-In Reducer Elbow



Teknik Çizim / Technical Drawing



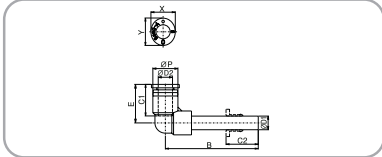
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	E	C1	C2	G	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLLJ45 04	4	4	10.4	43.6	16	16	56.36	10	12	3	6.9	100
PLLJ45 06	6	6	12.8	47.5	17	17	61.68	12	14	5	9.3	50
PLLJ45 08	8	8	14.4	54.5	18.5	18.5	70.53	14	16	7	12.9	50
PLLJ45 10	10	10	17.6	62	21	21	80.35	17	19	8	20.9	25
PLLJ45 12	12	12	21	69.9	22.5	22.5	90.57	21	23	10	32.8	25

PLGJ - Boru Girişli Düşürücü Dirsek / Plug-In Reducer Elbow



Teknik Çizim / Technical Drawing



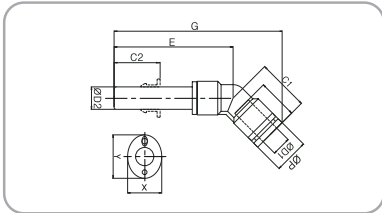
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLGJ 06-04	6	4	10.4	33.3	17	16	18.7	10	12	3	5.5	50
PLGJ 08-06	8	6	12.4	41.3	18.5	17	21.1	12	14	5	7	50
PLGJ 10-08	10	8	14.4	43.6	21	18.5	22.8	14	16	7	11	25
PLGJ 12-10	12	10	17.6	52	23.5	21	26.1	17	19	8	17	25

PLGJ45 - Boru Girişli Düşürücü 45° Dirsek / Plug-In Reducer Elbow



Teknik Çizim / Technical Drawing



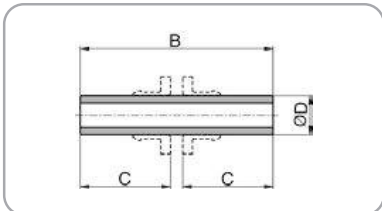
Ölçü Tablosu / Dimension Chart

MODEL	D2	D1	ØP	E	C1	C2	G	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLGJ45 06-04	6	4	10.4	37.6	16	16	50.36	10	12	3	6.7	50
PLGJ45 08-06	8	6	12.8	39	17	17	53.18	12	14	5	9.2	50
PLGJ45 10-08	10	8	14.4	44	18.5	18.5	60.03	14	16	7	12.6	25
PLGJ45 12-10	12	10	17.6	52	21	21	70.35	17	19	8	20.5	25

PIJ - Boru Bağlantı / Tube Splicer



Teknik Çizim / Technical Drawing



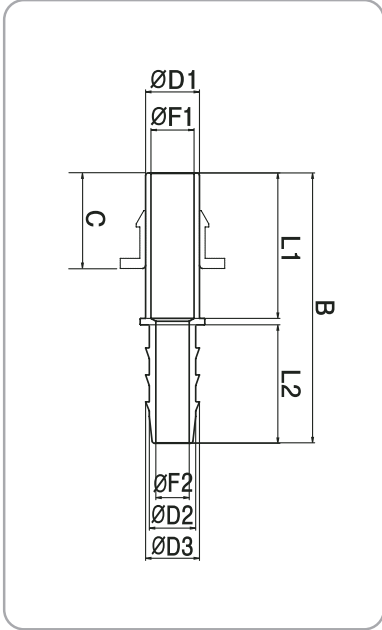
Ölçü Tablosu / Dimension Chart

MODEL	ØD	B	C	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PIJ 04	4	35	16	2	0.5	100
PIJ 06	6	37	17	4	0.9	100
PIJ 08	8	39.5	18.5	5	1.7	50
PIJ 10	10	46	21	6.5	3	50
PIJ 12	12	50	22.5	8	4.4	50
PIJ 16	16	54	24.8	13	8.5	50

PJH - Uzun Boru Bağlantı / Extended Tube Splicer



Teknik Çizim / Technical Drawing



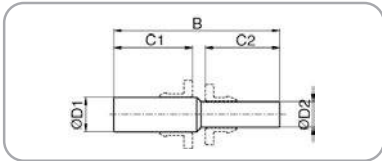
Ölçü Tablosu / Dimension Chart

MODEL	B	C	ØD1	ØD2	ØD3	ØF1	ØF2	L1	L2	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PJH 04 -04	36	16	4	4.8	5.9	2	2	18	17	0.9	100
PJH 04 -05	36	16	4	6	6.9	2	4.2	18	17	0.8	100
PJH 06 -05	41	17	6	5.9	6.9	4	4	23	17	1.1	100
PJH 06 -06	41	17	6	6.8	7.9	4	4	23	17	1.4	100
PJH 08 -06	43	18.5	8	6.8	7.9	6	4	25	17	1.7	100
PJH 08 -08	48.2	18.5	8	8.6	10	6	6	25	22	2.3	100
PJH 10 -08	50.2	21	10	8.6	10	8	6.2	27	22	2.7	100
PJH 12 -08	54.2	22.5	12	8.6	10	10	6.2	31	22	2.8	100
PJH 12 -10	54.7	22.5	12	10.6	12	10	8	31	22.5	3.1	50
PJH 12 -13	55	22.5	12	13.5	15	10	10	31	22.5	5	50
PJH 14 -14	59.5	24.5	14	14.7	16	12	10	35.5	22.5	5.8	50
PJH 04-1/8	36	16	4	3.8	5	2	2	17	17	0.5	100
PJH 08-1/4	43	18.5	8	7.3	8.5	6	4.6	24	17	1.7	100
PJH 10-1/4	45.2	21	10	7.3	8.5	8	4.6	26	17	2.3	100
PJH 12-1/2	55	22.5	12	13.2	14.5	10	10	30	22.5	4.7	50
PJH 14-1/2	59.5	24.5	14	13.2	14.5	12	10	34.5	22.5	4.8	50

PIG - Düşürücü Boru Bağlantı / Reducer Tube Splicer



Teknik Çizim / Technical Drawing



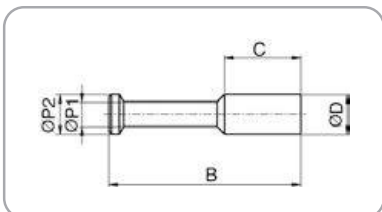
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	B	C1	C2	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PIG 06-04	6	4	36	17	16	2	0.7	100
PIG 08-04	8	4	38	18.9	18	2	0.9	100
PIG 08-06	8	6	39	18.5	17	4	1.5	100
PIG 10-06	10	6	42	21.9	19	4	1.6	100
PIG 10-08	10	8	43	21	18.5	5	2.8	100
PIG 12-08	12	8	45	23.9	20	5	2.6	50
PIG 12-10	12	10	48	22.5	21	5.5	4.9	50
PIG 16-12	16	12	54	24.8	22.5	9	8.2	50

PP - Kör Tapa / Plug



Teknik Çizim / Technical Drawing



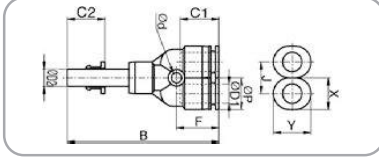
Ölçü Tablosu / Dimension Chart

MODEL	ØD	B	ØP1	ØP2	C	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PP 04	4	28	3	4	16	0.4	100
PP 06	6	32	4	6	17	0.7	100
PP 08	8	39	5	8	18.5	1.4	100
PP 10	10	42	8	10	21	2	50
PP 12	12	44	8	12	22.5	3.6	50
PP 16	16	46	10	16	24.8	4	25

PYJ - Boru Girişli Y / Plug-In Y



Teknik Çizim / Technical Drawing



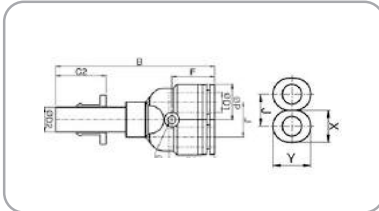
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C1	C2	Ød	J	F	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PYJ 04	4	4	10.4	48.8	16	16	2.2	9.6	15.2	10	12	3	7.2	100
PYJ 06	6	6	12.4	54.7	17	17	3.2	12	16.9	12	14	5	8.5	50
PYJ 08	8	8	14.4	60.8	18.5	18.5	3.2	14	20.2	14	16	7	12.3	50
PYJ 10	10	10	17.6	71.2	21	21	4.2	18	21.5	17	19	8	23.1	25
PYJ 12	12	12	21.2	75.7	22.5	22.5	4.2	20.8	21.5	21	23	10	30.8	20

PWJ - Boru Girişli Düşürücü Y / Plug-In Reducer Y



Teknik Çizim / Technical Drawing



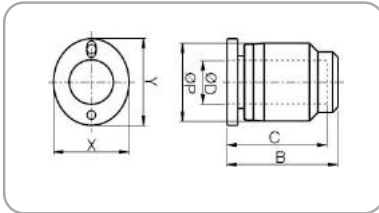
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C1	C2	Ød	J	F	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PWJ 06-04	4	6	10.4	55.2	16	17	2.2	9.6	16.2	10	12	3	7.3	50
PWJ 08-06	6	8	12.4	58.7	17	18.5	3.2	12	16.9	12	14	5	9.2	50
PWJ 10-08	8	10	14.4	64.7	18.5	21	3.2	14	17.2	14	16	7	13.4	50
PWJ 12-10	10	12	17.6	75.2	21	22.5	4.2	18	21.6	17	19	8	24.1	20

PPF - Dişi Kör Tapa / Cap



Teknik Çizim / Technical Drawing



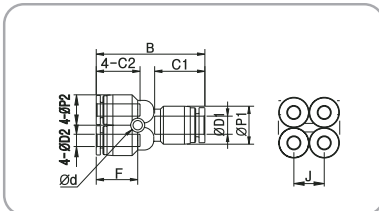
Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PPF 04	4	10	17.7	16	10	12	2.2	100
PPF 06	6	12.4	18.7	17	12	14	3	100
PPF 08	8	14.4	20.5	18.5	14	16	4.1	100
PPF 10	10	17.6	23.5	21	17	19	7.2	50
PPF 12	12	21.2	25.5	22.5	21	23	9.8	50

PXG - Hortum Girişli Dörtlü Düşürücü Y/ Reducer Double Y Union



Teknik Çizim / Technical Drawing



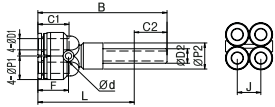
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	B	ØP1	ØP2	C1	C2	J	Ød	F	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PXG 06-04	6	4	37.2	13	10.4	17	16	10.4	3.2	14.2	2	12.8	25
PXG 08-06	8	6	40.6	14.4	13	18.5	17	13	3.5	16.9	3.5	17.5	25

PXJ - Boru Girişli Dörtlü Düşürücü Y / Reducer Double Y



Teknik Çizim / Technical Drawing



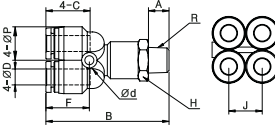
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	B	L	ØP1	ØP2	C1	C2	J	Ød	F	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PXJ 06-04	4	6	55.2	43.6	10.4	13	16	11.6	10.4	3.2	14.2	2	12.8	25
PXJ 08-06	6	8	60.9	48	13	14.4	17	12.9	13	3.5	16.9	3.5	17.5	25

PXT - Dişli Dörtlü Y/ Male Double Y



Teknik Çizim / Technical Drawing



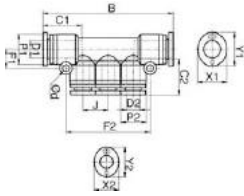
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	B	C1	C2	Ød	J	F	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PYJ 04	4	4	10.4	48.8	16	16	2.2	9.6	15.2	10	12	3	7.2	100
PYJ 06	6	6	12.4	54.7	17	17	3.2	12	16.9	12	14	5	8.5	50
PYJ 08	8	8	14.4	60.8	18.5	18.5	3.2	14	20.2	14	16	7	12.3	50
PYJ 10	10	10	17.6	71.2	21	21	4.2	18	21.5	17	19	8	23.1	25
PYJ 12	12	12	21.2	75.7	22.5	22.5	4.2	20.8	21.5	21	23	10	30.8	20

PKG - Hortum Girişli Üçlü Dağıtıcı / Reducer Triple Branch Union



Teknik Çizim / Technical Drawing



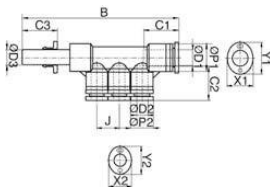
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	B	C1	C2	ØP1	ØP2	J	F1	F2	Ød	X1	Y1	X2	Y2	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PKG 06-04	6	4	59.4	17	16	12.4	10.4	10	8	34	3.2	12	14	10	12	3	13.7	
PKG 08-04	8	4	62	18.5	16	14.4	10.4	10	9	34	3.2	14	16	10	12	3	16.8	
PKG 08-06	8	6	62	18.5	17	14.4	12.4	12	9	40	3.2	14	16	12	14	5	18.6	
PKG 10-06	10	6	79.2	21	17	17.6	12.4	12	10.5	42	4.2	17	19	12	14	5	27.6	
PKG 10-08	10	8	79.2	21	18.5	17.6	14.4	14	10.5	48	4.2	17	19	14	16	7	31.2	

PKJ - Boru Girişli Üçlü Dağıtıcı / Plug-in Reducer Triple Branch



Teknik Çizim / Technical Drawing



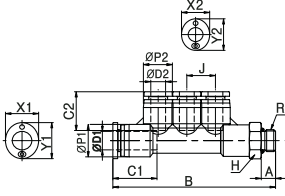
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØD3	B	C1	C2	C3	ØP1	ØP2	J	X1	Y1	X2	Y2	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PKJ 06-04	6	4	6	75.7	17	16	17	12.4	10.4	10	12	14	10	12	3	12.9	25
PKJ 08-04	8	4	8	79.9	18.5	16	18.5	14.4	10.4	10	14	16	10	12	3	15.8	25
PKJ 08-06	8	6	8	82.2	18.5	17	18.5	14.4	12.4	12	14	16	12	14	5	17.3	25
PKJ 10-06	10	6	10	98.3	21	17	21	17.6	12.4	12	17	19	12	14	5	20	20
PKJ 10-08	10	8	10	102.6	21	18.5	21	17.6	14.4	14	17	19	14	16	7	30.2	20

PKD-Dışlı Üçlü Dağıtıcı / Male Reducer Triple Branch



Teknik Çizim / Technical Drawing



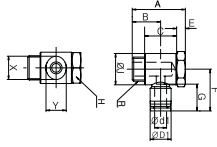
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	R	B	C1	C2	ØP1	ØP2	J	A	H	X1	Y1	X2	Y2	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PKD 06-04-01	6	4	G1/8	65.7	17	16	12.4	10.4	10	6	12	12	14	10	12	3	20.4	25
PKD 06-04-02	6	4	G1/4	76	17	16	12.4	10.4	10	11	12	12	14	10	12	3	27	25
PKD 08-04-02	8	4	G1/4	70.9	18.5	16	14.4	10.4	10	11	14	14	16	10	12	3	31.2	25
PKD 08-06-02	8	6	G1/4	76	18.5	17	14.4	12.4	12	11	14	14	16	12	14	5	32.6	25
PKD 08-06-03	8	6	G3/8	74.2	18.5	17	14.4	12.4	12	12	17	14	16	12	14	5	39.9	25
PKD 10-08-03	10	8	G3/8	92.1	21	18.5	17.6	14.4	14	12	17	17	19	14	16	7	55	20

PGL(D1) - Kısa Döner Dirsek / Single Universal Elbow



Teknik Çizim / Technical Drawing



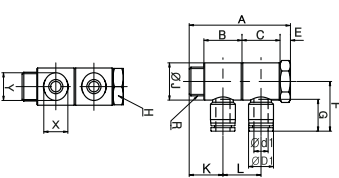
Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	E	F	G	H	ØJ	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGL 04-01(1)	G1/8	26.5	14	17	10.4	4	4	23.3	16	14	15	10	12	3	14.7	50
PGL 06-01(1)	G1/8	26.5	14	17	12.4	6	4	24.8	17	14	15	12	14	5	15.5	50
PGL 06-02(1)	G1/4	32	17.5	19	12.4	6	5	25.9	17	17	18	12	14	5	28.4	50
PGL 08-01(1)	G1/8	26.5	14	17	14.4	8	4	26.3	18.5	14	15	14	16	7	16.4	50
PGL 08-02(1)	G1/4	32	17.5	19	14.4	8	5	26.3	18.5	17	18	14	16	7	29.8	25
PGL 08-03(1)	G3/8	36.5	19.5	22	14.4	8	6	26.3	18.5	21	21.5	14	16	7	52.8	25
PGL 10-02(1)	G1/4	32	17.5	19	17.6	10	5	29.8	21	17	18	17	19	8	32.5	25
PGL 10-03(1)	G3/8	36.5	19.5	22	17.6	10	6	29.8	21	21	21.5	17	19	8	54.7	25
PGL 12-03(1)	G3/8	36.5	19.5	22	21.2	12	6	33.3	22.5	21	21.5	21	23	10	57.7	20
PGL 12-04(1)	G1/2	40.5	22.5	24	21.2	12	6	33.3	22.5	24	26	21	23	10	92.9	20

PGL(D2) - İkili Kısa Döner Dirsek / Double Universal Elbow



Teknik Çizim / Technical Drawing



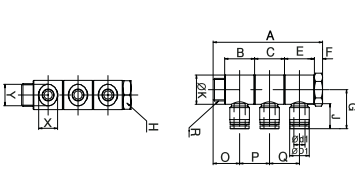
Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	E	F	G	H	ØJ	K	L	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGL 04-01(2)	G1/8	43.5	17	17	10.4	4	4	23.3	16	14	15	14	17	10	12	3	28.5	25
PGL 06-01(2)	G1/8	43.5	17	17	12.4	6	4	24.8	17	14	15	14	17	12	14	5	30.5	25
PGL 06-02(2)	G1/4	46	19	19	12.4	6	5	25.9	17	17	18	17.5	19	12	14	5	33	25
PGL 08-01(2)	G1/8	43.5	17	17	14.4	8	4	26.3	18.5	14	15	14	17	14	16	7	44.5	20
PGL 08-02(2)	G1/4	46	19	19	14.4	8	5	26.3	18.5	17	18	17.5	19	14	16	7	47.5	20
PGL 08-03(2)	G3/8	58.5	20	20	14.4	8	6	26.3	18.5	21	21.5	19.5	22	14	16	7	52.5	20
PGL 10-02(2)	G1/4	46	19	19	17.6	10	5	29.8	21	17	18	17.5	19	17	19	8	80	20
PGL 10-03(2)	G3/8	58.5	22	22	17.6	10	6	29.8	21	21	21.5	19.5	22	17	19	8	91	20
PGL 12-03(2)	G3/8	58.5	22.4	22.4	21.2	12	6	33.3	22.5	21	21.5	19.5	22	21	23	10	152	20
PGL 12-04(2)	G1/2	64.5	24	24	21.2	12	6	33.3	22.5	24	26	22.5	24	21	23	10	159	20

PGL(3) - Üçlü Kısa Döner Dirsek / Triple Universal Elbow



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	E	F	G	H	J	ØK	O	P	Q	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGL 04-01(3)	G1/8	60.5	17	17	10.4	4	17	4	23.3	14	16	15	14	17	17	10	12	3	36.5	25
PGL 06-01(3)	G1/8	60.5	17	17	12.4	6	17	4	24.8	14	17	15	14	17	17	12	14	5	39	25
PGL 06-02(3)	G1/4	70	19	19	12.4	6	19	5	25.9	17	17	18	17.5	19	19	12	14	5	42	20
PGL 08-01(3)	G1/8	60.5	17	17	14.4	8	17	4	26.3	14	18.5	15	14	17	17	14	16	7	57.5	15
PGL 08-02(3)	G1/4	70	19	19	14.4	8	19	5	26.3	17	18.5	18	17.5	19	19	14	16	7	60.5	15
PGL 08-03(3)	G3/8	80.5	22	22	14.4	8	22	6	26.3	21	18.5	21.5	19.5	22	22	14	16	7	65	15
PGL 10-02(3)	G1/4	70	19	19	17.6	10	19	5	29.8	17	21	18	17.5	19	19	17	19	8	107.5	15
PGL 10-03(3)	G3/8	80.5	22	22	17.6	10	22	6	29.8	21	21	21.5	19.5	22	22	17	19	8	114	15
PGL 12-03(3)	G3/8	80.5	22	22	21.2	12	22	6	33.3	21	22.5	21.5	19.5	22	22	21	23	10	187	12
PGL 12-04(3)	G1/2	88.5	24	24	22.2	12	24	6	33.3	24	22.5	26	22.5	24	24	21	23	10	195	12

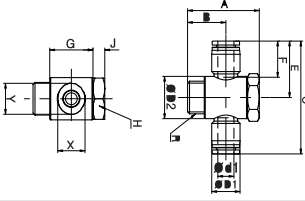
PGT(D1) - Kısa Döner T / Single Universal Tee



Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	ØD2	E	F	G	H	J	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGT 04-G01(1)	G1/8	26.5	14	46.8	10.4	4	15	23.3	16	17	14	4	10	12	3	28.5	25
PGT 06-G01(1)	G1/8	26.5	14	49.6	12.4	6	15	24.8	17	17	14	4	12	14	5	29.5	25
PGT 06-G02(1)	G1/4	32	17.5	51.8	12.4	6	18	25.9	17	19	17	5	12	14	5	31	25
PGT 08-G01(1)	G1/8	26.5	14	52.6	14.4	8	15	26.3	18.5	17	14	4	14	16	7	42.5	25
PGT 08-G02(1)	G1/4	32	17.5	52.6	14.4	8	18	26.3	18.5	19	17	5	14	16	7	45.5	25
PGT 08-G03(1)	G3/8	36.5	19.5	52.6	14.4	8	21.5	26.3	18.5	22	21	6	14	16	7	50.5	25
PGT 10-G02(1)	G1/4	32	17.5	59.6	17.6	10	18	29.8	21	19	17	5	17	19	8	83.5	25
PGT 10-G03(1)	G3/8	36.5	19.5	59.6	17.6	10	21.5	29.8	21	22	21	6	17	19	8	89.3	25
PGT 12-G03(1)	G3/8	36.5	19.5	66.6	21.2	12	21.5	33.3	22.5	22	21	6	21	23	10	142	20
PGT 12-G04(1)	G1/2	40.5	22.5	66.6	21.2	12	26	33.3	22.5	24	24	6	21	23	10	148	20

Teknik Çizim / Technical Drawing



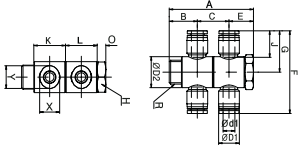
PGT(D2) - İkili Kısa Döner T / Double Universal Tee



Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	ØD2	E	F	G	H	J	K	L	O	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGT 04-G01(2)	G1/8	43.5	14	17	10.4	4	15	12.5	46.6	23.3	14	16	17	17	4	10	12	3	33	25
PGT 06-G01(2)	G1/8	43.5	14	17	12.4	6	15	12.5	49.6	24.8	14	17	17	17	4	12	14	5	37.5	25
PGT 06-G02(2)	G1/4	46	17.5	19	12.4	6	18	9.5	51.8	25.9	17	17	19	19	5	12	14	5	40	25
PGT 08-G01(2)	G1/8	43.5	14	17	14.4	8	15	12.5	52.6	26.3	14	18.5	17	17	4	14	16	7	53	25
PGT 08-G02(2)	G1/4	46	17.5	19	14.4	8	18	9.5	52.6	26.3	17	18.5	19	19	5	14	16	7	57	25
PGT 08-G03(2)	G3/8	58.5	19.5	22	14.4	8	21.5	17	52.6	26.3	21	18.5	22	22	6	14	16	7	62	12
PGT 10-G02(2)	G1/4	46	17.5	19	17.6	10	18	9.5	59.6	29.8	17	21	19	19	5	17	19	8	98	12
PGT 10-G03(2)	G3/8	58.5	19.5	22	17.6	10	21.5	17	59.6	29.8	21	21	22	22	6	17	19	8	104.5	12
PGT 12-G03(2)	G3/8	58.5	19.5	22	21.2	12	21.5	17	66.6	33.3	21	22.5	22	22	6	21	23	10	169	12
PGT 12-G04(2)	G1/2	64.5	22.5	24	22.2	12	26	18	66.6	33.3	24	22.5	24	24	6	21	23	10	177	12

Teknik Çizim / Technical Drawing



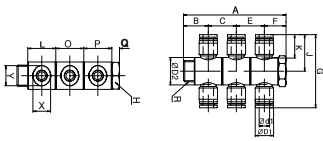
PGT(D3) - Üçlü Kısa Döner T / Triple Universal Tee



Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	ØD2	E	F	G	H	J	K	L	O	P	Q	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGT 04-G01(3)	G1/8	60.5	14	17	10.4	4	15	17	12.5	46.6	14	23.3	16	17	17	17	4	10	12	3	43.5	20
PGT 06-G01(3)	G1/8	60.5	14	17	12.4	6	15	17	12.5	49.6	14	24.8	17	17	17	17	4	12	14	5	49.5	20
PGT 06-G02(3)	G1/4	70	17.5	19	12.4	6	18	19	9.5	51.8	17	25.9	17	19	19	19	5	12	14	5	52.5	20
PGT 08-G01(3)	G1/8	60.5	14	17	14.4	8	15	17	12.5	52.6	14	26.3	18.5	17	17	17	4	14	16	7	71	16
PGT 08-G02(3)	G1/4	70	17.5	19	14.4	8	18	19	9.5	52.6	17	26.3	18.5	19	19	19	5	14	16	7	74	16
PGT 08-G03(3)	G3/8	80.5	19.5	22	14.4	8	21.5	22	17	52.6	21	26.3	18.5	22	22	22	6	14	16	7	79	9
PGT 10-G02(3)	G1/4	70	17.5	19	17.6	10	18	19	9.5	59.6	17	29.8	21	19	19	19	5	17	19	8	127.5	9
PGT 10-G03(3)	G3/8	80.5	19.5	22	17.6	10	21.5	22	17	59.6	21	29.8	21	22	22	22	6	17	19	8	134	9
PGT 12-G03(3)	G3/8	80.5	19.5	22	21.2	12	21.5	22	17	66.6	21	33.3	22.5	22	22	22	6	21	23	10	215	9
PGT 12-G04(3)	G1/2	88.5	22.5	24	22.2	12	26	24	18	66.6	24	33.3	22.5	24	24	24	6	21	23	10	222.5	9

Teknik Çizim / Technical Drawing



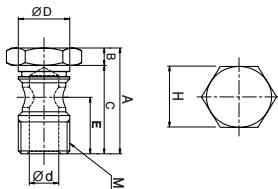
PGB(D1) - Tekli Döner Spul / Spool



Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	Ød	A	B	C	E	H	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGB G01(1)	9.7	G1/8	5	26.5	4	22.5	14	14	16.3	100
PGB G02(1)	13.1	G1/4	7	32	5	27	17.5	17	26.6	50
PGB G03(1)	16.6	G3/8	9.5	36.5	6	30.5	19.5	21	33.2	25
PGB G04(1)	20.9	G1/2	11.5	40.5	6	34.5	22.5	24	43.2	25

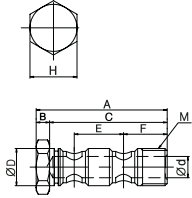
Teknik Çizim / Technical Drawing



PGB(D2) - İkilü Döner Spul / Double Spool



Teknik Çizim / Technical Drawing



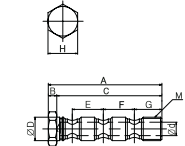
Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	Ød	A	B	C	E	F	H	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGB G01(2)	9.7	G1/8	5	43.5	4	39.5	17	14.0	14	33.5	50
PGB G02(2)	13.1	G1/4	7	51	5	46	19	17.5	17	36.5	50
PGB G03(2)	16.6	G3/8	9.5	58.5	6	52.5	22	19.5	21	39.5	25
PGB G04(2)	20.9	G1/2	11.5	64.5	6	58.5	24	22.5	24	42.5	20

PGB(D3) - Üçlü Döner Spul / Triple Spool



Teknik Çizim / Technical Drawing



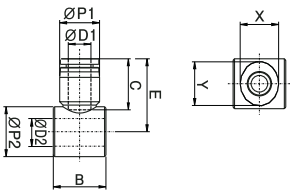
Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	Ød	A	B	C	E	F	G	H	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGB G01(3)	9.7	G1/8	5	60.5	4	56.5	17	17	14	14	36	50
PGB G02(3)	13.1	G1/4	7	70	5	65	19	19	17.5	17	39	25
PGB G03(3)	16.6	G3/8	9.5	80.5	6	74.5	22	22	19.5	21	42	20
PGB G04(3)	20.9	G1/2	11.5	88.5	6	82.5	24	24	22.5	24	44	20

PGL - Tekli Dirsek Gövdesi / Elbow Body



Teknik Çizim / Technical Drawing



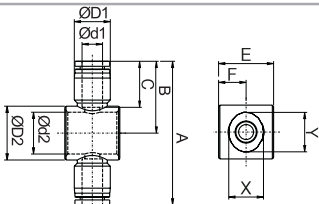
Ölçü Tablosu / Dimension Chart

MODEL	R	E	C	B	ØP1	ØD1	ØP2	ØD2	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGL 04-G01P	G1/8	19	16	17	10.4	4	15	9.8	10	12	2.2	25
PGL 06-G01P	G1/8	19.8	17	17	12.4	6	15	9.8	12	14	3	25
PGL 06-G02P	G1/4	20.9	17	19	12.4	6	18	13.2	12	14	3.5	25
PGL 08-G01P	G1/8	21.6	18.5	17	14.4	8	15	9.8	14	16	4.1	25
PGL 08-G02P	G1/4	21.6	18.5	19	14.4	8	18	13.2	14	16	4.5	25
PGL 08-G03P	G3/8	24	18.5	22	14.4	8	21.5	16.7	14	16	5.8	12
PGL 10-G02P	G1/4	24	21	19	17.6	10	18	13.2	17	19	7.2	12
PGL 10-G03P	G3/8	25.5	21	22	17.6	10	21.5	16.7	17	19	8.9	12
PGL 12-G03P	G3/8	28	22.5	22	21.2	12	21.5	16.7	21	23	9.8	12
PGL 12-G04P	G1/2	30.3	22.5	24	21.2	12	26	21	21	23	12	12

PGT - Tekli T Gövdesi / Tee Body



Teknik Çizim / Technical Drawing



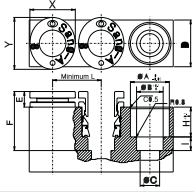
Ölçü Tablosu / Dimension Chart

MODEL	R	A	B	C	ØD1	Ød1	ØD2	Ød2	E	F	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGT 04-G01P	G1/8	38	19	16	10.4	4	15	9.8	17	8.5	10	12	4.5	50
PGT 06-G01P	G1/8	39.9	19.8	17	12.4	6	15	9.8	17	8.5	12	14	5.6	50
PGT 06-G02P	G1/4	41.8	20.9	17	12.4	6	18	13.2	19	9.5	12	14	6.5	50
PGT 08-G01P	G1/8	43.2	21.6	18.5	14.4	8	15	9.8	17	8.5	14	16	7.7	50
PGT 08-G02P	G1/4	43.2	21.6	18.5	14.4	8	18	13.2	19	9.5	14	16	9	50
PGT 08-G03P	G3/8	48	24	18.5	14.4	8	21.5	16.7	22	11	14	16	11	25
PGT 10-G02P	G1/4	48	24	21	17.6	10	18	13.2	19	9.5	17	19	13.4	25
PGT 10-G03P	G3/8	51	25.5	21	17.6	10	21.5	16.7	22	11	17	19	15.4	25
PGT 12-G03P	G3/8	56	28	22.5	21.2	12	21.5	16.7	22	11	21	23	18.8	25
PGT 12-G04P	G1/2	60	30	22.5	21.2	12	26	21	24	12	21	23	20.2	20

CAS - Kartuş / Insert-Tube



Teknik Çizim / Technical Drawing



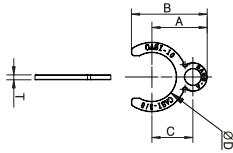
Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØA	ØB	ØC	D	E	F	H	I	L	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
CAS-N04	4	8.1	4.2	2.5	11	4.7	16	7.8	3.5	11	10	12	1.8	100
CAS-N06	6	10	6.2	4	13	5	17.2	8.2	4	13	12	14	2.2	100
CAS-N08	8	12	8.2	6	15	4.8	18.2	9.2	4.5	15	14	16	2.9	100
CAS-N10	10	15.1	10.2	8	18	5.8	21	10.2	5	18	17	19	3.5	100
CAS-N12	12	17.7	12.2	10	22	5.2	22.4	12.2	5	22	21	23	4	100

CASI - Emniyet Klipsi / Insert-Tube Clip



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	A	B	C	T	Adet/Kutu Qty / Box
CASI 04	5.2	9	11.3	6	0.8	100
CASI 06	7.9	10	13.5	7	1	100
CASI 08	9.7	11	15.3	8	1	100
CASI 10	11.9	13.5	18.5	10	1.2	100
CASI 12	14.8	14.3	20.5	11	1.6	100

Kompakt Otomatik Bağlantı Elemanları / Compact One-Touch Fittings

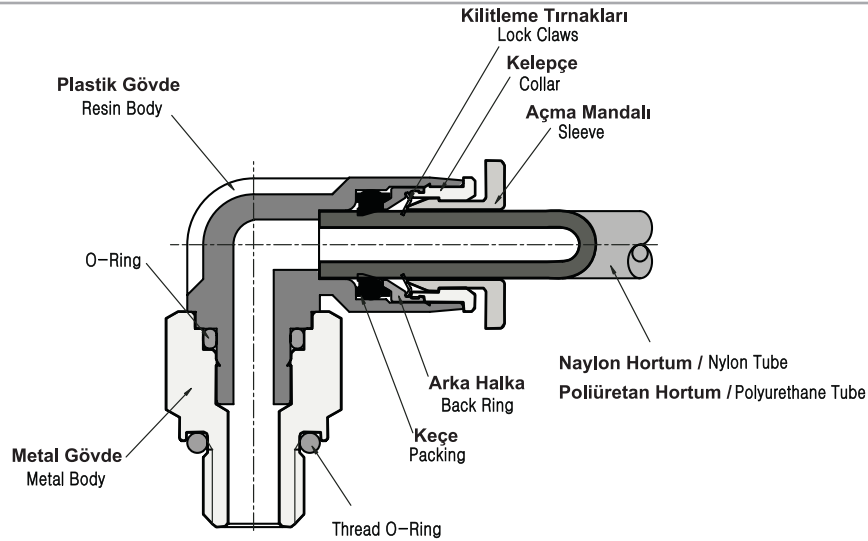
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Naylon / Polyurathane and Nylon

Özellikler / Specification

- Benzer tiplerle mukayese edildiğinde hacimsel olarak %40 dış çap olarak %20 daha küçük olan dünyanın en küçük bağlantı elemanlarıdır. / The world's smallest quick-fitting joints feature 40% smaller volume ratio and 20% smaller O.D. ratio in comparison to the conventional type.
- Nikel kaplı bağlantı elemanları sadece görüntü olarak değil pasaya karşı mükemmel dayanım sağlar. / The compact type joints, which are nickel plated, excellent not only in appearance but also in rust resistance.
- Eliptik mandal, dar alanlarda hortumla bağlantı ve hortumdan sökmek için kolaylık sağlar. / The elliptical sleeve helps easy application or removal of the tube in confined spaces.

Yapısal Diyagram / Structural Diagram



Sipariş Kodu / Ordering Code

PC	06	01
Tip / Type	Hortum Çapı (ØD) / Tube Dia	Diş Ölçüsü (T) / Thread Size
Kompakt Otomatik Bağlantı Elemanları Compact One Touch Fittings	03: Ø3	M3: M3 x 0.5
	04: Ø4	M5: M5 x 0.8
	06: Ø6	M6: M6 x 1.0
		01: R1/8

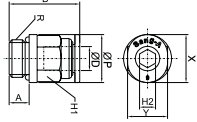
PC-C - Mini Erkek Rekor / Male Straight



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	B	H	A	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PC 03-M3C	3	M3	9.5	13.6	6	3	7	6	1.2	1.3	100
PC 03-M5C		M5	9.5	15.7	8	3.5	7	6	2	3.1	100
PC 03-M6C		M6	9.5	16.5	8	4.5	7	6	2	3.3	100
PC 04-M3C	4	M3	11.5	17.2	8	3	10	8	1.2	3.2	100
PC 04-M5C		M5	11.5	15.7	8	3.5	10	8	2	2.9	100
PC 04-M6C		M6	11.5	16.9	8	4.5	10	8	3	3.2	100
PC 04-01C	6	G1/8	11.5	15.7	10	8	10	8	3	6	100
PC 06-M5C		M5	12.5	16.8	10	3.5	12	10	2	3.8	100
PC 06-M6C		M6	12.5	17.8	10	4.5	12	10	3	4.1	100
PC 06-01C	6	G1/8	12.5	17.9	10	8	12	10	4.5	5.3	100

Teknik Çizim / Technical Drawing



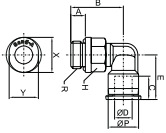
PL-C - Döner Dirsek / Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	B	E	C	A	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PL 03-M3C	3	M3	6	12.4	11.2	9.5	3	6	7	6	1.2	1.6	100
PL 03-M5C		M5	6	13.5	11.2	9.5	3.5	8	7	6	2	2.7	100
PL 03-M6C		M6	6	14.5	11.2	9.5	4.5	8	7	6	2.4	3	100
PL 04-M3C	4	M3	8	14	15.6	11.5	3	8	10	8	1.2	3.3	100
PL 04-M5C		M5	8	13.5	15.6	11.5	3.5	8	10	8	2	3.3	100
PL 04-M6C		M6	8	14.5	15.6	11.5	4.5	10	10	8	2.4	3.7	100
PL 04-01C	6	G1/8	8	15.6	15.6	11.5	8	12	10	8	2.8	6.1	100
PL 06-M5C		M5	10.5	13.5	16.9	12.5	3.5	8	12	10	2	3.9	100
PL 06-M6C		M6	10.5	14.5	16.9	12.5	4.5	8	12	10	2.4	4.2	100
PL 06-01C	6	G1/8	10.5	16.9	16.9	12.5	8	10	12	10	3	6.8	100

Teknik Çizim / Technical Drawing



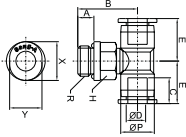
PT-C - Orta Bacak Te / Tee



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	C	A	B	E	H	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PT 03-M3C	3	M3	6	9.5	3	12.4	11.2	6	7	6	1.2	2	100
PT 03-M5C		M5	6	9.5	3.5	13.5	11.2	8	7	6	2	3.2	100
PT 03-M6C		M6	6	9.5	4.5	14.5	11.2	8	7	6	2.4	3.5	100
PT 04-M3C	4	M3	8	11.5	3	15	13.1	8	10	8	1.2	4.2	100
PT 04-M5C		M5	8	11.5	3.5	14.5	13.1	8	10	8	2	4.1	100
PT 04-M6C		M6	8	11.5	4.5	15.5	13.1	10	10	8	2.4	4.4	100
PT 04-01C	6	G1/8	8	11.5	8	16.4	13.1	12	10	8	2.8	6.9	100
PT 06-M5C		M5	10.5	12.5	3.5	15.5	14.4	8	12	10	2	5.4	100
PT 06-M6C		M6	10.5	12.5	4.5	16.5	14.4	8	12	10	2.4	5.7	100
PT 06-01C	6	G1/8	10.5	12.5	8	17.4	14.4	10	12	10	3	8.2	100

Teknik Çizim / Technical Drawing



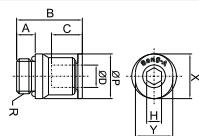
POC-C - Mini Yuvarlak Rekor Bağlantı / Round Male Straight

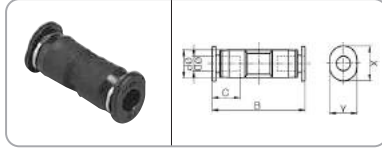


Ölçü Tablosu / Dimension Chart

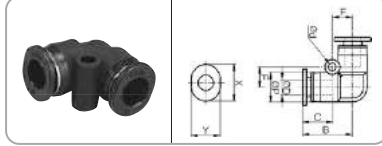
MODEL	ØD	R	C	A	B	H	ØP	X	Y	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
POC 03-M3C	3	M3	9.5	3	15.9	1.5	6	7	6	1.2	1.7	100
POC 03-M5C		M5	9.5	3.5	17.5	2	8	7	6	2	3.8	100
POC 03-M6C		M6	9.5	4.5	19.7	3	8	7	6	2	4.2	100
POC 04-M3C	4	M3	11.5	3	18	1.5	8	10	8	1.2	3.4	100
POC 04-M5C		M5	11.5	3.5	18.7	2.5	8	10	8	2	3.8	100
POC 04-M6C		M6	11.5	4.5	19.7	3	8	10	8	3	4	100
POC 04-01C	6	G1/8	11.5	8	15.8	3	10	10	8	3	5.5	100
POC 06-M5C		M5	12.5	3.5	17.3	2.5	10	12	10	2	3.9	100
POC 06-M6C		M6	12.5	4.5	18.3	3	10	12	10	3	4.1	100
POC 06-01C	6	G1/8	12.5	8	16.9	4	10	12	10	4.5	4.5	100

Teknik Çizim / Technical Drawing

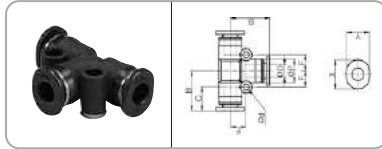


PUC-C - Nipel Bağlantı / Union Straight
Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUC 03C	3	6	20.4	9.5	7	6	2.5	1.1	100
PUC 04C	4	8	23.8	11.5	10	8	3	2	100
PUC 06C	6	10.5	25.1	12.5	12	10	4	3.2	100

PUL-C - Dirsek / Union Elbow
Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	Ød	C	F	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUL 03C	3	6	3.2	9.5	4.5	11.4	7	6	2.5	1.1	100
PUL 04C	4	8	3.2	11.5	5.8	13.9	10	8	3	2.1	100
PUL 06C	6	10.5	3.2	12.5	6.5	15.4	12	10	4	3.4	100

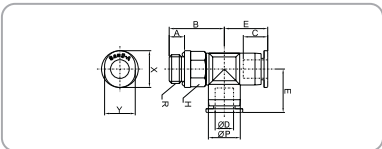
PUT-C- T Bağlantı / Union Tee
Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	Ød	F	C	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PUT 03C	3	6	3.2	4.5	9.5	11.4	7	6	2.5	1.7	100
PUT 04C	4	8	3.2	5.8	11.5	13.9	10	8	3	3.1	100
PUT 06C	6	10.5	3.2	6.5	12.5	15.4	12	10	4	5	100

PST-C - Yan Bacak Te / Male Run Tee

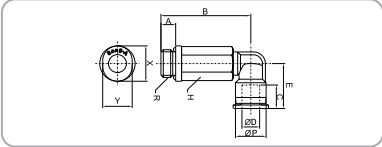
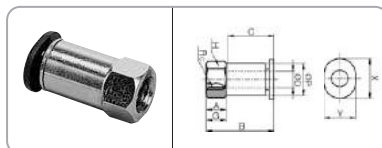
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	C	A	B	E	H	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PST 03-M3C	3	M3	6	9.5	3	11.4	11.2	6	7	6	1.2	2	100
PST 03-M5C		M5	6	9.5	3.5	13.5	11.2	8	7	6	2	3.3	100
PST 03-M6C		M6	6	9.5	4.5	14.5	11.2	8	7	6	2.4	3.6	100
PST 04-M3C	4	M3	8	11.5	3	15	13.1	8	10	8	1.2	4.2	100
PST 04-M5C		M5	8	11.5	3.5	14.5	13.1	8	10	8	2	4.3	100
PST 04-M6C		M6	8	11.5	4.5	15.5	13.1	8	10	8	2.4	4.5	100
PST 04-01C	6	G1/8	8	11.5	8	16.4	13.1	10	10	8	2.8	7	100
PST 06-M5C		M5	10.5	12.5	3.5	16.5	14.4	8	12	10	2	5.6	100
PST 06-M6C		M6	10.5	12.5	4.5	17.5	14.4	8	12	10	2.4	5.9	100
PST 06-01C	6	G1/8	10.5	12.5	8	18	14.4	10	12	10	3	8.4	100

Teknik Çizim / Technical Drawing

PLL-C - Uzun Dirsek / Extended Male Elbow

Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	ØP	B	E	C	A	H	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLL 03-M3C	3	M3	6	19.4	11.2	9.5	3	6	7	6	1.2	3.1	100
PLL 03-M5C		M5	6	25.5	11.2	9.5	3.5	8	7	6	2	7.6	100
PLL 04-M3C	4	M3	8	23	15.6	11.5	3	8	10	8	1.2	7.4	100
PLL 04-M5C		M5	8	25.5	15.6	11.5	3.5	8	10	8	2	7.9	100
PLL 04-M6C		M6	8	26	15.6	11.5	4.5	8	10	8	2.4	8.3	100
PLL 04-01C	6	G1/8	8	28.1	15.6	11.5	8	10	10	8	2.8	13.2	100
PLL 06-M5C		M5	10.5	25.5	16.9	12.5	3.5	8	12	10	2	8.5	100
PLL 06-M6C		M6	10.5	26	16.9	12.5	4.5	8	12	10	2.4	8.9	100
PLL 06-01C	6	G1/8	10.5	29.4	16.9	12.5	8	10	12	10	3	13.7	100

Teknik Çizim / Technical Drawing

PCF-C - Dişi Rekor/ Female Straight
Teknik Çizim / Technical Drawing

Ölçü Tablosu / Dimension Chart

MODEL	ØD	Rc	G	C	A	B	H	ØP	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCF 03-M3C	3	M3	5	9.5	3	14.9	8	8	7	6	2	3.8	100
PCF 03-M5C		M5	5	9.5	5	16.9	8	8	7	6	2.5	4.1	100
PCF 04-M3C	4	M3	5	11.5	3	15	8	8	10	8	2	3.7	100
PCF 04-M5C		M5	5	11.5	5	17	8	8	10	8	2.5	3.8	100

PGJ-C - Boru Girişli Düşürücü / Reducer

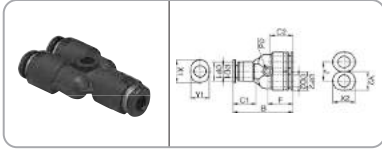


Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	C1	C2	E	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PGJ 04-03C	3	4	6.5	9.5	11.5	11.2	29.2	7	6	2.5	0.9	100
PGJ 06-04C	4	6	9	11.5	12.5	13.2	33.2	10	8	3	1.8	100

PW-C - Düşürücü Y / Reducer Y

Teknik Çizim / Technical Drawing

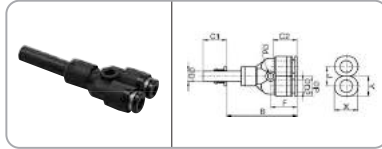


Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP1	ØP2	Ød	F	J	C1	C2	B	X1	Y1	X2	Y2	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PW 04-03C	4	3	8	8	3.2	13.4	8	11.5	9.5	30	10	8	7	6	2.5	3.6	100
PW 06-04C	6	4	10.5	8	3.2	13.6	10.5	12.5	11.5	31.5	12	10	10	8	3	4.1	100

PWJ-C - Boru Girişli Düşürücü Y / Plug-In Reducer Y

Teknik Çizim / Technical Drawing

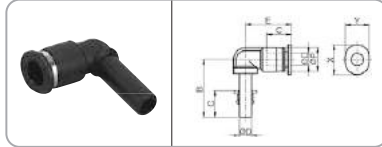


Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	C1	C2	Ød	F	J	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PWJ 04-03C	4	3	8	11.5	9.5	3.2	13.4	8	33	7	6	2	3.7	100
PWJ 06-04C	6	4	10.5	12.5	11.5	3.2	13.6	10.5	38.5	10	8	3	4.2	100

PLJ-C - Boru Girişli Dirsek / Plug-In Elbow

Teknik Çizim / Technical Drawing

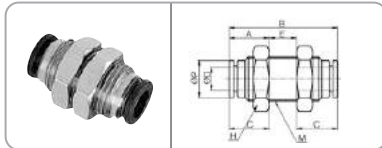


Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	C	B	E	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLJ 03C	3	6	9.5	21.6	11.2	7	6	1.5	1.2	100
PLJ 04C	4	8	11.5	27.6	15.6	10	8	2	2	100
PLJ 06C	6	10.5	12.5	29.6	16.9	12	10	2.4	2.6	100

PMM-C - Perde Geçiş Bağlantı / Bulkhead Union

Teknik Çizim / Technical Drawing

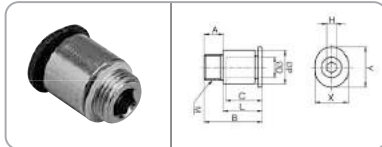


Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	ØP	A	E	B	H	C	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PMM 03C	3	M8 X 0.75P	6	7	7.5	20	10	9.5	2	5.2	100
PMM 04C	4	M10 X 1.0P	8	9	7.5	24	12	11.5	3	8.6	100
PMM 06C	6	M12 X 1.0P	10.5	10.5	6	25.9	14	12.5	4	13.4	100

PCC-C - Yuvarlak Rekor / Round Male Straight

Teknik Çizim / Technical Drawing

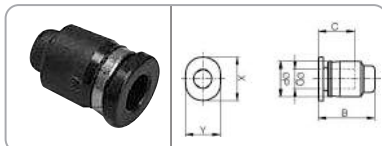


Ölçü Tablosu / Dimension Chart

MODEL	ØD	M	L	C	A	B	H	ØP	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCC 03-M6C	3	M6 X 0.75	11.1	9.5	3.5	14.6	2	8	7	6	2.5	2.9	100
PCC 04-M6C	4	M6 X 0.75	11	11.5	3.5	14.5	2.5	8	10	8	2.6	2.3	100
PCC 04-M8C	4	M8 X 0.75	10.5	11.5	4	14.5	3	10	10	8	3	4.6	100
PCC 06-M8C	6	M8 X 0.75	11.5	12.5	4	14.5	4	10	12	10	4	3.5	100

PPF-C - Mini Körtapa / Cap

Teknik Çizim / Technical Drawing

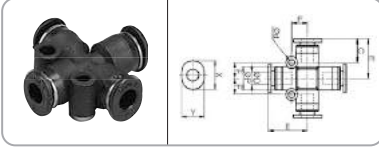


Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	B	C	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PPF 03C	3	6	10.7	9.5	7	6	0.5	100
PPF 04C	4	8	12	11.5	10	8	1	100
PPF 06C	6	10.5	12.5	12.5	12	10	1.5	100

PZA-C - Kruva / Union Cross

Teknik Çizim / Technical Drawing

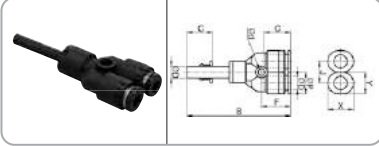


Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	Ød	F	E	C	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PZA 03C	3	6	3.2	4.5	11.5	9.5	7	6	2.5	2.2	100
PZA 04C	4	8	3.2	5.5	13.6	11.5	10	8	3	4.1	100
PZA 06C	6	10.4	3.2	6.5	15.9	12.5	12	10	4	6.6	100

PYJ-C - Boru Girişli Y / Plug-In Y

Teknik Çizim / Technical Drawing

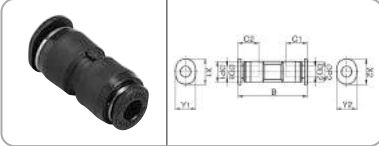


Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	Ød	F	C	J	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PYJ 03C	3	8	3.2	13.2	9.5	8	43.5	7	6	1.5	3	100
PYJ 04C	4	8	3.2	13.3	11.5	8	45	10	8	2	3.5	100
PYJ 06C	6	10.5	3.2	13.6	12.5	10.4	50.5	12	10	2.4	5.5	100

PG-C - Redüksiyon Tipi Nipel / Reducer

Teknik Çizim / Technical Drawing

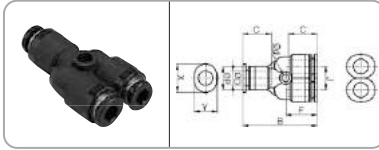


Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP1	ØP2	C1	C2	B	X1	Y1	X2	Y2	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PG 0403C	3	4	6	8	9.5	11.5	22.5	7	6	10	8	2.5	1.5	100
PG 0604C	4	6	8	10.5	11.5	12.5	24	10	8	12	10	3	2.5	100

PY-C - Y Bağlantı / Union Y

Teknik Çizim / Technical Drawing

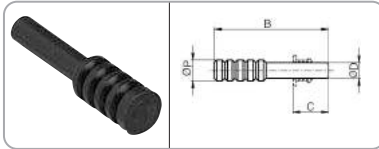


Ölçü Tablosu / Dimension Chart

MODEL	ØD	ØP	Ød	F	C	J	B	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PY 03C	3	8	3.2	13.2	9.5	8	29.9	7	6	2.5	3.6	100
PY 04C	4	8	3.2	13.3	11.5	8	30.1	10	8	3	3.4	100
PY 06C	6	10.5	3.2	13.6	12.5	10.5	32.1	12	10	4	5.3	100

PP-C - Körtapa / Plug

Teknik Çizim / Technical Drawing

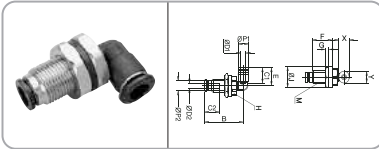


Ölçü Tablosu / Dimension Chart

MODEL	ØD	B	C	ØP	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PP-C	3	22	9.5	4	0.3	100

PLM-C - Perde Geçiş Dirseği / Bulkhead Union P

Teknik Çizim / Technical Drawing



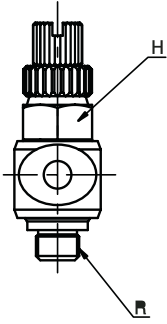
Ölçü Tablosu / Dimension Chart

MODEL	ØP1	ØD1	ØP2	ØD2	E	C1	C2	B	F	G	H	ØJ	M	X	Y	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PLM 03C	6.3	3	6	3	10.6	9.5	9.5	22.4	11	2	10	12.5	M8x0.75P	9	7	2.5	5.2	100
PLM 04C	8	4	8	4	15.3	11.5	11.5	24.4	13	3	12	14	M8x0.76P	10	8	3	8.6	100
PLM 06C	10.4	6	10	6	16.3	12.5	12.5	31.5	16.6	4	14	17	M8x0.77P	12	10	4	13.4	100

NSE-C - Mini Dirsek Tipi Hız Ayar / Mini Elbow Speed Controller



Teknik Çizim / Technical Drawing

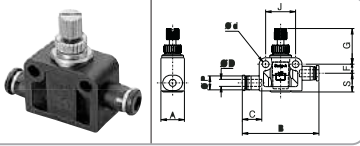


Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	F	A	H	ØP	ØK	L1(Max)	L2	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NSE 03-M3C	3	M3	9.5	14	4	8	6.3	10	26.5	6.9	6.7	100
NSE 03-M5C		M5	9.5	14	4	8	6.3	10	2.5	6.4	8.1	100
NSE 04-M3C	4	M3	11.5	15.7	4	8	8	10	26.5	6.9	17.5	100
NSE 04-M5C		M5	11.5	15.7	4	8	8	10	26.5	6.4	34.7	100
NSE 04-01C		G1/8	11.5	17.8	8	10	8	14	36	11.2	9.1	50
NSE 06-M3C	6	M3	12.5	16.4	4	8	10.4	10	26.5	6.9	18.2	100
NSE 06-M5C		M5	12.5	16.4	4	8	10.4	10	26.5	6.4	35.4	100
NSE 06-01C		G1/8	12.5	18.2	8	10	10.4	14	36	11.2	63.9	50
NSE 06-02C		G1/4	12.5	20.1	11	14	10.4	18	41.5	11.2	19.1	50

NSF-C - Mini Hat Tipi Hız Ayar / Mini Union Straight Speed Controller

Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	A	B	Ød	C	F	G	J	ØP	S	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NSF 03C	3	11	33	3.2	9.5	4.25	13.5	14	6.3	8.75	8.75	50

Hız Kontroller Elemanları / Speed Controllers

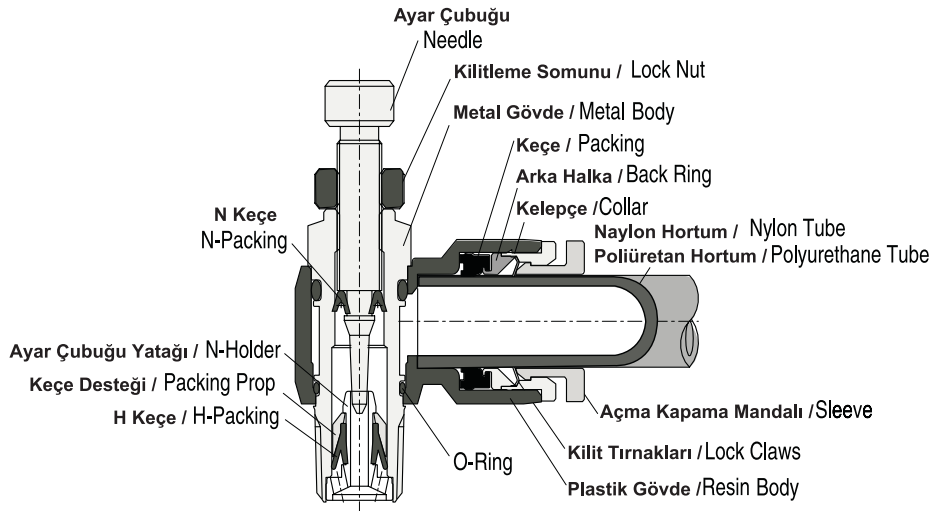
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Naylon / Polyurathane and Nylon

Özellikler / Specification

- Hareketli cihazlardaki düzgün silindirik hareketleri için optimum debi miktarının geçişine tam olarak izin verir. / Precisely permit the optimal rate of airflow for the smooth cylinder movement of driving devices.
- Kompakt ve hafif gövdesi kısıtlı alanlarda kullanımına olanak sağlar. / The Compact and light body permits use in confined space.
- Tek yönde akış ve girişi kontrol etmede ya da egzostda kullanılabilir. / Uni-directional airflow is available for either exhaust or inlet flow control methods.
- Kompakt dizayn klasik hız kontrollerle karşılaştırılabilir bir hız aralığı sağlar. / The compact desing provides a comparable range of speed as the conventional speed controllers do.

Yapısal Diyagram / Structural Diagram



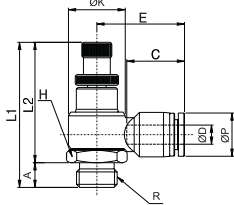
Sipariş Kodu / Ordering Code

NSE	08	G02	OUT		
Tip / Type	Hortum Çapı / Tube Dia (ØD)	Diş Ölçüsü / Thread Size (T)	Kontrol Yöntemi / Control Method		
Hız Kontrol Elemanları Speed Controllers	03: Ø3 04: Ø4 06: Ø6 08: Ø8 10: Ø10 12: Ø12	M3: M3 x 0.5 M5: M5 x 0.8 G01: R1/8 G02: R1/4 G03: R3/8 G04: R1/2	Çıkış / Out Giriş / In	Sembol / Symbol 	Mandal / Sleeve Standart : Mavi Standard : Blue Kompakt : Siyah Compact : Black
					Standart : Kırmızı Standard : Red Kompakt : Kırmızı Compact : Red

NSE - Dirsek Hız Ayar / Elbow Speed Controller



Teknik Çizim / Technical Drawing



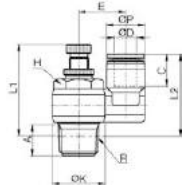
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	F	A	H	ØP	ØK	L1(Max)	L2	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NSE 04-M5	4	M5	16	18.5	3.5	8	10	10	26.5	23.0	8.1	100
NSE 04-G01		G1/8	16	20.2	6	14	10	14.4	42.6	36.3	20.8	50
NSE 04-G02		G1/4	16	23.2	8	17	10	18.4	51.7	43.7	22	50
NSE 06-M5	6	M5	17	21.7	3.5	8	12.4	10	26.5	23.0	9.1	100
NSE 06-G01		G1/8	17	22.1	6	14	12.4	14.4	42.6	36.6	21.6	50
NSE 06-G02		G1/4	17	24.2	8	17	12.4	18.4	51.7	43.7	39.8	50
NSE 06-G03	6	G3/8	17	26.7	10	20	12.4	22	58.3	48.3	72.5	25
NSE 08-G01		G1/8	18.5	23.7	6	14	14.4	14.4	42.6	36.6	22.6	50
NSE 08-G02		G1/4	18.5	26.9	8	17	14.4	18.4	51.7	43.7	44.6	50
NSE 08-G03	8	G3/8	18.5	27.3	10	20	14.4	22	58.3	48.3	73.4	25
NSE 08-G04		G1/2	18.5	29.2	12	24	14.4	28	59.8	47.8	100.1	25
NSE 10-G02		G1/4	21	29.1	8	17	17.6	18.4	51.7	43.7	47.6	25
NSE 10-G03	10	G3/8	21	29.5	10	20	17.6	22	58.3	48.3	76.3	25
NSE 10-G04		G1/2	21	32.4	12	24	17.6	28	59.8	47.8	103.2	20
NSE 12-G03		G3/8	22.5	34.7	10	20	21	22	58.3	48.3	79.4	20
NSE 12-G04	12	G1/2	22.5	34.7	12	24	21	28	59.8	47.8	106.1	20

NSS - Dirsek Tipi Dik Çıkışlı Hız Ayar / Double Elbow Speed Controller



Teknik Çizim / Technical Drawing



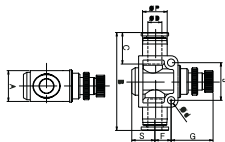
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	E	A	H	ØP	ØK	L1(Max)	L2	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NSS 04-M5	4	M5	16	15.9	3.5	8	10.4	10.4	26.5	30.8	8.9	100
NSS 04-01		G1/8	16	18.1	8	10	10.4	14.4	36	33.9	24.1	50
NSS 04-02		G1/4	16	20.1	11.2	14	10.4	18.4	41.5	34.9	44.6	50
NSS 06-M5	6	M5	17	15.9	3.5	8	12.4	10.4	26.5	32.2	9.8	100
NSS 06-01		G1/8	17	18.1	8	10	12.4	14.4	36	35.3	24.8	50
NSS 06-02		G1/4	17	20.1	11.2	14	12.4	18.4	41.5	36.3	45.2	50
NSS 06-03	6	G3/8	17	22.5	13.3	19	12.4	22	47	37.3	55	25
NSS 08-01		G1/8	18.5	18.1	8	10	14.4	14.4	36	36.8	41.9	50
NSS 08-02		G1/4	18.5	20.1	11.2	14	14.4	18.4	41.5	37.8	46.2	50
NSS 08-03	8	G3/8	18.5	22.5	13.3	19	14.4	22	47	38.8	57	25
NSS 08-04		G1/2	18.5	24.9	16.5	24	14.4	28	52	39.8	65	25
NSS 10-02		G1/4	21	20.1	11.2	14	17.6	18.4	41.5	40.5	76.7	25
NSS 10-03	10	G3/8	21	22.5	13.3	19	17.6	22	47	41.5	84.6	25
NSS 10-04		G1/2	21	24.9	16.5	24	17.6	28	52	42.5	88	20
NSS 12-02		G1/4	22.5	20.1	11.2	14	21.2	18.4	41.5	42	84	25
NSS 12-03	12	G3/8	22.5	22.5	13.3	19	21.2	22	47	43	85.6	20
NSS 12-04		G1/2	22.5	24.9	16.5	24	21.2	28	52	44	95	20

NSF - Hat Tipi Hız Ayar / Union Speed Controller



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	A	B	Ød	C	F	G	J	ØP	S	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NSF 03	3	10	36.2	3.2	9.5	4.3	13.5	14	6.3	6.5	8.75	50
NSF 04	4	11	38.4	3.2	16	6.5	13.5	14	10	6.5	11.54	50
NSF 06	6	15	47.2	4.3	17	8.5	18.5	20	12.4	11	27.61	25
NSF 08	8	18	51.8	4.3	18.5	9.5	19	22	14.4	12	40.37	25
NSF 10	10	21	59.6	4.3	21	11	23	26	17.6	12	66.35	20
NSF 12	12	28	71.4	4.3	22.5	13	20.5	32	21	16	110.59	12

Döner Bağlantı Elemanları / Rotary Joint

Teknik Özellikler / Technical Specification

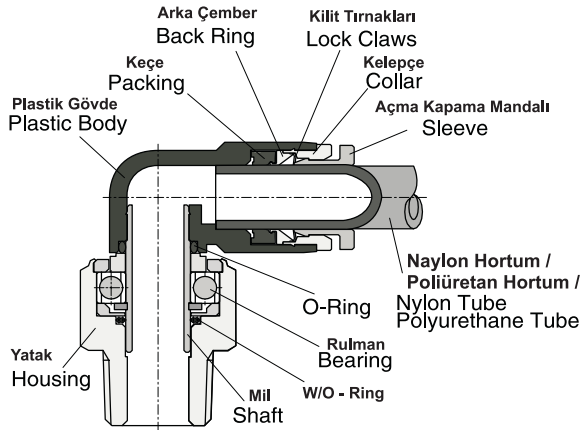
Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Naylon / Polyurathane and Nylon

Devir Sayıları / Number of Rotations

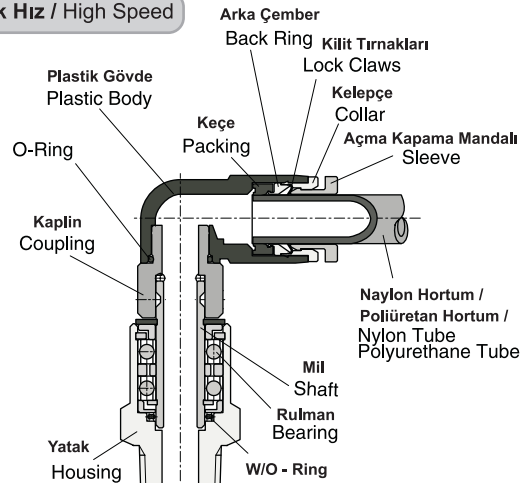
Hortum Çapı / Tube Dia (ØD)			Ø4	Ø6	Ø8	Ø10	Ø12
Devir / Dak. r.p.m.	Düşük Low	NRC,NRL	500	500	400	300	250
	Yüksek High	NHRC,NHRL	1500	1200	1200	1000	1000

Yapısal Diyagram / Structural Diagram

Düşük Hız / Low Speed



Yüksek Hız / High Speed



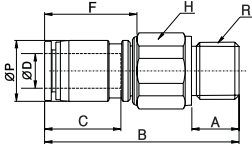
Sipariş Kodu / Ordering Code

NHRC	06	G01
Tip / Type	Hortum Çapı (ØD) / Tube Dia	Diş Ölçüsü (T) / Thread Size
Döner Bağlantı Elemanları Rotary Joint	04: Ø4	M5: M5 x 0.8
	06: Ø6	M6: M6 x 1.0
	08: Ø8	G01: 1/8"
	010: Ø10	G02: 1/4"
	012: Ø12	G03: 3/8"

NRC - Yüksek Hızlı Döner Rekor / High Speed Male Swivel Connector



Teknik Çizim / Technical Drawing



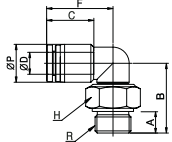
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	F	ØP	C	A	B	H	RPM	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NRC 04-01	4	G1/8	17.7	10.4	16	6	33.4	14	500	3	16	100
NRC 06-01	6	G1/8	18.5	12.4	17	6	38.5	14	500	4	16	50
NRC 06-02		G1/4	20.2	12.4	17	8	38.5	17	500	4	20.5	50
NRC 08-01	8	G1/8	20.2	14.4	18.5	6	43.6	17	400	6	29	50
NRC 08-02		G1/4	20.2	14.4	18.5	8	45.6	17	400	6	29.5	50
NRC 08-03		G3/8	22.8	14.4	18.5	10	47.6	21	400	6	37.5	50
NRC 10-03	10	G3/8	29.6	18	21	10	54.1	22	300	7.5	65.7	25
NRC 10-04		G1/2	29.6	18	21	12	55.6	24	300	7.5	75	25
NRC 12-03	12	G3/8	31.5	21.8	22	10	61.5	24	250	9	93	25
NRC 12-04		G1/2	31.5	21.8	22	12	58.5	24	250	9	100.1	25

NRL- Yüksek Hızlı Döner Dirsek / High Speed Male Swivel Elbow



Teknik Çizim / Technical Drawing



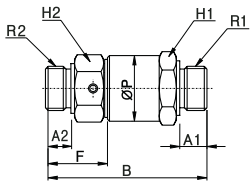
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	F	ØP	C	A	B	H	RPM	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NRL 04-01	4	G1/8	20.2	10.4	16	6	22	14	500	3	12.3	100
NRL 06-01	6	G1/8	22.9	12.4	17	6	26.2	14	500	4	17.6	50
NRL 06-02		G1/4	22.9	12.4	17	8	26.2	17	500	4	22.2	50
NRL 08-01	8	G1/8	25.9	14.4	18.5	6	30.6	17	400	6	29	50
NRL 08-02		G1/4	25.9	14.4	18.5	8	32.6	17	400	6	31.7	50
NRL 08-03		G3/8	25.9	14.4	18.5	10	34.6	21	400	6	40.8	50
NRL 10-03	10	G3/8	29.8	17.6	21	10	33.3	22	300	7.5	62.9	25
NRL 10-04		G1/2	29.8	17.6	21	12	34.8	24	300	7.5	73.1	25
NRL 12-03	12	G3/8	32.7	21	22.5	10	40.5	24	250	9	81	25
NRL 12-04		G1/2	32.7	21	22.5	12	37.5	24	250	9	87.6	25

NHRS - Yüksek Hızlı Döner Nipel / High Speed Male Swivel Nippel



Teknik Çizim / Technical Drawing



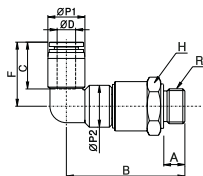
Ölçü Tablosu / Dimension Chart

MODEL	R1	R2	F	B	ØP	A1	A2	H1	H2	RPM	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NHRS 01-01	G1/8	G1/8	21	49	16.5	8	8	17	14	1200	6	43.7	50
NHRS 01-02	G1/8	G1/4	24	52	16.5	8	11	17	14	1200	6	52	50
NHRS 02-01	G1/4	G1/8	21	52	16.5	11	8	17	14	1200	6	52	50
NHRS 02-02	G1/4	G1/4	24	55	16.5	11	11	17	14	1200	6	55.3	50
NHRS 03-03	G3/8	G3/8	28	63.5	23.5	12	12	24	22	1000	9	120.2	25
NHRS 03-04	G3/8	G1/2	31	66.5	23.5	12	15	24	22	1000	9	135	25
NHRS 04-03	G1/2	G3/8	28	66.5	23.5	15	12	24	22	1000	9	135	25
NHRS 04-04	G1/2	G1/2	31	69.5	23.5	15	15	24	22	1000	9	150	25

NHRL - Yüksek Hızlı Uzun Döner Dirsek / High Speed Male Long Swivel Elbow



Teknik Çizim / Technical Drawing



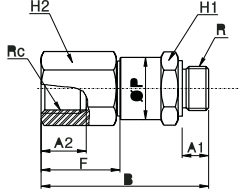
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	F	C	B	ØP1	ØP2	A	H	RPM	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NHRL 04-01	4	G1/8	20.2	16	35.5	10	11	6	14	1500	3	23	50
NHRL 06-01	6	G1/8	22.9	17	42.2	12.4	14	6	17	1500	4	43.3	50
NHRL 06-02		G1/4	22.9	17	43.2	12.4	14	8	17	1200	4	57.2	50
NHRL 08-01	8	G1/8	25.9	18.5	42.2	14.4	14	6	17	1200	6	45.3	50
NHRL 08-02		G1/4	25.9	18.5	43.2	14.4	14	8	17	1200	6	50.3	50
NHRL 10-03	10	G3/8	29.8	21	53.3	17.6	20	10	24	1000	7.5	105.9	20
NHRL 10-04		G1/2	29.8	21	55.3	17.6	20	12	24	1000	7.5	121.5	20
NHRL 12-03	12	G3/8	33.7	22.5	55	21	20	10	24	1000	9	110.2	20
NHRL 12-04		G1/2	33.7	22.5	57	21	20	12	24	1000	9	125.8	20

NHRF - Yüksek Hızlı Dişi Döner Nipel / High Speed Female Swivel Nipple



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

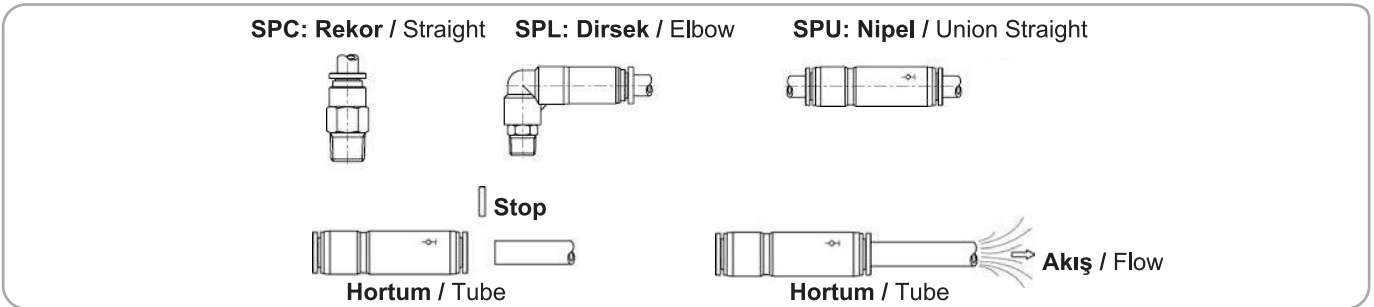
MODEL	R	Rc	F	B	ØP	A1	A2	H1	H2	RPM	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
NHRF 01-01	G1/8	G1/8	21	49	16.5	8	9	17	14	1200	6	48.2	50
NHRF 01-02	G1/8	G1/4	24	52	16.5	8	12	17	17	1200	6	50	50
NHRF 02-01	G1/4	G1/8	21	52	16.5	11	9	17	14	1200	6	60.5	50
NHRF 02-02	G1/4	G1/4	24	55	16.5	11	12	17	17	1200	6	63.6	50
NHRF 03-03	G3/8	G3/8	28	63.5	23.5	12	13	24	22	1000	9	126.8	25
NHRF 03-04	G3/8	G1/2	31	66.5	23.5	12	16	24	24	1000	9	131	25
NHRF 04-03	G1/2	G3/8	28	66.5	23.5	15	13	24	22	1000	9	145	25
NHRF 04-04	G1/2	G1/2	31	69.5	23.5	15	16	24	24	1000	9	150.3	25

Stop Bağlantı Elemanları / Stop Fitting

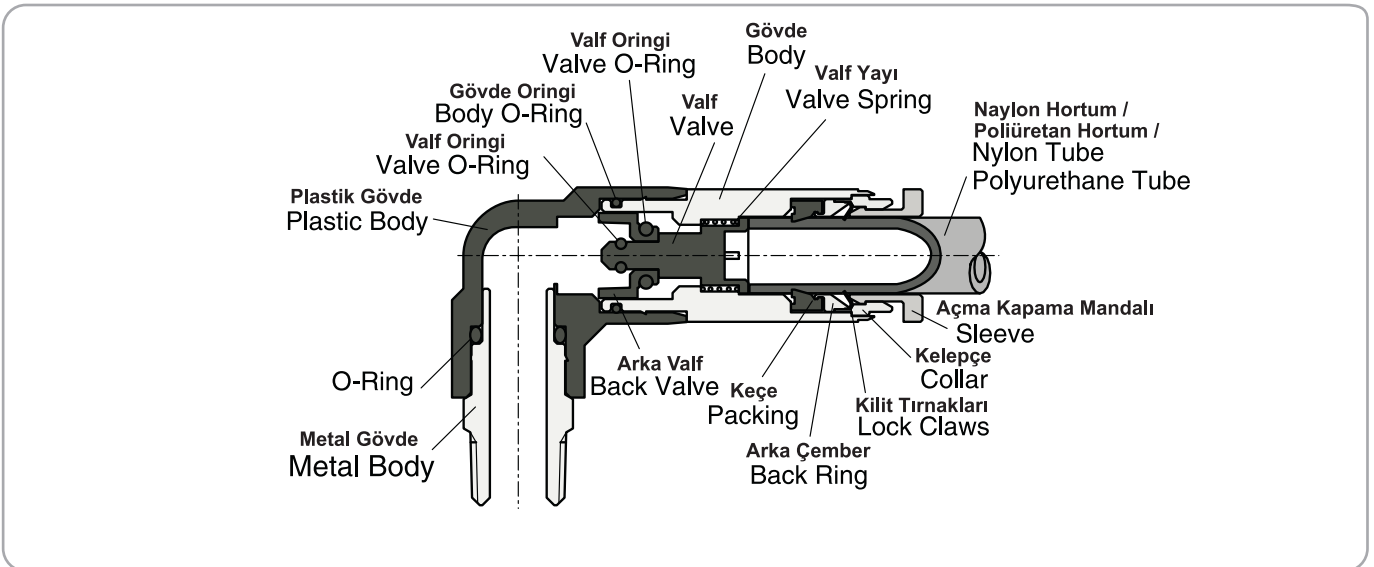
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Naylon / Polyurathane and Nylon

Kontrol Yöntemi / Control Method



Yapısal Diyagram / Structural Diagram



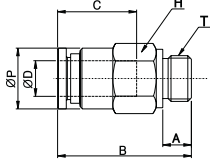
Sipariş Kodu / Ordering Code

SPC	06	G01
Tip / Type	Hortum Çapı (ØD) / Tube Dia	Diş Ölçüsü (T) / Thread Size
Stop Bağlantı Elemanları Stop Joint	04: Ø4	M5: M5 x 0.8
	06: Ø6	M6: M6 x 1.0
	08: Ø8	G01: 1/8"
	010: Ø10	G02: 1/4"
	012: Ø12	G03: 3/8"
		G04: 1/2"

SPC - Stop Rekor / Stop Connector



Teknik Çizim / Technical Drawing



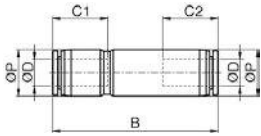
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	H	C	ØP	B	A	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
SPC 04-01	4	G1/8	14	16	10	26.6	6	10.5	100
SPC 06-01	6	G1/8	14	17	12	26.9	6	12.7	100
SPC 06-02		G1/4	17	17	13	29.4	8	21.3	50
SPC 08-01	8	G1/8	17	18.5	14	31.8	8	24	50
SPC 08-02		G1/4	17	18.5	14	33.8	8	20.4	50
SPC 08-03		G3/8	21	18.5	17	33.8	10	38.7	50
SPC 10-02	10	G1/4	17	21	17	37.3	8	29.4	50
SPC 10-03		G3/8	21	21	17	38.3	10	34.3	50
SPC 10-04		G1/2	24	21	18	38.3	12	61	50
SPC 12-03	12	G3/8	21	22	20.2	46	10	58.8	25
SPC 12-04		G1/2	24	22	20.2	49	12	66.9	25

SPU - Stop Nipel / Stop Nipple



Teknik Çizim / Technical Drawing



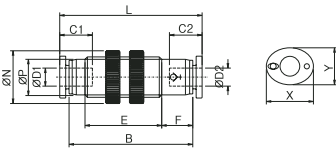
Ölçü Tablosu / Dimension Chart

MODEL	ØD	C1	C2	ØP	B	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
SPU 04	4	16	16	10	42.9	6.6	50
SPU 06	6	17	17	12.4	46.9	8.2	50
SPU 08	8	18.5	18.5	14.4	52.6	12.7	50
SPU 10	10	21	21	17.6	59.2	22.9	50
SPU 12	12	22	22	21.2	71.8	36.8	25

SPUM - Stop Perde Geçiş Nipel / Stop Bulk Head Nipple



Teknik Çizim / Technical Drawing



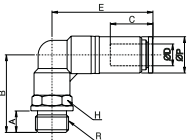
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	ØP	C1	C2	F	B	L	ØN	X	Y	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
SPUM 04	4	4	10.4	16	16	9.4	37.4	43.2	17	10	12	7.4	50
SPUM 06	6	6	12.4	17	17	9.9	41.5	47.7	20.5	12	14	9.9	50
SPUM 08	8	8	14.4	18.5	18.5	10.6	47.2	53.4	23	14	16	15.9	50
SPUM 10	10	10	17.6	21	21	11.3	52.9	59.9	29	17	19	27.7	50
SPUM 12	12	12	21.2	22	22	10.5	63.3	70.9	32	21	23	35.5	25

SPL - Stop Dirsek / Stop Swivel Elbow



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

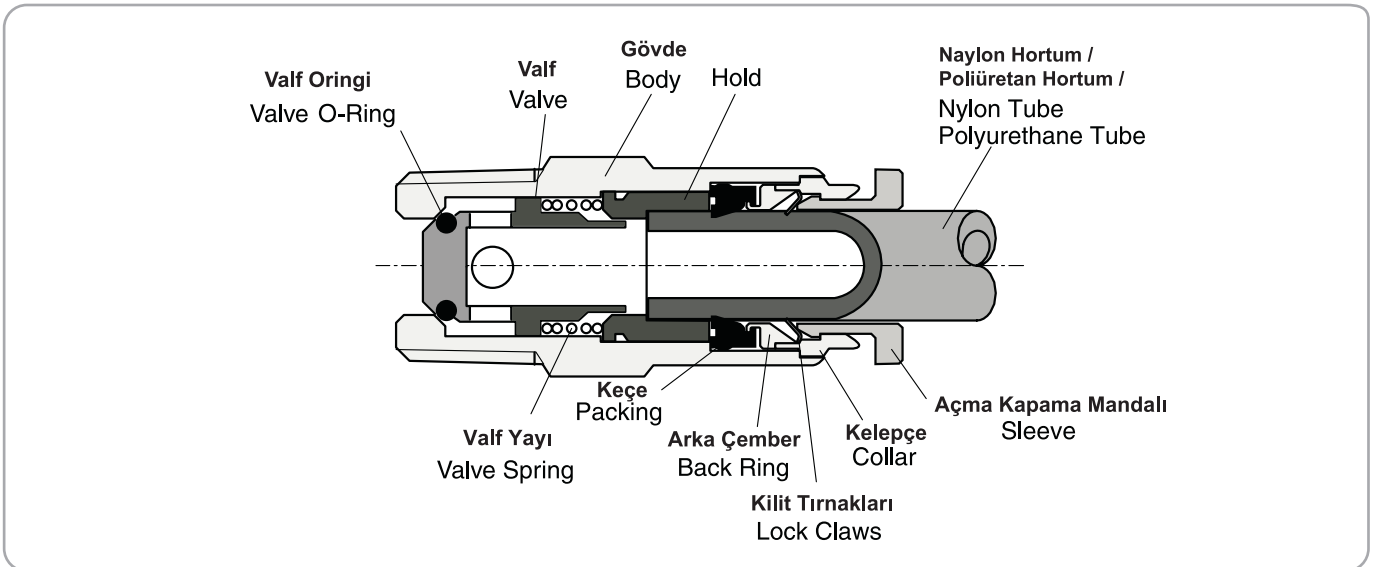
MODEL	ØD	R	C	E	ØP	B	H	A	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
SPL 04-01	4	G1/8	16	30.7	10	25.6	10	6	19.7	50
SPL 06-01	6	G1/8	17	31.9	12.8	25	12	6	20.5	50
SPL 06-02		G1/4	17	31.9	12.8	28	14	6	30.6	50
SPL 08-01	8	G1/8	18.5	40.8	14.4	27	14	8	32	50
SPL 08-02		G1/4	18.5	40.8	14.4	31	14	8	39.2	50
SPL 08-03		G3/8	18.5	40.8	14.4	34	17	10	48.8	50
SPL 10-02	10	G1/4	21	47.6	17.6	35	17	8	56.2	25
SPL 10-03		G3/8	21	47.6	17.6	38	17	10	65.9	25
SPL 10-04		G1/2	21	47.6	17.6	40	19	12	89.5	25
SPL 12-03	12	G3/8	22	55.5	21	38.9	21	10	83.7	25
SPL 12-04		G1/2	22	55.5	21	41.9	21	12	106.6	25

Çek Valfler / Check Valves
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Nylon / Polyurathane and Nylon

Kontrol Yöntemi / Control Method

Tip / Type	Giriş / In	Çıkış / Out
Hava Akışı Air Flow	Dişten Hortuma / Thread to tube	Hortumdan Dişe / Tube to Thread
PCVC		
PCVF		
PCVU		PCVU Modelini gövdedeki işarete göre kullanın In case of PCVU model, you should pipe according to signal of the body

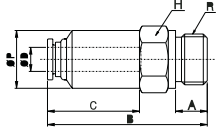
Yapısal Diyagram / Structural Diagram

Sipariş Kodu / Ordering Code

SPC	06	G01
Tip / Type	Hortum Çapı (ØD) / Tube Dia	Diş Ölçüsü (T) / Thread Size
Çek Valfler Check Valves	04: Ø4	M5: M5 x 0.8
	06: Ø6	M6: M6 x 1.0
	08: Ø8	G01: 1/8"
	010: Ø10	G02: 1/4"
	012: Ø12	G03: 3/8"

PCVC - Rekor Tipi Çekvalf / Male Connector Type Check Valve



Teknik Çizim / Technical Drawing



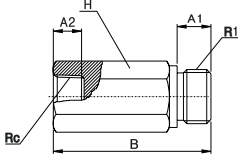
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	H	C	ØP	B	A	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCVC 04-01	4	G1/8	14	16	9.6	25.8	6	10	100
PCVC 06-01	6	G1/8	14	17	11.6	26.8	6	13.1	100
PCVC 06-02		G1/4	17	17	11.6	30.2	8	20.4	50
PCVC 08-01	8	G1/8	14	18.5	13.6	27.6	6	18.6	50
PCVC 08-02		G1/4	17	18.5	13.6	32.6	8	21.3	50
PCVC 10-03	10	G3/8	24	21	25	62.2	10	46	20
PCVC 10-04		G1/2	27	21	28	62.6	12	64	20
PCVC 12-03	12	G3/8	24	22	25	64.4	10	49	20
PCVC 12-04		G1/2	27	22	28	70.5	12	68.5	20

PCVF - Dişli Tip Çekvalf / Threaded Type Check Valve



Teknik Çizim / Technical Drawing



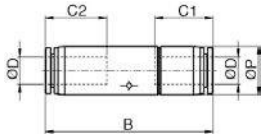
Ölçü Tablosu / Dimension Chart

MODEL	R1	Rc	H	A1	A2	B	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCVF 01-01	G1/8	G1/8	14	6	9	22.8	22	100
PCVF 02-02	G1/4	G1/4	17	8	11	28.5	40.5	50
PCVF 03-03	G3/8	G3/8	24	10	13	54.3	60	25
PCVF 04-04	G1/2	G1/2	27	12	16	63.1	80.4	25

PCVU - Hortum Girişli Çekvalf / Union Connector Type Checkvalve



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	C1	C2	ØP	B	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
PCVU 04	4	16	16	10	41.1	5.9	100
PCVU 06	6	17	17	12.4	47.2	9.1	50
PCVU 08	8	18.5	18.5	14.4	51.6	13.9	50
PCVU 10	10	21	21	25	77.3	17.5	25
PCVU 12	12	22.5	22.5	25	80	32.5	25

EI Kontrollü Valfler / Ball Valves

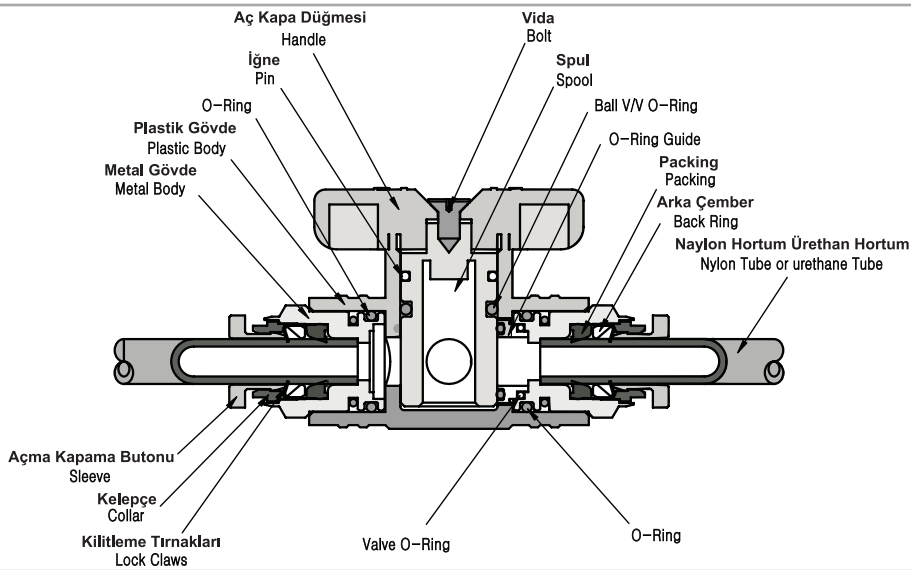
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Nylon / Polyurathane and Nylon

Kontrol Yöntemi / Control Method

- Hava kaynağını açık ya da kapalı konumunun kontrolünde kullanılır. / Used for controlling air supply in the opened and closed positions.
- PPS Reçineli gövdeyle hava gibi su için de kullanılabilir. / Available for water as well as air with PPS resin body.
- Gövdenin kesit ölçüleri hortumdaki kapasite kadar akışı sağlar. / The sectional dimension of the compact body optimizes as much flow as the tube capacity in proportion.

Yapısal Diyagram / Structural Diagram

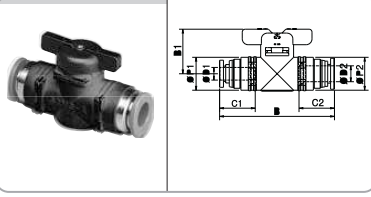


Sipariş Kodu / Ordering Code

BC	20	08	G02
Tip / Type	Efektif Kesit Alanı Effective Sectional Area	Hortum Çapı (ØD) / Tube Dia	Diş Ölçüsü (T) / Thread Size
EI Kontrollü Valfler Ball Valves	20: 20mm 60: 60mm	06: Ø6 08: Ø8 10: Ø10 12: Ø12	G01: 1/8" G02: 1/4" G03: 3/8" G04: 1/2"

BUC - El Kontrollü Vana / Union

Teknik Çizim / Technical Drawing

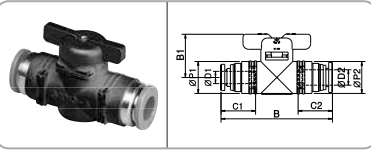


Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BUC 20-0606	6	6	17	17	17	17	59.4	23	5	45	25
BUC 20-0808	8	8	18.5	18.5	17	17	59.2	23	6	40.5	25
BUC 60-1010	10	10	21	21	24	24	78.4	28	8	102.5	12
BUC 60-1212	12	12	22	22	24	24	79.3	28	9	98	12

BUG - Orantılı El Kontrollü Vana / Reducing Union

Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BUG 20-0806	8	6	18.5	17	17	17	59.3	23	5	42.5	25
BUG 60-1210	12	10	22	21	24	24	77.8	28	8	100.5	12

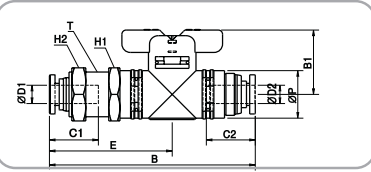
BM - El Kontrollü Perde Geçiş Vana / Bulkhead Union



Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	M	C1	C2	ØP	H1	H2	E	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BM 20-0606	6	6	M16	17	17	17	19	19	43.9	73.6	23	5	44	25
BM 20-0806	8	6	M16	18.5	17	17	19	19	44.4	74.1	23	5	48	25
BM 20-0808	8	8	M16	18.5	18.5	17	19	19	44.4	74.1	23	6	46	25
BM 60-1010	10	10	M22	21	21	24	24	26	55.6	94	28	8	110.1	12
BM 60-1210	12	10	M22	22	21	24	24	26	55.0	93.45	28	8	116	12
BM 60-1212	12	12	M22	22	22	24	24	26	55.0	95.45	28	9	114	12

Teknik Çizim / Technical Drawing



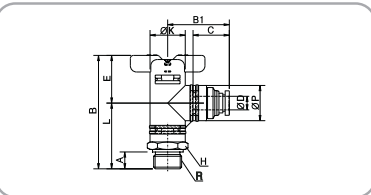
BL - Dirsek Tipi El Kontrollü Vana / Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	ØP	E	L	A	ØK	H	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BL 20-06G01	6	G1/8	17	17	23	30.75	6	17	17	53.75	29.75	5	56.5	25
BL 20-06G02		G1/4	17	17	23	32.25	8	17	17	55.25	29.75	5	59.5	25
BL 20-06G03		G3/8	17	17	23	34.75	10	17	21	57.75	29.75	5	68	25
BL 20-08G01	8	G1/8	18.5	17	23	30.75	6	17	17	53.75	30.25	6	54.0	25
BL 20-08G02		G1/4	18.5	17	23	32.25	8	17	17	55.75	30.25	6	57.5	25
BL 20-08G03		G3/8	18.5	17	23	34.75	10	17	21	57.75	30.25	6	66	25
BL 60-10G02	10	G1/4	21	24	28	42.1	8	24	24	70.1	40.1	8	133	12
BL 60-10G03		G3/8	21	24	28	44.1	10	24	24	72.1	40.1	8	135.5	12
BL 60-10G04		G1/2	21	24	28	46.1	12	24	24	74.1	40.1	8	152.5	12
BL 60-12G02	12	G1/4	22	24	28	42.1	8	24	24	70.1	40	8	131	12
BL 60-12G03		G3/8	22	24	28	44.1	10	24	24	72.1	40	9	133.5	12
BL 60-12G04		G1/2	22	24	28	46.1	12	24	24	74.1	40	9	150.5	12

Teknik Çizim / Technical Drawing



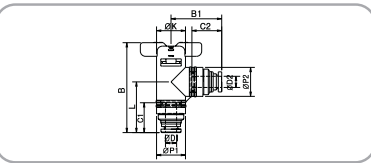
BUL - El Kontrollü Dirsek Vana / Union Elbow



Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	ØK	B	L	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BUL 20-0606	6	6	17	17	17	17	17	52.75	29.75	29.75	5	46	25
BUL 20-0808	8	8	18.5	18.5	17	17	17	52.65	30.25	30.25	6	41.5	25
BUL 60-1010	10	10	21	21	24	24	24	39.3	39.3	39.3	8	105.5	12
BUL 60-1212	12	12	22	22	24	24	24	40.3	40.3	40.3	9	101	12

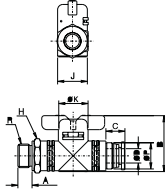
Teknik Çizim / Technical Drawing



BC- El Kontrollü Vana / Straight



Teknik Çizim / Technical Drawing



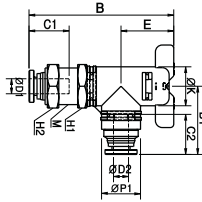
Ölçü Tablosu / Dimension Chart

MODEL	ØD	R	C	ØP	E	L	A	ØK	H	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BL 20-0601	6	G1/8	17	17	23	30.75	6	17	17	53.75	29.75	5	56.5	25
BL 20-0602		G1/4	17	17	23	32.25	8	17	17	55.25	29.75	5	59.5	25
BL 20-0603		G3/8	17	17	23	34.75	10	17	21	57.75	29.75	5	68	25
BL 20-0801	8	G1/8	18.5	17	23	30.75	6	17	17	53.75	30.25	6	54.0	25
BL 20-0802		G1/4	18.5	17	23	32.25	8	17	17	55.75	30.25	6	57.5	25
BL 20-0803		G3/8	18.5	17	23	34.75	10	17	21	57.75	30.25	6	66	25
BL 60-1002	10	G1/4	21	24	28	42.1	8	24	24	70.1	40.1	8	133	12
BL 60-1003		G3/8	21	24	28	44.1	10	24	24	72.1	40.1	8	135.5	12
BL 60-1004		G1/2	21	24	28	46.1	12	24	24	74.1	40.1	8	152.5	12
BL 60-1202	12	G1/4	22	24	28	42.1	8	24	24	70.1	40	8	131	12
BL 60-1203		G3/8	22	24	28	44.1	10	24	24	72.1	40	9	133.5	12
BL 60-1204		G1/2	22	24	28	46.1	12	24	24	74.1	40	9	150.5	12

BLM - El Kontrollü Perde Geçişli Dirsek Vana / Bulkhead Union Elbow



Teknik Çizim / Technical Drawing



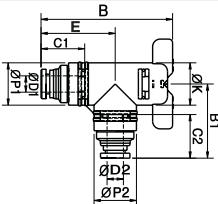
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	M	C1	C2	ØP1	E	ØK	B	H1	H2	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BLM 20-0606	6	6	M16	17	17	17	23	17	63.15	19	19	23	5	46	25
BLM 20-0806	8	6	M16	18.5	17	17	23	17	66.95	19	19	23	5	49	25
BLM 20-0808	8	8	M16	18.5	18.5	17	23	17	67.2	19	19	23	6	47	25
BLM 60-1010	10	10	M22	21	21	24	28	24	84.5	24	26	28	8	105	12
BLM 60-1210	12	10	M22	22	21	24	28	24	84.5	24	26	28	8	119	12
BLM 60-1212	12	12	M22	22	22	24	28	24	84	24	26	28	9	117	12

BLG - El Kontrollü Düşürücü Tip Dirsek Vana / Reducing Union Elbow



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	E	ØK	B	B1	Orfis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
BLG 20-0608	6	8	17	18.5	17	17	29.75	17	52.75	29.75	5	43.5	25
BLG 20-0806	8	6	18.5	17	17	17	30.25	17	53.25	30.25	5	43.5	25
BLG 60-1012	10	12	21	22	24	24	40.1	24	68.1	39.3	8	103.5	12
BLG 60-1210	12	10	22	21	24	24	40.3	24	68.3	40.3	8	103.5	12

EI Kontrollü Valfler 3/2 Konumlu / Ball Valves

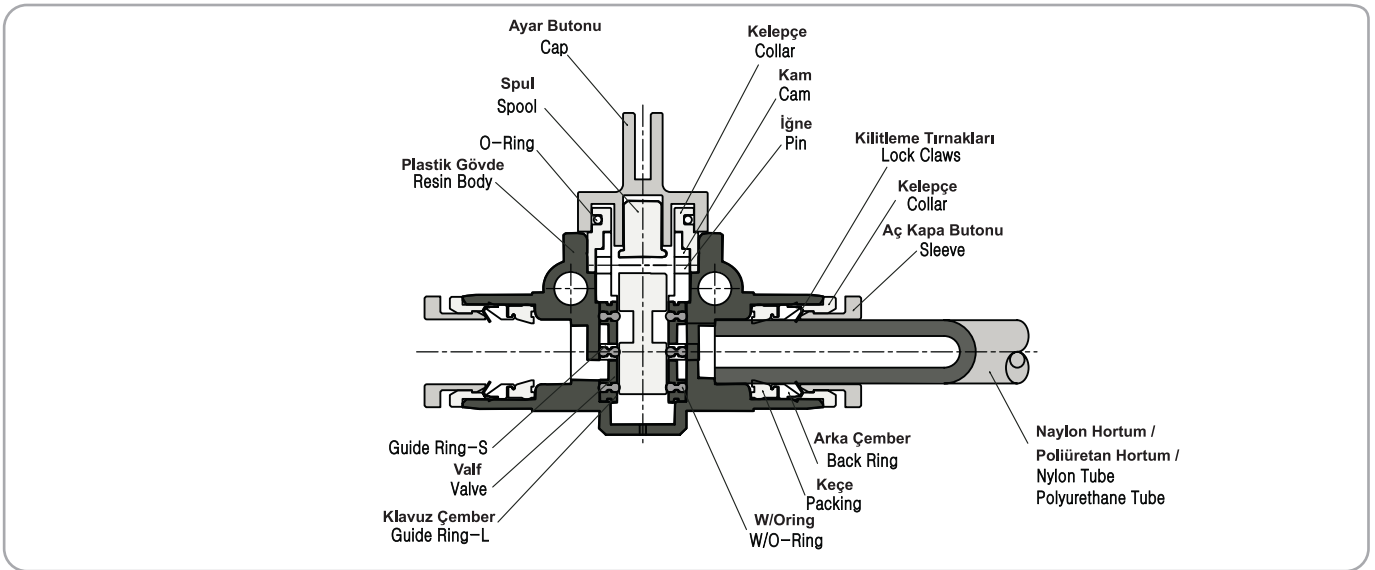
Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60
Kullanılacak Hortum / Applicable Tube	Poliüretan ve Nylon / Polyurathane and Nylon

Kontrol Yöntemi / Control Method

- Üç yollu kontrol valfi, bağlı olan cihazın onarımı ve montajı için güven sağlamak amacıyla, hava kesildiğinde artan havayı dışarı tahliye eder. / The three-way direction control valve, when the air is stopped, discharges residual pressure to the outlet, which assures safety in repairing or adjusting connected devices.
- İki yollu kontrol valfi artan basıncı tahliye etmez ve artan havayı tahliye etmek gerekmez. Uygun tank ve diğer araçlar için. / The two-way direction control valve does not discharge residual pressure, and suitable for the tank or other device that does not require a discharging residual pressure.
- İki yollu kontrol valfi vakum hortumunu kullanıldığı sistemler için de uygundur. / The two-way direction control valve is also suited for the system where a vacuum pipe is used.

Yapısal Diyagram / Structural Diagram



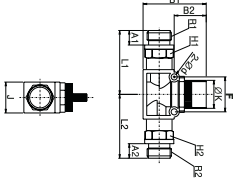
Sipariş Kodu / Ordering Code

HVFS Tip / Type	06 Hortum Çapı (ØD) / Tube Dia	G01 Diş Ölçüsü (T) / Thread Size
EI Kontrollü Valfler Check Valves	06: Ø6	G01: 1/8"
	08: Ø8	G02: 1/4"
	010: Ø10	G03: 3/8"
	012: Ø12	G04: 1/2"

HVSS- Dişli - Dişli Vana / Hand Valve (Thread)



Teknik Çizim / Technical Drawing



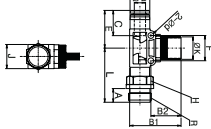
Ölçü Tablosu / Dimension Chart

MODEL	R1	R2	H1	H2	A1	A2	L1	L2	ØK	Ød	B1	B2	F	j	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
HVSS G01-G01	G1/8	G1/8	14	14	6	6	33.5	33.5	16.4	4.2	40.5	22	18.1	17.5	4.8	39.2	25
HVSS G02-G01	G1/4	G1/8	14	14	8	6	36.5	33.5	16.4	4.2	40.5	22	18.1	17.5	4.8	46.4	25
HVSS G02-G02	G1/4	G1/4	14	14	8	8	36.5	36.5	16.4	4.2	40.5	22	18.1	17.5	4.8	54.2	25
HVSS G03-G02	G3/8	G1/4	17	17	10	8	43.9	40.9	19.2	4.2	40.4	19.2	24.4	21	6.8	83.7	20
HVSS G03-G03	G3/8	G3/8	17	17	10	10	43.9	43.9	19.2	4.2	40.4	19.2	24.4	21	6.8	92.8	20
HVSS G04-G03	G1/2	G3/8	19	19	12	10	45.9	43.9	19.2	4.2	40.4	19.2	24.4	21	6.8	105.7	20
HVSS G04-G04	G1/2	G1/2	19	19	12	12	45.9	45.9	19.2	4.2	40.4	19.2	24.4	21	6.8	118	20

HVFS - Hortum - Dişli Vana / Hand Valve (Tube-Thread)



Teknik Çizim / Technical Drawing



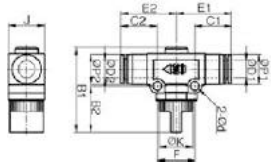
Ölçü Tablosu / Dimension Chart

MODEL	ØD	C	ØP	E	L	R	A	H	ØK	Ød	B1	B2	J	F	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
HVFS 06-G01	6	17	12.4	25.2	33.5	G1/8	6	14	16.4	4.2	40.5	22	17.5	18.1	4.8	30.8	25
HVFS 06-G02		17	12.4	25.2	36.5	G1/4	8	14	16.4	4.2	40.5	22	17.5	18.1	4.8	37	25
HVFS 06-G03		17	12.4	25.2	39.5	G3/8	10	17	16.4	4.2	40.5	22	17.5	18.1	4.8	45.2	25
HVFS 08-G01	8	18.5	14.4	27.7	33.5	G1/8	6	14	16.4	4.2	40.5	22	17.5	18.1	4.8	31.6	25
HVFS 08-G02		18.5	14.4	27.7	36.5	G1/4	8	14	16.4	4.2	40.5	22	17.5	18.1	4.8	37.7	25
HVFS 08-G03		18.5	14.4	27.7	39.5	G3/8	10	17	16.4	4.2	40.5	22	17.5	18.1	4.8	47.3	25
HVFS 10-G02	10	21	17.6	31.4	40.9	G1/4	8	17	19.2	4.2	40.4	19.2	21	24.4	6.8	58.5	20
HVFS 10-G03		21	17.6	31.4	43.9	G3/8	10	17	19.2	4.2	40.4	19.2	21	24.4	6.8	67.7	20
HVFS 10-G04		21	17.6	31.4	45.9	G1/2	12	19	19.2	4.2	40.4	19.2	21	24.4	6.8	90	20
HVFS 12-G02	12	22.5	21	34.3	40.9	G1/4	8	17	19.2	4.2	40.4	19.2	21	24.4	6.8	60.9	20
HVFS 12-G03		22.5	21	34.3	43.9	G3/8	10	17	19.2	4.2	40.4	19.2	21	24.4	6.8	69.6	20
HVFS 12-G04		22.5	21	34.3	45.9	G1/2	12	19	19.2	4.2	40.4	19.2	21	24.4	6.8	82.2	20

HVFF - Hortum - Hortum Vana / Hand Valve (Tube)



Teknik Çizim / Technical Drawing



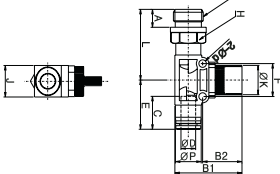
Ölçü Tablosu / Dimension Chart

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	E1	E2	ØK	Ød	B1	B2	F	J	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
HVFF 06-06	6	6	17	17	12.4	12.4	25.2	25.2	16.4	4.2	40.5	22	18.1	17.5	4.8	23.4	25
HVFF 08-06	8	6	18.5	17	14.4	12.4	27.7	25.2	16.4	4.2	40.5	22	18.1	17.5	4.8	24.1	25
HVFF 08-08	8	8	18.5	18.5	14.4	14.4	27.7	27.7	16.4	4.2	40.5	22	20	21	4.8	25	25
HVFF 10-10	10	10	21	21	17.6	17.6	31.4	31.4	19.2	4.2	40.4	19.2	24.4	21	6.8	42.7	20
HVFF 12-10	12	10	22.5	21	21	17.6	34.3	31.4	19.2	4.2	40.4	19.2	24.4	21	6.8	44.9	16
HVFF 12-12			22.5	22.5	21	21	34.3	34.3	19.2	4.2	40.4	19.2	24.4	21	6.8	47	16

HVSF - Dişli-Hortum Vana / Hand Valve (Thread - Tube)



Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	ØD	C	ØP	E	L	R	A	H	ØK	Ød	B1	B2	J	F	Orifis (mm) Orifice (mm)	Ağırlık (g) Weight (g)	Adet/Kutu Qty / Box
HVSF 06-G01	6	17	12.4	25.2	33.5	G1/8	6	14	16.4	4.2	40.5	22	17.5	18.1	4.8	31.9	25
HVSF 06-G02		17	12.4	25.2	36.5	G1/4	8	14	16.4	4.2	40.5	22	17.5	18.1	4.8	38.9	25
HVSF 06-G03		17	12.4	25.2	39.5	G3/8	10	17	16.4	4.2	40.5	22	17.5	18.1	4.8	46.4	25
HVSF 08-G01	8	18.5	14.4	27.7	33.5	G1/8	6	14	16.4	4.2	40.5	22	17.5	18.1	4.8	32.8	25
HVSF 08-G02		18.5	14.4	27.7	36.5	G1/4	8	14	16.4	4.2	40.5	22	17.5	18.1	4.8	39.8	25
HVSF 08-G03		18.5	14.4	27.7	39.5	G3/8	10	17	16.4	4.2	40.5	22	17.5	18.1	4.8	45.2	25
HVSF 10-G02	10	21	17.6	31.4	40.9	G1/4	8	17	19.2	4.2	40.4	19.2	21	24.4	6.8	59.8	20
HVSF 10-G03		21	17.6	31.4	43.9	G3/8	10	17	19.2	4.2	40.4	19.2	21	24.4	6.8	65.3	20
HVSF 10-G04		21	17.6	31.4	45.9	G1/2	12	19	19.2	4.2	40.4	19.2	21	24.4	6.8	80	20
HVSF 12-G02	12	22.5	21	34.3	40.9	G1/4	8	17	19.2	4.2	40.4	19.2	21	24.4	6.8	62.8	20
HVSF 12-G03		22.5	21	34.3	43.9	G3/8	10	17	19.2	4.2	40.4	19.2	21	24.4	6.8	69.3	20
HVSF 12-G04		22.5	21	34.3	45.9	G1/2	12	19	19.2	4.2	40.4	19.2	21	24.4	6.8	81.9	20

Hava Tabancası / Air Gun

Teknik Özellikler / Technical Specification

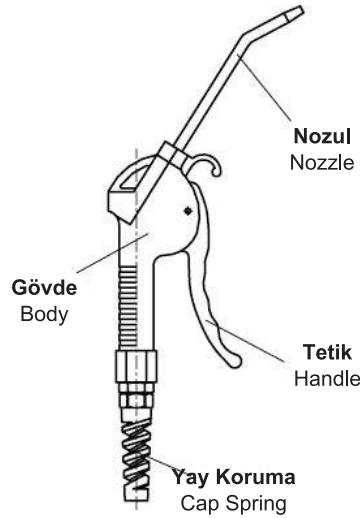
Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Sıcaklık / Temperature (C°)	0 ~ 60

Kullanım / Case in Use



- Tehlikeli parçaları temizleme ve yabancı maddeleri makineden uzaklaştırmada elverişlidir. (CNC Torna, Otomatik Torna, Kaldıraç ve Pres) / Convenient to clean dangerous parts and to remove foreign substances from the machine (CNC LATHE, AUTOMATIC LATHE, CATAPLUT and PRESS)

Yapısal Diyagram / Structural Diagram

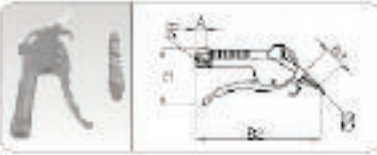


Sipariş Kodu / Ordering Code

AG	08	02	S		B
Tip / Type	Hortum Çapı (ØD) Tube Dia	Diş Ölçüsü (T) Thread Size	Nozul Ölçüsü Nozzle Size		Renk Color
			Tip Type	Ölçü Size	
Hava Tabancası Air Gun	08: Ø8 010: Ø10	02: 1/4" 03: 3/8"	S	Kısa Short	B : Siyah / Black R : Kırmızı / Red BU : Mavi / Blue
			M	Orta Medium	
			L	Uzun Long	

AG-S - Hava Tabancası (Kısa) / Air Gun (Short)

Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	B1	B2	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 0802S	25	158	95	2,5	G1/4	12	143,8	50
AIR GUN 1002S	25	158	95	2,5	G1/4	12	143,8	50
AIR GUN 1003S	25	158	95	2,5	G3/8	12	143,8	50

AG-M - Hava Tabancası (Orta) / Air Gun (Medium)

Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

MODEL	B1	B2	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 0802M	105	231	95	2,5	G1/4	12	145,8	50
AIR GUN 1002M	105	231	95	2,5	G1/4	12	145,8	50
AIR GUN 1003M	105	231	95	2,5	G3/8	12	145,8	50

AG-L - Hava Tabancası (Uzun) / Air Gun (Long)

Teknik Çizim / Technical Drawing

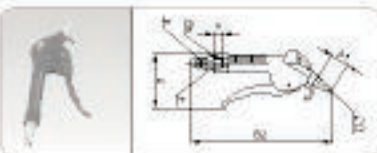


Ölçü Tablosu / Dimension Chart

MODEL	B1	B2	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 0802L	221	252	95	2,5	G1/4	12	154,4	30
AIR GUN 1002L	221	252	95	2,5	G1/4	12	154,4	30
AIR GUN 1003L	221	252	95	2,5	G3/8	12	154,4	30

AG-SP - Hava Tabancası (Kısa) / Air Gun (Short)

Teknik Çizim / Technical Drawing

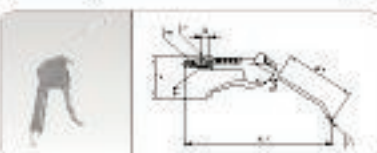


Ölçü Tablosu / Dimension Chart

MODEL	B1	B2	F	H	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 02SP	25	187	GM22	14	95	2,5	Rc1/4	12	143,8	50

AG-MP - Hava Tabancası (Orta) / Air Gun (Medium)

Teknik Çizim / Technical Drawing

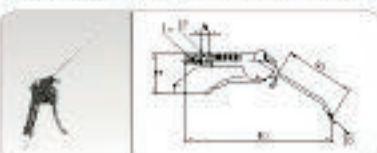


Ölçü Tablosu / Dimension Chart

MODEL	B1	B2	F	H	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 02SP	25	187	GM22	14	95	2,5	Rc1/4	12	143,8	50

AG-LP - Hava Tabancası (Uzun) / Air Gun (Long)

Teknik Çizim / Technical Drawing



Ölçü Tablosu / Dimension Chart

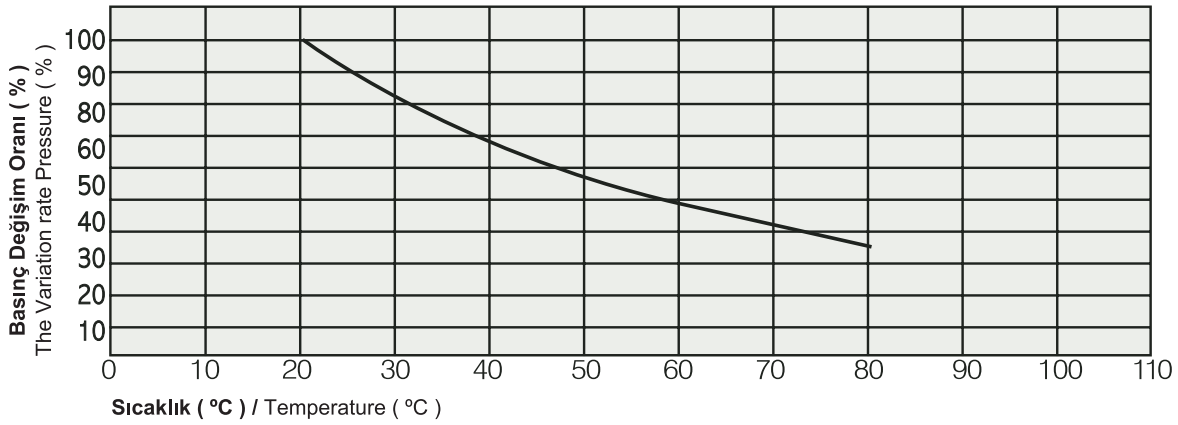
MODEL	B1	B2	F	H	C	ØD	Re	A	Ağırlık (kg)	Akış Hızı (L/s)
AIR GUN 02SP	25	187	GM22	14	95	2,5	Rc1/4	12	143,8	50

Hortumlar / Tubes

Teknik Özellikler / Technical Specification

Akışkan / Fluid	Hava (Diğer gazlar ve sıvılarda kullanılmaz) / Air (No other gases or liquids)
Çalışma Basıncı / Operating Pressure	0 ~ 9 bar / 0 ~ 0.9 MPa / 0 ~ 150 Psi
Negatif Basıncı (Vakum) / Negative Pressure	- 750 mm Hg / - 99.97 kPa
Sıcaklık / Temperature (C°)	0 ~ 60

Basınç Grafiği / Working Pressure



- Hortumun sıcaklık limitleri / Temperature limits of tube

Poliüretan / Polyurethane : -40°C ~ 80°C

Teflon / Teflon : -180°C ~ 220°C

Sipariş Kodu / Ordering Code

U	0850			BK	05
Tip / Type	Tip Type	Hortum Dış Çapı Tube Outer Dia	Hortum İç Çapı Tube Inner Dia	Renk Color	Uzunluk Lenght (m)
U: Hortum Tube	03020	03: Ø3	20: Ø2	C : Şeffaf / Clear BK : Siyah / Black R : Kırmızı / Red BU : Mavi / Blue Y : Sarı / Yellow G : Yeşil / Green W : Beyaz / White O : Turuncu / Orange	
	04020	04: Ø4	20: Ø2		
	04025	04: Ø4	25: Ø2.5		
	06040	06: Ø6	40: Ø4		
	08050	08: Ø8	50: Ø5		
UC: Spiral Hortum Coil Tube	08055	08: Ø8	55: Ø5.5		
	10065	10: Ø10	65: Ø6.5		
	12080	12: Ø12	80: Ø8		
	12090	12: Ø12	90: Ø9		
	16110	16: Ø16	11: Ø11		

U - Poliüretan Hortum / Polyurethane Tube



Ölçü Tablosu / Dimension Chart

MODEL	O.D.	I.D.	Packing Unit (m)	Bükme Yarıçapı Curve Radius	Patlama Basıncı Burst Pressure	W.G (g)	color							
							C	BK	R	BU	Y	G	W	O
U- 03020	3	2	25,50,200	8	30	7	°	°	°	°	°	°	°	°
U- 04020	4	2	25,50,200	10	30	9	°	°	°	°	°	°	°	°
U- 04025	4	2.5	25,50,200	10	30	9	°	°	°	°	°	°	°	°
U- 06040	6	4	25,50,100	15	30	19	°	°	°	°	°	°	°	°
U- 08050	8	5	25,50,100	24	30	36	°	°	°	°	°	°	°	°
U- 08055	8	5.5	25,50,100	24	30	36	°	°	°	°	°	°	°	°
U- 08060	8	6	25,50,100	24	30	36	°	°	°	°	°	°	°	°
U- 10065	10	6.5	25,50,100	30	30	54	°	°	°	°	°	°	°	°
U- 10070	10	7	25,50,100	30	30	54	°	°	°	°	°	°	°	°
U- 10075	10	7.5	25,50,100	30	30	54	°	°	°	°	°	°	°	°
U- 12080	12	8	25,50,100	36	30	74	°	°	°	°	°	°	°	°
U- 12090	12	9	25,50,100	36	30	74	°	°	°	°	°	°	°	°
U- 16110	16	11	25,50,100	36	30	128	°	°	°	°	°	°	°	°
U- 16120	16	12	25,50,100	36	30	128	°	°	°	°	°	°	°	°

UC - Spiralli Hortum / Spiralling Tube



Ölçü Tablosu / Dimension Chart

MODEL	O.D.	I.D.	Bükme Yarıçapı Length (m)	Patlama Basıncı Working (m)	A	B	C	D	W.G (g)	Renk / Color							
										C	BK	R	BU	Y	G	O	
UC-0402-15	4	2	1.5	1.2	25.3	78	70	70	218	°	°	°	°	°	°	°	
UC-0402-30	4	2	3	2.4	25.3	167	70	70	307	°	°	°	°	°	°	°	
UC-0402-45	4	2	4.5	3.6	25.3	257	70	70	397	°	°	°	°	°	°	°	
UC-0604-15	6	4	1.5	1.2	42	69	80	80	229	°	°	°	°	°	°	°	
UC-0604-30	6	4	3	2.4	42	150	80	80	310	°	°	°	°	°	°	°	
UC-0604-45	6	4	4.5	3.6	42	228	80	80	388	°	°	°	°	°	°	°	
UC-0805-35	8	5	3.5	2.8	50	200	90	90	380	°	°	°	°	°	°	°	
UC-0805-50	8	5	5	4	50	291	90	90	471	°	°	°	°	°	°	°	
UC-0805-75	8	5	7.5	6	50	443	90	90	623	°	°	°	°	°	°	°	
UC-0805-100	8	5	10	8	50	594	90	90	774	°	°	°	°	°	°	°	
UC-1065-35	10	6.5	3.5	2.8	62.7	199	100	100	399	°	°	°	°	°	°	°	
UC-1065-50	10	6.5	5	4	62.7	290	100	100	490	°	°	°	°	°	°	°	
UC-1065-75	10	6.5	7.5	6	62.7	441	100	100	641	°	°	°	°	°	°	°	
UC-1065-100	10	6.5	10	8	62.7	592	100	100	792	°	°	°	°	°	°	°	
UC-1208-35	12	8	3.5	2.8	84.5	174	100	100	374	°	°	°	°	°	°	°	
UC-1208-50	12	8	5	4	84.5	253	100	100	453	°	°	°	°	°	°	°	
UC-1208-75	12	8	7.5	6	84.5	385	100	100	585	°	°	°	°	°	°	°	
UC-1208-100	12	8	10	8	84.5	517	100	100	717	°	°	°	°	°	°	°	

PTFE - Teflon Hortum / Teflon Tube



Ölçü Tablosu / Dimension Chart

MODEL	Dış Çap Outside Dia (mm)	İç Çap Inside Dia (mm)
PTFE 4x2	4	2
PTFE 6x4	6	4
PTFE 8x6	8	6
PTFE 10x8	10	8
PTFE 12x10	12	10

MPC- Rekor Bağlantı / Male Connector

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPC4-G01	4	G1/8	MPC10-G03	10	G3/8
MPC4-G02	4	G1/4	MPC10-G04	10	G1/2
MPC5-G01	5	G1/8	MPC12-G02	12	G1/4
MPC5-G02	5	G1/4	MPC12-G03	12	G3/8
MPC6-G01	6	G1/8	MPC12-G04	13	G1/2
MPC6-G02	6	G1/4	MPC14-G03	14	G3/8
MPC8-G01	8	G1/8	MPC14-G04	14	G1/2
MPC8-G02	8	G1/4	MPC16-G03	16	G3/8
MPC8-G03	8	G3/8	MPC16-G04	16	G1/2
MPC10-G02	10	G1/4			

MPOC- Yuvarlak Rekor Bağlantı / Round Male Straight

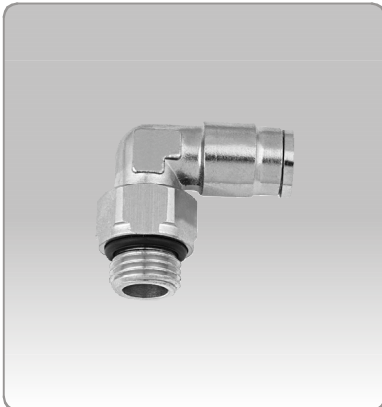
Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPOC4-G01	4	G1/8	MPOC10-G03	10	G3/8
MPOC4-G02	4	G1/4	MPOC10-G04	10	G1/2
MPOC5-G01	5	G1/8	MPOC12-G02	12	G1/4
MPOC5-G02	5	G1/4	MPOC12-G03	12	G3/8
MPOC6-G01	6	G1/8	MPOC12-G04	12	G1/2
MPOC6-G02	6	G1/4	MPOC14-G03	14	G3/8
MPOC8-G01	8	G1/8	MPOC14-G04	14	G1/2
MPOC8-G02	8	G1/4	MPOC16-G03	16	G3/8
MPOC8-G03	8	G3/8	MPOC16-G04	16	G1/2
MPOC10-G02	10	G1/4			

MPCF- Dişi Rekor / Female Connector

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPCF4-G01	4	G1/8	MPCF10-G03	10	G3/8
MPCF4-G02	4	G1/4	MPCF10-G04	10	G1/2
MPCF5-G01	5	G1/8	MPCF12-G02	12	G1/4
MPCF5-G02	5	G1/4	MPCF12-G03	12	G3/8
MPCF6-G01	6	G1/8	MPCF12-G04	12	G1/2
MPCF6-G02	6	G1/4	MPCF14-G03	14	G3/8
MPCF8-G01	8	G1/8	MPCF14-G04	14	G1/2
MPCF8-G02	8	G1/4	MPCF16-G03	16	G3/8
MPCF8-G03	8	G3/8	MPCF16-G04	16	G1/2
MPCF10-G02	10	G1/4			

MPL- Döner Dirsek Bağlantı / Swivel Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPL4-G01	4	G1/8	MPL10-G03	10	G3/8
MPL4-G02	4	G1/4	MPL10-G04	10	G1/2
MPL5-G01	5	G1/8	MPL12-G02	12	G1/4
MPL5-G02	5	G1/4	MPL12-G03	12	G3/8
MPL6-G01	6	G1/8	MPL12-G04	12	G1/2
MPL6-G02	6	G1/4	MPL14-G03	14	G3/8
MPL8-G01	8	G1/8	MPL14-G04	14	G1/2
MPL8-G02	8	G1/4	MPL16-G03	16	G3/8
MPL8-G03	8	G3/8	MPL16-G04	16	G1/2
MPL10-G02	10	G1/4			

MPLF- Dişi Döner Dirsek / Female Swivel Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPLF4-G01	4	G1/8	MPLF10-G03	10	G3/8
MPLF4-G02	4	G1/4	MPLF10-G04	10	G1/2
MPLF5-G01	5	G1/8	MPLF12-G02	12	G1/4
MPLF5-G02	5	G1/4	MPLF12-G03	12	G3/8
MPLF6-G01	6	G1/8	MPLF12-G04	12	G1/2
MPLF6-G02	6	G1/4	MPLF14-G03	14	G3/8
MPLF8-G01	8	G1/8	MPLF14-G04	14	G1/2
MPLF8-G02	8	G1/4	MPLF16-G03	16	G3/8
MPLF8-G03	8	G3/8	MPLF16-G04	16	G1/2
MPLF10-G02	10	G1/4			

MPT - Orta Bacak Te / Swivel Tee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPT4-G01	4	G1/8	MPT10-G03	10	G3/8
MPT4-G02	4	G1/4	MPT10-G04	10	G1/2
MPT5-G01	5	G1/8	MPT12-G02	12	G1/4
MPT5-G02	5	G1/4	MPT12-G03	12	G3/8
MPT6-G01	6	G1/8	MPT12-G04	12	G1/2
MPT6-G02	6	G1/4	MPT14-G03	14	G3/8
MPT8-G01	8	G1/8	MPT14-G04	14	G1/2
MPT8-G02	8	G1/4	MPT16-G03	16	G3/8
MPT8-G03	8	G3/8	MPT16-G04	16	G1/2
MPT10-G02	10	G1/4			

MPD - Yan Bacak Te / Service Tee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPD4-G01	4	G1/8	MPD10-G03	10	G3/8
MPD4-G02	4	G1/4	MPD10-G04	10	G1/2
MPD5-G01	5	G1/8	MPD12-G02	12	G1/4
MPD5-G02	5	G1/4	MPD12-G03	12	G3/8
MPD6-G01	6	G1/8	MPD12-G04	12	G1/2
MPD6-G02	6	G1/4	MPD14-G03	14	G3/8
MPD8-G01	8	G1/8	MPD14-G04	14	G1/2
MPD8-G02	8	G1/4	MPD16-G03	16	G3/8
MPD8-G03	8	G3/8	MPD16-G04	16	G1/2
MPD10-G02	10	G1/4			

MPH - Kısa Döner Dirsek / Short Swivel Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPH4-G01	4	G1/8	MPH10-G03	10	G3/8
MPH4-G02	4	G1/4	MPH10-G04	10	G1/2
MPH5-G01	5	G1/8	MPH12-G02	12	G1/4
MPH5-G02	5	G1/4	MPH12-G03	12	G3/8
MPH6-G01	6	G1/8	MPH12-G04	12	G1/2
MPH6-G02	6	G1/4	MPH14-G03	14	G3/8
MPH8-G01	8	G1/8	MPH14-G04	14	G1/2
MPH8-G02	8	G1/4	MPH16-G03	16	G3/8
MPH8-G03	8	G3/8	MPH16-G04	16	G1/2
MPH10-G02	10	G1/4			

MPHF - Ara Kısa Döner Dirsek / Female Short Swivel Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPHF4-G01	4	G1/8	MPHF10-G03	10	G3/8
MPHF4-G02	4	G1/4	MPHF10-G04	10	G1/2
MPHF5-G01	5	G1/8	MPHF12-G02	12	G1/4
MPHF5-G02	5	G1/4	MPHF12-G03	12	G3/8
MPHF6-G01	6	G1/8	MPHF12-G04	12	G1/2
MPHF6-G02	6	G1/4	MPHF14-G03	14	G3/8
MPHF8-G01	8	G1/8	MPHF14-G04	14	G1/2
MPHF8-G02	8	G1/4	MPHF16-G03	16	G3/8
MPHF8-G03	8	G3/8	MPHF16-G04	16	G1/2
MPHF10-G02	10	G1/4			

MPUC-Nipel Bağlantı / Union Connector

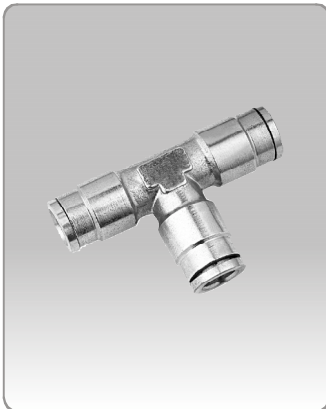
Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPUC04	4
MPUC05	5
MPUC06	6
MPUC08	8
MPUC10	10
MPUC12	12
MPUC14	14
MPUC16	16

MPUL - Dirsek / Union Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPUL04	4
MPUL05	5
MPUL06	6
MPUL08	8
MPUL10	10
MPUL12	12
MPUL14	14
MPUL16	16

MPUT - Te Bağlantı / Union Tee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPUT04	4
MPUT05	5
MPUT06	6
MPUT08	8
MPUT10	10
MPUT12	12
MPUT14	14
MPUT16	16

MPY - Ye Bağlantı / Union Yee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPY04	4
MPY04	5
MPY06	6
MPY08	8
MPY10	10
MPY12	12
MPY14	14
MPY16	16

MPX - Orta Bacak Dişli Ye / Threaded Yee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MPX4-G01	4	G1/8	MPX10-G03	10	G3/8
MPX4-G02	4	G1/4	MPX10-G04	10	G1/2
MPX5-G01	5	G1/8	MPX12-G02	12	G1/4
MPX5-G02	5	G1/4	MPX12-G03	12	G3/8
MPX6-G01	6	G1/8	MPX12-G04	12	G1/2
MPX6-G02	6	G1/4	MPX14-G03	14	G3/8
MPX8-G01	8	G1/8	MPX14-G04	14	G1/2
MPX8-G02	8	G1/4	MPX16-G03	16	G3/8
MPX8-G03	8	G3/8	MPX16-G04	16	G1/2
MPX10-G02	10	G1/4			

MPM-Perde Geçiş Nipeli / Bulkhead Connector



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPM04	4
MPM05	5
MPM06	6
MPM08	8
MPM10	10
MPM12	12
MPM14	14
MPM16	16

MPLJ-Boru Girişli Dirsek / Male Union Elbow



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPLJ04	4
MPLJ05	5
MPLJ06	6
MPLJ08	8
MPLJ10	10
MPLJ12	12
MPLJ14	14
MPLJ16	16

MPGJ- Boru Girişli Redüksiyon / Male Reducer



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.1) (mm)	Hortum (Dış çap) Tube (O.D.2) (mm)	MODEL	Hortum (Dış çap) Tube (O.D.1) (mm)	Hortum (Dış çap) Tube (O.D.2) (mm)
MPGJ4-4	4	5	MPGJ10-14	10	14
MPGJ4-6	4	5	MPGJ12-14	12	14
MPGJ4-8	4	8			
MPGJ5-6	5	6			
MPGJ5-8	5	8			
MPGJ6-8	6	8			
MPGJ6-10	6	10			
MPGJ6-12	6	12			
MPGJ8-12	8	12			
MPGJ10-12	10	12			

MPP - Dişi Kör Tapa / Female Blank Cap



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPP-04	4
MPP-05	5
MPP-06	6
MPP-08	8
MPP-10	10
MPP-12	12
MPP-14	14
MPP-16	16

MPZA - Kruva / Union Plus



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
MPZA-04	4
MPZA-05	5
MPZA-06	6
MPZA-08	8
MPZA-10	10
MPZA-12	12
MPZA-14	14
MPZA-16	16

MNSE - Dirsek Tipi Hız Ayar / Elbow Speed Controller



Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
MNSE4-G01	4	G1/8	MNSE10-G03	10	G3/8
MNSE4-G02	4	G1/4	MNSE10-G04	10	G1/2
MNSE5-G01	5	G1/8	MNSE12-G02	12	G1/4
MNSE5-G02	5	G1/4	MNSE12-G03	12	G3/8
MNSE6-G01	6	G1/8	MNSE12-G04	12	G1/2
MNSE6-G02	6	G1/4	MNSE14-G03	14	G3/8
MNSE8-G01	8	G1/8	MNSE14-G04	14	G1/2
MNSE8-G02	8	G1/4	MNSE16-G03	16	G3/8
MNSE8-G03	8	G3/8	MNSE16-G04	16	G1/2
MNSE10-G02	10	G1/4			

PSM - Nipel / Straight Male



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PSM G01-G01	G1/8
PSM G02-G02	G1/4
PSM G03-G03	G3/8
PSM G04-G04	G1/2

PSF - Manşon / Straight Female



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PSF G01-G01	G1/8
PSF G02-G02	G1/4
PSF G03-G03	G3/8
PSF G04-G04	G1/2

PEL - Erkek Dirsek / Equal Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PEL G01-G01	G1/8
PEL G02-G02	G1/4
PEL G03-G03	G3/8
PEL G04-G04	G1/2

PFL - Dişi Dirsek / Equal Female Elbow



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PFL G01-G01	G1/8
PFL G02-G02	G1/4
PFL G03-G03	G3/8
PFL G04-G04	G1/2

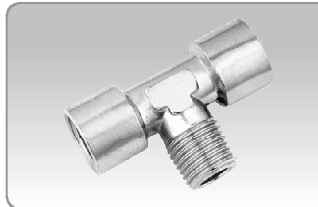
PEFL - Kuyruklu Dirsek / Equal Female Male Elbow



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PEFL G01-G01	G1/8
PEFL G02-G02	G1/4
PEFL G03-G03	G3/8
PEFL G04-G04	G1/2

PMT - Orta Bacak Tee / Male Branch Tee



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PMT G01-G01	G1/8
PMT G02-G02	G1/4
PMT G03-G03	G3/8
PMT G04-G04	G1/2

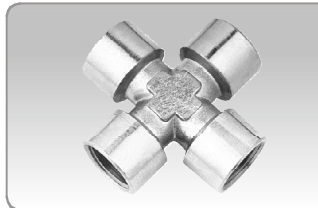
PFT - Te Bağlantı / Equal Female Te



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PFT G01-G01	G1/8
PFT G02-G02	G1/4
PFT G03-G03	G3/8
PFT G04-G04	G1/2

PFC - Kruva / Equal Female Cross



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PFC G01-G01	G1/8
PFC G02-G02	G1/4
PFC G03-G03	G3/8
PFC GT4-G04	G1/2

PO - Körtapa / Plug



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PO G01-G01	G1/8
PO G02-G02	G1/4
PO G03-G03	G3/8
PO GT4-G04	G1/2

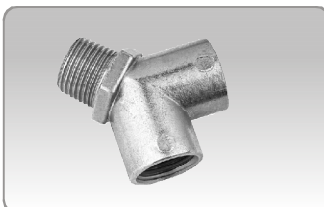
POO - Set Skur / Set Screw



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
POOG01-G01	G1/8
POOG02-G02	G1/4
POOG03-G03	G3/8
POOG04-G04	G1/2

PYT - Orta Bacak Ye / Male Yee



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PYTG01-G01	G1/8
PYTG02-G02	G1/4
PYTG03-G03	G3/8
PYTG04-G04	G1/2

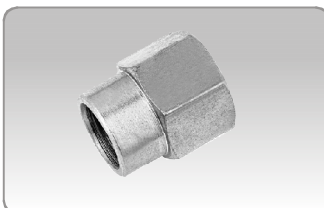
PZ - İç & Dış Dişli / In & Out Thread



Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PZG01-G01	G1/8
PZG02-G02	G1/4
PZG03-G03	G3/8
PZG04-G04	G1/2

PBF - Dişi Düşürücü / Different Female



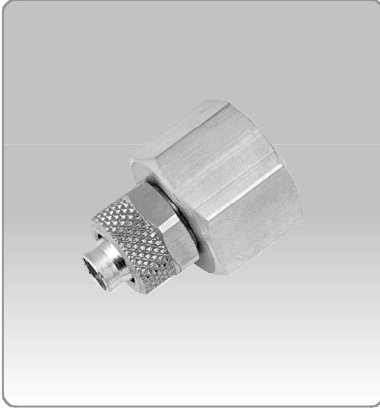
Ölçü Tablosu / Dimension Chart

MODEL	Diş / Thread (G)
PBFG01-G01	G1/8
PBFG02-G02	G1/4
PBFG03-G03	G3/8
PBFG04-G04	G1/2

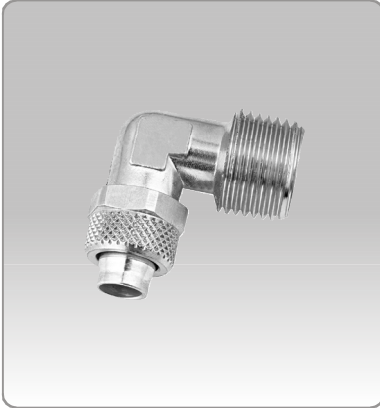
RPC- Rekor Bağlantı / Male Connector

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
RPC-5/3-G01	5/3	G1/8	RPC-10/8-G04	10/8	G1/2
RPC-6/4-G01	6/4	G1/8	RPC-12/10-G03	10/8	G3/8
RPC-6/4-G02	6/4	G1/4	RPC-12/10-G04	10/8	G1/2
RPC-6/4-G03	6/4	G3/8			
RPC-8/6-G01	8/6	G1/8			
RPC-8/6-G02	8/6	G1/4			
RPC-8/6-G03	8/6	G3/8			
RPC-10/8-G01	10/8	G1/8			
RPC-10/8-G02	10/8	G1/4			
RPC-10/8-G03	10/8	G3/8			

RPCF-Dişi Rekor Bağlantı / Female Connector

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
RPCF-5/3-G01	5/3	G1/8	RPCF-10/8-G04	10/8	G1/2
RPCF-6/4-G01	6/4	G1/8	RPCF-12/10-G03	12/10	G3/8
RPCF-6/4-G02	6/4	G1/4	RPCF-12/10-G04	12/10	G1/2
RPCF-6/4-G03	6/4	G3/8			
RPCF-8/6-G01	8/6	G1/8			
RPCF-8/6-G02	8/6	G1/4			
RPCF-8/6-G03	8/6	G3/8			
RPCF-10/8-G01	10/8	G1/8			
RPCF-10/8-G02	10/8	G1/4			
RPCF-10/8-G03	10/8	G3/8			

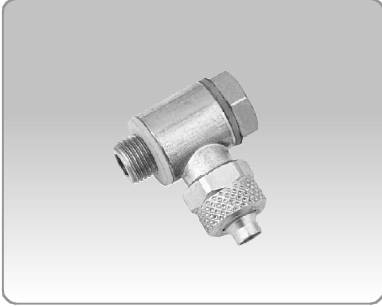
RPL - Dirsek Bağlantı / Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
RPL-5/3-G01	5/3	G1/8	RPL-10/8-G04	10/8	G1/2
RPL-6/4-G01	6/4	G1/8	RPL-12/10-G03	12/10	G3/8
RPL-6/4-G02	6/4	G1/4	RPL-12/10-G04	12/10	G1/2
RPL-6/4-G03	6/4	G3/8			
RPL-8/6-G01	8/6	G1/8			
RPL-8/6-G02	8/6	G1/4			
RPL-8/6-G03	8/6	G3/8			
RPL-10/8-G01	10/8	G1/8			
RPL-10/8-G02	10/8	G1/4			
RPL-10/8-G03	10/8	G3/8			

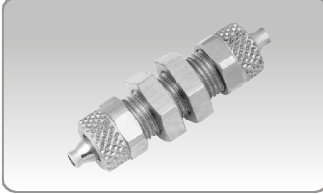
RPST - Yan Bacak Te / Swivel Tee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
RPST-5/3-G10	5/3	G1/8	RPST-10/8-G04	10/8	G1/2
RPST-6/4-G01	6/4	G1/8	RPST-12/10-G03	12/10	G3/8
RPST-6/4-G02	6/4	G1/4	RPST-12/10-G04	12/10	G1/2
RPST-6/4-G03	6/4	G3/8			
RPST-8/6-G01	8/6	G1/8			
RPST-8/6-G02	8/6	G1/4			
RPST-8/6-G03	8/6	G3/8			
RPST-10/8-G01	10/8	G1/8			
RPST-10/8-G02	10/8	G1/4			
RPST-10/8-G03	10/8	G3/8			

RPH - Kısa Döner Dirsek / Short Swivel Elbow

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)	MODEL	Hortum (Dış çap) Tube (O.D.) (mm)	Bağlantı Dişi (G) Thread (BSPP)
RPH-5/3-G01	5/3	G1/8	RPH-10/8-G04	10/8	G1/2
RPH-6/4-G01	6/4	G1/8	RPH-12/10-G03	12/10	G3/8
RPH-6/4-G02	6/4	G1/4	RPH-12/10-G04	12/10	G1/2
RPH-6/4-G03	6/4	G3/8			
RPH-8/6-G01	8/6	G1/8			
RPH-8/6-G02	8/6	G1/4			
RPH-8/6-G03	8/6	G3/8			
RPH-10/8-G01	10/8	G1/8			
RPH-10/8-G02	10/8	G1/4			
RPH-10/8-G03	10/8	G3/8			

RPM - Perde Geçiş Nipeli / Bulkhead Union

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
RPM-5/3	5/3
RPM-6/4	6/4
RPM-8/6	8/6
RPM-10/8	10/8
RPM-12/10	12/10

RPUC - Nipel Bağlantı / Union Straight

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) Tube (O.D.) (mm)
RPUC-5/3	5/3
RPUC-6/4	6/4
RPUC-8/6	8/6
RPUC-10/8	10/8
RPUC-12/10	12/10

RPUT- Te Bağlantı / Union Tee

Ölçü Tablosu / Dimension Chart

MODEL	Hortum (Dış çap) / Tube (O.D.) (mm)
RPUT-5/3	5/3
RPUT-6/4	6/4
RPUT-8/6	8/6
RPUT-10/8	10/8
RPUT-12/10	12/10

Susturucular / Silencers
BSL - Sinter Susturucu / Sinter Silencer

Ölçü Tablosu / Dimension Chart

MODEL	Bağlantı Dişi (G) Thread (BSPP)
BSL-M5	M 5
BSL-01	G 1/8
BSL-02	G 1/4
BSL-03	G 3/8
BSL-04	G 1/2
BSL-06	G 3/4
BSL-08	G 1

BSLM - Tapa Susturucu / Plug Silencer

Ölçü Tablosu / Dimension Chart

MODEL	Bağlantı Dişi (G) Thread (BSPP)
BSLM-M5	M 5
BSLM-01	G 1/8
BSLM-02	G 1/4
BSLM-03	G 3/8
BSLM-04	G 1/2
BSLM-06	G 3/4
BSLM-08	G 1

ISD - Hız Ayarlı Susturucu / Speed Controller Silencer

Ölçü Tablosu / Dimension Chart

MODEL	Bağlantı Dişi (G) Thread (BSPP)
ISD-M5	M 5
ISD-01	G 1/8
ISD-02	G 1/4
ISD-03	G 3/8
ISD-04	G 1/2
ISD-06	G 3/4
ISD-08	G 1

ST - Plastik Susturucu / Plastic Silencer

Ölçü Tablosu / Dimension Chart

MODEL	Bağlantı Dişi (G) Thread (BSPP)
BESL-01	G 1/8
BESL-02	G 1/4
BESL-03	G 3/8
BESL-04	G 1/2

Paslanmaz Çelik Fittingsler / Stainless Steel Fittings



**316 L
Kalite**

Paslanmaz Fittingslerin malzemelerinin hepsi, conta hariç 545 316'dan imal edilmiştir. Korozyona ve aside dayanıklı aynı zamanda yüksek sıcaklıkta kullanılabilir. Paslanmaz fittingsler yağsızdır. Gıda hizmet sektörü, kimya sanayi ve medikal sektörlerinde yaygın bir şekilde kullanılır.

The materials ensure Anti-Corrosion highly, all of them are made from 545 316 except the seal ring. FKM is used as the seal ring, which can ensure Anti-Corrosion and acid resistant, also can be used in high temperature. The accessories are oil-free which are applied widely in the range of industry such as food service industry, chemical industry and medical industry.

Hava, Su, Buhar	Air, Water, Steam
12 bar	12 bar
Max; 18 bar	Max; 18 bar
-20/+120 °C	-20/+120 °C



**WINMAN PASLANMAZ
PNÖMATİK REKOR SSC-G**
WINMAN STAINLESS STEEL
MALE STRAIGHT

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSC04-G01	SSC10-G02
SSC06-G01	SSC10-G03
SSC06-G02	SSC12-G03
SSC08-G01	SSC12-G04
SSC08-G02	



**WINMAN PASLANMAZ
PNÖMATİK DİRSEK SSL-G**
WINMAN STAINLESS STEEL
MALE ELBOW

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSL04-G01	SSL10-G02
SSL06-G01	SSL10-G02
SSL06-G02	SSL10-G03
SSL08-G01	SSL12-G03
SSL08-G02	SSL12-G04



**WINMAN PASLANMAZ PNÖMATİK
ORTA BACAK TE SSB-G**
WINMAN STAINLESS STEEL MALE
BRANCH TEE

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSB04-G01	SSB10-G02
SSB06-G01	SSB10-G02
SSB06-G02	SSB10-G03
SSB08-G01	SSB12-G03
SSB08-G02	SSB12-G04



**WINMAN PASLANMAZ
PNÖMATİK DİRSEK SSV-G**
WINMAN STAINLESS STEEL
UNION ELBOW

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSV04	SSV10
SSV06	SSV12
SSV08	



**WINMAN PASLANMAZ PNÖMATİK
PERDE GEÇİŞ NİPELİ SSM-G**
WINMAN STAINLESS STEEL
BULKHEAD UNION

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSM04	SSM10
SSM06	SSM12
SSM08	



**WINMAN PASLANMAZ
PNÖMATİK NİPEL SSU-G**
WINMAN STAINLESS
STEEL REDUCER

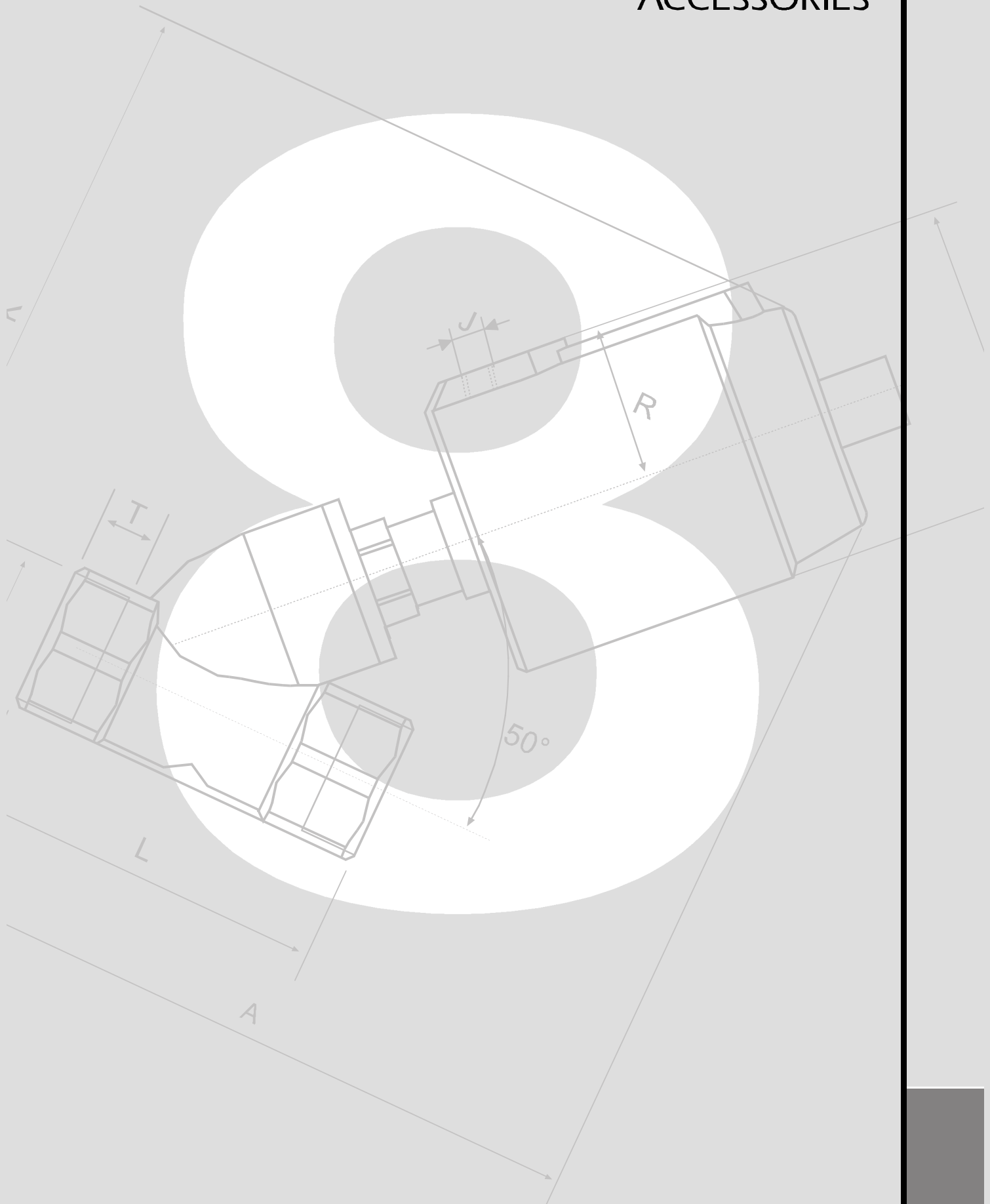
MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSU04	SSU10
SSU06	SSU12
SSU08	



**WINMAN PASLANMAZ
PNÖMATİK TE SSE-G**
WINMAN STAINLESS
STEEL UNION TEE

MODEL (øD-T)	
Tube (Metric) - Thread (R)	
SSE04	SSE10
SSE06	SSE12
SSE08	

AKSESUARLAR ACCESSORIES





AKSESUARLAR ACCESSORIES

- **WPPV - Paslanmaz Pistonlu Vana / Pistoned Valve**..... 8-01
- **AC - Şok Emici / Shock Absorber**..... 8-02
- **VSI - Basınç Gözü / VSI - Visual Indicator**..... 8-03

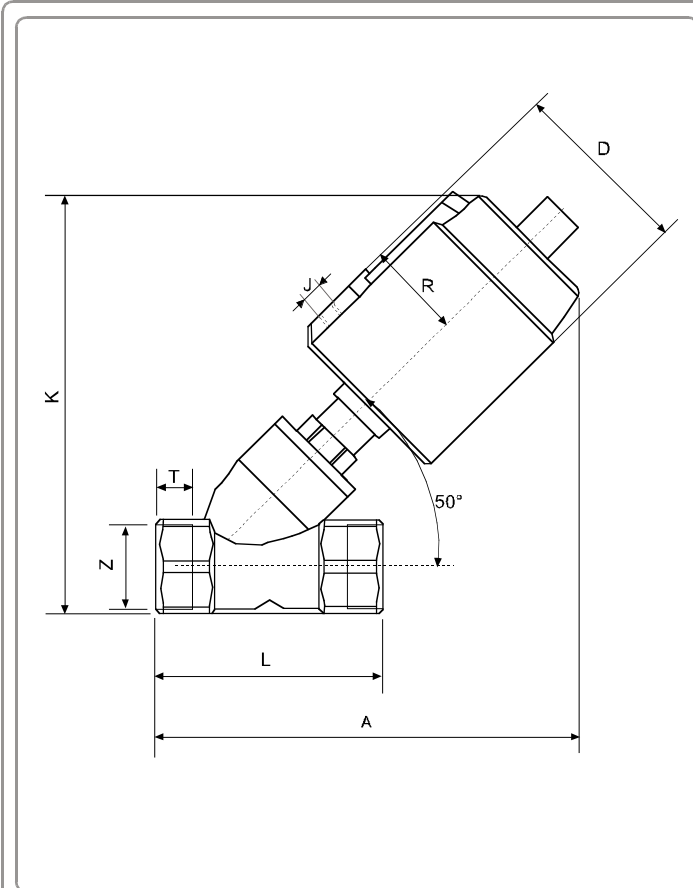
WPPV - Paslanmaz Pistonlu Vana / Stainless Piston Valve

Sipariş Kodu / Ordering Code

WPPV	PS	15
Model Model	Malzeme Material	Bağlantı Ölçüsü Port Size
WPPV : Paslanmaz Pistonlu Vana Stainless Piston Valve	Boş / Blank : Alüminyum Aluminium	10 : 3/8"
	PS : Paslanmaz / Stainless	15 : 1/2"
		20 : 3/4"
		25 : 1"
		32 : 1 - 1/4"
		40 : 1 - 1/2"
		50 : 2"

Özellikler / Specification

Model / Model	WPPV
Akışkan / Fluid	Gazlar ve Sıvılar / Gases and Liquid
Çalışma Tipi / Operating Type	Normalde Kapalı / Normally Closed
Kontrol Basıncı / Control Pressure	4.0~8.0bar / 0.4~0.8MPa / 72~114 Psi
Akışkan Sıcaklığı / Fluid Temperature	-10 ~ + 200 °C
Sıcaklık / Temperature	-10 ~ + 60 °C

Teknik Çizimler / Technical Drawing


Ölçü / Item	A	D	G	K
WPPV - 10	110	47	3/8"	120
WPPV - 15	130	84	1/2"	140
WPPV - 20	140	84	3/4"	145
WPPV - 25	150	84	1"	160
WPPV - 32	200	96	1-1/4"	215
WPPV - 40	200	96	1-1/2"	215
WPPV - 50	215	96	2"	233
Ölçü / Item	L	R	T	J
WPPV - 10	60	27	13	1/8"
WPPV - 15	70	35	15	1/8"
WPPV - 20	80	35	17	1/8"
WPPV - 25	90	35	17	1/8"
WPPV - 32	115	50	20	1/8"
WPPV - 40	115	50	16	1/8"
WPPV - 50	138	50	20	1/8"

AC/AD - Şok Emici / AC / AD Shock Absorber



Sipariş Kodu / Ordering Code

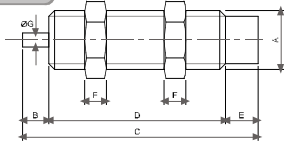
AC	14	16	1	N
Model Model	Diş Ölçüsü Thread Size	Strok Stroke	Darbe Hızı Impact Speed	Başlık Cap
AC : Otomatik Dengelemeli Şok Emici Self Compensation Type Shock Absorber			1 : Yüksek Hız High Speed 2 : Orta Hız Medium Speed 3 : Düşük Hız Low Speed	Boş / Blank : Başlıklı With Cap N : Başlıksız Without Cap
AD : Ayarlanabilir Tip Şok Absorber Adjustable type shock absorber				

Özellikler / Specification

Model / Model	Stroke mm	Max.Sönümlenen Enerji Max.Energy Absorbed Nm	Max.Sönümlenen Enerji Max.Energy Absorbed Hour Nm	Max. Etkin Kütle Max. Efective mass Kg.			Max. Etkin Kütle Max. Efective mass Kg.			Sıcaklık Temperature°C	Ağırlık Weight
				1	2	3	1	2	3		
AC - 0806	6	2	1200	0,5	2	6	2	1	0,5	-10 ~ 80	11
AC - 1005	5	3	3600	1	3	7	3	1,5	0,8	-10 ~ 80	14
AC - 1008	8	4	5000	2	4	9	3	1,5	0,8	-10 ~ 80	20
AC - 1210	10	5	10000	5	10	30	2	1,5	0,8	-10 ~ 80	31,5
AC - 1412	12	15	30000	8	50	100	3	1,5	0,8	-10 ~ 80	80
AC - 1416	16	20	35000	10	70	150	3	1,5	0,8	-10 ~ 80	90
AC - 2020	20	40	40000	30	200	700	3,5	2	1	-10 ~ 80	215
AC - 2050	50	60	60000	60	400	1200	3,5	2	1	-10 ~ 80	300
AC - 2525	25	80	70000	200	800	1500	4	2,5	1	-10 ~ 80	330
AC - 2540	40	120	75000	300	1200	2000	4	2,5	1	-10 ~ 80	430
AC - 3650	50	250	120000	400	1500	2400	4	2,5	1	-10 ~ 80	1030
AD - 1410	10	20	25000		80			3		-10 ~ 80	90
AD - 2016	16	25	30000		200			3,5		-10 ~ 80	230
AD - 2525	25	85	70000		400			3,5		-10 ~ 80	350
AD - 2540	40	100	80000		700			3,5		-10 ~ 80	455
AD - 3650	50	300	100000		1400			3		-10 ~ 80	1100
AD - 4225	25	260	125000		3000			3,5		-10 ~ 80	1280
AD - 4250	50	500	150000		4000			4,5		-10 ~ 80	1495
AD - 4275	75	750	180000		6000			4,5		-10 ~ 80	1710
AD - 6450	50	12000	1500000		12727			1,5		-10 ~ 80	4115
AD - 64100	100	24000	2000000		18181			1,5		-10 ~ 80	5280
AD - 64150	150	36000	2500000		23636			1,5		-10 ~ 80	6785

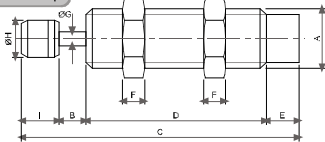
Teknik Çizimler / Technical Drawing

Sipersiz / Without Cap



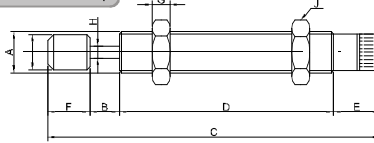
Ölçü / Item	A	B	C	D	E	F	G	H	Ölçü / Item	A	B	C	D	E	F	G	H	I	J
AC - 0806	M8 x 1.0	6	44	33	5	3	2,8	11	AC - 0806	M8 x 1.0	6	52.4	33	5	3	2,8	6,6	8,4	11
AC - 1005	M10 x 1.0	5	32,7	22,9	4,8	3	3	12,7	AC - 1005	M10 x 1.0	5	41.2	22,9	4,8	3	3	8,6	8,5	12,7
AC - 1008	M10 x 1.0	8	51	38	5	3	3	12,7	AC - 1008	M10 x 1.0	8	59,5	38	5	3	3	8,6	8,5	12,7
AC - 1210	M12 x 1.0	10	60	45,5	4,5	4	3	14	AC - 1210	M12 x 1.0	10	69,5	45,5	4,5	4	3	10,3	9,5	14
AC - 1412	M14 x 1.0	12	88	67	9	6	4	19	AC - 1412	M14 x 1.0	12	102,5	67	9	6	4	12	14,5	19
AC - 1416	M14 x 1.0	16	111	86	9	6	4	19	AC - 1416	M14 x 1.0	16	125,5	125,5	9	6	4	12	14,5	19
AC - 2020	M20 x 1.5	20	146,5	146,5	9	8	6	18	AC - 2020	M20 x 1.5	20	146,5	146,5	9	8	6	18	16,5	26
AC - 2050	M20 x 1.5	50	233,5	158	9	8	6	18	AC - 2050	M20 x 1.5	50	233,5	158	9	8	6	18	16,5	26
AC - 2525	M25 x 1.5	25	154,3	101	10	10	8	22	AC - 2525	M25 x 1.5	25	154,3	101	10	10	8	22	18,3	32
AC - 2540	M25 x 1.5	40	208,3	127	10	10	8	22	AC - 2540	M25 x 1.5	40	208,3	127	10	10	8	22	31,3	32
AC - 3660	M36 x 1.5	60	243	134	11	15	10	35	AC - 3660	M36 x 1.5	60	243	134	11	15	10	35	21	46

Sipersiz / Without Cap



Ölçü / Item	A	B	C	D	E	F	G	H	I	J
AD - 1410	M14 x 1,5	10	113,5	73	16	14,5	6	4	12	19
AD - 2016	M20 x 1,5	16	149,5	101	16	16,5	8	6	18	26
AD - 2525	M25 x 1,5	25	161,8	101	17,5	18,3	10	8	22	32
AD - 2540	M25 x 1,5	40	215,8	127	17,5	31,3	10	8	22	32

Sipersiz / Without Cap



Ölçü / Item	A	B	C	D	E	F	G	H	I	J	K
AD - 3650	M36 x 1,5	50	242	21	17	146	8	15	35	10	46
AD - 4225	M42 x 1,5	25	186,5	34	26	104,5	5	15	44,5	12	50
AD - 4250	M42 x 1,5	50	241	34	26	134	5	15	44,5	12	50
AD - 4275	M42 x 1,5	75	301,5	39	26	164,5	5	15	44,5	12	50

VSI - Basınç Gözü / VSI - Visual Indicator



Özellikler / Specification

Tip / Type	VSI-001-04	VSI-001-06
Ortam / Media	Basıncılı Hava / Compressed air	
Bağlantı Ölçüsü Kodu / Port Size Code	04	06
Bağlantı Ölçüsü / Port Size	M5 x 0.8	1/8"
Çalışma Basıncı / Operating Pressure	0.5~7bar / 0.05~0.7Mpa / 7~100Psi	
Bağlantı / Mounting	Panel	

Sipariş Kodu / Ordering Code

VSI001	04	A	
Model Model	Bağlantı Ölçüsü Port Size	Basıncısız Haldeki Renk Unactuated Colour	Basıncılı Haldeki Renk Actuated Colour
VSI: Basınç Gözü / Visual indicator	04: M5 x 0.8 06: 1/8"	A : Kırmızı / Red - Yeşil / Green B : Yeşil / Green - Kırmızı / Red C : Mavi / Blue - Kırmızı / Red D : Kırmızı / Red - Mavi / Blue E : Siyah / Black - Kırmızı / Red F : Kırmızı / Red - Siyah / Black	

Çalışması / Features

- Hatlarda basınç olduğunu gözle takip etmek için kullanılır
- basınç olduğunda gösterge kırmızı renkten yeşile döner
- hatta paralel olarak yani T şeklinde bağlanır (manometre gibi)
- It is used to understand there is pressure in air line
- when apply the pressure, indicator is changed red to green
- it is connected as parallel on the air line (like manometers)



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