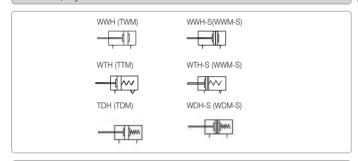


WWH-WWM Serisi Stopper Silindir / WWH-WWM Series Stopper Cylinder



Özellikler / Spec	ification								
Series	TWH						TWM		
Bore Size (mm)	20	25	32	40	50	63	80	50	
Fluid	Air (to be filtered by 40 μ m filter element)								
Action	Double acting type, Single acting-pull type								
Operating	0.15~1.0MPa(23~145psi)								
Pressure	Ф20:0.25~1.0MPa(35~145psi) Others:0.2~1.0MPa(28~145psi)								
Proof pressure	1.5MPa(215psi)								
Temperature °C	-20~80								
Range of stroke lolerance	+1,0 0								
Cushion type	Bumper								
Lubrication	Non required								
Mounting type	Flange								
Stopper type	Shock less stopper (With non adjustable absorber) Shock less stopper (With adjustable absorber)								
Port size 1	M5X0.	8		1/8"		1/4	4"	1/8"	
Sensor's thread	M8X0,5				M8X1,0				

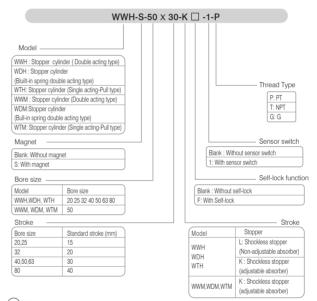
Sembol / Symbol



Ürün Özelliği / Product feature

- 1. JIS standard is implemented.
- 2. Widening the psiton rod can effectively improve the impact resistance ability of the cylinder
- 3. Heavy type stopper cylinder has hock absorber adhustable shock absorber, which can reliably absorb the impact energy. 4. Shockless stopper cylinder is equipped with self-lock device,
- which can prevent the returning of rebound of rocker caused by bar objects. 5. Several series and specifications for stopper cylinders canbe selected.

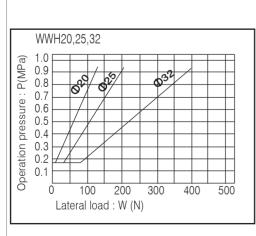
Sipariş Kodu / Ordering code

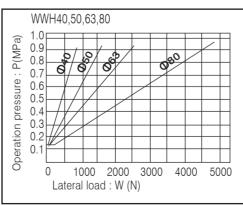


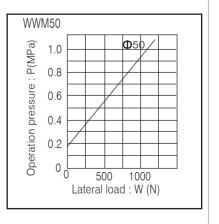
1 When the thread is standard, the code is blank.

Note: The buffer is not adjustable if the bore size is 20 and 25 lt is adjustable if the bore is over 32

Yanal Yük ve Çalışma Basıncı / Lateral Load and Operation pressure





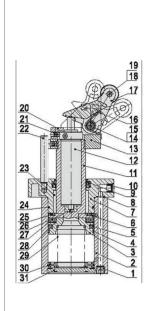




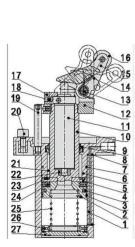
WWH-WWM Serisi Stopper Silindir / WWH-WWM Series Stopper Cylinder

Ana parçaların iç yapısı ve malzemesi /

Inner structure and material of major parts

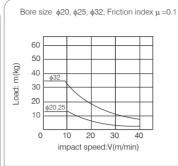


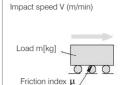
No.	item	Material
1	Countersink screw	Carbon steel
2	Body	Aluminum alloy
3	Piston	Aluminum alloy
4	Wear ring	Wear resistant material
5	Piston seal	NBR
6	Magnet washer	Aluminum alloy
7	Front cover	Aluminum alloy
8	O-ring	NBR
9	Packing	NBR
10	Slincer	Sintered bronze particle
11	Piston rod	S45C grinding rod
12	Shock absorber	
13	Fixed seat	Nodular cast iron
14	PiN	S45C grinding rod
15	Clip	Spring steel
16	Torsion spring	Spring steel
17	Rocker	Cast steel/ Nodular cast iron
18	PIN	S45C grinding rod
19	PIN Gasket	S45C grinding rod
20	Obstruck block	Powder metallurgy
21	Cauntersink screw	Carbon steel
22	Leader	S45C grinding rod
23	Silding bushing	Wear resistant material
24	O-ring	NBR
25	Bumper	TPU
26	Absorber fix and adjust seat	POM
27	Magnet	Plastic
28	Magnet washer	NBR
29	Spring	Spring steel
30	Cushion	POM
31	Back cover	Aluminum alloy



No.	item	Material
1	Body	Aluminum alloy
2	Piston	Aluminum alloy
3	Wear ring	Wear resistant material
4	Piston seal	NBR
5	Magnet washer	Aluminum alloy
6	Front cover	Aluminum alloy
7	O-ring	NBR
8	O-ring	NBR
9	Gasket	NBR
10	Piston rod	S45C grinding rod
11	Shock absorber	
12	Mounting seat	Nodular cast iron
13	PiN	S45C grinding rod
14	Torsion spring	Spring steel
15	Rocker	Nodular cast iron
16	Roller	Powder metallurgy
17	Obstruck block	Powder metallurgy
18	Countersink screw	Carbon steel
19	Leader	S45C grinding rod
20	Cancel cap	Aluminum alloy
21	Silding bushing	Bronze powder metallurgy
22	Absorber fix and adjus seat	POM
23	Bumper	TPU
24	Magnet	Plastic
25	Spring	Spring steel
26	Bumper	TPU
27	Back cover	Aluminum alloy

Boyutlar / Dimensions

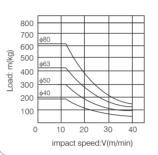




Note:

When the speed is the same, the friction index more higher the load more lighter. So the rubbing surface is smoother is better.

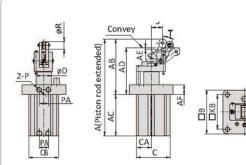
Bore size $\phi 40$, $\phi 50$, $\phi 63$, $\phi 80$, Friction index $\mu = 0.1$



Selection way,
When load is 300 kg, speed is 15m/min,
and friction factor is 0.1, draw a horizontal
line in the 300 position of Y axis in table
3 to join with X axis '15 m/min Ø63 cylinder
used in this application will be selected.

4-K (Thru,hole)

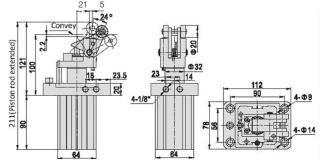
Boyutlar / Dimensions



Α	AB	AC	AD	AE	AF	В	С	CA
129	74	55	60	2.5	8	48	40	18
135.5	78	57.5	64	2.5	12	58	45	20
Bore size /Item D K KB P PA R S T								
U	K	KB	Р		PA	н	5	Т
			M5X0.812					
16	4.5	40	M5X	0.812	12	12	16	28
	129 135.5 D	129 74 135.5 78 D K	129 74 55 135.5 78 57.5 D K KB	129 74 55 60 135.5 78 57.5 64 D K KB P	129 74 55 60 2.5 135.5 78 57.5 64 2.5 D K KB P	129 74 55 60 2.5 8 135.5 78 57.5 64 2.5 12 D K KB P PA	129 74 55 60 2.5 8 48 135.5 78 57.5 64 2.5 12 58 D K KB P PA R	129 74 55 60 2.5 8 48 40 135.5 78 57.5 64 2.5 12 58 45 D K KB P PA R S

Note: The type with magnet and the type without magnet have the same dimension. The type withself-lock and the type without self-lock have the same dimension.

Adjustable absorber (WWM-K(F), WDM-K(F), WM-K(F))



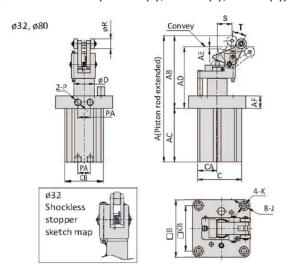
Note: The type with magnet and the type without magnet have the same dimension.



WWH-WWM Serisi Stopper Silindir / WWH-WWM Series Stopper Cylinder

Boyutlar / Dimensions

Adjustable absorber (WWH-K(F), WDH-K(F), WTH-K(F))



										_
Bore size /Item	Α	AB	AC	AD	AE	AF	В	С	CA	
32	152.5	87	65.5	73.5	1.5	16	67	51,5	23	
40	191	112	79	92.5	3.5	16	82	62	26.5	
50	211	128	83	107.5	2	20	93	72	32	
63	245.5	144.5	101	122	3.5	25	114	67.5	38.5	
80	299.5	171.5	128	145.5	3.5	25	138	109	49	
Bore size /Item	СВ	D	J	K	KB	Р	PA	R	S	
32	46	20	11	6.5	53	1/8"	16	12	18.5	Г
40	53	25	11	6.5	65	1/8"	16	20	21	
50	64	32	14	9	73	1/8"	18	20	26	Г

18 11

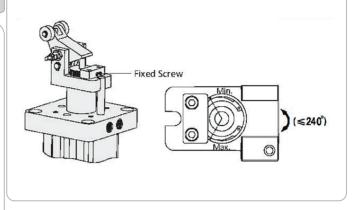
> 13 110

90 | 1/4" | 24 | 20 | 30 | 24

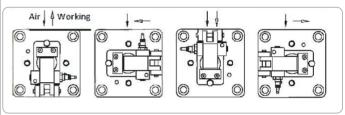
Note: The type with magnet and the type without magnet have the same dimension The type withself-lock and the type without self-lock have the same dimension

40

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3. Multi-working position Even the flange is fixed, just adjust the mounting position of guide rod will be changed the working direction of the stopper cylinder.



Cancel Screw

M

- 4. Working Forbidden
- 4.1) This function is used to cancel the stop action ofthe cylinder, and make the work piece pass easy
- 4.2) The steps are as following.
 a. Screw off the cancel screw from the flange
- b. Put the roller seat down
- c. Fasten the cancel screw in the screw hole on the fixed seat and the tail of the cancel screw should be inserted in the hole made on the roller seat.



5.1) When the shock absorber is impacted deeply, added impactenergy must be avoided. The cylinder without shock absorber cann't be impacted

by load, otherwise mechanical failure may be caused.

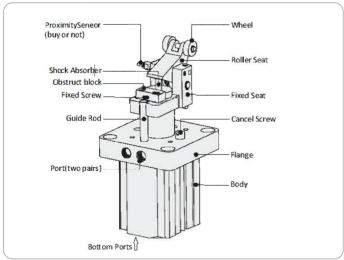
5.2) The maximum impact kinetic energy acting on the piston rod cann't exceed the allowable maximum values, otherwise mechanical failure may

Kurulum ve uygulama / Installation and application

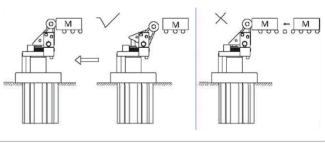
1.Function & Operating Manual

63

80



- 2. Adjustment of Shock Absorber
- 2.1) The Shock Absorber had been adjusted before the cylinder finished.
 2.2) The client can adjust it if necessary.
- 2.3) The steps are as following.
- a. Loose the fixed screw.
 b. Turn the Shock Absorber to adjust the cushion ability.
- c. Fasten the fixed screv



Unusually, when the stopper cylinder is operating, work piece will be rebound as the effect of shocker absorber. in order to keep the work pi ece steady, we have developed this self-locking device.

