

Control Valve (5/2 way) - M5 Series



Specification

Model		S5B	S5C	S5D	S5R	S5L	S5Y	S5PM	S5PP	S5PF	S5PL	S5HS
Fluid			Air (to be filtered by 40 μ m filter element)									
Operati	ng		External control direct acting type									
Port siz	e1)	05:M5; 06:1/8"; 08:1/4"										
Orifice	Mini type		05:2.5 mm ² (Cv=0.14)									
size	110		$06:8.0 \text{mm}^2 \text{ (Cv}=0.45)$									
Size	210		06:9.0mm ² (Cv=0.50); 08:12.0mm ² (Cv=0.67)									
Valve ty	ре	5/2 Way										
Lubrica	tion2	Not required										
Pressure range			0~1.0MPa(0~145psi)									
Proof pressure		1.5MPa(215psi)										
Temperature			−20~70 °C									
Material body			Aluminum alloy									
O DT II.	OPT throat NDT throat and Others throat and State											

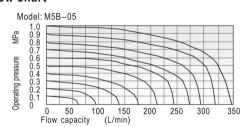
- 1) PT thread, NPT thread and G thread are available.
- 2 Once lubricated air is used, continue with same medium to optimise valve life span. It is suggested to use ISO VG32 lubricant or the oil with the same grade.

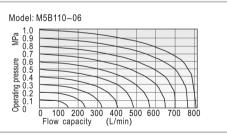
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land to the state of the state	ype: M5 PM 210 06 R 🗆	
Product feature 1. Exhaust outlet locates over the body, which is convenient to install muffler to decrease noise and pollution. 2. The external force required by direction-change of series of M5B, M5R and M5L is provided by external mechanism, which can be used for position test or [stroke switch] limit switch. 3. M5C,M5D,M5Y,M5PF,M5PM,M5PP,M5PL and M5HS are operated manually, owning control joints with several structure forms and suitable for application under different conditions. 4. It is in sliding column structure that the control force is not influenced by working pressure (that is, there is no back pressure effect); internal circle is sealed with good tightness and the direction-change is sensitive. 5. Lubricant is not necessary. 6. Multi-mounting makes it convenient to install and apply. 7. The control joints of series of M5C,M5D,M5Y,M5R and M5L are made of metal which has longer service life and more reliable and steady performance.	Walve's type M5: M type 5/2 Way Model B: Basic type C: Long handle type D: Short handle type Y: Lever typer R: Roller type L: Roller with free return type PL: Latching type PP: Protruding type PP: Flat type PM: Mushroom type HS: Selector type Code 110: 100 Series single control Thread type Blank: PT T: NPT G: G Button color PL R: Red PP, PF G: Green B: Black Others Not code Port size Code 100 Series 06: 1/8" 200 Series 06: 1/8" 200 Series 08: 1/4"	

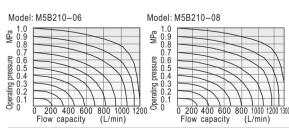
210: 200 Series single control

Flow chart

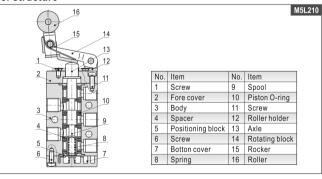
Symbol







Mini type: M5 R 05 Valve's type • Port size M5: M type 5/2 Way 05: M5 Model B: Basic type R: Roller type L: Roller with free return type ■ Inner structure

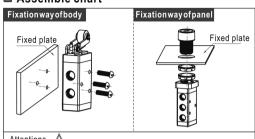


1	■ Reversal stroke Unit:mm											
1			Con		Mini type							
1	Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Туре	Spool stroke	Roller stroke			
1	M5B	2.0~3.3	_	M5R	2.0~3.0	4.6~6.8	M5B05	2.0~3.3	_			
1	M5PF	2.0~3.3	3.8~5.1	M5L	2.0~3.0	5.0~7.8	M5R05	2.0~3.0	6.0~8.5			
1	M5PP	2.0~3.3	3.8~5.1	M5C	2.0~3.0	11.0~16.0	M5L05	2.0~3.0	7.0~10.0			
10	M5PM	2.0~3.3	3.8~5.1	M5D	2.0~3.0	5.5~8.0						
1			5.9~7.2									
_	M5HS	2.0~3.3	5.1~6.4									



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Assemble chart



- 1)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden.

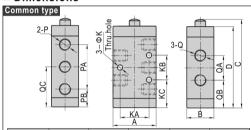
 2)The series of M5B, M5C, M5D, M5PM, M5PF and M5PP get the function of automatic restoration. The hand valves of M5Y, M5HS and M5PL are in the type of manual restoration. M5PL will be restored by turning the revolve button after being pressed into orientation.

 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.
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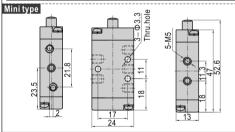
 4)The M5L can only switch the valve in single direction (impact from right to left). The impact from the other direction is invalid (from left to right).

 5) Control joint combination can be ordered individually. Please refer to the table on the right for order details.

Dimensions



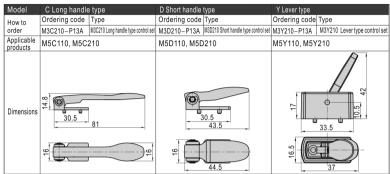
Item\Type	M5B110	M5B210	Item\Type	M5B110	M5B210
Α	27	35	Р	06:1/8"	06:1/8"
В	18	22] [00.1/0	06:1/8"
С	63	71.8	PA	28	36
D	57.5	66	PB	15	14.5
K	3.3	4.3	Q	06:1/8"	06:1/8"
KA	18	23.5	lu lu	00.1/0	08:1/4"
KB	14	20	QA	16	20
KC	22	22.5	QB	21	22.5
			O.C.	29	32.5



Mini control set dimensions

Model	M3R05 M	lodel	M3L05 N	Model
How to	Ordering code	* '	Ordering code	Туре
order	M3R05-P14A	M3R05 Roller type control set	M3L05-P14A	M3L05 Roller with free return type control set
Applicable products	M5R05		M5L05	
Dimensions	6.0~8.5	Φ12 24 25.5 32		012 0 0 0 0 0 0 0 0 0 0 0 0 0
	8.5	14.5	8.5	4.5

Control set Dimensions



Model	R Roller type	L Roller with free return type
How to	Ordering code Type	Ordering code Type
order	M3R210-P14A M3R210 Roller type control set	M3L210-P14A M3L210 Roller with free return type control set
Applicable products	M5R110, M5R210	M5L110, M5L210
Dimensions	Φ15 30.5 32.5 40	Φ15 30.5 32.5 41.5
	90	999

Model	PP Protruding	g type	PM Mushroor	n type	PL Latching	type (only red)
	Ordering code	Туре	Ordering code	Туре	Ordering code	Туре
How to	S3PP05-P11A	S3PP protruding type control set (Green)	S3PM05-P11A	S3PM mushroom type control set (Green)	S3PL05-P12A	S3PL Latching type control set (Red
order	S3PP05-P12A	S3PP protruding type control set (Red)	S3PM05-P12A	S3PM mushroom type control set (Red)		
	S3PP05-P13A	S3PP protruding type control set (Black)	S3PM05-P13A	S3PM mushroom type control set (Black)		
Applicable products	M5PP110, M	5PP210	M5PM110, M	5PM210	M5PL110, M	5PL210
Dimensions	30	D28.5 21 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -	30	Ф36 97 1 × 2 × 1 × 2 × 95	30	Ф36

1				
Model	PF Flat type		HS Selector	type
	Ordering code Type)	Ordering code	Туре
How to	S3PF05-P11A S3PFf	lat type control set (Green)	S3HS05-P11A	S3HS selector type control set (Green)
order	S3PF05-P12A S3PF f	flat type control set (Red)		S3HS selector type control set (Red)
	S3PF05-P13A S3PFf	lat type control set (Black)	S3HS05-P13A	S3HS selector type control set (Black)
Applicable products	M5PF110, M5PF2	210	M5HS110, M	15HS210
Dimensions	Φ28 36	M22×1.25 42.5	30	Ф28.5 927.1×227 36 36