

M5 Series



Ordering code

Common type

M5 PM 210 06 R T

1)	2	3	(4)	5	(6)

①Valve's type	2Model	③Code	4 Port size	5 Button color	6 Thread type
	B:Basic type			/	
	C:Long handle type	()	\ \ \)	No this code	T: NPT
	D:Short handle type	110: 100 Series \	06:1/8" 06:1/8" 08:1/4"		
	Y:Lever type	Single control			
	R:Roller type				
M5: M type 5/2 Way	L:Roller with free return type				
3,2 way	PL:Latching type] \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		R:Red	
	PP:Protruding type	210; 200 Series		R:Red G:Green B:Black	
	PF:Flat type	single control			
	PM:Mushroom type				
	HS:Selector type				

Minitype



①Valve's type	2 Model	③Port size
M5: M type 5/2 Way	B: Basic type R: Roller type 4: Roller with free return type	05: M5

Specification

Model	M5B M5C M5D M5R M5L M5Y M5PM M5PP M5PF M5PL M5HS						
Fluid	Air (to be filtered by 40 μm filter element)						
Operating	External control direct acting type						
Port size [Note1]	05: M5 06: 1/8" 08: 1/4"						
Minitype	05: 2.5mm²(Cv=0.14)						
Orifice size 110	06: 8.0mm² (Cv=0.45)						
210	06: 9.0mm ² (Cv=0.50) 08: 12.0mm ² (Cv=0.67)						
Valve type	5/2 Way						
Lubrication [Note2]	Not required						
Pressure range 0~145psi(0~1.0MPa)							
Proof pressure	215psi(1.5MPa)						
Temperature	-20~70℃						
Material body	Aluminum alloy						

[Note1] NPT thread is available.

[Note2] 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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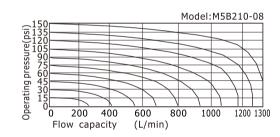
Product feature

- 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. No need to add oil for lubrication.
- 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 long service life and more reliable and steady performance.

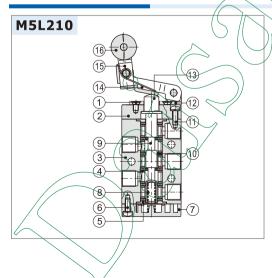
Reversal stroke

							//	init:mm
	Common type						Mini type	
Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Туре	Spool stroke	Roller stroke
M5B	2.0~3.3	_	M5R	2.0~3.0	4.6~6.8	M5B05	2.0~3.3	-/
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
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
M5PM	2.0~3.3	3.8~5.1	M5D	2.0~3.0	5.5~8.0			}
M5PL	2.0~3.3	5.9~7.2						
M5HS	2.0~3.3	5.1~6.4						

Flow chart | Sample | Model: M\$B-05 | Model:



Inner structure



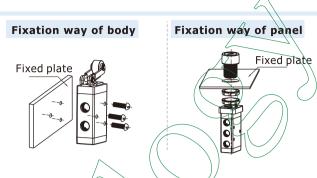
No.	Item	No.	Item	No.	Item
1	Screw	7	Botton cover	13	Axle
2	Fore cover	8	Spring	14	Rotating block
3	Body	9	Spool	15	Rocker
4	Spacer	10	Piston O-ring	16	Roller
5	Positioning block	11	Screw		
6	Screw	12	Roller holder		



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Installation and Application

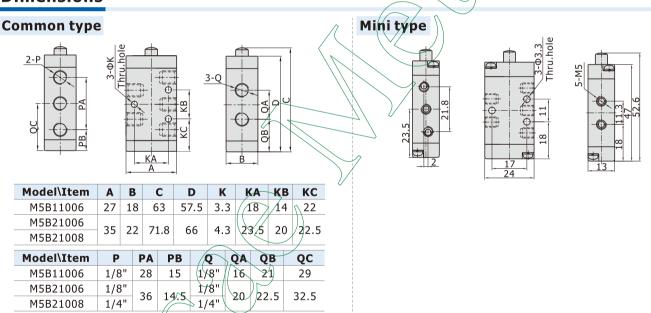
- 1) Body and panel installation (picture at right) :
- 2)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden
- 3)The series of M5B, M5C, M5D, M5PM, M5PF and M5PP get the function of automatic restoration. The hand valves 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.



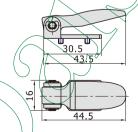
- 4) Pay attention to the reversing stroke. The reversing stroke can not surpass its stroke stipulated in stroke control table when the direction-change of the valve is forced by any external forces, otherwise it will cause the damage of the valve.
- 5) The M3L can only switch the valve in single direction (impact from right to left).

 The impact from the other direction is invalid (from left to right).
- 6) Control joint combination can be ordered individually. Please refer to the table on the right for order details.

Dimensions

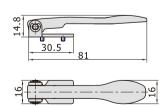


Short handle type(D)



,	Model //	Short handle type(D)
How to	Ordering code	M3D210-P13A
order	Туре	M3D210 Short handle type control set
Applicable products		M5D110, M5D210

Long handle type(C)



Model		Long handle type(C)
How to	Ordering code	M3C210-P13A
order	Туре	M3C210 Long handle type control set
Applicable products		M5C110, M5C210



Control valve(5/2way)

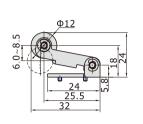


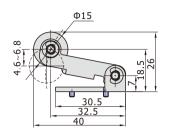
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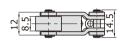
Roller type(R)

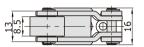
Mini type

Common type









		Model	Roller type(R)
	How to	Ordering code	M3R05-P14A
	order	Туре	M3R05 Roller type control set
	Applicable products		M5R05
	How to Ordering code		M3R210-P14A
	order	Туре	M3R210 Roller type control set
Applicable products		able products	M5R110, M5R210

Mini type Common type \$\frac{\phi_12}{\phi_2}\$ \$\frac{\phi_12}{\phi_2}\$ \$\frac{\phi_2}{\phi_2}\$ \$\fr

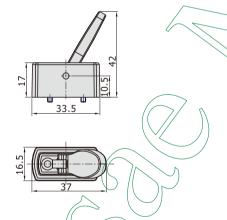
2 4 4 5 4 5 4 5 4 5 4 5 4 5 6 6 6 6 6 6 6		13/	25.5
	_		

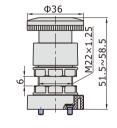
30.5 32.5 41.5
16
offer with free return type(L)

Model	Roller with free return type(L)
How to Ordering cod	M3L05-P14A
order	M3L05 Roller with free return type control set
Applicable product	M5L05
How to Ordering cod	M3L210-P14A
order Type	M3L210 Roller with free return type control set
Applicable product	M5L110,M5L210

Lever type(Y)









	Model 🔵	Leve	r type(Y)
How to	Ordering code	M3¥	210-P13A
order	Type 🗸	M3Y210 Lev	er type control set
Applicable products		M5Y1:	LO, M5Y210

	Model	Latching type (only red)(PL)
How to order	Ordering code	S3PL05-P12A
	Туре	S3PL Latching type control set (Red)
Applicable products		M5PL110, M5PL210

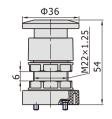


Control valve(5/2way)



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Mushroom type(PM)

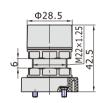




	Model	Mushroom type(PM)
How to order	Ordering code	S3PM05-P11A
	Туре	S3PM mushroom type control set (Green)
	Ordering code	S3PM05-P12A
	Туре	S3PM mushroom type control set (Red)
	Ordering code	S3PM05-P13A
	Туре	S3PM mushroom type control set (Black)
Applicable products		M5PM110, M5PM210

	Model	/(Protruding type(PP)
How to order	Ordering c	pde		S3PP05-P11A
	Type		S3PP	protruding type control set (Green)
	Ordering co	ode	S3PP05-P12A	
	Туре		S3PP protruding type control set (Red	
	Ordering co	ode	S3PP05-P13A	
	Type	1	S3PP	protruding type control set (Black)
Applicable products		M5PP110, M5PP210		

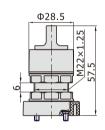
Flat type(PF)





	Model	Flat type(PF)
How to order	Ordering code	S3RF05-P11A
	Туре	S3RE flat type control set(Green)
	Ordering code	S 3PF05-P12A
	Type	S3PF flat type control set(Red)
	Ordering code	S3PF05-P13A
	Type	S3PF flat type control set(Black)
Applicable products		M5PF110, M5PF210

Selector type(HS)





	Model	Selector type(HS)
How to order	Ordering code	S3HS05-P11A
	Туре	S3HS selector type control set(Green)
	Ordering code	S3HS05-P12A
	Туре	S3HS selector type control set(Red)
	Ordering code	S3HS05-P13A
	Туре	S3HS selector type control set(Black)
Applicable products		M5HS110, M5HS210

