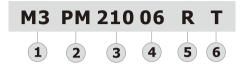




Ordering code

Common type



①Valve's type	②Model	③Code	4 Port size	⑤Button color	⑥Thread type
	B:Basic type				T: NPT
	C:Long handle type	110 100 0			
	D:Short handle type	110: 100 Series single control	06:1/8"	No this code	
	Y:Lever type				
	R:Roller type				
M3: M type 3/2 Way	L:Roller with free return type	210. 200 301103	06:1/8" 08:1/4"		
J/Z Way	PL:Latching type			Blank:Red	
	PP:Protruding type			R:Red G:Green B:Black	
	PF:Flat type				
	PM:Mushroom type				
	HS:Selector type				

Minitype	M3 R 05	
	1 2 3	

①Valve's type	②Model	③Port size
M3: M type 3/2 Way	B: Basic type R: Roller type L: Roller with free return type	05: M5

Specification

Model		МЗВ	мзс	M3D	M3R	M3L	мзү	МЗРМ	МЗРР	M3PF	M3PL	мзнѕ
Fluid					Air (to	be filter	ed by 4	0 μm filte	r elemer	nt)		
Operating					Ext	ernal co	ntrol di	rect acti	ng type			
Port size [N	ote1]				0	5: M5	06: 1/	'8" 08:	1/4"			
	Mini type		05: 2.5mm²(Cv=0.14)									
Orifice size	110	06: 8.0mm² (Cv=0.45)										
	210		06: 9.0mm² (Cv=0.50) 08: 12.0mm² (Cv=0.67)									
Valve type		3/2 Way										
Lubrication	[Note2]	Not required										
Pressure range			0~145psi(0~1.0MPa)									
Proof pressure		215psi(1.5MPa)										
Temperature			-20~70°C									
Material of	body					Α	luminur	n 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.



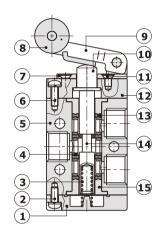


Product feature

- 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 M3B,M3R and M3L is provided by external mechanism, which can be used for position test or stroke switch limit switch.
- 3. M3C, M3D, M3Y, M3PF, M3PM, M3PP, M3PL and M3HS 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;
- The control joints of series of M3C, M3D, M3Y, M3R, and M3L are made of metal which has long service life and more reliable and steady performance.

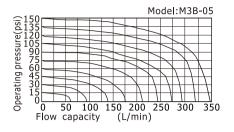
Inner structure

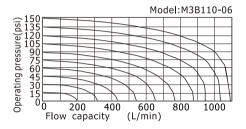
M3R210

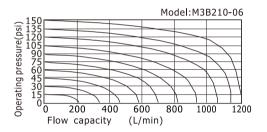


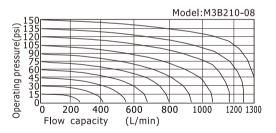
No.	Item	No.	Item	No.	Item
1	Botton cover	6	Screw	11	Screw
2	Screw	7	Roller holder	12	Front cover
3	Spring	8	Roller	13	Piston O-ring
4	Spacer	9	Rotating block	14	Spool
5	Body	10	Axle	15	Positioning block

Flow chart









Reversal stroke

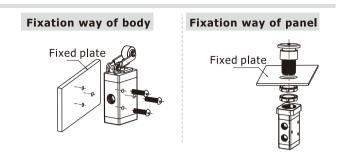
Unit:mm Common type Mini type Spool troke Spool stroke Roller(handle) stroke Spool stroke Roller stroke Type Button stroke Type Type МЗВ 2.0~3.3 M3R 2.0~3.0 4.6~6.8 M3B05 2.0~3.3 M3PF 2.0~3.3 3.8~5.1 M3L 2.0~3.0 5.0~7.8 M3R05 2.0~3.0 6.0~8.5 2.0~3.3 МЗС 2.0~3.0 11.0~16.0 2.0~3.0 7.0~10.0 M3PP 3.8~5.1 M3L05 М3РМ 2.0~3.3 3.8~5.1 M3D 2.0~3.0 5.5~8.0 2.0~3.3 5.9~7.2 M3PL M3HS 2.0~3.3 5.1~6.4





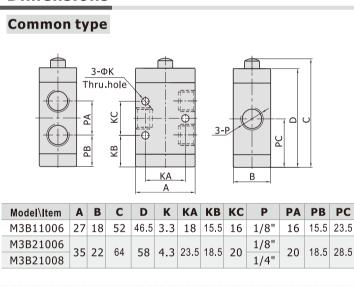
Installation and Application

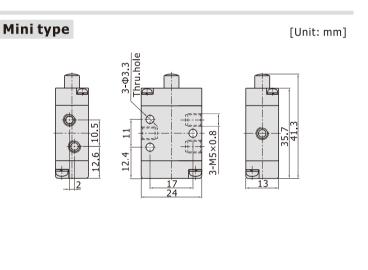
- 1) Body and panel installation (picture at right):
- 2)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden.
- 3)The series of M3B, M3C, M3D, M3PM, M3PF and M3PP get the function of automatic restoration. The hand valves of M3Y, M3HS and M3PL are in the type of manual restoration.M3PL will be restored by turning the revolve button after being pressed into orientation.



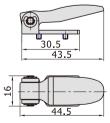
- 4) Pay attention to the reversing stroke. The reversing stroke can not surpass its stroke stipulated in stroke control table when the direction-change of the valve is forced by any external forces, otherwise it will cause the damage of the valve.
- 5) The M3L can only switch the valve in single direction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

Dimensions



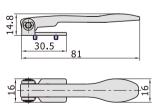


Short handle type(D)



Model		Short handle type(D)
How to	Ordering code	M3D210-P13A
order	Туре	M3D210 Short handle type control set
Applicable products		M3D110, M3D210

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		M3C110, M3C210

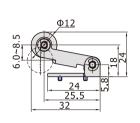


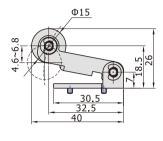


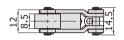
Roller type(R)

Mini type

Common type







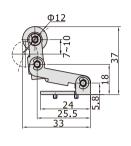


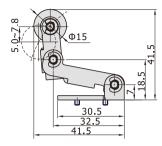
	Model	Roller type(R)
How to	Ordering code	M3R05-P14A
order	Туре	M3R05 Roller type control set
Applic	able products	M3R05
How to	Ordering code	M3R210-P14A
order	Туре	M3R210 Roller type control set
Applic	able products	M3R110, M3R210

Roller with free return type(L)

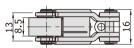
Mini type

Common type



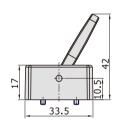


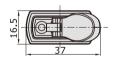




Model		Roller with free return $type(L)$
How to	Ordering code	M3L05-P14A
order	Туре	M3L05 Roller with free return type control set
Applicable products		M3L05
How to	Ordering code	M3L210-P14A
order	Туре	M3L210 Roller with free return type control set
Applic	able products	M3L110,M3L210

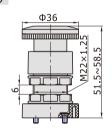
Lever type(Y)





	Model	Lever type(Y)
How to	Ordering code	M3Y210-P13A
order	Туре	M3Y210 Lever type control set
Applicable products		M3Y110, M3Y210

Latching type(PL)





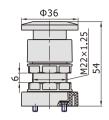
Model		Latching type (only red)(PL)
How to	Ordering code	S3PL05-P12A
order	Туре	S3PL Latching type control set (Red)
Applicable products		M3PL110, M3PL210

Control valve(3/2way)



M3 Series

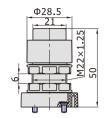
Mushroom type(PM)





	Model	Mushroom type(PM)
	Ordering code	S3PM05-P11A
	Туре	S3PM mushroom type control set (Green)
How to	Ordering code	S3PM05-P12A
order	Туре	S3PM mushroom type control set (Red)
	Ordering code	S3PM05-P13A
	Туре	S3PM mushroom type control set (Black)
Applicable products		M3PM110, M3PM210

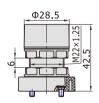
Protruding type(PP)





Model		Protruding type(PP)
How to order	Ordering code	S3PP05-P11A
	Туре	S3PP protruding type control set (Green)
	Ordering code	S3PP05-P12A
	Туре	S3PP protruding type control set (Red)
	Ordering code	S3PP05-P13A
	Туре	S3PP protruding type control set (Black)
Applicable products		M3PP110, M3PP210

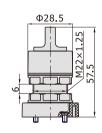
Flat type(PF)





Model		Flat type(PF)
How to order	Ordering code	S3PF05-P11A
	Туре	S3PF flat type control set(Green)
	Ordering code	S3PF05-P12A
	Туре	S3PF flat type control set(Red)
	Ordering code	S3PF05-P13A
	Туре	S3PF flat type control set(Black)
Applicable products		M3PF110, M3PF210

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		M3HS110, M3HS210

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