



Ordering code

Common type

M3 PM 210 06 R T

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

Minitype





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

Specification

	<u> </u>					
Model	M3B M3C M3D M3R M3L M3Y M3PM M3PP M3PF M3PL M3HS					
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	3/2 Way					
Lubrication [Note2]	Not required					
Pressure range	0~145psi(0~1.0MPa)					
Proof pressure	215psi(1.5MPa)					
Temperature	-20~70℃					
Material body	Aluminum alloy					
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[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.





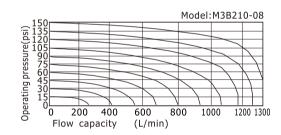
Product feature

- 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;
- 7. 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.

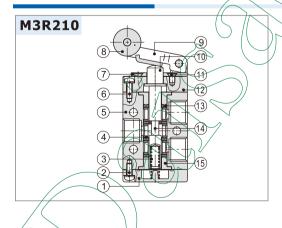
Reversal stroke

							_/ L	/nit:m/m
	Common type						Mini type	
Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Type	Spool stroke	Roller stroke
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
МЗРР	2.0~3.3	3.8~5.1	МЗС	2.0~3.0	11.0~16.0	M3L05	2.0~3.0	7.0~10.0
МЗРМ	2.0~3.3	3.8~5.1	M3D	2.0~3.0	5.5~8.0			}
M3PL	2.0~3.3	5.9~7.2						
M3HS	2.0~3.3	5.1~6.4						

Flow chart Model:M3B-05 Operating pressure(psi) 100 150 200 Flow capacity (L/min) Model: M3B110-06 Operating pressure(psi) 600 (L/min) 200 400 Flow capacity Model:M3B210-06 Operating pressure(ps/) 600 800 Flow capacity (L/min)



Inner structure



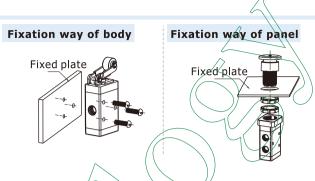
No.	Item	No.	Item	No.	Item
1	Botton cover	6	Screw	11	Screw
2	Screw	7	Roller holder	12	Fore cover
3	Spring	8	Roller	13	Piston O-ring
4	Spacer	9	Rotating block	14	Spool
5	Body	10	Axle	15	Positioning block





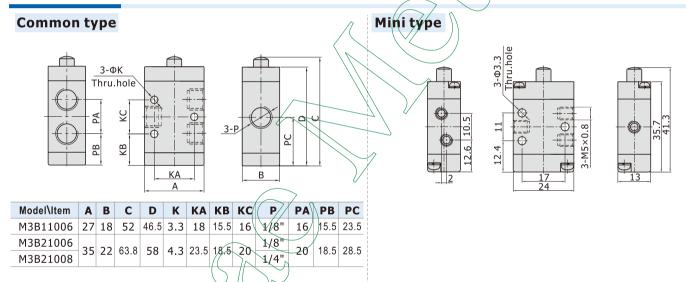
Installation and Application

- 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.

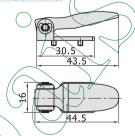


- 4) Pay attention to the reversing stroke. The reversing stroke can not surpass its stroke stipulated in stroke control table when the direction-change of the valve is forced by any external forces, otherwise it will cause the damage of the valve.
- 5) The M3L can only switch the valve in single direction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

Dimensions

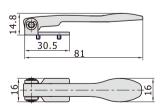


Short handle type(D)



Model	Short handle type(D)
How to Ordering code	M3D210-P13A
order Type	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

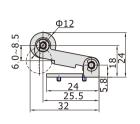


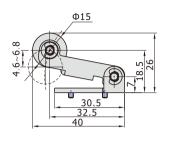


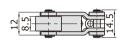
Roller type(R)

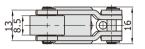
Mini type

Common type



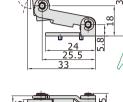


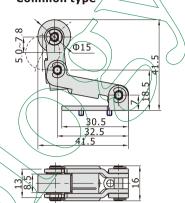




	Model	Roller type(R)
How to	Ordering code	M3R05-P14A
order	Туре	M3R05 Roller type control set
Applic	able products	M3R05
How to	Ordering code	M3R210-P14A
order	Туре	M3R210 Roller type control set
Applic	able products	M3R110, M3R210

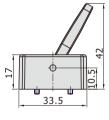
Roller with free return type(L) Mini type Common type

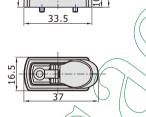




M	1odel /	Roller with free return type(L)
How to	Ordering code	M3L05-P14A
order	Type	M3L05 Roller with free return type control set
Applicat	ple products	M3L05
How to	Ordering code	M3L210-P14A
order	Туре	M3L210 Roller with free return type control set
Applicat	ole products	M3L110,M3L210

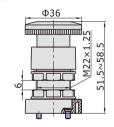
Lever type(Y)





	Model ()		Leve	r type(Y)	
How to	Ordering code		M3\/	210-P13A	
order	Type 🗸	M3Y	210 Leve	er type control s	et
Applic	able products		M3Y11	.0, M3Y210	
			\ /		

Latching type(PL)





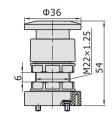
Model		Latching type (only red)(PL)
How to	Ordering code	S3PL05-P12A
order	Туре	S3PL Latching type control set (Red)
Applicable products		M3PL110, M3PL210

Control valve(3/2way)



M3 Series

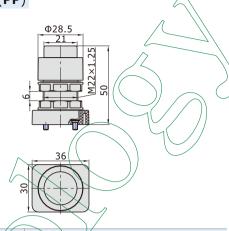
Mushroom type(PM)





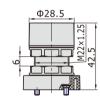
Model		Mushroom type(PM)		
How to order	Ordering code	S3PM05-P11A		
	Туре	S3PM mushroom type control set (Green)		
	Ordering code	S3PM05-P12A		
	Туре	S3PM mushroom type control set (Red)		
	Ordering code	S3PM05-P13A		
	Туре	S3PM mushroom type control set (Black)		
Applicable products		M3PM110, M3PM210		

${\bf Protruding\ type(PP)}$



	Model	/(Protruding type(PP)	
How to order	Ordering c	pde		S3PP05-P11A	
	Type		S3PP	protruding type control set (Green)	
	Ordering code		S3PP05-P12A		
	Туре		S3PI	P protruding type control set (Red)	
	Ordering co	ode	S3PP05-P13A		
	Type	1	S3PP	protruding type control set (Black)	
Applicable products				M3PP110, M3PP210	

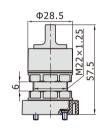
Flat type(PF)





Model		Flat type(PF)		
How to order	Ordering code	S3RF05-P11A		
	Type	S3RE flat type control set(Green)		
	Ordering code /	\$3PF05-P12A		
	Type	S3PF flat type control set(Red)		
	Ordering code	S3PF05-P13A		
	Type //	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

