Control valve(3/2way)







Ordering code

Commontype

М3	ΡΜ	210	06	R	Т
1	2	3	4	5	6

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

Model		M3B	M3B M3C M3D M3R M3L M3Y M3PM M3PP M3PF M3PL M3						M3HS		
Fluid			Air (to be filtered by 40 µm filter element)								
Operating			External control direct acting type								
Port size [N	ote1]		05: M5 06: 1/8" 08: 1/4"								
	Mini type		05: 2.5mm ² (Cv=0.14)								
Orifice size	110		06: 8.0mm ² (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 ra	nge					0~1	45psi(0	~1.0MPa)		
Proof press	ure		215psi(1.5MPa)								
Temperatur	re 🛛						-20~7	'0°C			
Material bo	dy					A	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.

M3 Series

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	Fore cover
3	Spring	8	Roller	13	Piston O-ring
4	Spacer	9	Rotating block	14	Spool
5	Body	10	Axle	15	Positioning block

Reversal stroke

								Unit:mm
		Com	mon ty	vpe			Mini type	e
Туре	Spool troke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Туре	Spool stroke	Roller stroke
M3B	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
M3PP	2.0~3.3	3.8~5.1	M3C	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





M3 Series

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.



Fixation way of panel

Fixation way of body

- 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



M3 Series

Roller type(R)

Mini type





Common type





Roller with free return type(L)

Mini type

Common type







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	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

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)
Applic	able 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)
	Ordering code	S3PF05-P11A
How to order	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)		
	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		

S3HS selector type control set(Black) M3HS110, M3HS210

How to order

Туре

Applicable products