M3 Series



Symbol





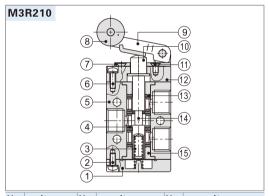




Product feature

- 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.
- 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.

Inner structure



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

Specification

Model		МЗВ	МЗС	M3D	M3R	M3L	МЗҮ	мзрм	МЗРР	M3PF	M3PL	M3HS
Fluid				Air	(to be	filtere	d by 40	μmfil	ter ele	ment)		
Operatin	g				Exter	nal coi	ntrol d	irect ac	ting typ	е		
Port size	[Note1]				05	: M5	06: 1	/8" 08	3: 1/4"			
0 :6:	Mini type		05: 2.5mm²(Cv=0.14)									
Orifice size	110		06: 8.0mm² (Cv=0.45)									
3126	210	06: 9.0mm ² (Cv=0.50) 08: 12.0mm ² (Cv=0.67)										
Valve typ	e	3/2 Way										
Lubricati	on [Note2]	Not required										
Pressure	range		0~1.0MPa(0~145psi)									
Proof pressure			1.5MPa(215psi)									
Temperature °C			-20~70									
Material	of body					Αlι	ıminuı	n alloy				

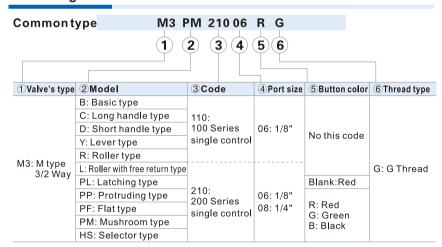
[Note1] G thread is available.

[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.

Reversal stroke

								Unit:mm
Common type							Mini type)
Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Туре	Spool stroke	Roller stroke
M3B 2	2.0~3.3	-	M3R	2.0~3.0	4.6~6.8	M3B05	2.0~3.3	_
M3PF 2	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
//3PP 2	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
/3PM 2	2.0~3.3	3.8~5.1	M3D	2.0~3.0	5.5~8.0			
M3PL 2	2.0~3.3	5.9~7.2						
//3HS 2	2.0~3.3	5.1~6.4						
M3B 2 M3PF 2 M3PP 2 M3PM 2 M3PL 2	2.0~3.3 2.0~3.3 2.0~3.3 2.0~3.3 2.0~3.3	- 3.8~5.1 3.8~5.1 3.8~5.1 5.9~7.2	M3L M3C	2.0~3.0 2.0~3.0 2.0~3.0	4.6~6.8 5.0~7.8 11.0~16.0	M3R05	2.0~3 2.0~3	.3

Ordering code

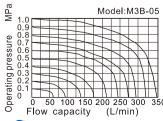


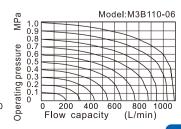
Mini type M3 R 05

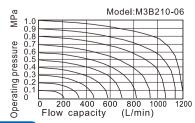
①Valve's type	2 Model	③Port size
M3: M type 3/2 Way	B: Basic type R: Roller type L: Roller with free return type	05: M5

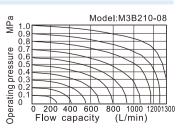
(1)(2)(3)

Flow chart











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Installation and Application

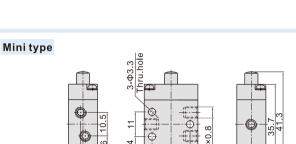
- 1) Body and panel installation (picture at right):
- 2)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden.
- 3)The series of M3B, M3C, M3D, M3PM, M3PF and M3PP get the function of automatic restoration. The hand valves 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

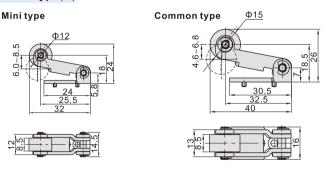
Common type 3-ΦK Thru.hole A A A B B B

Model\Item	Α	В	С	D	K	KA	KB	KC	Р	PA	РВ	PC
M3B11006	27	18	52	46.5	3.3	18	15.5	16	1/8"	16	15.5	23.5
M3B21006	35	22	6.4	E 0	4.2	22 5	10 5	20	1/8"	20	10 E	28.5
M3B21008	35	22	04	50	4.3	23.5	10.5	20	1/4"	20	10.5	20.5

Fixation way of body Fixed plate Fixed plate

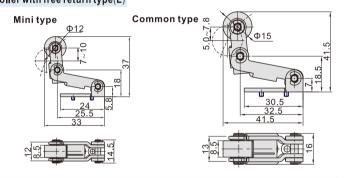


Roller type(R)



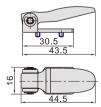
	Model	Roller type(R)			
How to	Ordering code	M3R05-P14A	M3R210-P14A		
order	Type	M3R05 Roller type control set	M3R210 Roller type control set		
Applicable products		M3R05	M3R110, M3R210		

Roller with free return type(L)



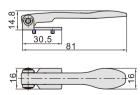
Model		Roller with free return type(L)			
How to	Ordering code	M3L05-P14A	M3L210-P14A		
order	Type	M3L05 Roller with free return type control set	M3L210 Roller with free return type control set		
Applicable products		M3L05	M3L110,M3L210		

Short handle type(D)



	Model	Short handle type(D)
How to	Ordering code	M3D210-P13A
order	Type	M3D210 Short handle type control set
Annlic	able products	M3D110 M3D210

Long handle type(C)



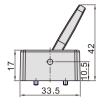
	Model	Long handle type(C)
How to	Ordering code	M3C210-P13A
order	Type	M3C210 Long handle type control set
Applicable products		M3C110, M3C210



Control valve(3/2way)

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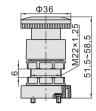
Lever type(Y)





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

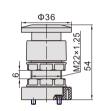
Latching type(PL)





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

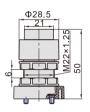
$\mathbf{Mushroom}\ type(\mathbf{PM})$





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	
	Type	S3PM mushroom type control set (Black)	
Applicable products		M3PM110, M3PM210	

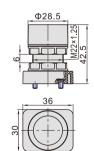
Protruding type(PP)





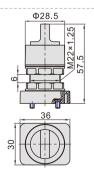
Model	Protruding type(PP)
Ordering code	S3PP05-P11A
Туре	S3PP protruding type control set (Green)
Ordering code	S3PP05-P12A
Туре	S3PP protruding type control set (Red)
Ordering code	S3PP05-P13A
Туре	S3PP protruding type control set (Black)
able products	M3PP110, M3PP210
	Ordering code Type Ordering code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

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
	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
	Type	S3HS selector type control set (Red)
	Ordering code	S3HS05-P13A
	Туре	S3HS selector type control set (Black)
Applicable products		M3HS110, M3HS210

