AITTAC



Symbol





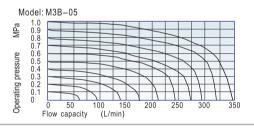


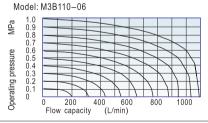


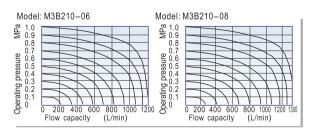
Product feature

- Exhaust outlet locates over the (body), which is convenient to install muffler to decrease noise and pollution.
- 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.

■ Flow chart







Specification

Model		S3B S3C S3D S3R S3L S3Y S3PM S3PP S3PF S3PL S3F						S3HS				
Fluid					Air (to b	e filtere	d by 40	μ m filter	element	:)		
Operati	ng				Ext	ernal co	ntrol dire	ect acting	type			
Port siz	e1)					05:M5;	06:1/8	'; 08:1/4	"			
0	Mini type					05:2.5	mm² (C	Cv=0.14)				
Orifice size	110		06:8.0mm ² (Cv=0.45) 06:9.0mm ² (Cv=0.50); 08:12.0mm ² (Cv=0.67)									
SIZE	210											
Valve ty	ре	3/2 Way										
Lubrica	tion2	Not required										
Pressur	e range	0~1.0MPa(0~145psi)										
Proof pr	essure	1.5MPa(215psi)										
Temperature −20~70 °C												
Material body Aluminum alloy												

- 1) PT thread. NPT thread and G thread are available.
- ② 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.

Ordering code

Common type: M3 PM 210 06 R 🗆 Valve's type Thread type M3: M type 3/2 Way Blank: PT T: NPT G: G B: Basic type C: Long handle type **Button color** D: Short handle type Model Button color Y: Lever typer R: Red R: Roller type R: Red L: Roller with free return type G: Green B: Black PL: Latching type PM, HS PP: Protruding type Others Not code PF: Flat type PM: Mushroom type Port size HS: Selector type Port size Code 100 Series 06: 1/8" Code 06: 1/8'

Mini type:



Valve's type
M3: M type 3/2 Way

110: 100 Series single control

210: 200 Series single control

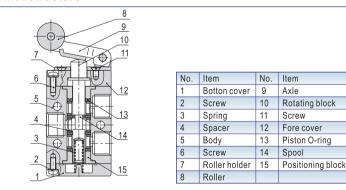
Port size
05: M5

200 Series

08: 1/4"

B: Basic type
R: Roller type
L: Roller with free return type

Inner structure



Reversal stroke

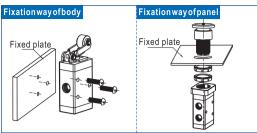
Unit:mm

M3R210

		Cor	Mini type					
Туре	Spool stroke	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	МЗС	2.0~3.0	11.0~16.0	M3L05	2.0~3.0	7.0~10.0
M3PM	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						



Assemble chart



Attentions 🛕

- 1)The control set is made of engineering plastic which only allows manual operation and switching valves through metal impact is forbidden.

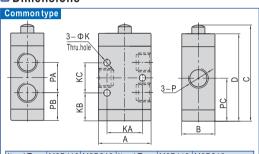
 2)The series of M3B, M3C, M3D, M3PM, M3PF and M3PP get the function of automatic restoration. The hand valves of M3Y, M3HS and M3PL are in the type of manual restoration. M3PL will be restored by turning the revolve button after being pressed into orientation.

 3) 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
- Valve is forced by any external forces, other rise it in a case and the valve.

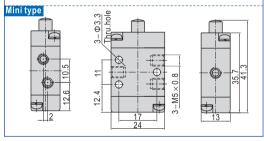
 4) The M3L can only switch the valve in single direction (impact from right to left). The impact from the other direction is invalid (from left to right).

 5) Control joint combination can be ordered individually. Please refer to the table on the right for order details.

Dimensions



Item\Type	M3B110	M3B210	Item\Type	M3B110	M3B210
Α	27	35	KB	15.5	18.5
В	18	22	KC	16	20
С	52	63.8	Р	06:1/8"	06:1/8"\08:1/4"
D	46.5	58	PA	16	20
K	3.3	4.3	PB	15.5	18.5
KA	18	23.5	PC	23.5	28.5



Mini control set dimensions

Model	M3R05 M	odel	M3L05 N	lodel
How to	Ordering code	Туре	Ordering code	Туре
order		M3R05 Roller type control set	M3L05-P14A	M3L05 Roller with free return type control set
Applicable products	M3R05		M3L05	
Dimensions	8.5 8.5	Φ12 24 25.5 32	2.2	Ф 12

Control set dimensions

Model	C Long handle type	D Short handle type	Y Lever type
How to	Ordering code Type	Ordering code Type	Ordering code Type
order	M3C210-P13A M3C210 Long handle type control set	M3D210-P13A M3D210 Short handle type control set	M3Y210-P13A M3Y210 Lever type control set
Applicable products	M3C110, M3C210	M3D110, M3D210	M3Y110, M3Y210
Dimensions	30.5 81	30.5	33.5

Model	R Roller type	L Roller with free return type
How to	Ordering code Type	Ordering code Type
order	M3R210-P14A M3R210 Roller type control se	M3L210 — P14A M3L210 Roller with free return type control set
Applicable products	M3R110, M3R210	M3L110, M3L210
Dimensions	30.5 32.5 40	Φ15 (s) 41.5

	-				J	
Model	PP Protrud	ing type	PM Mushro	om type	PL Latch	ing type (only red)
	Ordering code	Туре	Ordering code	Туре	Ordering code	Туре
How to	S3PP05-P11A	S3PP protruding type control set (Green)	S3PM05-P11A	S3PM mushroom type control set (Green)	S3PL05-P12A	S3PL Latching type control set (Red)
order	S3PP05-P12A	S3PP protruding type control set (Red)	S3PM05-P12A	S3PM mushroom type control set (Red)		
	S3PP05-P13A	S3PP protruding type control set (Black)	S3PM05-P13A	S3PM mushroom type control set (Black)		
Applicable products	M3PP110, M	3PP210	M3PM110, N	13PM210	M3PL110,	M3PL210
Dimensions	9	Ф28.5 21 971×22 98 36	30	Ф36 45 45 45 45 45 45	30 6	Φ36 Φ37 27 27 27 27 27 27 27 27 27 2

Model	PF Flat type	HS Selector type
	Ordering code Type	Ordering code Type
How to	S3PF05-P11A S3PF flat type control set (Green)	S3HS05-P11A S3HS selector type control set (Green)
order	S3PF05-P12A S3PF flat type control set (Red)	S3HS05-P12A S3HS selector type control set (Red)
	S3PF05-P13A S3PF flat type control set (Black)	S3HS05-P13A S3HS selector type control set (Black)
Applicable products	M3PF110, M3PF210	M3HS110, M3HS210
Dimensions	Φ28.5 \$27.7 \$7.	028.5 92