AITTAC

M5 Series



Symbol



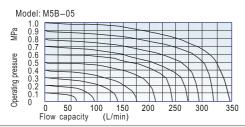


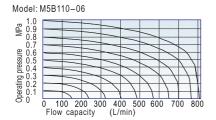


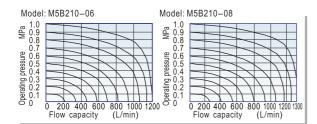
Product feature

- 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 M5B, M5R and $\mathsf{M5L}$ is provided by external mechanism, which can be used for position test or [stroke switch] limit switch
- 3. M5C,M5D,M5Y,M5PF,M5PM,M5PP,M5PL and M5HS 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. Lubricant is not necessary.
- 6. Multi-mounting makes it convenient to install and apply
- 7. The control joints of series of M5C,M5D,M5Y,M5R and M5L are made of metal which has longer service life and more reliable and steady performance.

Flow chart





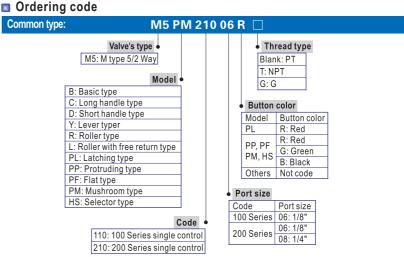


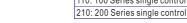
Specification

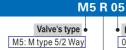
Model		S5B	S5C	S5D	S5R	S5L	S5Y	S5PM	S5PP	S5PF	S5PL	S5HS
Fluid			Air (to be filtered by 40 μ m filter element)									
Operati	ng				Ext	ternal co	ntrol dire	ect acting	type			
Port siz	e1)					05:M5;	06:1/8	'; 08:1/4	"			
Orifice	Mini type					05:2.5	mm² (C	v = 0.14				
size												
SIZE	210 06:9.0mm² (Cv=0.50); 08:12.0mm² (Cv=0.67)											
Valve ty	ре		5/2 Way									
Lubrica	tion②		Not required									
Pressur	e range		0~1.0MPa(0~145psi)									
Proof pressure		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.





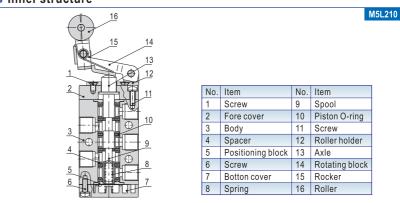




Model B: Basic type R: Roller type L: Roller with free return type

Inner structure

Mini type:



Reversal stroke

U	ni	it:	m	n

		Con	Mini type					
Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke	Туре	Spool stroke	Roller stroke
M5B	2.0~3.3	_	M5R	2.0~3.0	4.6~6.8	M5B05	2.0~3.3	_
M5PF	2.0~3.3	3.8~5.1	M5L	2.0~3.0	5.0~7.8	M5R05	2.0~3.0	6.0~8.5
M5PP	2.0~3.3	3.8~5.1	M5C	2.0~3.0	11.0~16.0	M5L05	2.0~3.0	7.0~10.0
M5PM	2.0~3.3	3.8~5.1	M5D	2.0~3.0	5.5~8.0			
M5PL	2.0~3.3	5.9~7.2						
M5HS	2.0~3.3	5.1~6.4						

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Assemble chart





Attentions 🛕



Attentions

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

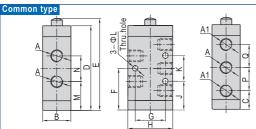
2) The series of M5B, M5C, M5D, M5PM, M5PF and M5PP get the function of automatic restoration. The hand valves of M5Y, M5HS and M5PL are in the type of manual restoration. M5PL will be restored by turning the revolve button after being pressed into orientation.

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 the valve.

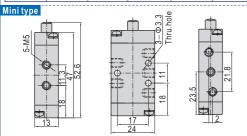
4) The M5L can only switch the valve in single direction (impact from right to left). The impact from the other direction is invalid (from left to right).

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

Dimensions



ı	Item\Type	M5B110	M5B210	Item\Type	M5B110	M5B210
	٨	06:1/8"	06:1/8"	G	18	23.5
Α	00.1/0	08:1/4"	Н	27	35	
	A1	06:1/8"	06:1/8"	J	22	22.5
ı	AI	00.1/0	06:1/8"	K	14	20
	В	18	22	L	3.2	4.3
ı	С	15	14.5	M	21	22.5
	D	57.5	66	N	16	20
I	Е	63	71.8	Р	14	18
	F	29	32.5	Q	14	18



Mini control set dimensions

Model	M3R05 Model	M3L05 Model
How to	Ordering code Type	Ordering code Type
order	M3R05-P14A M3R05 Roller type control set	M3L05—P14A M3L05 Roller with free return type control se
Applicable products	M5R05	M5L05
Dimensions	Φ12 Φ12 25.3 31.8	012 012 012 012 012 012 012 013 013 014 015 015 016 017 017 017 017 017 017 017 017

Control set Dimensions

Model	C Long handle	type	D Short handle	type	Y Lever type	
How to	Ordering code	Туре	Ordering code	Туре	Ordering code	Туре
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	M5C110, M5C	210	M5D110, M5D	210	M5Y110, M5Y	'210
Dimensions	9	<u> </u>	16	44.3	16.5	36.7
Dimensions	30.5	80.7		30.5	1	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 set	M3L210—P14A M3L210 Roller with free return type control
Applicable products	M5R110, M5R210	M5L110, M5L210
Dimensions	97 97 97 97 97 97 97 97 97 97 97 97 97 9	8 1.5 30.5 32.6 41.5

	-		-	+1.0		
Model	PP Protruding	g type	PM Mushroor	n type	PL Latching	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	M5PP110, M	5PP210	M5PM110, M	5PM210	M5PL110, M5	5PL210
	36		30	36	30	Ф36
Dimensions	028.5 21 2 2 2 1 2 2 2 1 2		9	Φ36 83.7 × 2.5 83.7 × 83.7	9	M22×1.25 61.5-58.5

	<u> </u>	<u> </u>
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	M5PF110, M5PF210	M5HS110, M5HS210
Dimensions	96 428.5 527 × 82 × 82 × 82 × 82 × 82 × 82 × 82 ×	9 028.5 028.5 028.5