

S3 series Mechanical Valve



Technical Specification

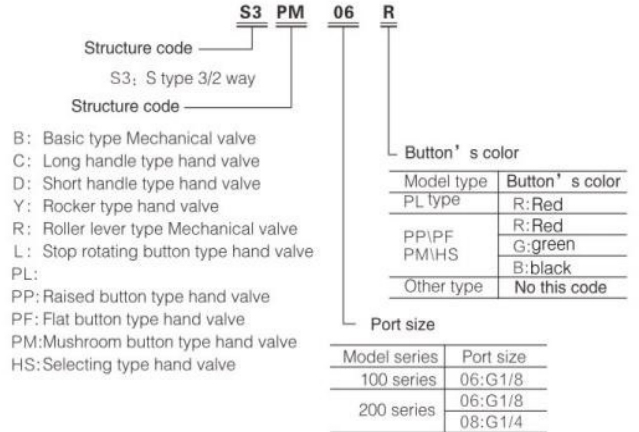
Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Working Medium	Air (Filtrated by over 40um ¹ s sieve)											
Acting type	Eeternal control direct acting											
Port size ①	05: M5; 06: G1/8; 08: G1/4											
Effective sectional area	05:2.5 mm ² (Cv=0.14); 06:8.0mm ² (Cv=0.45); 08:12.0mm ² (Cv=0.67)											
Ways number	3/2 Way											
Lubrication ②	No need											
Working pressure range	0~0.8MPa											
Garantee pressure	1.5MPa(215psi)											
Working temperature °C	-5~60°C(Not Frozen)											
Body material	Aluminium alloy											

- ① Port type has G type for choosing
 ② If adding lubrication, don't stop midway, lubrication is ISOVG32 or same type.

Symbol



Order Code



Resersing stroke

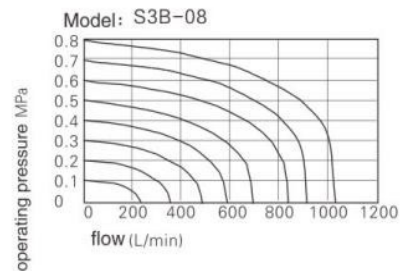
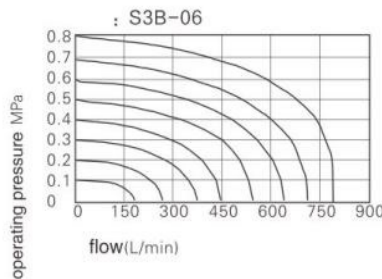
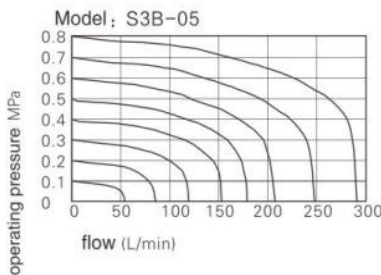
- external force required by S3B、S3R、S3L、S3V series are Provided by external agencies; used in position detection or position switch
- S3PF、S3PM、S3PP、S3PL、S3Y、S3HS、S3C、S3D series are manual type, Multiple structure shape control head, convinent for using in different conditions.
- Cut-off structure, Good sealing, Commutation flexibility, No need to add lubricating oil
- S3C、S3D、S3Y、S3R、S3L series' control head are metal type, long life, and More reliable and stable

Resersing stroke

单位:mm

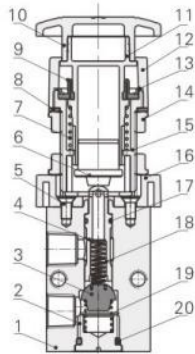
model	spool stroke	pushbutton stroke	spool stroke	pushbutton stroke	roller(hand shank)stroke
S3B	2.4~4.0	—	S3R	2.4~3.4	5.5~7.8
S3PF	2.4~4.0	3.8~5.4	S3L	2.4~3.4	6.0~8.6
S3PP	2.4~4.0	3.8~5.4	S3V	2.4~3.8	3.4~4.8
S3PM	2.4~4.0	3.8~5.4	S3C	2.4~3.8	14.4~18.4
S3PL	2.4~4.0	5.9~7.5	S3D	2.4~3.8	7.4~9.4
S3HS	2.4~4.0	5.1~6.7			

Flow characteristics



Inner construct

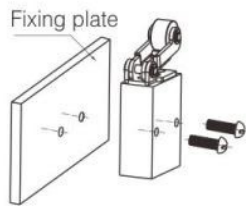
S3PM



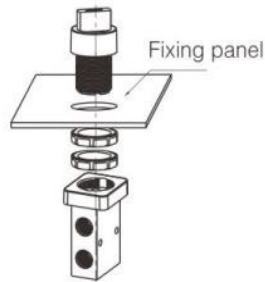
No.	Item	No.	Item	No.	Item	No.	Item
1	Valve body	6	Push button press release	11	Push button body	16	Button fixed block
2	Base	7	Spring	12	Push button cover	17	O ring
3	Nut	8	Fastening washer	13	Push button press ring	18	Spring
4	Axis core	9	Dust-proof guard	14	Fastening nut	19	Spring
5	Cross screw	10	Push button cap	15	Push button fixed	20	O ring

installing and using

Valve body fixing type



Panel fixing type



Notice:

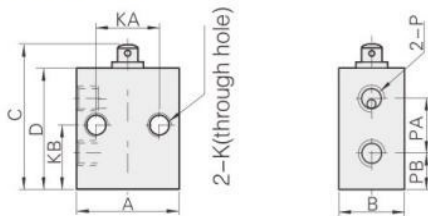
1.the control part is made of engineering plastics, only manual operation is allowed. No metal impact to switch valves s3b s3c s3d s3pm s3pf s3pp series are auto return series。 s3y s3hs s3pl series hand valves are manual return series , and for m3pl ,when it press into position, need rotating the knob to return back.

2.pay attention to the reversing stroke. When any external force makes the valve reversing, the base reversing stroke should not exceed the reversing range specified in the control stroke table, otherwise the valve body will be damaged

3.s3l one-way rolling-wheel valve as long as one direction can make the valve switch (from right to left impact). Invalid impact in the other direction (left to right)

4.control head units can order separately.

Dimension(mm)



Model	A	B	C	D	K	KA	KB	P	PA	PB
05 type	26	16.5	36	30	M5x0.8	16	15	M5x0.8	13	9
06 type	30	16.5	47	41	M5x0.8	23	20.5	G1/8	17.5	11.5
08 type	34	17.5	52	46	M5x0.8	24	22.5	G1/4	21	12

Common type control head external specification

Model	Long shank type		Short shank type		shake shank type	
	Order code	Specification	Order code	Specification	Order code	Specification
Order mode	M3C210-P13A	M3C210 long shank units	M3D210-P13A	M3C210 short shank units	M3Y210-P13A	M3C210 shake shank units
Applicable products	S3C110、S3C210		S3D110、S3D210		S3Y110、S3Y210	
Outer dimension						