MS3 Series 3/2 Mechanically Operated In-line Valves

The MS3-Series In-line 3/2 Mechanically operated poppet-type valves provide an extensive range of control options, that may be easily interchanged. The range may be used Lubrication free and have M5, G1/8 or G1/4 ports.



Specification

Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Fluid	Air (to be filtered by 40µm filter element)											
Operating	External control direct acting type											
Port size 1	05: M5; 06: 1/8"; 08: 1/4"											
Orifice size	05: 2.5 mm²(Cv=0.14); 06: 8.0mm²(Cv=0.45); 08: 12.0mm²(Cv=0.67)											
Valve type	3 port 2 position											
Lubrication 2	Not required											
Pressure range	0~0.8MPa(0~114Psi)											
Proof pressure	1.5MPa(215Psi)											
Temperature ℃	-20~70											
Material of body	Aluminum alloy											

- 1. G (BSP) and M5 threads are standard (NPT threads are available as an option on request)
- 2. If lubrication is preferred, lubricants similar to ISO VG32 or equivalent are recommended.

Symbols







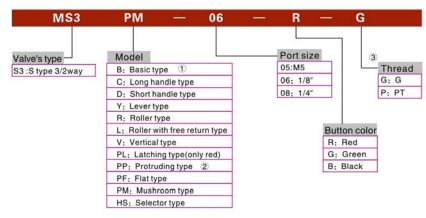




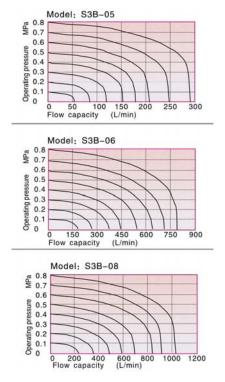
Product Features

- 1. Poppet type construction.
- Low leakage and low friction action.
- 3. Pressure assist together with spring return.
- 4. Exhaust through operator pin.
- 5. Maybe used lubrication free.
- 6. Compact 13mm, 18mm and 22 valve widths.

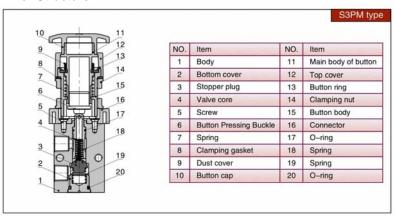
Model/Ordering Codes



Flow Charts



Inner Structure



Operator Stroke

					Unit: mm
Туре	Spool stroke	Button stroke	type	Spool stroke	Roller(handle)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			

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Mead Engineering Services Ltd.

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MS3 Series 3/2 Mechanically Operated In-line Valves

Assembly Details

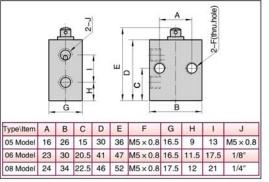
Fixation way of panel Fixed plate

General Information

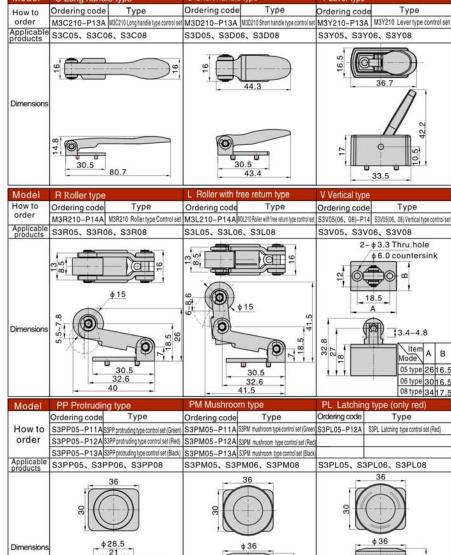
- Where engineering plastics are used, the operator is designed for hand use only. Avoid mechanical impacts to prevent damage.
- for hand use only. Avoid mechanical impacts to prevent damage.

 2. Control operators may be ordered separately. Please refer to the Model/Ordering Codes for the operator type letter.
- Operator codes B, C, D, PF, PM and PP have automatic spring return.
 Operator codes V, HS and PI, require a reversing action to
- 4. Operator codes Y, HS and PL require a reversing action to change the valve state.
- Do not over-stroke the valves and refer to the Operator Stroke chart for the permitted range for each model.
- Operator code L is a one—way roller trip mechanism and will operate the valve when the cam is moved from right to left for the picture illustration (see right).

Dimensions of body (S3B)



Dimensions



		125 45 155	
Model	PF Flat type	HS Selector type	
How to order	Ordering code Type	Ordering code Type	
	S3PF05-P11A S3PF flat type control set (Green)	S3HS05-P11A S3HS selector type control set (Green)	
	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	S3PF05, S3PF06, S3PF08	S3HS05, S3HS06, S3HS08	
Dimensions	36 \$\int 28.5 \text{28.5} \text{28.5} \text{28.5} \text{28.5} \text{28.7} \text{28.7} \text{28.7} \text{28.5} \text{28.5} \text{28.5} \text{28.5} \text{28.5} \text{28.5} \text{28.5} \text{28.5} 28.	30 828.5 87.3 8	

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