# S3 Series



## Symbol





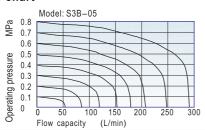


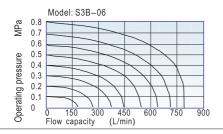


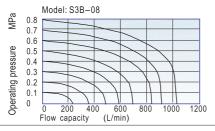
## Product feature

- The external force required by changing the direction of the series of S3B, S3R, S3L and S3V is provided by external mechanism, which can be used for position test or limit switch.
- The series of S3PF, S3PM, S3PP, S3PL, S3Y, S3HS, S3C and S3D are operated manually, owning control joints with several structure forms and suitable for application under different conditions.
- 3. Shut-off structure has good tightness and is sensitive in direction changing and lubricant is not necessary.
- 4. Multi-mounting makes it convenient to install and apply.
- 5. The control joints of series of S3C, S3D, S3Y, S3R and S3L are made of metal which has long service life and more reliable and steady performance.

## ■ Flow chart







### Specification

Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Fluid				Air (to	be filte	red by 4	10 μm	filter ele	ment)			
Operating		External control direct acting type										
Port size①		05:M5; 06:1/8"; 08:1/4"										
Orifice size		05:2.5 mm <sup>2</sup> (Cv=0.14); 06:8.0mm <sup>2</sup> (Cv=0.45); 08:12.0mm <sup>2</sup> (Cv=0.67)										
Valve type		3/2 Way										
Lubrication2		Not required										
Pressure range		0~0.8MPa(0~114psi)										
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.

#### Ordering code

# S3 PM 06 R P

Valve's type S3: S type 3/2 Way

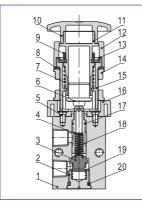
	Model
B: Basic type	
C: Long handle type	
D: Short handle type	
Y: Lever type	
R: Roller type	
L: Roller with free ret	urn type
V: Vertical type	
PL: Latching type	
PP: Protruding type	
PF: Flat type	
PM: Mushroom type	
HS: Selector type	

# Port size Thread type M5 Not code 1/8" 1/4" G: G

Button color							
Model	Button color						
PL	R: Red						
PP. PF	R: Red						
PM, HS	G: Green						
PIVI, NO	B: Black						
Others	Not code						

4	Port size
	05: M5
	06: 1/8"
	08: 1/4"

# ■ Inner structure



No.	Item	No.	Item
1	Body	11	Main body of button
2	Bottom cover	12	Top cover
3	Stopper plug	13	Button ring
4	Valve core	14	Clamping nut
5	Screw	15	Button body
6	Button pressing buckle	16	Connector
7	Spring	17	O-ring
8	Clamping gasket	18	Spring
9	Dust cover	19	Spring
10	Button cap	20	O-ring

# Reversal stroke

Unit: mm

S3PM type

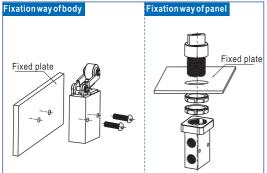
Туре	Spool stroke	Button stroke	Туре	Spool stroke	Roller(handle) stroke
S3B	2.4~4.0	_	S3R	2.4~3.4	5.5~7.8
S3PF	2.4~4.0	3.8~5.4	S3L	2.4~3.4	6.0~8.6
S3PP	2.4~4.0	3.8~5.4	S3V	2.4~3.8	3.4~4.8
S3PM	2.4~4.0	3.8~5.4	S3C	2.4~3.8	14.4~18.4
S3PL	2.4~4.0	5.9~7.5	S3D	2.4~3.8	7.4~9.4
S3HS	2.4~4.0	5.1~6.7			



# S3 Series

# Assemble chart

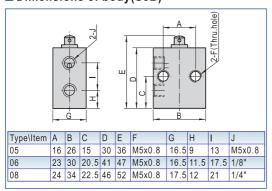




#### Attentions 🛕

- 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 S3B, S3C, S3D, S3PM, S3PF and S3PP get the function of automatic restoration. The hand valves of S3Y, S3HS and S3PL are in the type of manual restoration. S3PL 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 stoke 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 S3L 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 of body(S3B)



#### Dimension

Model	C Long handle	type	D Short handle	e 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	S3C05, S3C06,	S3C08	S3D05, S3D06,	S3D08	S3Y05, S3Y06,	S3Y08
Dimensions	9		16	44.3	16.5	36.7
	30.5	80.7	3	0.5	17	33.5

Model	R Roller type		L Roller with	free return type	V Vertical typ	е
How to	Ordering code	Type	Ordering code	Туре	Ordering code	Туре
order	M3R210-P14A	M3R210 Roller type control set	M3L210-P14A	M3L210 Roller with free return type control set	S3V05(06, 08)-P14	S3V05(06.08) Vertical type control set
Applicable products	S3R05, S3R06,	S3R08	S3L05, S3L06,	S3L08	S3V05, S3V06,	S3V08
·	5.5~7.8	Ф15. 90.5 30.5 32.6 40	6.28 6 8.35 8.55	Φ15 30.5 32.6 41.5	12	の3.3 Thru hole の6.0 元式 A 3.4~4.8 Nitem A B Model A B 05 Type 26 16.5 06 Type 30 16.5 08 Type 34 17.5

			_			00 13 00 04 117.0	
Model	PP Protruding	g type	PM Mushroom	ı type	PL Latching	g 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	S3PP05, S3PP	06, S3PP08	S3PM05, S3PM	06, S3PM08	S3PL05, S3F	2L06, S3PL08	
	30	36	30	36	8		
Dimensions	Φ28.5 21 22×2×1 20 20 20 20 20 20 20 20 20 20 20 20 20		9	W22×1.25 53.7	9	036 WZZX 1.25 51.5-58.5	

Model	PF Flat type		HS Selector t	уре
	Ordering code	Туре	Ordering code	Туре
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	S3PF05, S3PF	06, S3PF08	S3HS05, S3HS	306, S3HS08
Dimensions	30	36 D 28.5 T X ZZ X X ZZ X ZZ X ZZ X ZZ X ZZ X ZZ	30	36 WX22 X 1 25 57 3

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