

# S3 Series



# Ordering code

S3	PM	06	R	Т	
1	2	3	4	5	

①Valve's type	②Model	<b>3Port size</b>	4 Button color	<b>5Thread typ</b>	e
	B:Basic type			M5	1/8" 1/4"
	C:Long handle type				T: NPT
	D:Short handle type				
	Y:Lever type	$\mathcal{M}$	No this code	No this code	
	R:Roller type	0.5:M5			
S3: S type	L:Roller with free return type		<b>\</b>		
3/2 Way	V:Vertical type	06:1/8" 08:1/4"	$\Lambda^{V}$		
	PL:Latching type	00.1/4	R:Red		
	PP:Protruding type	]/ \			
	PF:Flat type		R:Red		
	PM:Mushroom type		G:Green B:Black		
	HS:Selector type		J.D.G.K		

# **Specification**

				$\sim$								
Model	S3B	S3C	S3D	S3V	S3R	S3L	S3Y	S3PM	S3PP	S3PF	S3PL	S3HS
Fluid				Air (	to be fi	ltered b	y 40 μ	m filter	elemen	t)		
Operating			1/		Externa	al contr	ol dire	ct acting	type			
Port size [Note1]		05:M5 06:1/8" 08:1/4"										
Orifice size	]/	05:2.5	mm²	(Cv=0.	14) 0	6:8.0m	m² (Cv	=0.45)	08:12.	0mm² (0	Cv=0.67	)
Valve type	7	3/2 Way										
Lubrication [Note2]						Not	requir	ed				
Pressure range					(	0~145p	si(0~1	.0MPa)				
Proof pressure	)	215psi(1.5MPa)										
Temperature		-20~70℃										
Material body						Alum	inum a	lloy				

[Note1] NPT thread is available.

[Note2] 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.

#### Reversal stroke

					Unit: mm
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			



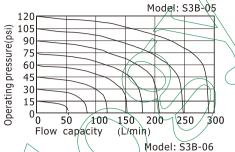


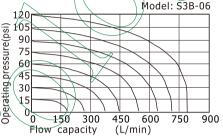
#### S3 Series

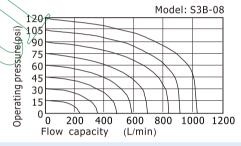
#### **Product feature**

- 1. 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.
- 2. 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







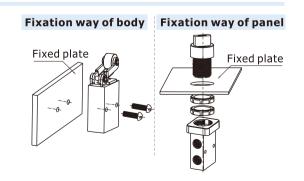
#### **Inner structure**

S3PM	(1) (1) (1) (2) (3) (3) (4) (4) (5) (6) (6) (6) (7) (4) (4) (4) (7) (7) (4) (4) (4) (7) (7) (4) (4) (4) (7) (7) (7) (4) (4) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	
	× 16:3 18:31 ×:31 ×	
	2 19 20	((

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

# **Installation and Application**

- 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.

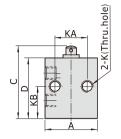


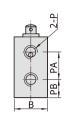


#### S3 Series

#### **Dimensions**

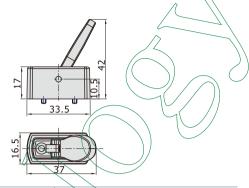
#### Body(S3B)





Model\Item	Α	В	С	D	K	KA	KB	Р	PA	РВ
05	26	16.5	36	30	M5x0.8	16	15	M5x0.8	13	9
06	30	16.5	47	41	M5x0.8	23	20.5	1/8"	17.5	11.5
08	34	17.5	52	46	M5x0.8	24	22.5	1/4"	21	12

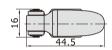
Lever type(Y)



	Model			Lever type(Y)
How to	Ordering	code		M3Y210-P13A
order	Тур	e	1	M3Y210Lever type control set
Applic	able prod	ucts	,	S3Y05,S3Y06,S3Y08
				//

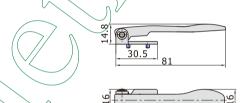
#### **Short handle type(D)**





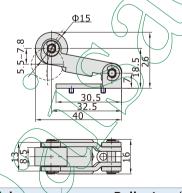
	Model	Short handle type(D)
How to	Ordering code	M3D210-P13A
order	Туре	M3D210 Short handle type control set
Applic	able products	S3D05,S3D06,S3D08

### Long handle type(C)



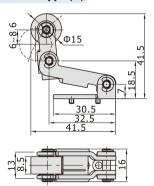
>	Model	Long handle type(C)
How to	Ordering code	M3C210-P13A
order	Туре	M3C210 Long handle type control set
Applic	able products	S3C05,S3C06,S3C08

#### Roller type(R)



	Model		Roller type(R)
How to	Ordering	code	M3R210-P14A
order	Туре		M3R210 Roller type control set
Applic	able produ	ucts	S3R05,S3R06,S3R08

#### Roller with free return type(L)



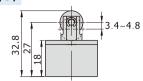
Model		Roller with free return type(L)
How to	Ordering code	M3L210-P14A
order	Туре	M3L210 Roller with free return type control set
Applicable products		S3L05,S3L06,S3L08

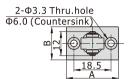
# Control valve(3/2way)



## **S3 Series**

#### Vertical type(V)

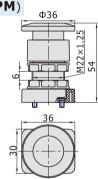




Model\Item	Α	В
05	26	16.5
06	30	16.5
08	34	17.5

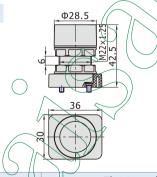
I	Model	Vertical type ( V )
How to	Ordering code	S3V05(06/08)-P14A
order	Туре	S3V05(06. 08) Vertical type control set
Applic	able products	S3V05,S3V06,S3V08

#### Mushroom type(PM)



	Model	Mushroom type (PM)
	Ordering code	S3PM05-P14A
	Туре	S3PM mushroom type control set (Green)
How to	Ordering code	S3PM05-P12A
order	Туре	S3PM mushroom type control set (Red)
	Ordering code	S3PM05-P13A
	Туре	S3PM mushroom type control set(Black)
Applic	able products	S3PM05,S3PM06,S3PM08

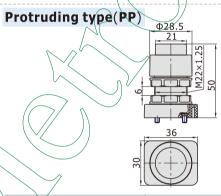
#### Flat type(PF)



Model	Flat type ( PF )
Ordering code	S3PF05-P11A
Type	S3PF flat type control set(Green)
Ordering code	S3PF05-P12A
Type	S3PF flat type control set(Red)
Ordering code	S3PF05-P13A
Туре	S3PF flat type control set(Black)
cable products	S3PF05,S3PF06,S3PF08
	Ordering code Type Ordering code Type Ordering code Type Type

# Model How to Ordering code order Type S3PL Latching type (only red) (PL) S3PL Latching type control set (Red)

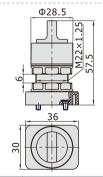
S3PL05,S3PL06,S3PL08



Applicable products

	Model	Protruding type ( PP )
	Ordering code	S3PP05-P11A
$\gamma$	Туре	S3PP protruding type control set (Green)
/ How to	Ordering code	S3PP05-P12A
order	Туре	S3PP protruding type control set (Red)
	Ordering code	S3PP05-P13A
	Туре	S3PP protruding type control set (Black)
Applic	able products	S3PP05,S3PP06,S3PP08

#### Selector type(HS)



	Model	Selector type ( HS )
	Ordering code	S3HS05-P11A
	Туре	S3HS selector type control set(Green)
How to	Ordering code	S3HS05-P12A
order	Туре	S3HS selector type control set(Red)
	Ordering code	S3HS05-P13A
	Туре	S3HS selector type control set(Black)
Appli	cable products	S3HS05,S3HS06,S3HS08

