

# Push-pull valve(3/2way)

## 3L Series

3L



### Specification

Model	3L110-06	3L210-06	3L210-08	3L310-08	3L310-10
Fluid	Air (to be filtered by 40 μm filter element)				
Operating	Manual control direct acting type				
Port size <sup>①</sup>	1/8"		1/4"		3/8"
Orifice size	12.0mm <sup>2</sup> (Cv=0.67)	14.0mm <sup>2</sup> (Cv=0.78)	16.0mm <sup>2</sup> (Cv=0.89)	25.0mm <sup>2</sup> (Cv=1.39)	30.0mm <sup>2</sup> (Cv=1.67)
Valve type	3/2 Way				
Lubrication <sup>②</sup>	Not required				
Pressure range	0~0.8MPa(0~116psi)				
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

**3L 2 10 08** □

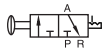
- Model**: 3L: 3 port 2 position push-pull valve
- Code**:
  - 1: 100 Series
  - 2: 200 Series
  - 3: 300 Series
- Valve type**: 10: 2 position
- Thread type**:
  - Blank: PT
  - T: NPT
  - G: G
- Port size**:
 

Code	Port size
100 Series	06: 1/8"
200 Series	06: 1/8"
	08: 1/4"
300 Series	08: 1/4"
	10: 3/8"

### Dimensions

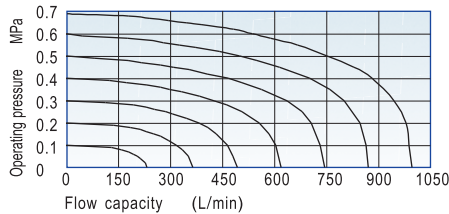
Item\Type	3L11006	3L21006	3L21008	3L31008	3L31010
A	87	98	98	106.5	106.5
AB	47.8	57.8	57.8	66.5	66.5
AC	10	10	10	10	10
B	18	22	22	27	27
C	27	35	35	40	40
D	25	25	25	25	25
E	M12X0.75	M14X1.0	M14X1.0	M16X1.0	M16X1.0
K	3.1	4.3	4.3	4.3	4.3
KA	21	25	25	30	30
KB	13	16	16	18	18
KC	7.7	8	8	10	10
L	3.3	3.3	3.3	4.3	4.3
LA	19	30	30	35	35
LB	13	17	17	20	20
LC	14	13.5	13.5	15.5	15.5
P	1/8"	1/8"	1/4"	1/4"	3/8"
PA	16	22.5	22.5	24	24
PB	2	0	0	0	0
PC	15.5	17.5	17.5	21	21
PD	24.5	28.5	28.5	33	33
PE	1	0	1.5	0	2

### Symbol

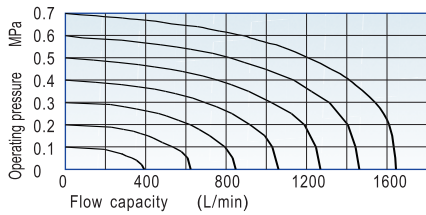


### Flow chart

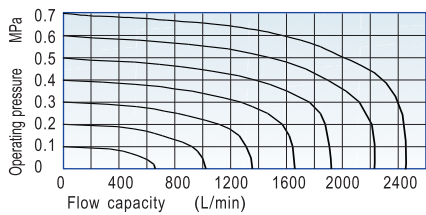
Model: 3L110-06



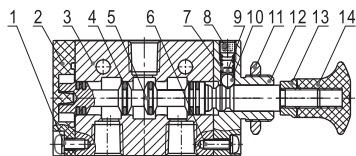
Model: 3L210-08



Model: 3L310-10



### Inner structure



No.	Item	No.	Item	No.	Item
1	Round head screw	6	Round head screw	11	Hexagon nut
2	Bottom cover	7	Spring	12	Top cover
3	Body	8	Stop screw	13	Safety nut
4	O-ring	9	Spring base	14	Hand grip
5	Spool	10	Steel ball		