

# Push-pull valve(5/2way)



## 4L Series



### Specification

Model	4L110-06	4L210-06	4L210-08	4L310-08	4L310-10
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	5/2 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				

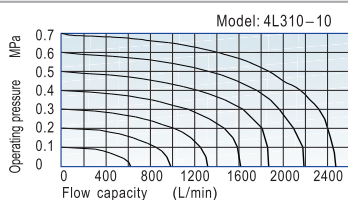
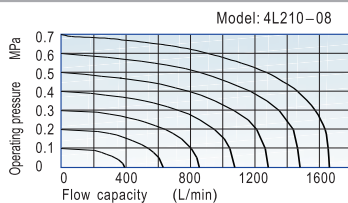
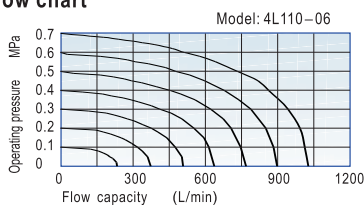
① PT thread. NPT thread and G thread are available;

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.

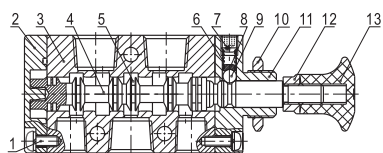
### Symbol



### Flow chart



### Inner structure



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

### Ordering code

**4L 2 10 08 P**

- Model**
  - 4L: 5 port 2 position push-pull valve
- Code**
  - 1: 100 Series
  - 2: 200 Series
  - 3: 300 Series
- Valve type**
  - 10: 2 position
- Thread type**
  - P: 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	4L110	4L210	4L310	Item\Type	4L110	4L210	4L310
A1	1/8"	1/8"	1/8"	M	21.2	21.7	21.7
A2	1/8"	1/8"	1/4"	N	3.3	4.3	4.3
B	28	36	36	P	19	23.5	23.5
C	14.2	13.7	13.7	Q	27	35	35
D	28.2	31.7	31.7	R	58	65	65
E	2	0	0	S	10	10	10
F	13	17	17	T	3.3	3.3	3.3
G	18	22	22	U	30	38	38
H	22	22	22	V	13.2	12.7	12.7
I	12	14	14	W	3	0	3
J	0.75	1.0	1.0	X	16	18	21
K	90	98	98	Y	20.2	22.7	21.2
L	14	20	20				

