

# Push-pull valve(5/2way)



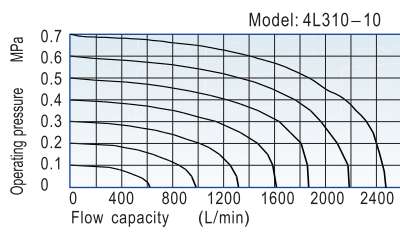
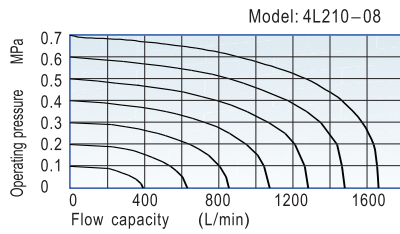
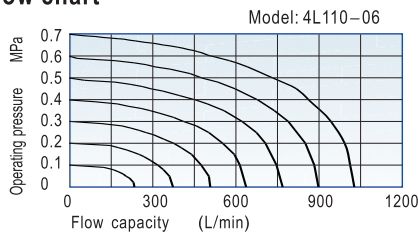
## 4L Series



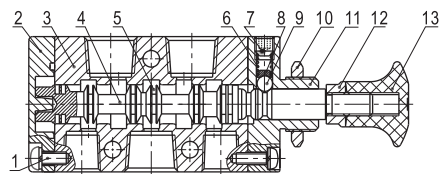
### Symbol



### 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		

### 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 size①	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				
Lubrication②	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

**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	
	06	06	08	08	10	10		06	06	08	08	10	10
A1	1/8"	1/8"	1/8"	1/4"	1/4"	1/4"	M	21.2	21.7	21.7	28	28	28
A2	1/8"	1/8"	1/4"	1/4"	3/8"	3/8"	N	3.3	4.3	4.3	4.3	4.3	4.3
B	28	36	36	45	45	45	P	19	23.5	23.5	27.5	27.5	27.5
C	14.2	13.7	13.7	17.5	17.5	17.5	Q	27	35	35	40	40	40
D	28.2	31.7	31.7	40	40	40	R	58	65	65	80.8	80.8	80.8
E	2	0	0	0	0	0	S	10	10	10	10	10	10
F	13	17	17	20	20	20	T	3.3	3.3	3.3	4.3	4.3	4.3
G	18	22	22	27	27	27	U	30	38	38	50	50	50
H	22	22	22	25	25	25	V	13.2	12.7	12.7	15	15	15
I	12	14	14	16	16	16	W	3	0	3	0	4	4
J	0.75	1.0	1.0	1.0	1.0	1.0	X	16	18	21	22	24	24
K	90	98	98	115	115	115	Y	20.2	22.7	21.2	29	28	28
L	14	20	20	24	24	24							

