

Push-pull valve(3/2way)

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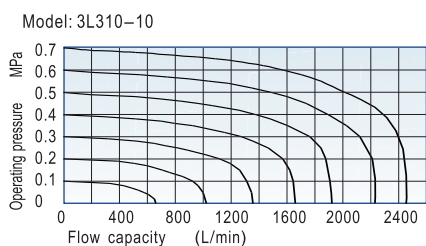
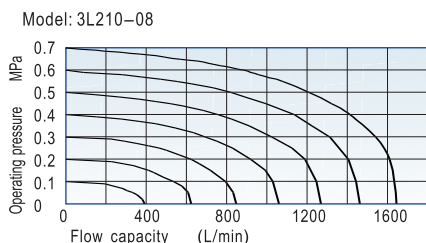
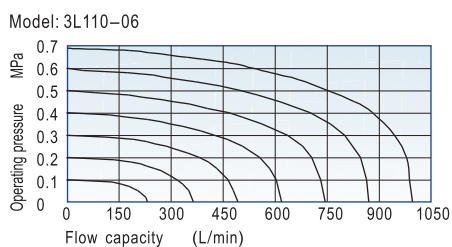
3L Series



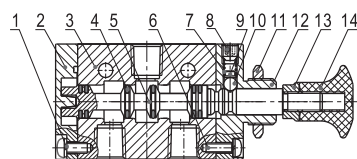
Symbol



Flow chart



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		

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 ^①	1/8"		1/4"		3/8"
Orifice size	12.0mm ² (Cv=0.67)	14.0mm ² (Cv=0.78)	16.0mm ² (Cv=0.89)	25.0mm ² (Cv=1.39)	30.0mm ² (Cv=1.67)
Valve type	3/2 Way				
Lubrication ^②	Not required				
Pressure range	0~0.8MPa(0~116psi)				
Proof pressure	1.5MPa(215psi)				
Temperature	-20~70℃				
Material body	Aluminum alloy				

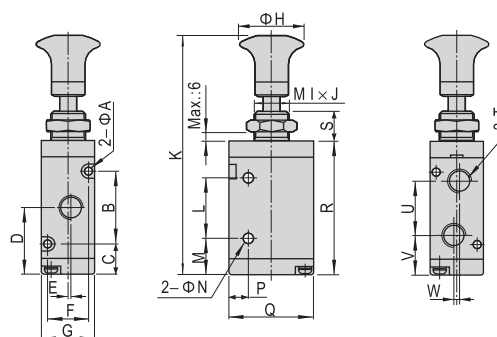
① PT thread, NPT thread and G thread are available.

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 P	
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	P: PT T: NPT G: G
Port size	Code Port size 100 Series 06: 1/8" 06: 1/8" 200 Series 08: 1/4" 08: 1/4" 300 Series 08: 1/4" 10: 3/8"

Dimensions



Item\Type	3L110	3L210	3L310	Item\Type	3L110	3L210	3L310
A	06	06	08	L	21	25	30
B	19	30	35	M	12.2	15.2	17.5
C	13.2	12.7	15	N	3.3	4.3	4.3
D	23.7	27.7	32.5	P	7.5	8	10
E	1	0	1.5	Q	27	35	40
F	13	17	20	R	47	57	65.8
G	18	22	27	S	10	10	10
H	22	22	25	T	1/8"	1/8"	1/4"
I	12	14	16	U	16	22.5	24
J	1.0	0.75	1.0	V	14.7	16.5	20.5
K	79	90	100	W	2	0	0

Push-pull valve(5/2way)

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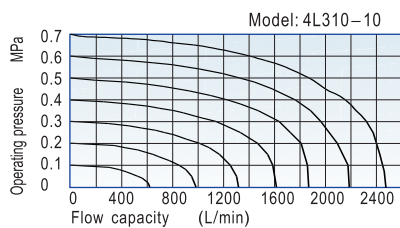
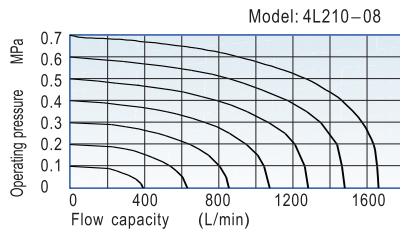
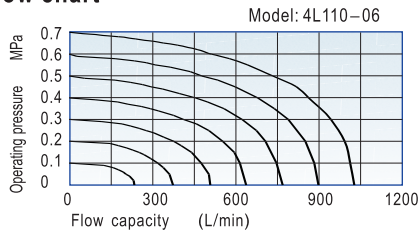
4L Series



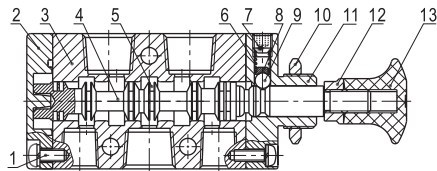
Symbol



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 ² (Cv=0.67)	14.0mm ² (Cv=0.78)	16.0mm ² (Cv=0.89)	25.0mm ² (Cv=1.39)	30.0mm ² (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℃				
Material body	Aluminum alloy				

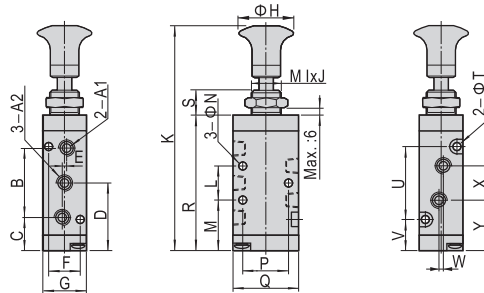
① PT thread. NPT thread and G thread are available;

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