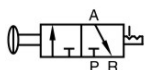


The M4L-Series 5/2 Push-pull valves may be used Lubrication free and be panel or surface mounted. The spool is held in the operated position by a mechanical detent mechanism.



Symbol



Specification

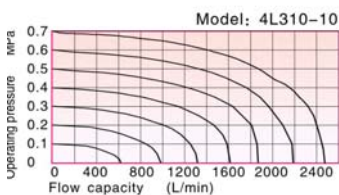
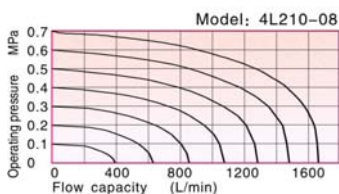
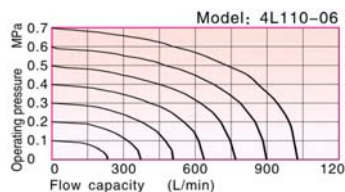
Model	4L110-06	4L210-06	4L210-08	4L310-08	4L310-10
Fluid	Air (to be filtered by 40µm filter element)				
Operating	Manual control direct acting type				
Port size ①	1/8"		1/4"		3/8"
Orifice size	12.0mm ² (Cv=0.67)	14.0mm ² (Cv=0.78)	16.0mm ² (Cv=0.89)	25.0mm ² (Cv=1.39)	30.0mm ² (Cv=1.67)
Valve type	5 port 2 position				
Lubrication ②	Not required				
Pressure range	0 ~ 0.8MPa(21~114Psi)				
Proof pressure	1.5 MPa(215Psi)				
Temperature °C	-20~70				
Material of body	Aluminum alloy				

1. G (BSP) threads are standard (NPT threads are available as an option on request)
2. If lubrication is preferred, lubricants similar to ISO VG32 or equivalent are recommended.

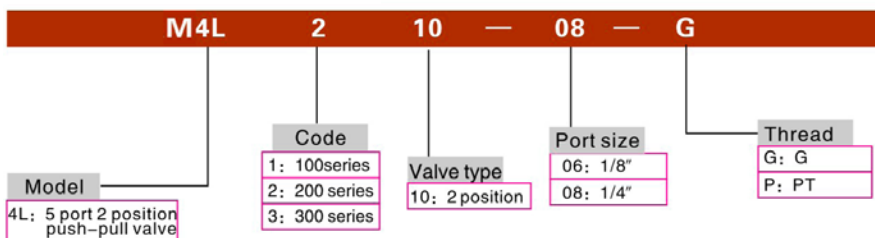
Product Features

1. A Push-pull valve with smooth actuation.
2. Spool type, with low leakage and low friction action.
3. The spool is held in position by a mechanical detent.
4. Special manufacturing techniques ensure low start pressure and long service life.
5. Maybe used lubrication free.
6. The valve range may be panel mounted or surface mounted.

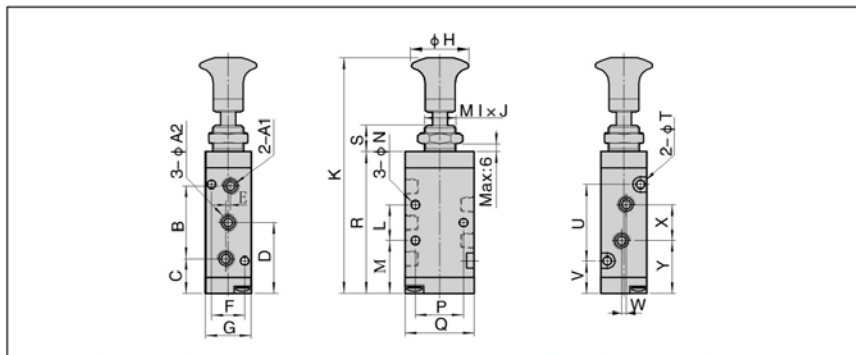
Flow Charts



Model/Ordering Codes



Dimensions



Item/type	4L110		4L210		4L310		Item/type	4L110		4L210		4L310				
	06	06	08	08	10	06		06	08	08	10	06	06	08	08	10
A1	1/8"	1/8"	1/8"	1/4"	1/4"	M	21.2	21.7	21.7	28	28	28	28	28	28	28
A2	1/8"	1/8"	1/4"	1/4"	3/8"	N	3.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
B	28	36	36	45	45	P	19	23.5	23.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
C	14.2	13.7	13.7	17.5	17.5	Q	27	35	35	40	40	40	40	40	40	40
D	28.2	31.7	31.7	40	40	R	58	65	65	80.8	80.8	80.8	80.8	80.8	80.8	80.8
E	2	0	0	0	0	S	10	10	10	10	10	10	10	10	10	10
F	13	17	17	20	20	T	3.3	3.3	3.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
G	18	22	22	27	27	U	30	38	38	50	50	50	50	50	50	50
H	22	22	22	25	25	V	13.2	12.7	12.7	15	15	15	15	15	15	15
I	12	14	14	16	16	W	3	0	3	0	4	4	4	4	4	4
J	0.75	1.0	1.0	1.0	1.0	X	16	18	21	22	24	24	24	24	24	24
K	90	98	98	115	115	Y	20.2	22.7	21.2	29	28	28	28	28	28	28
L	14	20	20	24	24											

Inner Structure

