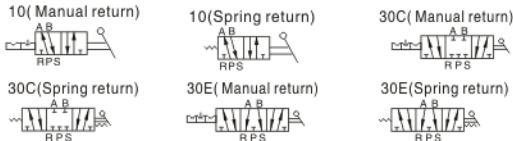


Hand lever valve (5/2、5/3way)

4H Series



Symbol



Product feature

1. Manual operation, smooth actuation, and exact and reliable orientation;
2. Sliding column structure has good tightness and light weight and is easy to install and dismount;
3. Internal hole adopts special processing technology which has little attrition friction, long service life;
4. No need to add oil for lubrication;
5. Panel-mounting makes it convenient to install and apply.

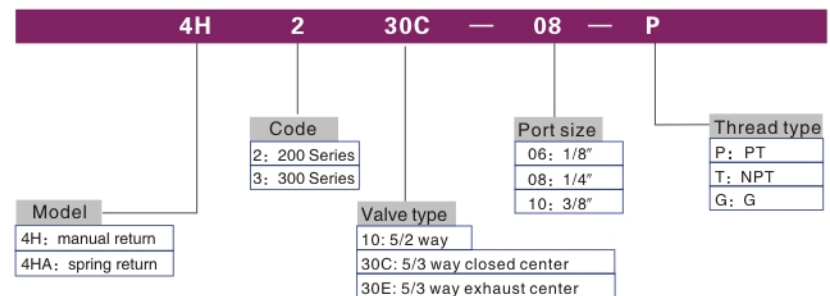
Specification

Model	210-06	230-06	210-08	230-08	310-08	330-08	310-10	330-10
Fluid	Air (to be filtered by 40μm filter element)							
Operating	Manual control direct acting type							
Port size ①	In=out =Exhaust=1/8"		In=out=1/4" Exhaust=1/8"		In=out Exhaust=1/4"		In=out=3/8" Exhaust=1/4"	
Orifice size (mm ²)	14.0	12.0	16.0	12.0	25.0	18.0	30.0	18.0
Cv	0.78	0.67	0.89	0.67	1.39	1.0	1.67	1.0
Valve type	5/2 Way	5/3 Way	5/2 Way	5/3 Way	5/2 Way	5/3 Way	5/2 Way	5/3 Way
Lubrication ②	Not required							
Pressure range	0 ~ 0.8MPa (0 ~ 116Psi)							
Proof pressure	1.5MPa (215Psi)							
Temperature℃	-20~70							
Material of body	Aluminum alloy							
Operating angle	±15°	±8.5°	±15°	±8.5°	±18°	±10°	±18°	±10°

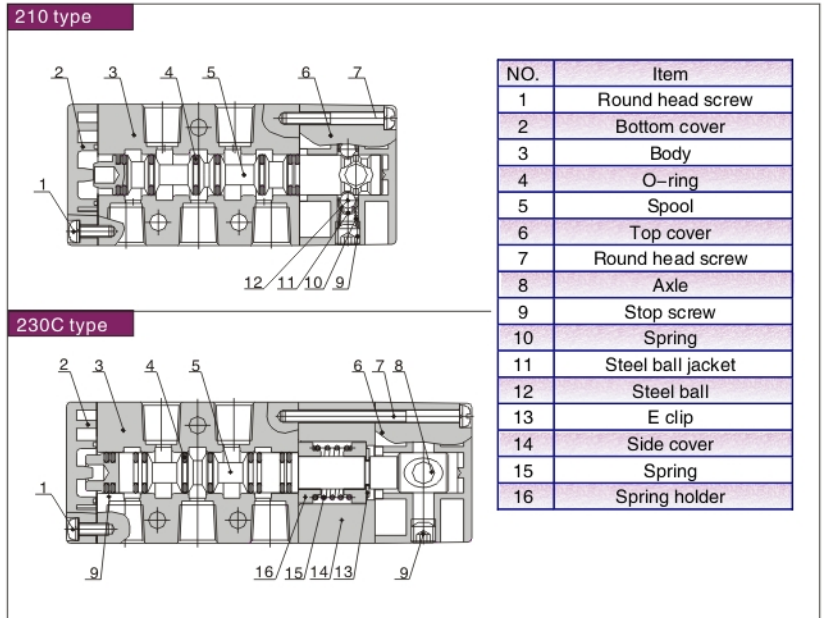
① PT thread, NPT thread and G thread are available;

② If add oil for lubrication, it is not allowed to stop midway. It is suggested to use ISO VG32 lubricant or the oil with the same grade.

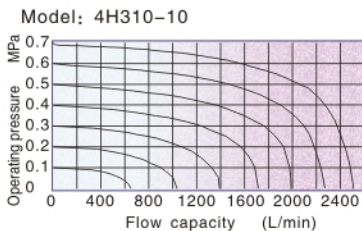
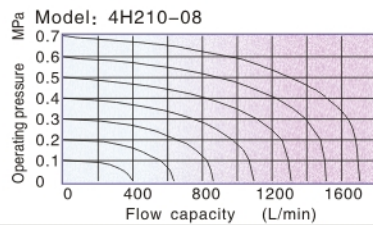
Ordering code



Inner structure



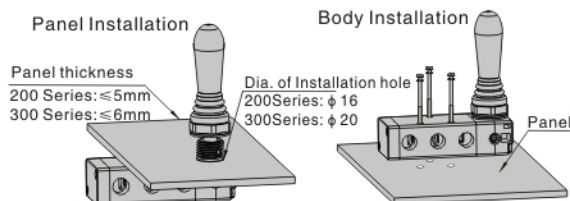
Flow chart



Installation

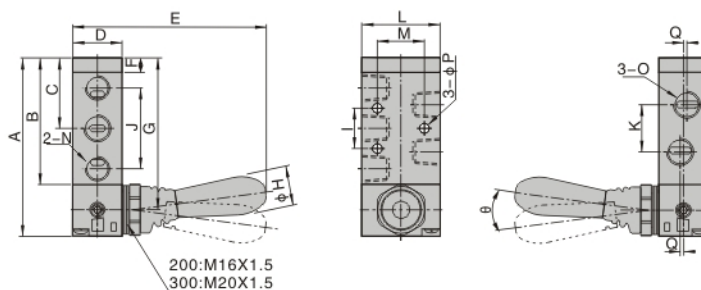
1. 5/3 way manual return hand lever valve is positioned by steel ball, which is convenient to switch. Please apply the proper force to avoid the position mismatch and misoperation.
2. When installed by panel, disassemble the gasket according to the practical requirement.
3. Below is the installation method for reference.

Note: Please give your attention on the panel thickness and hole dimension when installed by panel.



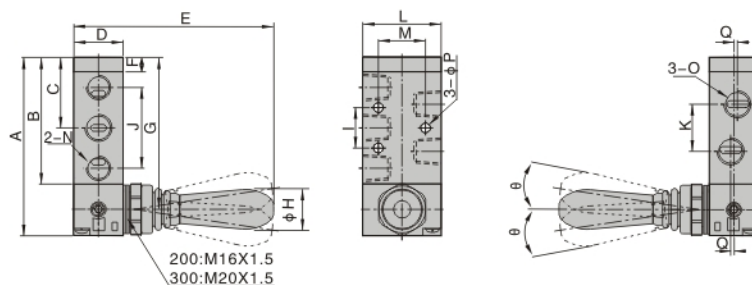
■ Dimensions

4H210\310、4HA210\310



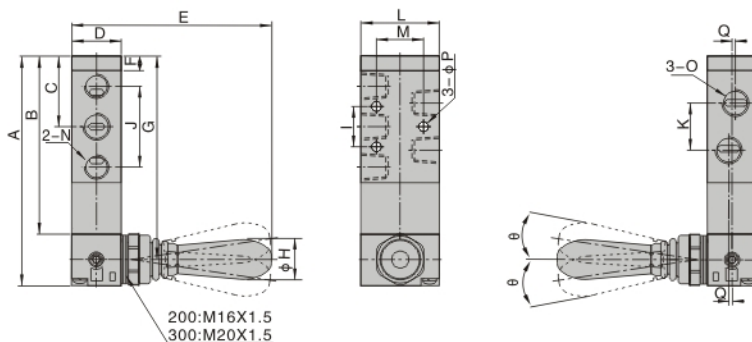
Type\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	θ
4H210-06 4HA210-06	81.5	57.5	32.5	22	90	7.5	69.5	18	20	36	18	35	23.5	1/8"	1/8"	4.3	-	15
4H210-08 4HA210-08	81.5	57.5	32.5	22	90	7.5	69.5	18	20	36	21	35	23.5	1/8"	1/4"	4.3	1.5	15
4H310-08 4HA310-08	101	73	40.5	27	93.5	8	87	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	18
4H310-10 4HA310-10	101	73	40.5	27	93.5	8	87	18	24	45	24	40	27.5	1/4"	3/8"	4.3	2	18

4H230C\330C、4H230E\330E



Type\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	θ
4H230C-06 4H230E-06	81.5	57.5	32.5	22	90.5	7.5	69.5	18	20	36	18	35	23.5	1/8"	1/8"	4.3	-	8.5
4H230C-08 4H230E-08	81.5	57.5	32.5	22	90.5	7.5	69.5	18	20	36	21	35	23.5	1/8"	1/4"	4.3	1.5	8.5
4H330C-08 4H330E-08	101	73	40.5	27	94	8	87	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	10
4H330C-10 4H330E-10	101	73	40.5	27	94	8	87	18	24	45	24	40	27.5	1/4"	3/8"	4.3	2	10

4HA230C\330C、4HA230E\330E



Type\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	θ
4HA230C-06 4HA230E-06	100.5	76.5	32.5	22	90.5	7.5	88.5	18	20	36	18	35	23.5	1/8"	1/8"	4.3	-	8.5
4HA230C-08 4HA230E-08	100.5	76.5	32.5	22	90.5	7.5	88.5	18	20	36	21	35	23.5	1/8"	1/4"	4.3	1.5	8.5
4HA330C-08 4HA330E-08	120	92	40.5	27	94	8	106	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	10
4HA330C-10 4HA330E-10	120	92	40.5	27	94	8	106	18	24	45	24	40	27.5	1/4"	3/8"	4.3	2	10