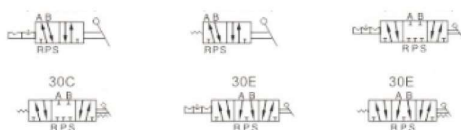




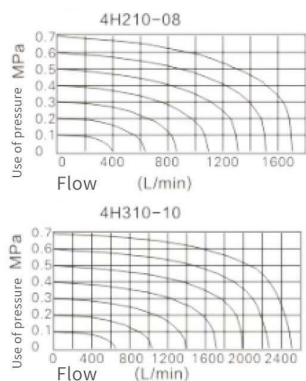
Symbols



Product Features

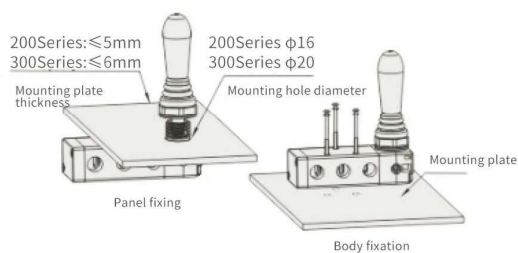
1. Manual operation, smooth operation, accurate and reliable positioning.
2. Sliding column structure, good sealing, small volume, light weight, easy to install and dismantle: the inner hole is processed by special 3. technology, small friction resistance, long service life.
4. No need for oil lubrication.
5. panel mounting function, easy and simple installation, multi-faceted to meet customer needs.

Flow Characteristics



Installation and use

- 1) Five-port, three-position manual reset type manual valve uses spring steel ball positioning, relatively easy to switch, please note that the use of excessive force does not lead to control position error caused by misoperation.
- 2) When using the panel installation, the gasket can be removed or retained according to the specific situation.
- 3) Refer to the following chart for various installation methods. Special note: the thickness of the mounting plate and the size of the mounting hole diameter when the panel is fixed.



Standard Specification

Model	210-06	230-06	210-08	230-08	310-08	330-08	310-10	330-10
Working medium	Air (filtered by a 40um or higher filter)							
Action mode	Manual direct-acting type							
*Pipe diameter	Inlet = Outlet Exhaust = G1/8	Inlet = Outlet = G1/4 Exhaust = G1/8	Inlet = Outlet = G1/4 Exhaust = G1/4	Inlet = Outlet = G1/4 Exhaust = G1/4	Inlet = Outlet = G1/4 Exhaust = G1/4	Inlet = Outlet = G1/4 Exhaust = G1/4	Inlet = Outlet = G1/4 Exhaust = G1/4	Inlet = Outlet = G1/4 Exhaust = G1/4
Effective cross-sectional area	14.0mm ² (Cv=0.78)	12.0mm ² (Cv=0.67)	16.0mm ² (Cv=0.89)	12.0mm ² (Cv=0.67)	25.0mm ² (Cv=1.39)	18.0mm ² (Cv=1.00)	30.0mm ² (Cv=1.67)	18.0mm ² (Cv=1.00)
Number of positions	Five mouths and two seats	Five mouths of three	Five mouths and two seats	Five mouths of three	Five mouths and two seats	Five mouths of three	Five mouths and two seats	Five mouths of three
**Lubrication	Not required							
Use pressure range	0-0.8MPa(-116psi)							
Guaranteed pressure resistance	1.5MPa(215psi)							
Operating temperature C	-20-70℃							
Body material	Aluminum alloy							
Operation swing angle	±15°	±8.5°	±15°	±8.5°	±18°	±10°	±18°	±10°

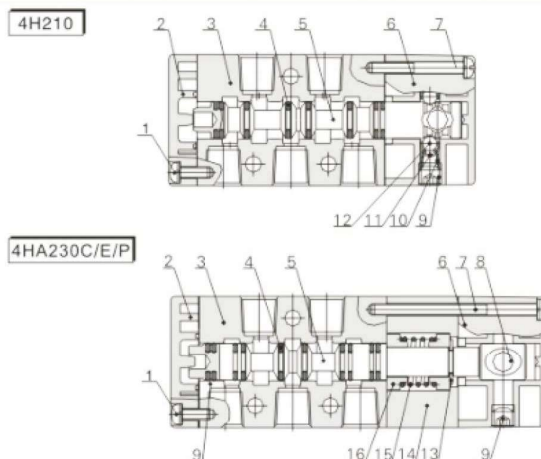
*Takeover teeth are available in PT and NPT teeth.

**If there is oil lubrication, it cannot be stopped in the middle, and the recommended lubricant is ISOVG32 or the same level of oil.

Model number indication method

4H	2	30C	08
Specification code	Series code	Function code	Catch pipe diameter
4H: Manual reset manual valve 4HA: Spring return manual valve	2: 200 3: 300	10: Five-port two position 30C: Five-port three-position central closed type 30E: Five-port three-position central exhaust 30P: Five-port three-position central pressurized type	200 Series: 06: G1/8" 08: G1/4 300 Series: 08: G1/8" 10: G3/8

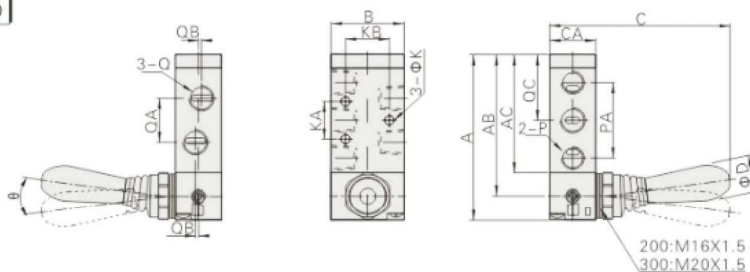
Internal structure



Number	Name	Number	Name
1	Crossed round head screws	9	Hexagon socket stop screws
2	Bottom cover	10	Spring
3	Body	11	Ball Sheath
4	O-ring	12	Steel Ball
5	Shaft core	13	E shaped retainer
6	Manual valve upper cover	14	Side Cover
7	Phillips head screw	15	Spring
8	Shaft head	16	Retainer

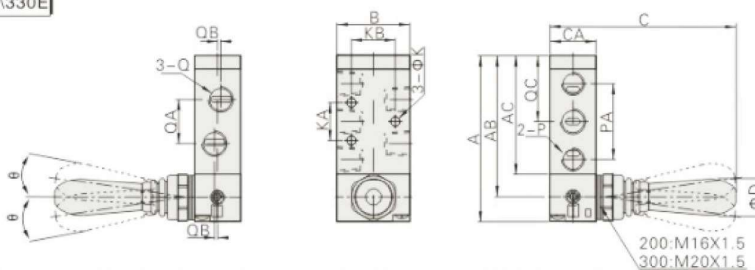
Dimensional drawing(mm)

4H210\310、4HA210\310



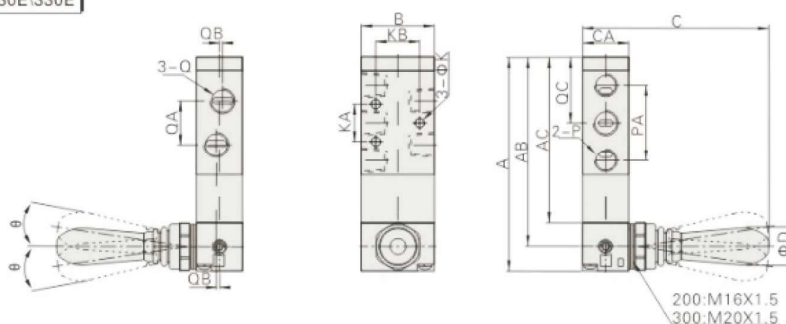
Model \ Symbol	A	AB	AC	B	C	CA	D	K	KA	KB	P	PA	Q	QA	QB	QC	e
4H210-06	81.5	69.5	57.5	35	90	22	18	4.3	20	23.5	G1/8	36	G1/8	18	-	32.5	15
4HA210-06	81.5	69.5	57.5	35	90	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	15
4H210-08	81.5	69.5	57.5	35	90	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	15
4HA210-08	81.5	69.5	57.5	35	90	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	15
4H310-08	101	87	73	40	93.5	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	18
4HA310-08	101	87	73	40	93.5	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	18
4H310-10	101	87	73	40	93.5	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	18
4HA310-10	101	87	73	40	93.5	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	18

4H230C\330C、4H230E\330E



Model \ Symbol	A	AB	AC	B	C	CA	D	K	KA	KB	P	PA	Q	QA	QB	QC	e
4H230C-06	81.5	69.5	57.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/8	18	-	32.5	8.5
4H230E-06	81.5	69.5	57.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/8	18	-	32.5	8.5
4H230C-08	81.5	69.5	57.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	8.8
4H230E-08	81.5	69.5	57.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	8.8
4H330C-08	101	87	73	40	94	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	10
4H330E-08	101	87	73	40	94	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	10
4H330C-10	101	87	73	40	94	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	10
4H330E-10	101	87	73	40	94	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	10

4HA230C\330C、4HA230E\330E



Model \ Symbol	A	AB	AC	B	C	CA	D	K	KA	KB	P	PA	Q	QA	QB	QC	e
4HA230C-06	100.5	88.5	76.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/8	18	-	32.5	8.5
4HA230E-06	100.5	88.5	76.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/8	18	-	32.5	8.5
4HA230C-08	100.5	88.5	76.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	8.8
4HA230E-08	100.5	88.5	76.5	35	90.5	22	18	4.3	20	23.5	G1/8	36	G1/4	21	1.5	32.5	8.8
4HA330C-08	120	106	92	40	94	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	10
4HA330E-08	120	106	92	40	94	27	18	4.3	24	27.5	G1/4	45	G1/4	22	-	40.5	10
4HA330C-10	120	106	92	40	94	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	10
4HA330E-10	120	106	92	40	94	27	18	4.3	24	27.5	G1/4	45	G3/8	24	2	40.5	10