



CE ISO9001

4H Series Hand lever valve



Specification

Model	210-06	230-06	210-08	230-08	310-08	330-08	310-10	330-10
Fluid	Air (to be filtered by 40 μ m filter element)							
Operating	Manual control direct acting type							
Port size①	In=Out		In=Out=1/4"		In=Out		In=Out=3/8"	
Orifice size	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)
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
Lubrication②	Not required							
Pressure range	0~0.8MPa(0~116psi)							
Proof pressure	1.5MPa(215psi)							
Temperature	-20~70°C							
Material body	Aluminum alloy							
Operating angle	±15°	±8.5°	±15°	±8.5°	±18°	±10°	±18°	±10°

Symbol

10(Manual return)



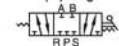
10(Spring return)



30C(Manual return)



30C(Spring return)



30E(Manual return)

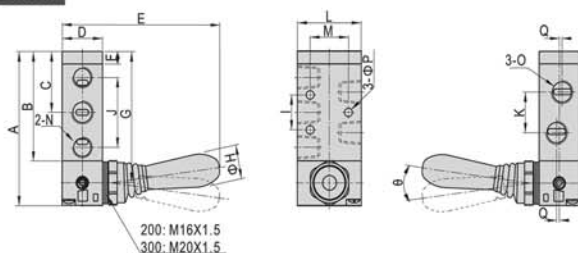


30E(Spring return)



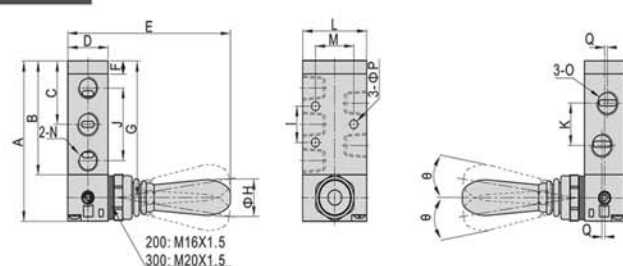
Dimensions

4H210/310, 4HA210/310



Model\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Θ
4H210-06	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
4HA210-06	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	101	73	40.5	27	93.5	8	87	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	18
4HA310-08	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, 4HA230E/330E



Model\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Θ
4H230C-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
4HA230E-06	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	101	73	40.5	27	94	8	87	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	10
4HA330E-08	101	73	40.5	27	94	8	87	18	24	45	24	40	27.5	1/4"	3/8"	4.3	2	10

Ordering code

4H 2 30C 08 P

Model

4H: Manual return
4HA: Spring return

Code

2: 200 Series
3: 300 Series

Valve type

10: 5/2 Way
30C: 5/3 Way closed center
30E: 5/3 Way exhaust center

Thread type

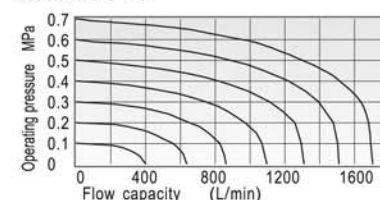
P: PT
T: NPT
G: G

Port size

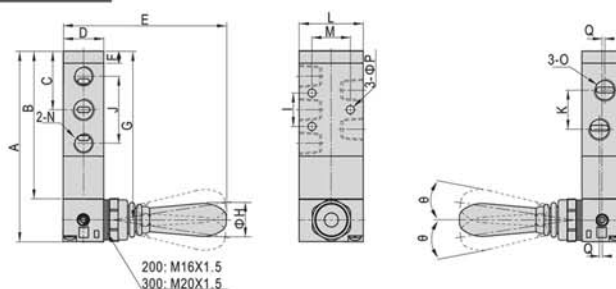
Code	Port size
200 Series	06: 1/8"
	08: 1/4"
300 Series	08: 1/4"
	10: 3/8"

Flow chart

Model: 4H210-08



4HA230C/330C, 4HA230E/330E



Model\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Θ
4HA230C-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
4HA230E-06	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	120	92	40.5	27	94	8	106	18	24	45	22	40	27.5	1/4"	1/4"	4.3	-	10
4HA330E-08	120	92	40.5	27	94	8	106	18	24	45	24	40	27.5	1/4"	3/8"	4.3	2	10



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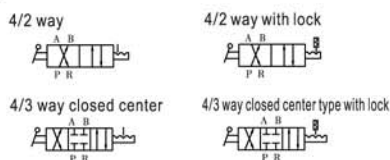
4HV Series Hand lever valve (4/3 way ,4/2 way)

Specification

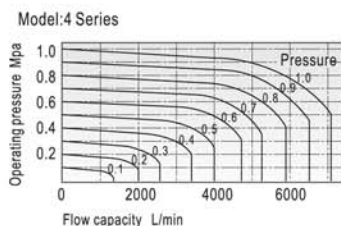
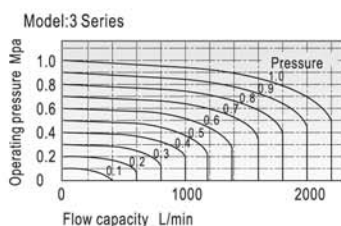
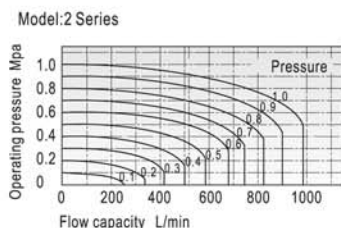
Model	4HV2□□ -06(L)	4HV2□□ -08(L)	4HV3□□ -08(L)	4HV3□□ -10(L)	4HV4□□ -15(L)	4HV4□□ -20(L)
Fluid	Air (to be filtered by 40 μm filter element)					
Operating	Manual control direct acting type					
Port size①	1/8"	1/4"	1/4"	3/8"	1/2"	3/4"
Orifice size	14.0mm ² (Cv=0.76)	16.0mm ² (Cv=0.89)	30.0mm ² (Cv=1.67)	33.0mm ² (Cv=1.83)	88.0mm ² (Cv=4.89)	95.0mm ² (Cv=5.27)
Valve type	4/2 Way 4/3 Way					
Lubrication	Not required					
Pressure range	0~1.0MPa(0~145psi)					
Proof pressure	1.5MPa(215psi)					
Temperature	-20~70°C					
Operating angle	90°(4/3 Way:45°)					



Symbol



Flow chart



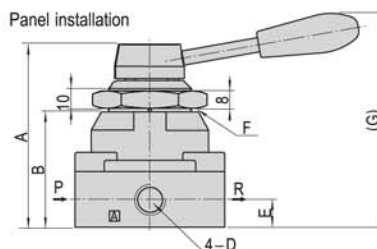
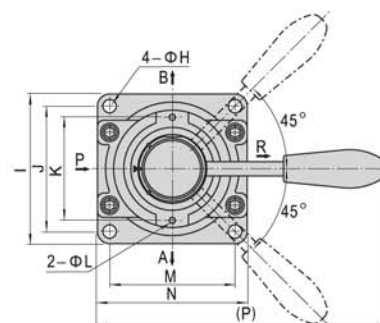
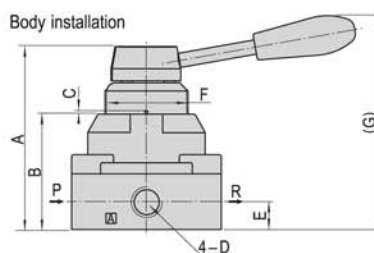
Ordering code

4HV 2 30 06 S L P

Model	4HV: Hand lever valve
Code	2: 200 Series 3: 300 Series 4: 400 Series
Valve type	10: 4 port 2 position 30: 4 port 3 position ①
Port size	Code Port size 200 Series 06: 1/8" 08: 1/4" 300 Series 08: 1/4" 10: 3/8" 15: 1/2" 400 Series 20: 3/4"
Thread type	P: PT T: NPT G: G
Note	Blank: Without lock L: With lock
Installation	Blank: Body installation S: Panel installation ②

Dimensions

4HV Series



Model\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
4HV2□□-06	73	45	1.5	1/8"	11.5	M34×1.5	92.5	5.5	62	49	40	3	49	62	120
4HV2□□-08	73	45	1.5	1/4"	11.5	M34×1.5	92.5	5.5	62	49	40	3	49	62	120
4HV3□□-08	88.5	56	1.5	1/4"	13.5	M40×1.5	104	6.5	74	62	51	3	62	74	140
4HV3□□-10	88.5	56	1.5	3/8"	13.5	M40×1.5	104	6.5	74	62	51	3	62	74	140
4HV4□□-15	110	72	2	1/2"	18	M52×1.5	128	6.5	102	89	64	3	81	94	160
4HV4□□-20	110	72	2	3/4"	18	M52×1.5	128	6.5	102	89	64	3	81	94	160