

Applications

- Used for switching compressed air.

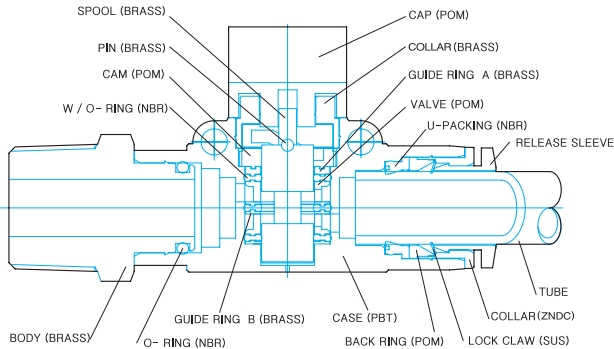
Features

- This product switches compressed air on/off of air pressure devices by simply turning the handle.
- Maintenance or inspection is possible when the remaining pressure in the device is removed.
- A three-way valve discharges the remaining pressure out, and blocks the incoming air in the off state.
- There are 4 types available depending on the method applied to air pressure flow.

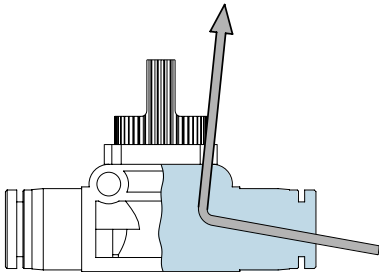
Specifications

Fluid type : Air(No other gases or liquids)
Working pressure : 0~150PSI / 0~9.9Kgf/cm²(0~990kPa)
Negative pressure: -29.5 in Hg / -750mmHg(-750Torr)
Working temperature: 32~140° F / 0~60°C
Applicable Tube: Polyurethane and Nylon

Structural Diagram



Applied example



- To insert the tube into the fitting, insert it fully to the end, and for release, block the compressed air and push the sleeve gently to pull the tube out.
- Be sure to select the product according to your needs as hand valves discharge the remaining air using a 3-way method so that leakage may occur when fluids other than water are applied.

Hand valve

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications (P7), and Common Caution of Fitting Products (P8) before use.

WARNING

- Do not force impact or rotation on the body or fitting section.
- Usage in vacuum state may cause operational errors due to drawn-in dust, so a vacuum filter should be attached at the intake side.
- Make sure that the handle lever operates at a full 90° otherwise, there may not be enough flow.

Hand Slide valve

CAUTION

- Be sure to refer to Caution on Safety, Classification of Warning Indications (P7), and Common Caution of Fitting Products (P8) before use.
- Make sure that the handle lever is turned properly to the desired side. If it isn't turned properly, there may not be enough flow.

WARNING

- Do not force impact or rotation on the body or fitting section. It may cause product damage or air leakage.
- Confirm the air flow control direction before use.
- Make sure that the power and air is blocked and the remaining pressure in pipes is completely removed before maintenance or inspection.

Product Code System

METRIC - BSPT(R)

HVC 06-01

HAND VALVE		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
06	φ6	01	R1/8		
08	φ8	02	R1/4		
10	φ10	03	R3/8		
12	φ12	04	R1/2		

METRIC - BSPP(G)

HVC 06-G01

HAND VALVE		Tube Dia		Thread Size	
CODE	φD	CODE	SIZE	CODE	SIZE
06	φ6	G01	G1/8		
08	φ8	G02	G1/4		
10	φ10	G03	G3/8		
12	φ12	G04	G1/2		

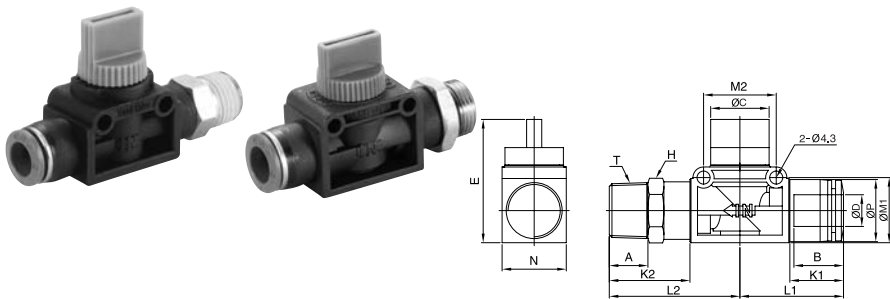
INCH - NPT

HVC 1/4-N1

HAND VALVE		Tube Dia		Thread Size	
CODE	ØD	CODE	SIZE	CODE	SIZE
1/4	1/4"	N1	NPT 1/8		
5/16	5/16"	N2	NPT 1/4		
3/8	3/8"	N3	NPT 3/8		
1/2	1/2"	N4	NPT 1/2		

Hand Valves

HVC

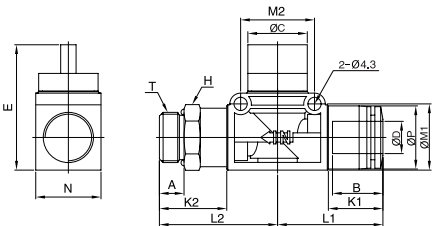


METRIC-BSPT(R)

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA.)
HVC 06-01		R1/8		14				8.0			21.6		35.6			34.7	25
HVC 06-02	6	R1/4	12.5	14	16.5	18.0	40.5	10.0	17.6	12.2	24.6	26.2	38.6	18.3	19.0	38.7	25
HVC 06-03		R3/8		17				11.0			25.6		39.6			46.7	25
HVC 08-01		R1/8		14				8.0			21.6		35.6			34.7	25
HVC 08-02	8	R1/4	14.8	14	16.5	18.0	40.5	10.0	18.7	13.0	24.6	27.5	38.6	18.3	19.0	38.7	25
HVC 08-03		R3/8		17				11.0			25.6		39.6			46.7	25
HVC 10-02		R1/4		17				10.0			23.0		39.5			57.2	20
HVC 10-03	10	R3/8	17.5	17	19.3	21.2	41.0	11.0	19.6	14.5	24.0	31.0	40.5	21.5	24.0	61.2	20
HVC 10-04		R1/2		21				14.0			27.0		43.5			80.2	20
HVC 12-02		R1/4		19				10.0			24.6		41.1			69.1	20
HVC 12-03	12	R3/8	20.5	19	19.3	21.2	41.0	11.0	21.9	17.7	25.6	34.2	42.1	21.5	24.0	67.1	20
HVC 12-04		R1/2		21				14.0			28.6		45.1			79.1	20

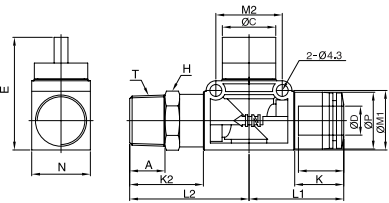
INCH-NPT

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA.)
HVC1/4-N1		NPT1/8		9/16				8.5								30.7	25
HVC1/4-N2	1/4	NPT1/4	12.6	9/16	16.5	18.0	40.5	10.5	17.7	12.5	25.1	26.5	39.1	18.3	19.0	38.7	25
HVC1/4-N3		NPT3/8		11/16				11.5			26.1		40.1			45.7	25
HVC5/16-N1		NPT1/8		9/16				8.5								34.7	25
HVC5/16-N2	5/16	NPT1/4	14.8	9/16	16.5	18.0	40.5	10.5	19.1	13.9	25.1	27.9	39.1	18.3	19.0	38.7	25
HVC5/16-N3		NPT3/8		11/16				11.5			26.1		40.1			46.7	25
HVC3/8-N2		NPT1/4		11/16				10.5			23.5		40.0			60.2	20
HVC3/8-N3	3/8	NPT3/8	17.5	11/16	19.3	21.2	41.0	11.5	19.7	14.4	24.5	30.9	41.0	21.5	24.0	77.2	20
HVC3/8-N4		NPT1/2		7/8				14.5			27.5		44.0			74.2	20
HVC1/2-N2		NPT1/4		3/4				10.5			25.1		41.6			69.0	20
HVC1/2-N3	1/2	NPT3/8	21.0	3/4	19.3	21.2	41.0	11.5	23.2	17.8	26.1	34.3	42.6	21.5	24.0	84.0	20
HVC1/2-N4		NPT1/2		7/8				14.5			29.1		45.6			89.0	20



METRIC-BSPP(G)

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA.)
HVC06-G01		G1/8		14				5.0			18.6		32.6			32.7	25
HVC06-G02	6	G1/4	12.5	17	16.5	18.0	40.5	6.5	17.6	12.2	20.1	26.2	34.1	18.3	19.0	39.7	25
HVC06-G03		G3/8		20				6.5			20.1		34.1			42.7	25
HVC08-G01		G1/8		14				5.0			18.6		32.6			33.7	25
HVC08-G02	8	G1/4	14.8	17	16.5	18.0	40.5	6.5	18.7	13.0	20.1	27.5	34.1	18.3	19.0	39.7	25
HVC08-G03		G3/8		20				6.5			20.1		34.1			44.7	25
HVC10-G02		G1/4		17				6.5			18.5		35.0			50.2	20
HVC10-G03	10	G3/8	17.5	20	19.3	21.2	41.0	6.5	19.6	14.5	18.5	31.0	35.0	21.5	24.0	57.2	20
HVC10-G04		G1/2		24				8.0			20.0		36.5			70.2	20
HVC12-G02		G1/4		19				6.5			20.1		36.6			60.1	20
HVC12-G03	12	G3/8	20.5	20	19.3	21.2	41.0	6.5	21.9	17.7	20.1	34.2	36.6	21.5	24.0	61.1	20
HVC12-G04		G1/2		24				8.0			21.6		38.1			73.1	20

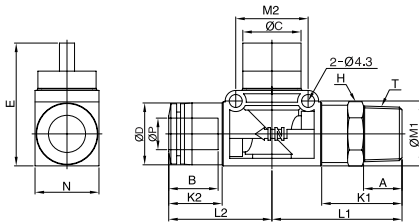


HAND VALVES / HAND SLIDE VALVES

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Hand Valves

HVF

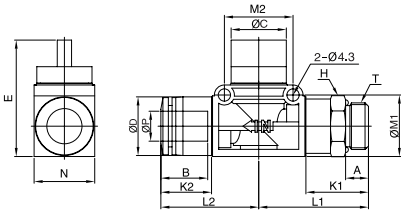


METRIC-BSPT(R)

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HVF 01-06		R1/8		14				8.0		21.6		35.6				34.7	25
HVF 02-06	6	R1/4	12.5	14	16.5	18.0	40.5	10.0	17.6	24.6	12.2	38.6	26.2	18.3	19.0	38.7	25
HVF 03-06		R3/8		17				11.0		25.6		39.6				46.7	25
HVF 01-08		R1/8		14				8.0		21.6		35.6				34.7	25
HVF 02-08	8	R1/4	14.8	14	16.5	18.0	40.5	10.0	18.7	24.6	13.0	38.6	27.5	18.3	19.0	38.7	25
HVF 03-08		R3/8		17				11.0		25.6		39.6				46.7	25
HVF 02-10		R1/4		17				10.0		23.0		39.5				57.2	20
HVF 03-10	10	R3/8	17.5	17	19.3	21.2	41.0	11.0	19.6	24.0	14.5	40.5	31.0	21.5	24.0	61.2	20
HVF 04-10		R1/2		21				14.0		27.0		43.5				80.2	20
HVF 02-12		R1/4		19				10.0		24.6		41.1				69.1	20
HVF 03-12	12	R3/8	20.5	19	19.3	21.2	41.0	11.0	21.9	25.6	17.7	42.1	34.2	21.5	24.0	67.1	20
HVF 04-12		R1/2		21				14.0		28.6		45.1				79.1	20

INCH-NPT

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HVF 1/4-N1		NPT1/8		9/16				8.5		23.1		37.1				30.7	25
HVF 1/4-N2	1/4	NPT1/4	12.6	9/16	16.5	18.0	40.5	10.5	17.7	25.1	12.5	39.1	26.5	18.3	19.0	38.7	25
HVF 1/4-N3		NPT3/8		11/16				11.5		26.1		40.1				45.7	25
HVF 5/16-N1		NPT1/8		9/16				8.5		23.1		37.1				34.7	25
HVF 5/16-N2	5/16	NPT1/4	14.8	9/16	16.5	18.0	40.5	10.5	19.1	25.1	13.9	39.1	27.9	18.3	19.0	38.7	25
HVF 5/16-N3		NPT3/8		11/16				11.5		26.1		40.1				46.7	25
HVF 3/8-N2		NPT1/4		11/16				10.5		23.5		40.0				54.2	20
HVF 3/8-N3	3/8	NPT3/8	17.5	11/16	19.3	21.2	41.0	11.5	19.7	24.5	14.4	41.0	30.9	21.5	24.0	60.2	20
HVF 3/8-N4		NPT1/2		7/8				14.5		27.5		44.0				77.2	20
HVF 1/2-N2		NPT1/4		3/4				10.5		25.1		41.6				69.0	20
HVF 1/2-N3	1/2	NPT3/8	21.0	3/4	19.3	21.2	41.0	11.5	23.2	26.1	17.8	42.6	34.3	21.5	24.0	74.0	20
HVF 1/2-N4		NPT1/2		7/8				14.5		29.1		45.6				84.0	20

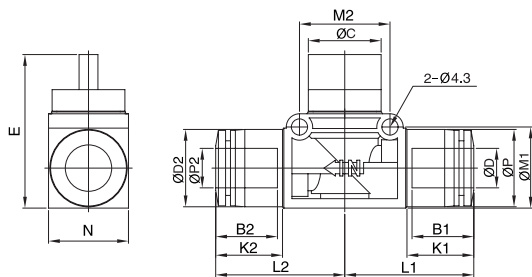


METRIC-BSPP(G)

MODEL	ØD	T	ØP	H(Hex)	ØC	N	E	A	B	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HVFG01-06		G1/8		14				8.0		18.6		32.6				32.7	25
HVFG02-06	6	G1/4	12.5	17	16.5	18.0	40.5	10.0	17.6	20.1	12.2	34.1	26.2	18.3	19.0	39.7	25
HVFG03-06		G3/8		20				11.0		20.1		34.1				42.7	25
HVFG01-08		G1/8		14				8.0		18.6		32.6				33.7	25
HVFG02-08	8	G1/4	14.8	17	16.5	18.0	40.5	10.0	18.7	20.1	13.0	34.1	27.5	18.3	19.0	39.7	25
HVFG03-08		G3/8		20				11.0		20.1		34.1				44.7	25
HVFG02-10		G1/4		17				10.0		18.5		35.0				50.2	20
HVFG03-10	10	G3/8	17.5	20	19.3	21.2	41.0	11.0	19.6	18.5	14.5	35.0	31.0	21.5	24.0	57.2	20
HVFG04-10		G1/2		24				14.0		20.0		36.5				70.2	20
HVFG02-12		G1/4		19				10.0		20.1		36.6				60.1	20
HVFG03-12	12	G3/8	20.5	20	19.3	21.2	41.0	11.0	21.9	20.1	17.7	36.6	34.2	21.5	24.0	61.1	20
HVFG04-12		G1/2		24				14.0		21.6		38.1				73.1	20

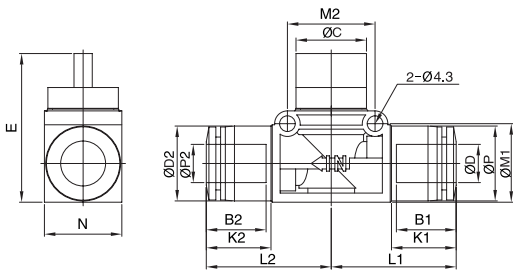
Hand Valves

HVU



METRIC

MODEL	ØD1	ØD2	ØP1	ØP2	ØC	N	E	B1	B2	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HVU 06-06	6	6	12.5	12.5	16.5	18.0	40.5	17.6	17.6	12.2	12.2	26.2	26.2	18.3	19.0	23.4	25
HVU 08-06	8	6	12.5	12.5	16.5	18.0	40.5	18.7	17.6	13.0	12.2	27.5	26.2	18.3	19.0	23.4	25
HVU 08-08		8	14.8	14.8	16.5	18.0	40.5	18.7	18.7	13.0	13.0	27.5	27.5	18.3	19.0	24.4	25
HVU 10-08	10	8	14.8	14.8	19.3	21.2	41.0	19.6	18.7	14.5	13.0	31.0	27.5	21.5	24.0	37.9	20
HVU 10-10		10	17.5	17.5	19.3	21.2	41.0	19.6	19.6	14.5	14.5	31.0	31.0	21.5	24.0	38.4	20
HVU 12-10	12	10	17.5	17.5	19.3	21.2	41.0	19.6	19.6	14.5	14.5	31.0	31.0	21.5	24.0	41.3	20
HVU 12-12		12	20.5	20.5	19.3	21.2	41.0	21.9	21.9	17.7	17.7	34.2	34.2	21.5	24.0	46.2	20

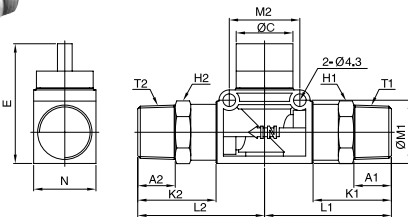


INCH

MODEL	ØD1	ØD2	ØP1	ØP2	ØC	N	E	B1	B2	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HVU 1/4-1/4	1/4	1/4	12.6	12.6	16.5	18.0	40.5	17.7	17.7	12.5	12.5	26.5	26.5	18.3	19.0	22.4	25
HVU 5/16-1/4	5/16	1/4	12.6	12.6	16.5	18.0	40.5	19.1	17.7	13.9	12.5	27.9	26.5	18.3	19.0	23.4	25
HVU 5/16-5/16		5/16	14.8	14.8	16.5	18.0	40.5	19.1	19.1	13.9	13.9	27.9	27.9	18.3	19.0	24.4	25
HVU 3/8-5/16	3/8	5/16	14.8	14.8	19.3	21.2	41.0	19.7	19.1	14.4	13.9	30.9	27.9	21.5	24.0	37.9	20
HVU 3/8-3/8		3/8	17.5	17.5	19.3	21.2	41.0	19.7	19.7	14.4	14.4	30.9	30.9	21.5	24.0	40.4	20
HVU 1/2-3/8	1/2	3/8	17.5	17.5	19.3	21.2	41.0	19.7	19.7	17.8	14.4	34.3	30.9	21.5	24.0	41.2	20
HVU 1/2-1/2		1/2	21.0	21.0	19.3	21.2	41.0	23.2	23.2	17.8	17.8	34.3	34.3	21.5	24.0	47.0	20

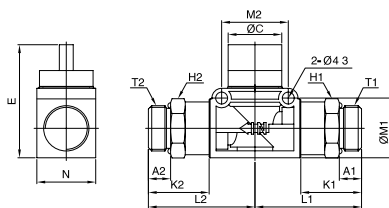
Hand Valves

HVM



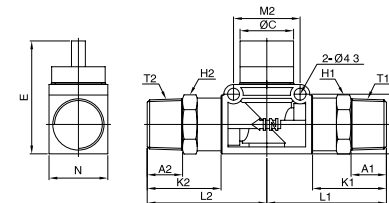
BSPT(R) - BSPT(R)

MODEL	T1	T2	H1(Hex)	H2(Hex)	ØC	N	E	A1	A2	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HMM01-01	R1/8	R1/8	14	14	16.5	18.0	40.5	8.0	8.0	21.6	21.6	35.6	35.6	18.3	19.0	45.0	25
HMM02-01	R1/4	R1/8	14	14	16.5	18.0	40.5	10.0	8.0	21.6	21.6	35.6	35.6	18.3	19.0	48.0	25
HMM02-02		R1/4	14	14	16.5	18.0	40.5	10.0	10.0	24.6	24.6	38.6	38.6	18.3	19.0	52.0	25
HMM03-02	R3/8	R1/4	17	17	19.3	21.2	41.0	11.0	10.0	24.0	24.6	40.5	38.6	21.5	24.0	80.0	20
HMM03-03		R3/8	17	17	19.3	21.2	41.0	11.0	11.0	24.0	24.0	40.5	40.5	21.5	24.0	83.0	20
HMM04-03	R1/2	R3/8	21	19	19.3	21.2	41.0	14.0	11.0	28.6	24.0	45.1	40.5	21.5	24.0	102.0	20
HMM04-04		R1/2	21	21	19.3	21.2	41.0	14.0	14.0	28.6	28.6	45.1	45.1	21.5	24.0	116.0	20



BSPP(G) - BSPP(G)

MODEL	T1	T2	H1(Hex)	H2(Hex)	ØC	N	E	A1	A2	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HMM G01-G01	G1/8	G1/8	14	14	16.5	18.0	40.5	5.0	5.0	18.6	18.6	32.6	32.6	18.3	19.0	42.0	25
HMM G02-G01	G1/4	G1/8	14	14	16.5	18.0	40.5	5.0	5.0	18.6	18.6	32.6	32.6	18.3	19.0	49.0	25
HMM G02-G02		G1/4	17	17	16.5	18.0	40.5	6.5	6.5	20.1	20.1	34.1	34.1	18.3	19.0	57.0	25
HMM G03-G02	G3/8	G1/4	20	17	19.3	21.2	41.0	6.5	6.5	18.5	18.5	35.0	35.0	21.5	24.0	69.0	20
HMM G03-G03		G3/8	20	20	19.3	21.2	41.0	6.5	6.5	18.5	18.5	35.0	35.0	21.5	24.0	75.0	20
HMM G04-G03	G1/2	G3/8	24	20	19.3	21.2	41.0	8.0	6.5	21.6	20.1	38.1	36.6	21.5	24.0	90.0	20
HMM G04-G04		G1/2	24	24	19.3	21.2	41.0	8.0	8.0	21.6	21.6	38.1	38.1	21.5	24.0	100.0	20



NPT - NPT

MODEL	T1	T2	H1(Hex)	H2(Hex)	ØC	N	E	A1	A2	K1	K2	L1	L2	M1	M2	WEIGHT(g)	BOX(EA)
HMMN1-N1	NPT1/8	NPT1/8	9/16	9/16	16.5	18.0	40.5	8.5	8.5	23.1	23.1	37.1	37.1	18.3	19.0	40.0	25
HMMN2-N1	NPT1/4	NPT1/8	9/16	9/16	16.5	18.0	40.5	10.5	8.5	25.1	23.1	39.1	37.1	18.3	19.0	47.0	25
HMMN2-N2		NPT1/4	9/16	9/16	16.5	18.0	40.5	10.5	10.5	24.6	24.6	39.1	39.1	18.3	19.0	54.0	25
HMMN3-N2	NPT3/8	NPT1/4	11/16	11/16	19.3	21.2	41.0	11.5	10.5	24.5	23.5	41.0	40.0	21.5	24.0	88.0	20
HMMN3-N3		NPT3/8	11/16	11/16	19.3	21.2	41.0	11.5	11.5	24.5	24.5	41.0	40.0	21.5	24.0	92.0	20
HMMN4-N3	NPT1/2	NPT3/8	7/8	3/4	19.3	21.2	41.0	14.5	11.5	29.1	29.1	45.6	42.6	21.5	24.0	106.0	20
HMMN4-N4		NPT1/2	7/8	7/8	19.3	21.2	41.0	14.5	14.5	29.1	29.1	45.6	45.6	21.5	24.0	119.0	20