

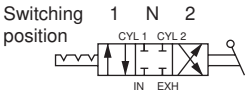
Manual selector valve

HMV/HSV Series

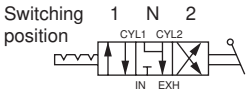
RoHS CAD

JIS symbol

● HMVC2, HSVC2
(All ports closed)



● HMVO2, HSVO2
(ABR connection)



Common specifications

Item		HMV$^{C}_{O}$2	HSV$^{C}_{O}$2			
Valve and operation		Rotary sliding valve				
Working fluid		Compressed air				
Max. working pressure	MPa	0.97 (≈140 psi, 9.7 bar)				
Min. working pressure	MPa	0 (≈0 psi, 0 bar)				
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)				
Ambient temperature	°C	5 (41°F) to 50 (122°F)				
Fluid temperature	°C	5 (41°F) to 50 (122°F)				
Lubrication		Not required				
Degree of protection		Dust-proof				
Operating angle	°	90				
Port size	Rc	1/4	1/4	3/8	1/2	3/4
Weight	kg	0.7	2.0	1.9	1.9	1.8

Flow characteristics

Model No.	Port size	IN→CYL1/CYL2		CYL1/CYL2→EXH	
		C[dm^3/(s·bar)]	b	C[dm^3/(s·bar)]	b
HMV$^{C}_{O}$2	1/4	1.5	0.31	1.6	0.28
HSV$^{C}_{O}$2	1/4	7.2	0.74	7.2	0.73
	3/8	10.2	0.32	10.1	0.34
	1/2	10.0	0.32	10.2	0.33
	3/4	10.3	0.36	10.2	0.36

*1 : Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.

How to order

● Miniature

HMV C 2 – 8 – 4 H

● Standard

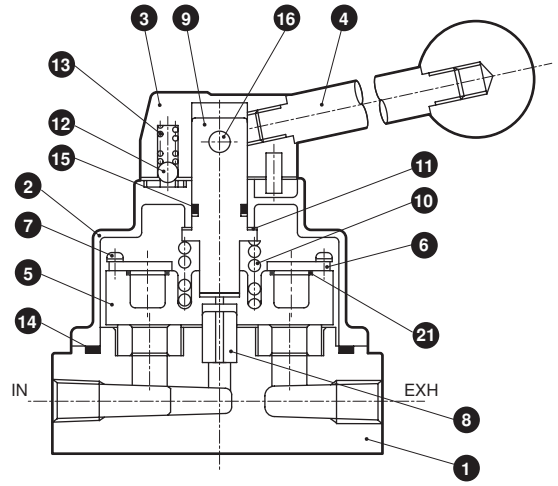
HSV C 2 – 10 – 4 H

Ⓐ Model No.
Ⓑ Solenoid position
Ⓒ Port size
Ⓓ Piping

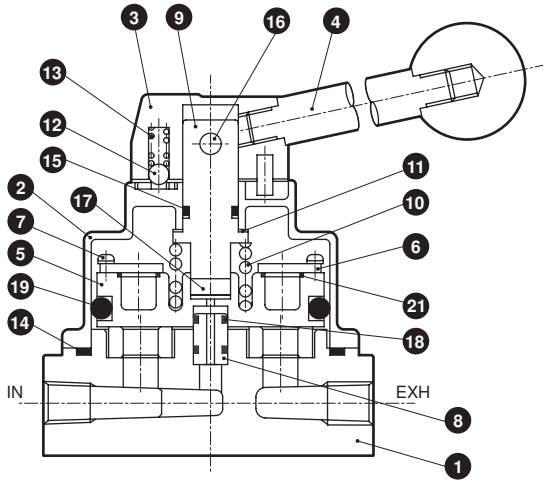
Code	Description	Ⓐ Model No. HMV	Ⓐ Model No. HSV
Ⓑ Solenoid position			
C	3-position all ports closed	●	●
O	3-position ABR connection	●	●
Ⓒ Port size			
8	Rc1/4	●	●
10	Rc3/8		●
15	Rc1/2		●
20	Rc3/4 (vertical piping not available.)		●
Ⓓ Piping			
H	Side piping	●	●
V	Vertical piping (not compatible with a port size of Rc 3/4.)	●	●

Internal structure and parts list

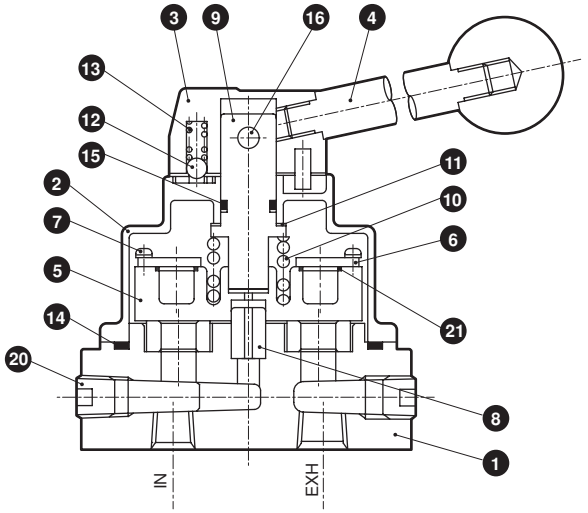
HMVC2-8-4H
HSVC2-8 to 20-4H



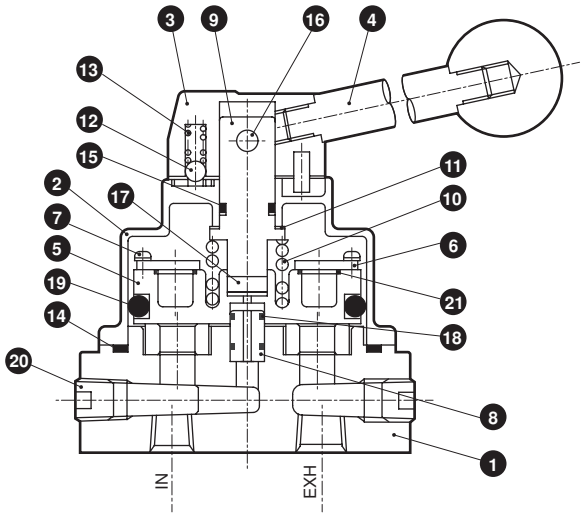
HMVO2-8-4H
HSVO2-8 to 20-4H



HMVC2-8-4V
HSVC2-8 to 15-4V



HMVO2-8-4V
HSVO2-8 to 15-4V

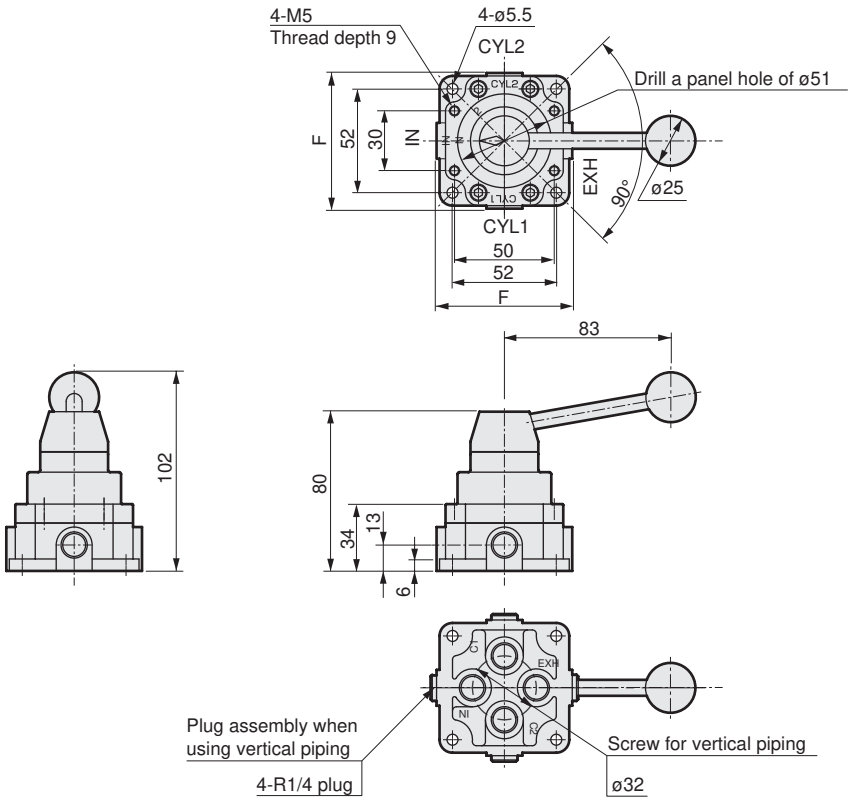


Main parts list

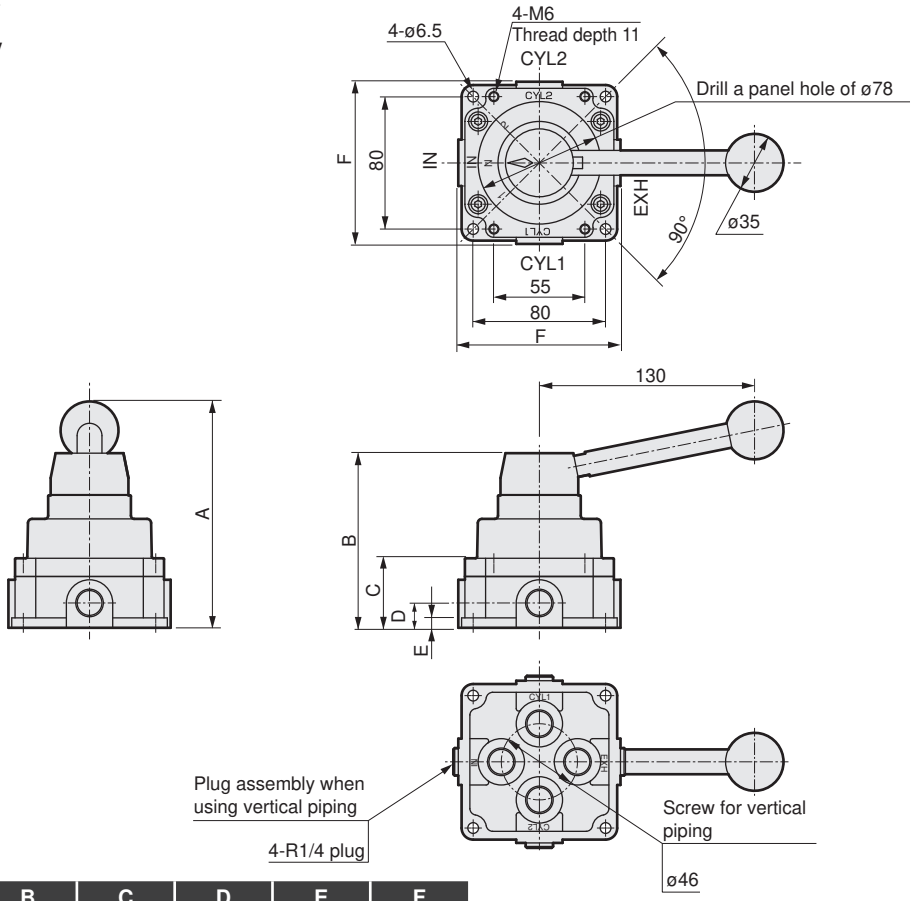
No.	Part name	Material	No.	Part name	Material
1	Body assembly	Zinc alloy die-casting tetrafluoroethylene resin (other than port size 20)	11	Washer	Special polyethylene
			12	Ball	Stainless steel
			13	Spring	Stainless steel
		Aluminum alloy die-casting tetrafluoroethylene resin (port size 20 only)	14	O-ring	Nitrile rubber
			15	O-ring	Nitrile rubber
			16	Pin	Steel
2	Cover assembly	Zinc alloy die-casting	17	Spindle guide	Steel (HSVO2 only)
3	Handle head	Zinc alloy die-casting	18	O-ring	Nitrile rubber
4	Handle assembly	Steel, urea resin	19	O-ring	Nitrile rubber
5	Slide ring	Zinc alloy die-casting	20	Hexagon socket head cap plug	Steel
6	Plate	Steel	21	Gasket	Nitrile rubber
7	Cross-recessed tapping screw	Steel			
8	Rod	Steel			
9	Spindle	Stainless steel			
10	Spring	Piano wire			

Dimensions

HMVC2-8-4H,4V
HMVO2-8-4H,4V



HSVC2-8 to 20-4H, 4V
HSVO2-8 to 20-4H, 4V



Model No.	A	B	C	D	E	F
HMV*2-8-4H						68
HMV*2-8-4V						74
HSV*2-8 to 15-4H	132	105	42	15	6	98
HSV*2-8 to 15-4V	132	105	42	15	6	104
HSV*2-20-4H	137	110	47	18	10	98