

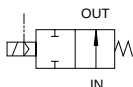


Automatic air pinch valve

APV SERIES

- Working fluid : Gas, water, sludge, powder, other chemicals
- Port size : 25.4mm to 76mm

JIS symbol



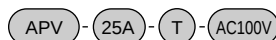
For various fluids including gas, water, sludge, powder, oil, chemicals etc.

- Vibration/noise absorbing by rubber sleeve method.
- Low price and economical
- Solid permissible.
- Flange packing seal isn't required.
- Zero fluids resistance and no clogging

Specifications

Descriptions	APV-25A	APV-40A	APV-50A	APV-65A	APV-80A
Working fluid	Gas, water, sludge, powder, other chemicals (see P.52 in the introduction about details.)				
Electrical connection type	Flange 25	Flange 40	Flange 50	Flange 65	Flange 80
Port size mm	25.4	38	51	63.5	76
Cv flow factor	35	90	150	250	390
Working pressure range MPa	0 to 0.5				
Withstanding pressure MPa	1.0				
Operator type	Air cylinder method (single acting cylinder with solenoid valve)				
Operation air pressure MPa	0.2 to 0.6 (the value differs depending on port size, media pressure etc. Consult with CKD about details.)				
Fluid temperature °C	5 to 50				
Installation attitude	Horizontal piping (cylinder should be vertically installed.)				
Mass kg	10.6	14.5	17.9	25.7	42.4
Electrical specifications					
Rated voltage		AC100V50/60Hz, AC200V50/60Hz			
Apparent power	Holding	14/11 (50/60Hz)			
	VA Starting	20/16 (50/60Hz)			
Power consumption W	6/4.2 (50/60Hz)				
Insulation class		Class B			

How to order



Series

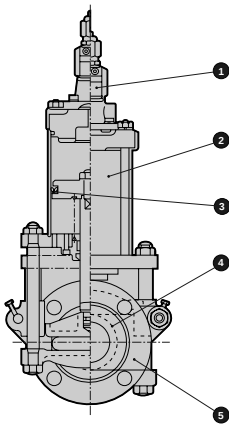
A Port size

B Rubber sleeve material

C Rated voltage

Symbol	Descriptions	
A Port size	25A	Flange 25
	40A	Flange 40
	50A	Flange 50
	65A	Flange 65
	80A	Flange 80
B	T (NATURAL)	Natural rubber
	N (NEO)	Cloroplane rubber
	AC100V	AC100V50/60Hz
C	AC200V	AC200V50/60Hz

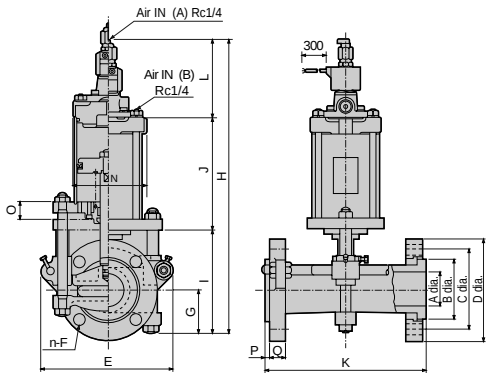
Internal structure and main parts material



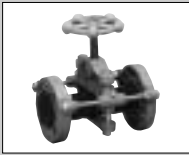
No.	Parts name	Material
1	Switching valve (AG3 X 3182)	—
2	Cylinder	A6063TD-T83 Aluminum tube
3	Packing seal	NBR Nitrile rubber
4	Sleeve	NR, CR Natural or chloprene rubber
5	Flange	FC200 Cast iron

Dimensions

• Air IN(A) opens the valve when energized, while Air IN(B) closes the valve when energized.



Model	A	B	C	D	E	n-F	G	H	I	J	K	L	N	O	P	Q
APV-25A	25.4	64	90	125	162	4-18 dia.	46	371.5	123	146.5	200	102	88	20	6	23
APV-40A	38	79	105	140	178	4-18 dia.	52	415	143	170	230	102	100	20	6	25
APV-50A	51	94	120	155	202	4-18 dia.	65	441.5	165	174.5	250	102	106	26	6	25
APV-65A	63.5	110	140	175	240	4-18 dia.	97	517.5	209	206.5	280	102	139	33	6	25
APV-80A	76	124	150	192	274	8-18 dia.	109.5	608.5	226	280.5	470	102	168	38	7	23



Manual pinch valve SPV SERIES

- Working fluid : Gas, water, sludge, powder, other chemicals
- Port size : 25.4mm to 203mm

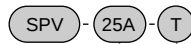
For various fluids including gas, water, sludge, powder, oil, chemicals etc.

- Low price and economical
- Solid permissible.
- Rubber sleeve method
- Consumable part : Rubber sleeve only

Specifications

Descriptions	SPV-25A	SPV-40A	SPV-50A	SPV-65A	SPV-80A	SPV-100A	SPV-125A	SPV-150A	SPV-200A
Working fluid	Gas, water, sludge, powder, other chemicals (see P.52 in the introduction about details.)								
Electrical connection type	Flange 25	Flange 40	Flange 50	Flange 65	Flange 80	Flange 100	Flange 125	Flange 150	Flange 200
Port size mm	25.4	38	51	63.5	76	102	127	152	203
Cv flow factor	35	90	150	250	390	627	1000	1700	2950
Working pressure range MPa	0 to 0.5								
Withstanding pressure MPa	1.0								
Fluid temperature °C	5 to 60								

How to order

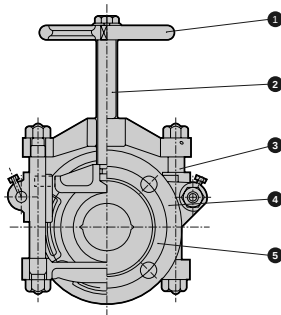


Port size

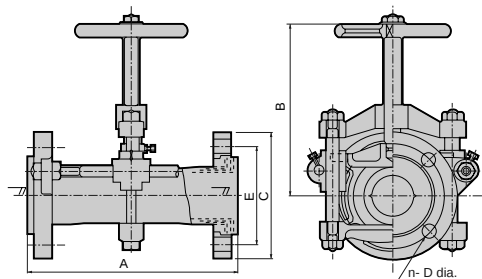
Rubber sleeve material

Symbol	Descriptions	
A	25A	Flange 25
	40A	Flange 40
	50A	Flange 50
	65A	Flange 65
	80A	Flange 80
	100A	Flange 100
	125A	Flange 125
	150A	Flange 150
	200A	Flange 200
B	T (NATURAL)	Natural rubber
	N (NEO)	Cloroplane rubber

Internal structure/main parts materials



Dimensions



No.	Parts name	Material
1	Handle	FC200 Cast iron
2	Spindle	SS400 Steel
3	Stay	SS400 Steel
4	Flange	FC200 Cast iron
5	Sleeve	Natural or chloroprene rubber

Model	A	B (Max)	C	n-D	E	Model	A	B (Max)	C	n-D	E
SPV-25A	200	140	125	4-18 dia.	90	SPV-100A	410	310	210	8-18 dia.	175
SPV-40A	230	165	140	4-18 dia.	105	SPV-125A	500	365	250	8-21 dia.	210
SPV-50A	250	195	155	4-18 dia.	120	SPV-150A	560	435	280	8-21 dia.	240
SPV-65A	280	230	175	4-18 dia.	140	SPV-200A	720	520	330	12-21 dia.	290
SPV-80A	330	260	185	8-18 dia.	150						