

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q243H
K23J3
K25J3
K25JH
K353H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX



Product feature

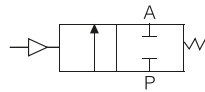
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
male threaded port
connection DN 15-65

1. High flow rate;
2. Long life cycle;
3. Modular universal accessories can be assembled on NC and NO universal actuators' head;
4. Available with flow direction below or above seat;
5. Convenient conversion of the circuit function.

Symbol

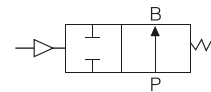
Control function A

(closed by spring force in rest position)



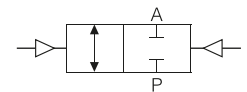
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV200		P	015	NC		S × 63mm
Model		Nominal diameter		Control function		Acting type
PV200	200 Seires angle seat valve	15	1/2"	40	1 1/2"	NO Normally open
		20	3/4"	50	2"	NC Normally closed (standard)
		25	1"	65	2 1/2"	Blank S.S 304 (standard)
		32	1 1/4"			4 S.S 316
						5 S.S 316L
Actuator material code						
P	Plastic actuator					S Single acting
S	S.S. Actuator					D Double acting
A	Aluminum actuator					

Actuator size

Port size	Standard actuator size (mm)		
	PA	S.S.	AL
DN15	40, 50	40, 50	40, 50
DN20	50, 63, 80	50, 63, 90	50, 63, 80
DN25	50, 63, 80	50, 63, 90	50, 63, 80
DN32	63, 80	63, 90	63, 80
DN40	63, 80	63, 90	63, 80
DN50	63, 80	63, 90	63, 80
DN65	80, 100	90, 125	80, 100

PV200 Series plunger pilot angle seat valve is propelled by a piston actuator, either single acting or double acting.

Actuators are made of three different materials, applicable to different

working temperature:

2/2 Way stainless steel valve with big flow capacity, V type seals ensure reliable and effective sealing.

Maintenance free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be assembled conveniently.

Easy to install and maintain;

Good replacement of Flange ended valve, considerably cut the cost of the equipment applied to.

Specifications

Model Specification	Normally closed	P015NC	P020NC	P025NC	P032NC	P040NC	P050NC	P065NC
	Normally open	P015NO	P020NO	P025NO	P032NO	P040NO	P050NO	P065NO
Material of body/ Actuator		S.S304 316 /PA						
Operating method		Plunger pilot						
Ambient and fluid		Air, Water, Oil, Steam (50CTS Bellow)						
Port size		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"
Nominal diameter (mm)		13	18	24	31	35	45	61
Kv (m³/h)		4.2	9	19	33	42	59	90
Model Specification	Normally closed	S015NC	S020NC	S025NC	S032NC	S040NC	S050NC	S065NC
	Normally open	S015NO	S020NO	S025NO	S032NO	S040NO	S050NO	S065NO
Material of body/ Actuator		S.S304 316 /PA						
Seat seal		PTFE/FPM						
Stem seal		PTFE/FPM						
Piston seal		PTFE/FPM/NBR						
Tempreture of medium	PTFE	-10~200°C						
	FPM	-10~150°C						
Installing		Downstream/Upstream						

Note: PT, G, NPT, Metric thread are available.

Pressure data sheet

Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	Yes	Reliable performance, bears pressure difference; valve closes automatically in case of an emergency.
		Downstream	No	For pipeline required of better anti water hammer, bears big pressure difference
Normally open		Upstream	Yes	For pipeline where valve keeps open. double acting & normally open when silencer removed off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer was removed off.

Water hammer (or, more generally, fluid hammer) is a pressure surge or wave caused when a fluid (usually a liquid but sometimes also a gas) in motion is forced to stop or change direction suddenly (momentum change). A water hammer commonly occurs when a valve closes suddenly at an end of a pipeline system, and a pressure wave propagates in the pipe. It is also called hydraulic shock.

This pressure wave can cause major problems, from noise and vibration to pipe collapse. It is possible to reduce the effects of the water hammer pulses with accumulators, expansion tanks, surge tanks, and other features.

Designed to close againstflow. Will not chatter or produce water hammer. Operates smoothly and quietly.

Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa		
1/2"	DN15	40	0~1.6	0.3~0.45	0~1.1					≥0.3				0.2~0.4	≥0.4	0~0.2
		50	0~1.6	0.3~0.35	0~1.4	0.45	0~1.6	0.3~0.35	0~1.6	≥0.3	0~1.6	0~1.6	0~1.6	0.2~0.4	≥0.4	0~0.1
3/4"	DN20	50	0~1.6	0.3~0.4	0~1.4	0.45	0~1.6	0.3~0.4	0~1.6	≥0.3	0~1.6	0~1.2	0~1.6	0.3~0.65	0.3~0.4	0~0.2
		63	0~1.6	0.3~0.38	0~1.4	0.45	0~1.6	0.3~0.38	0~1.6	≥0.3~0.5	0~1.6	0~1.4	0~1.6	0.35~0.7	0.3~0.35	0~0.35
		80	0~1.6	0.2~0.35	0~1.4	0.4	0~1.6	0.2~0.35	0~1.6	0.3~0.4	0~1.6	0~1.4	0~1.6	0.35~0.7	0.3~0.4	0~0.5
		90 SS	0~1.6	0.2~0.3	0~1.4	0.35	0~1.6	0.2~0.3	0~1.6	0.3~0.4	0~1.6	0~1.6	0~1.6	0.35~0.7	0.3~0.4	0~0.4
1"	DN25	50	0~1.6	0.3~0.45	0~0.75	0.45	0~1.6	0.3~0.45	0~1.3	0.3~0.6	0~1.6	0~0.3	0~1.3	0.3~0.6	0.3~0.4	0~0.35
		63	0~1.6	0.3~0.35	0~1.4	0.5	0~1.6	0.3~0.35	0~1.6	0.3~0.4	0~1.6	0~1.6	0~1.6	0.35~0.6	0.3~0.55	0~0.35
		80	0~1.6	0.2~0.3	0~1.4	0.45	0~1.6	0.2~0.3	0~1.6	0.3~0.4	0~1.6	0~1.6	0~1.6	0.35~0.6	0.35~0.55	0~0.5
		90 SS	0~1.6	0.2~0.25	0~1.4	0.4	0~1.6	0.2~0.25	0~1.6	0.2~0.3	0~1.6	0~1.6	0~1.6	0.35~0.6	0.35~0.55	0~0.4
1-1/4"	DN32	63	0~1.6	0.3~0.5	0~0.06	0.5	0~1.4	0.3~0.5	0~1.4	0.3~0.6	0~1.6	0~1.4	0~1.3	0.35~0.7	0.3~0.5	0~0.4
		80	0~1.6	0.2~0.45	0~1.4	0.6	0~1.6	0.2~0.45	0~1.6	0.3~0.5	0~1.6	0~1.6	0~1.6	0.35~0.7	0.3~0.55	0~0.5
		90 SS	0~1.6	0.2~0.35	0~1.6	0.65	0~1.6	0.2~0.35	0~1.6	0.2~0.4	0~1.6	0~1.6	0~1.6	0.35~0.7	0.3~0.55	0~0.4
1-1/2"	DN40	63	0~1.6	0.3~0.6	0~0.05	0.5	0~1.1	0.3~0.6	0~1.3	0.3~0.7	0~1.6	0~1.4	0~0.6	0.35~0.7	0.3~0.6	0~0.4
		80	0~1.6	0.3~0.55	0~1.4	0.6	0~1.6	0.3~0.55	0~1.6	0.3~0.6	0~1.6	0~1.6	0~1.6	0.35~0.7	0.3~0.7	0~0.5
		90 SS	0~1.6	0.2~0.35	0~1.6	0.65	0~1.6	0.2~0.35	0~1.6	0.2~0.6	0~1.6	0~1.6	0~1.6	0.35~0.7	0.3~0.7	0~0.5
2"	DN50	63	0~1.0	0.3~0.65	0~0.35	0.5	0~0.9	0.3~0.65	0~0.8	0.35~0.8	0~1.0	0~0.6	0~0.5	0.35~0.7	0.35~0.7	0~0.8
		80	0~1.6	0.3~0.55	0~0.9	0.65	0~1.6	0.3~0.55	0~1.6	0.3~0.7	0~1.6	0~1.0	0~0.6	0.35~0.7	0.35~0.7	0~0.5
		90 SS	0~1.6	0.3~0.5	0~1.1	0.65	0~1.6	0.3~0.5	0~1.6	0.3~0.6	0~1.6	0~1.0	0~1.2	0.35~0.7	0.35~0.7	0~0.4
		100	0~1.6	0.25~0.4	0~1.4	0.65	0~1.6	0.25~0.4	0~1.6	0.3~0.6	0~1.6	0~1.4	0~1.4	0.35~0.7	0.35~0.7	0~0.4
		125 SS	0~1.6	0.2~0.3	0~1.6	0.65	0~1.6	0.2~0.3	0~1.6	0.3~0.4	0~1.6	0~1.4	0~1.4	0.35~0.7	0.35~0.7	0~0.5
2-1/2"	DN65	80	0~1.6	0.3~0.65	0~0.5	0.65	0~1.6	0.3~0.65	0~1.1	0.3~0.7	0~1.6	0~0.5	0~0.75	0.3~0.65	0.35~0.7	0~0.5
		90 SS	0~1.6	0.2~0.6	0~0.7	0.65	0~1.6	0.2~0.6	0~1.6	0.3~0.7	0~1.6	0~1.0	0~1.4	0.3~0.6	0.35~0.7	0~0.4
		100	0~1.6	0.3~0.45	0~0.8	0.65	0~1.6	0.3~0.45	0~1.6	0.3~0.55	0~1.6	0~1.0	0~0.8	0.35~0.7	0.35~0.7	0~0.4
		125 SS	0~1.6	0.2~0.7	0~0.9	0.65	0~1.6	0.2~0.7	0~1.6	0.2~0.55	0~1.6	0~1.4	0~1.4	0.3~0.7	0.35~0.7	0~0.5

Valve

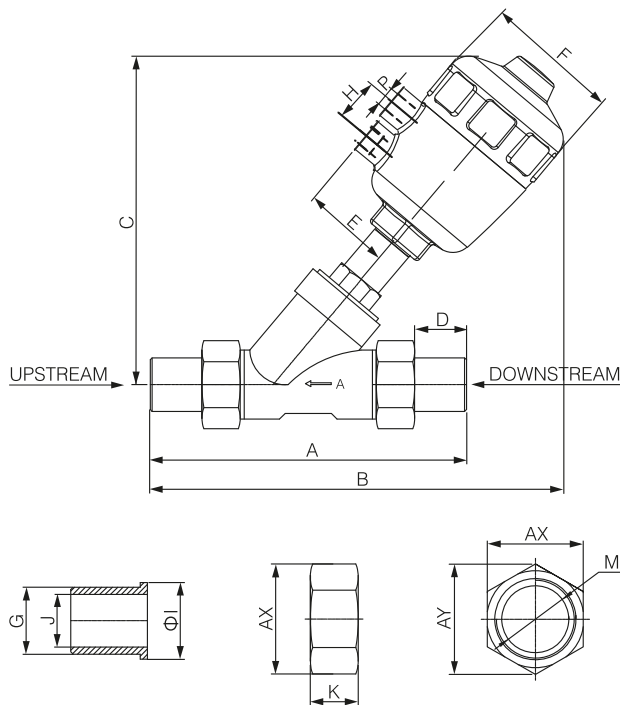
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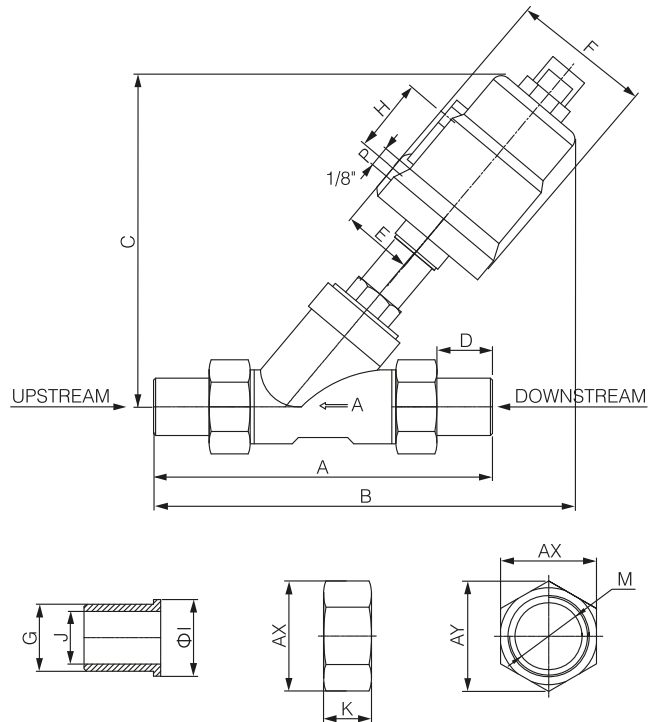
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Dimensions

Male threaded + socket welded -- PV200P



Male threaded + socket welded -- PV200S



Male threaded + socket welded -- PV200P

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	J	K	M	P	AX	AY
1/2"	DN15	40	135	184	115	22	30	53	18	20	12.5	17	19	1/8"	27	31
		50	135	190	115	22	44	64	18	24	12.5	17	19	1/4"	27	31
3/4"	DN20	50	150	200	131	25	44	64	22	24	18	19	22.3	1/4"	31	35
1"	DN25	50	170	205	138	29	44	64	28	24	22.5	20.5	28.3	1/4"	40	45.5
		63	170	247	166	29	54	79.5	28	24	22.5	20.5	28.3	1/4"	40	45.5
1-1/4"	DN32	63	185	257	172	29	54	79.5	35.5	24	30	21	35.5	1/4"	49	56
1-1/2"	DN40	63	208	263	174	31	54	79.5	43.5	24	38	23	43.5	1/4"	54	62
2"	DN50	63	236	288	193	35.5	54	79.5	54.5	24	47.5	24	55	1/4"	54	62
		80	236	299	202	35.5	62	101	54.5	24	47.5	24	55	1/4"	69	79
2-1/2"	DN65	80	250	312	209	32	62	101	72.5	24	62.5	28.5	73	1/4"	90	101

Male threaded + socket welded -- PV200S

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	J	K	M	P	AX	AY
1/2"	DN15	40	135	179	113	22	28	53	18	38	12.5	17	19	1/8"	27	31
		50	135	194	142	22	35	56	18	38	12.5	17	19	1/8"	27	31
3/4"	DN20	50	150	224	152	25	35	56	22	38	18	19	22.3	1/8"	31	35
1"	DN25	50	170	236	155	29	35	56	28	38	22.5	20.5	28.3	1/8"	40	45.5
		63	170	246	176	29	43	70	28	44	22.5	20.5	28.3	1/8"	40	45.5
1-1/4"	DN32	63	185	251	177	29	43	70	35.5	44	30	21	35.5	1/8"	49	56
1-1/2"	DN40	63	208	256	182	31	43	70	43.5	44	38	23	43.5	1/8"	54	62
2"	DN50	63	236	284	196	35.5	43	70	54.5	44	47.5	24	55	1/8"	54	62
		90	236	303	206	35.5	56	94	54.5	67	47.5	24	55	1/4"	69	79
2-1/2"	DN65	90	250	322	215	32	56	94	72.5	67	62.5	28.5	73	1/4"	90	101