



Product feature

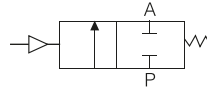
2/2-way Angle-Seat Valve
Pneumatically Operated, for
medium up to +180°C, threaded
port connection DN 10-80

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

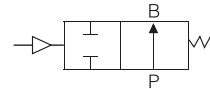
Control function A

(closed by spring force
in rest position)



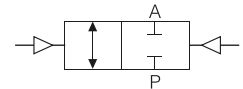
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV100		P	015	NC		S × 63mm
Model						
PV100	100 Series angle seat valve					
Actuator material code						
P	PA Actuator					
S	S.S. Actuator					
A	Aluminum actuator					

Actuator size

Port size	Standard actuator size (mm)		
	PA	S.S.	AL
DN10	40, 50	40, 50	40, 50
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
DN80	100	125	100
DN100	125	125	125

PV100 Series plunger pilot angle seat valve is propelled by piston actuator, either single acting or double acting. Actuators are made of three different materials, be 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.

Specifications

Model Specification	Normally closed	P010NC	P015NC	P020NC	P025NC	P032NC	P040NC	P050NC	P065NC	P080NC
	Normally open	P010NO	P015NO	P020NO	P025NO	P032NO	P040NO	P050NO	P065NO	P080NO
Material of body/ Actuator		S.S304 316 /PA								
Operating method		Plunger pilot								
Ambient and fluid		Air, Water, Oil, Steam (50CTS Bellow)								
Port size		3/8"	1/2"	3/4"	1"	1¼"	1½"	2"	2½"	3"
Nominal diameter (mm)		13	13	18	24	31	35	45	61	80
Kv (m³/h)		3.7	4.2	9	19	33	42	59	90	135
Model Specification	Normally closed	S010NC	S015NC	S020NC	S025NC	S032NC	S040NC	S050NC	S065NC	S080NC
	Normally open	S010NO	S015NO	S020NO	S025NO	S032NO	S040NO	S050NO	S065NO	S080NO
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℃								
	FPM	-10~150℃								
Installing		Downstream/Upstream								

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

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24JH
K23JH
K25JH
K25JH
K35JH
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

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.

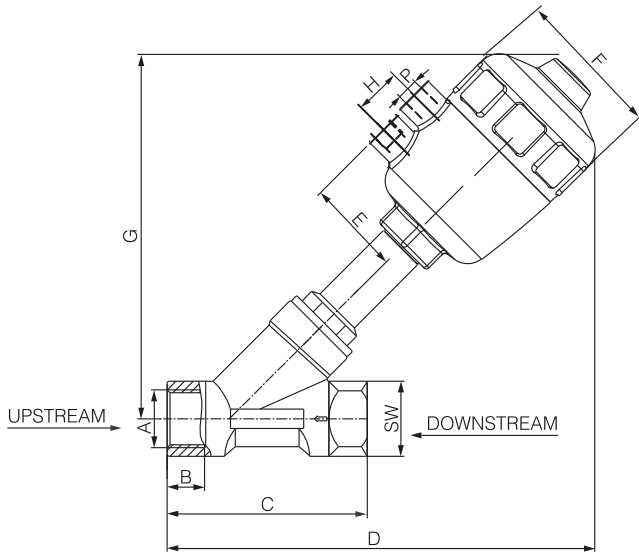
This pressure wave can cause major problems, from noise and vibration to pipe collapse. It is possible to reduce the effects of the water hammer pulses with accumulators, expansion tanks, surge tanks, and other features.

Designed to close against the flow. Will not chatter or produce water hammer. Operates smoothly and quietly.

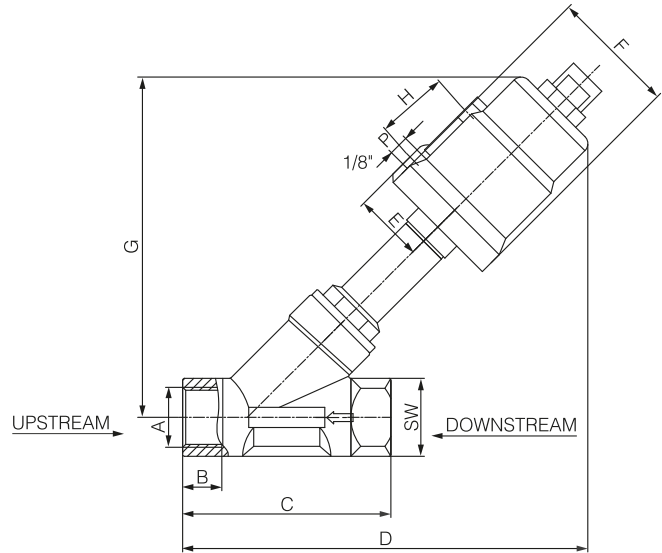
Port size	DN (mm)	Actuator (mm)	Single acting normally closed				Double acting normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range 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		
3/8"	DN10	40	0~1.6	0.3~0.45	0~1.1	0.3	0~1.6	0.3~0.45	0~1.6	≥0.3	0~1.6	0~1.6	0~1.6	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	≥0.3	0~0.1
1/2"	DN15	40	0~1.6	0.3~0.45	0~1.1	0.3	0~1.6	0.3~0.45	0~1.6	≥0.3	0~1.6	0~1.6	0~1.6	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
3"	DN80	100	0~1.6	0.35~0.6	0~0.5	0.65	0~1.6	0.35~0.6	0~1.6	0.3~0.55	0~1.6	0~0.6	0~0.75	0.35~0.7	0.35~0.7	0~0.4
		125 SS	0~1.6	0.2~0.7	0~0.6	0.65	0~1.6	0.2~0.7	0~1.6	0.3~0.65	0~1.6	0~0.7	0~1.2	0.35~0.7	0.35~0.7	0~0.5

Dimensions

Female threaded ends --PV100P



Female threaded ends --PV100S



Female threaded ends -- PV100P

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	P	SW
3/8"	DN10	40	3/8"	12	65	142	30	53	85	20	1/8"	25
		50	3/8"	12	65	145	44	64	100	24	1/4"	25
1/2"	DN15	40	1/2"	14	76	162	30	53	115	20	1/8"	28
		50	1/2"	14	76	168	44	64	115	24	1/4"	28
3/4"	DN20	50	3/4"	16	92	175	44	64	131	24	1/4"	32
		63	3/4"									
1"	DN25	50	1"	21	103	186	44	64	138	24	1/4"	39
		63	1"	21	103	218	54	79.5	166	24	1/4"	39
1-1/4"	DN32	63	1-1/4"	19	112	228	54	79.5	172	24	1/4"	49
1-1/2"	DN40	63	1-1/2"	21	129	232	54	79.5	174	24	1/4"	56
2"	DN50	63	2"	27	143	252	54	79.5	193	24	1/4"	68
		80	2"	27	143	263	62	101	202	24	1/4"	68
2-1/2"	DN65	80	2-1/2"	28	186	280	62	101	209	24	1/4"	84
3"	DN80	100	3"	34	218	355	71	125	268	30	1/4"	101

Female threaded ends -- PV100S

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	P	SW
3/8"	DN10	40	3/8"	12	65	144	28	53	105	38	1/8"	25
		50	3/8"	12	65	//	35	56	//	38	1/8"	25
1/2"	DN15	40	1/2"	14	76	157	28	53	113	38	1/8"	28
		50	1/2"	14	76	182	35	56	142	38	1/8"	28
3/4"	DN20	50	3/4"	16	92	189	35	56	152	38	1/8"	32
		63	3/4"	16	92		43	70		44	1/8"	32
1"	DN25	50	1"	21	103	207	35	56	155	38	1/8"	39
		63	1"	21	103	217	43	70	176	44	1/8"	39
1-1/4"	DN32	63	1-1/4"	19	112	222	43	70	177	44	1/8"	49
1-1/2"	DN40	63	1-1/2"	21	129	225	43	70	182	44	1/8"	56
2"	DN50	63	2"	27	143	249	43	70	196	44	1/8"	68
		90	2"	27	143	268	56	94	206	67	1/4"	68
2-1/2"	DN65	90	2-1/2"	28	186	290	56	94	215	67	1/4"	84
3"	DN80	125	3"	34	218	335	73	135	295	67	1/4"	101

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

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24 ³ / ₈ H
K23J ³ / ₈
K25J ³ / ₈
K25 ³ / ₈ H
K35 ³ / ₈ H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

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

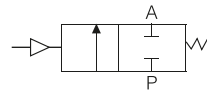
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
male threaded port
connection DN 15-65

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

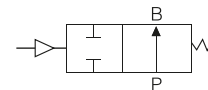
Control function A

(closed by spring force
in rest position)



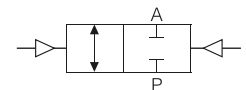
Control function B

(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"	1¼"	1½"	2"	2½"
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℃						
	FPM	-10~150℃						
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

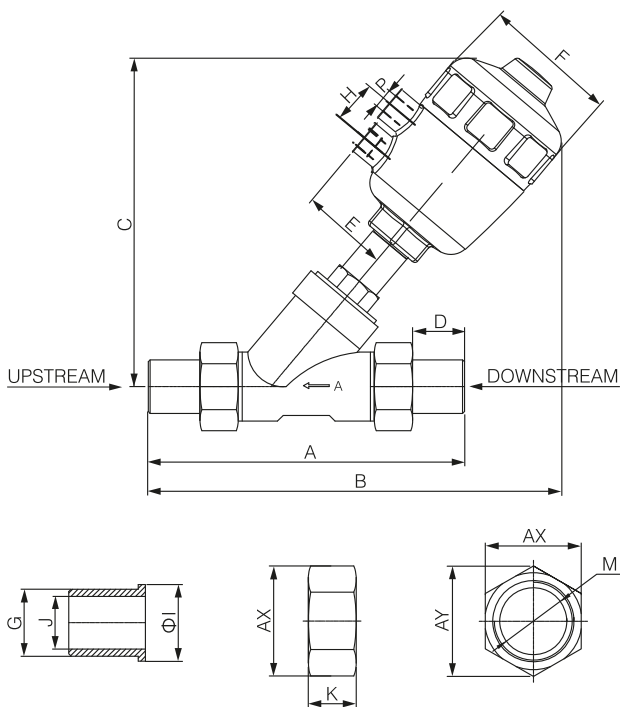
2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24 ³ / ₈ H
K23J ³ / ₈
K25J ³ / ₈
K25 ³ / ₈ H
K35 ³ / ₈ H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

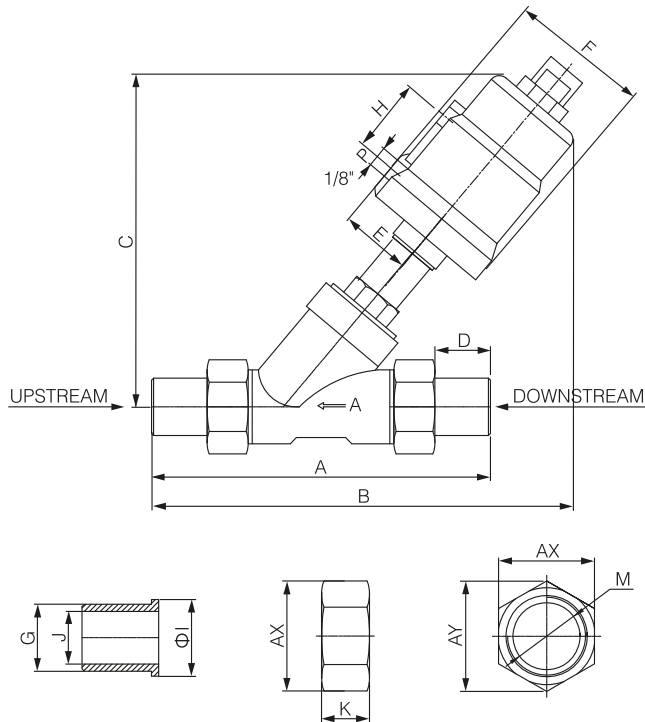
2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q243H
K23J₀
K25J₀
K25J₀H
K35J₀H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

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



Product feature

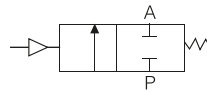
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
with Weld ends
port connection DN 10-80

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

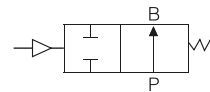
Control function A

(closed by spring force
in rest position)



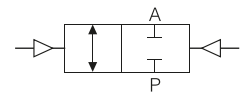
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV300		P	015	NC		S × 63mm					
Model		Nominal diameter		Control function		Acting type					
PV300	300 Seires angle seat valve	15	1/2"	40	1 1/2"	NO	Normally open	Blank	S.S 304 (standard)	S	Single acting
		20	3/4"	50	2"	NC	Normally closed (standard)	4	S.S 316	D	Double acting
		25	1"	65	2 1/2"			5	S.S 316L		
		32	1 1/4"								
Actuator material code											
P	Plastic actuator										
S	S.S. Actuator										
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

PV300 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.

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"	1¼"	1½"	2"	2½"
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℃						
	FPM	-10~150℃						
Installing		Downstream/Upstream						

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

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24JH
K23JH
K25JH
K25JH
K35JH
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

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.

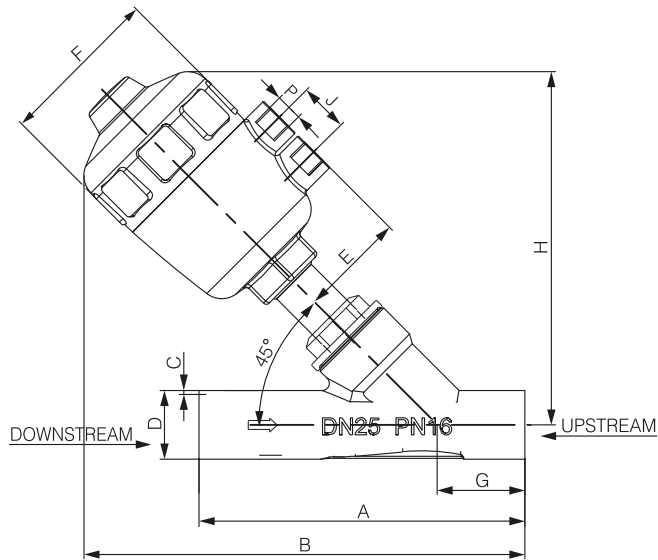
This pressure wave can cause major problems, from noise and vibration to pipe collapse. It is possible to reduce the effects of the water hammer pulses with accumulators, expansion tanks, surge tanks, and other features.

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

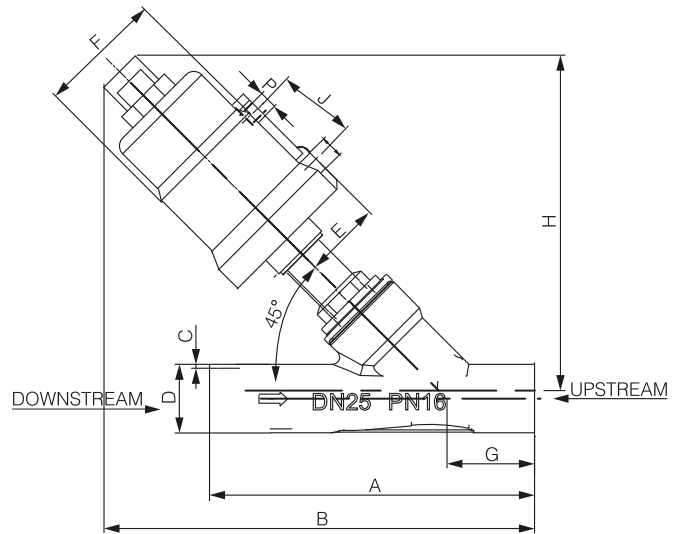
Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. 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

Dimensions

Weld ends --PV300P



Weld ends --PV300S



Weld ends -- PV300P

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	J	P
1/2"	DN15	40	100	142	3	21	30	53	18	115	20	1/8"
		50	100	150	3	21	44	64	18	115	24	1/4"
3/4"	DN20	50	117	170	3	27	44	64	30	131	24	1/4"
1"	DN25	50	130	175	3	34	44	64	30	138	24	1/4"
		63	130	200	3	34	54	79.5	30	166	24	1/4"
1-1/4"	DN32	63	145	207	3	42	54	79.5	30	172	24	1/4"
1-1/2"	DN40	63	160	207	4	48	54	79.5	30	174	24	1/4"
2"	DN50	63	190	227	4	60	54	79.5	30	193	24	1/4"
		80	190	235	4	60	62	101	30	202	24	1/4"
2-1/2"	DN65	80	230	235	5	76	62	101	40	209	24	1/4"

Weld ends -- PV300S

Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	F	G	H	J	P
1/2"	DN15	40	100	135	3	21	28	53	18	117	38	1/8"
		50	100	152	3	21	35	56	18	134	38	1/8"
3/4"	DN20	50	117	174	3	27	35	56	30	144	38	1/8"
1"	DN25	50	130	177	3	34	35	56	30	147	38	1/8"
		63	130	188	3	34	43	70	30	158	44	1/8"
1-1/4"	DN32	63	145	197	3	42	43	70	30	167	44	1/8"
1-1/2"	DN40	63	160	197	4	48	43	70	30	167	44	1/8"
2"	DN50	63	190	216	4	60	43	70	30	186	44	1/4"
		90	190	235	4	60	56	94	30	205	67	1/8"
2-1/2"	DN65	90	230	255	5	76	56	94	40	215	67	1/4"

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24 ³ H
K23 ³ J
K25 ³ J
K25 ³ H
K35 ³ H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

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

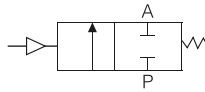
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
with Flange ends
port connection DN 15-100

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

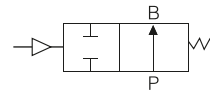
Control function A

(closed by spring force
in rest position)



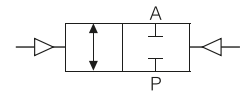
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV400		P	015		
Model		Nominal diameter			
PV400	400 Seires angle seat valve	15	1 1/2"	50	2"
		20	3/4"	65	2 1/2"
		25	1"	80	3"
		32	1 1/4"	100	4"
		40	1 1/2"		
Actuator material code					
P	Plastic actuator				
S	S.S. Actuator				
A	Aluminum actuator				

Control function	
NO	Normally open
NC	Normally closed (standard)

Body material	
Blank	S.S 304 (standard)
4	S.S 316
5	S.S 316L

Acting type	
S	Single acting
D	Double acting

Actuator size

Port size	Standard actuator size (mm)		
	PA	S.S.	AL
DN10	40, 50	40, 50	40, 50
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
DN80	100	125	100
DN100	125	125	125

Flange specification DIN2576(GB/T82.1)

PV400 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.

Specifications

Model Specification										
	Normally closed	P015NC	P020NC	P025NC	P032NC	P040NC	P050NC	P065NC	P080NC	P100NC
	Normally open	P015NO	P020NO	P025NO	P032NO	P040NO	P050NO	P065NO	P080NO	P100NO
	Normally closed	S015NC	S020NC	S025NC	S032NC	S040NC	S050NC	S065NC	S080NC	S100NC
	Normally open	S015NO	S020NO	S025NO	S032NO	S040NO	S050NO	S065NO	S080NO	S100NO
Material of body/ Actuator		S.S304 316 /PA								
Seat seal		PTFE/FPM								
Stem seal		PTFE/FPM								
Piston seal		PTFE/FPM								
Temperature of medium	PTFE	-10~200°C								
	FPM	-10~150°C								
Installing		Downstream/Upstream								
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"	3"	4"
Nominal diameter (mm)		13	20	25	32	40	50	65	80	100
Kv (m³/h)		4.2	8	19	27.5	42	55	90	115	200
Pressure range (MPa)		0~1.6	0~1.6	0~1.6	0~1.6	0~1.6	0~1.6	0~1.6	0~1.6	0~1.6
Min. control pressure (MPa)		0.3	0.35	0.35	0.35	0.35	0.35	0.35	0.40	0.40
Executor dimension (mm)		40/50	50	50/63	63	63	63/80/90	80/90	100/125	125

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)	Single acting normally closed				Double acting 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	0~1.6	0.3~0.45	0~1.6	≥0.3	0~1.6	0~1.6	0~1.6	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	0~0.65	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	0~0.6	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	0~0.9	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
3"	DN80	100	0~1.6	0.35~0.6	0~0.5	0.65	0~1.6	0.35~0.6	0~1.6	0.3~0.55	0~1.6	0~0.6	0~0.75	0.35~0.7	0.35~0.7	0~0.4
		125 SS	0~1.6	0.2~0.7	0~0.6	0.65	0~1.6	0.2~0.7	0~1.6	0.3~0.65	0~1.6	0~0.7	0~1.2	0.35~0.7	0.35~0.7	0~0.5
4"	DN100	125	0~1.6	0.2~0.7	0~0.6	0.65	0~1.6	0.2~0.7	0~1.6	0.3~0.65	0~1.6	0~0.7	0~1.2	0.35~0.7	0.35~0.7	0~0.5
		125 SS	0~1.6	0.2~0.7	0~0.6	0.65	0~1.6	0.2~0.7	0~1.6	0.3~0.65	0~1.6	0~0.7	0~1.2	0.35~0.7	0.35~0.7	0~0.5

Valve

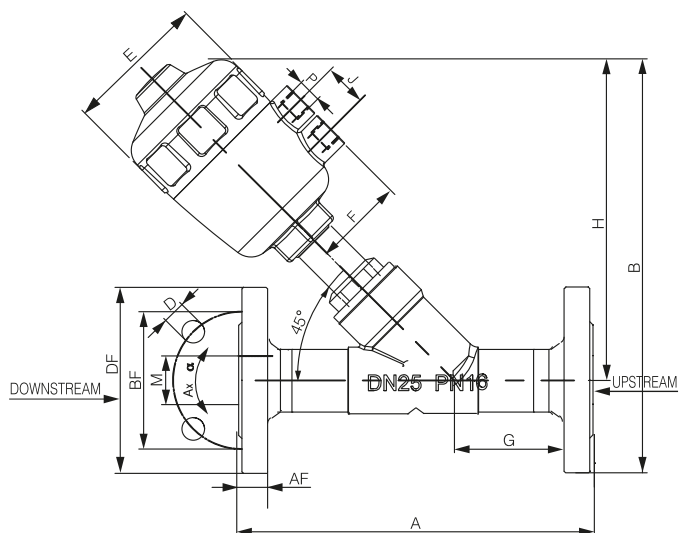
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2WBF
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0927/0955
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VX
QX
PT
Q24³/₈H
K23J³/₈
K25J³/₈
K25³/₈H
K35³/₈H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
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Valve

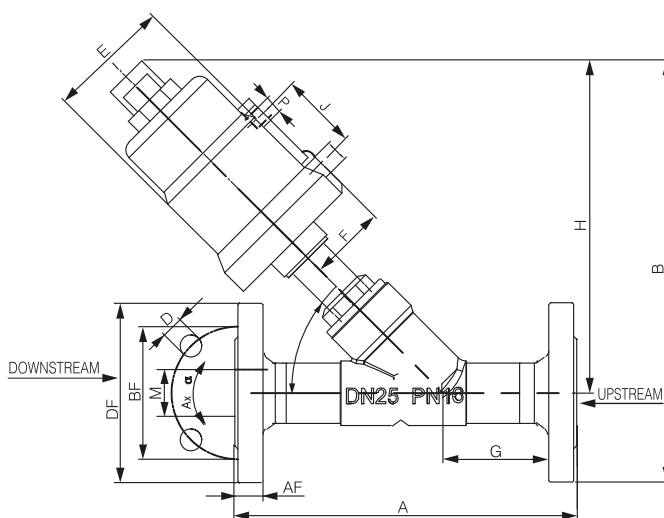
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K25J ₀
K25J ₀ H
K35J ₀ H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Dimensions

Flange ends -- PV400P



Flange ends -- PV400S



Flange ends -- PV400P

Port size	DN(mm)	Actuator(mm)	A	B	D	E	F	G	H	J	M	P	AF	BF	DF
1/2"	DN15	50	130	165	14	64	44	24	115	24	15	12	15	65	95
3/4"	DN20	50	130	185	14	64	44	25	131	24	18	12	15	75	102
1"	DN25	50	140	195	14	64	44	30	138	24	25	12	15	85	114
		63	140	225	14	79.5	54	30	166	24	25	12	15	85	114
1-1/4"	DN32	63	150	240	18	79.5	54	30	172	24	30	12	17	100	133
1-1/2"	DN40	63	180	245	18	79.5	54	45	174	24	36	12	17	110	143
2"	DN50	63	195	275	18	79.5	54	50	193	24	47	12	17	125	158
		80	195	285	18	101	62	50	202	24	47	12	17	125	158
2-1/2"	DN65	80	230	300	18	101	62	55	209	24	68	12	18	145	180
3"	DN80	100	240	365	18	125	71	70	268	30	80	12	20	160	194
4"	DN100	125	265	420	18	158	93	90	314	30	100	12	20	180	215

Flange ends -- PV400S

Port size	DN(mm)	Actuator(mm)	A	B	D	E	F	G	H	J	M	P	AF	BF	DF
1/2"	DN15	50	130	190	14	56	35	24	142	38	15	1/8"	15	65	95
3/4"	DN20	50	130	203	14	56	35	25	152	38	18	1/8"	15	75	102
1"	DN25	50	140	215	14	56	35	30	155	38	25	1/8"	15	85	114
		63	140	235	14	70	43	30	176	44	25	1/8"	15	85	114
1-1/4"	DN32	63	150	245	18	70	43	30	177	44	30	1/8"	17	100	133
1-1/2"	DN40	63	180	245	18	70	43	45	182	44	36	1/8"	17	110	143
2"	DN50	63	195	274	18	70	43	50	196	44	47	1/8"	17	125	158
		80/90	195	295	18	94	56	50	206	67	47	1/4"	17	125	158
2-1/2"	DN65	80/90	230	305	18	94	56	55	215	67	68	1/4"	18	145	180
3"	DN80	100	240	395	18	135	73	70	295	67	80	1/4"	20	160	194
4"	DN100	125	265	445	18	135	73	90	332	67	100	1/4"	20	180	215



Product feature

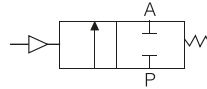
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
with Tri-Clamp Ends ends
port connection DN 15-65

1. High flow rate;
2. Long life cycle;
3. Modular universal ouessories 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

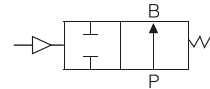
Control function A

(closed by spring force
in rest position)



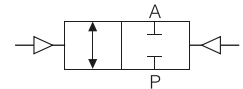
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV500		P	015	NC		S × 63mm
Model		Nominal diameter		Control function		Acting type
PV500	500 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"	
		32	1 1/4"			
Actuator material code		Body material		Acting type		
P	Plastic actuator	Blank	S.S 304 (standard)	S	Single acting	
S	S.S. Actuator	4	S.S 316	D	Double acting	
A	Aluminum actuator	5	S.S 316L			

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

Clamp specification: ISO 2852-1993 ISO/JIS is also available

PV500 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.

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"	1¼"	1½"	2"	2½"
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℃						
	FPM	-10~150℃						
Installing		Downstream/Upstream						

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24JH
K23JH
K25JH
K25JH
K35JH
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

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.

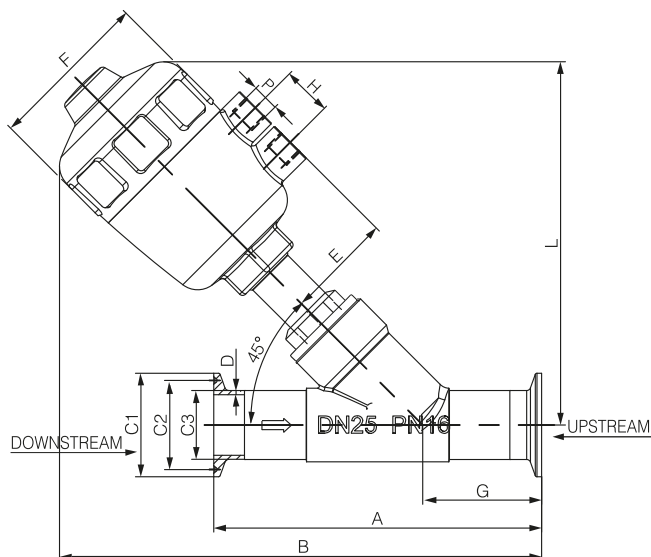
This pressure wave can cause major problems, from noise and vibration to pipe collapse. It is possible to reduce the effects of the water hammer pulses with accumulators, expansion tanks, surge tanks, and other features.

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

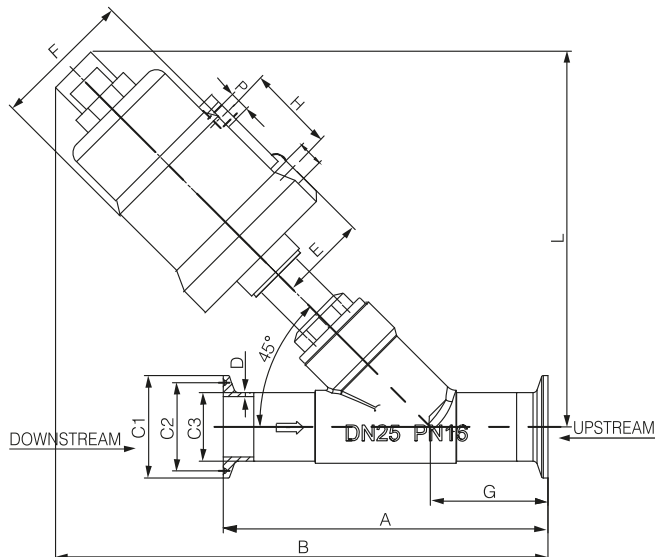
Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. 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	0~0.65	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

Dimensions

Tri-clamp ends -- PV500P



Tri-clamp ends -- PV500S



Tri-clamp ends -- PV500P

Port size	DN(mm)	Actuator(mm)	A	B	C1	C2	C3	D	E	F	G	L	H	P
1/2"	DN15	50	133	188	50.5	43.5	20.5	2	64	44	49	115	24	1/4"
3/4"	DN20	50	143	195	50.5	43.5	25.5	2.4	64	44	56.5	131	24	1/4"
1"	DN25	50	143	206	50.5	43.5	31.3	2.4	64	44	58	138	24	1/4"
		63	143	238	50.5	43.5	31.3	2.4	79.5	54	58	166	24	1/4"
1-1/4"	DN32	63	153	248	50.5	43.5	38.3	2.4	79.5	54	57.5	172	24	1/4"
1-1/2"	DN40	63	182	252	64	56.5	47.2	2.6	79.5	54	69	174	24	1/4"
2"	DN50	63	200	272	64	56.5	55.5	2.6	79.5	54	77.5	193	24	1/4"
		80	200	283	64	56.5	55.5	2.6	101	62	77.5	202	24	1/4"
2-1/2"	DN65	80	232	310	91	83.5	68	2.6	101	62	90	209	24	1/4"

Tri-clamp ends -- PV500S

Port size	DN(mm)	Actuator(mm)	A	B	C1	C2	C3	D	E	F	G	L	H	P
1/2"	DN15	50	133	202	50.5	43.5	20.5	2	56	35	49	142	38	1/8"
3/4"	DN20	50	143	209	50.5	43.5	25.5	2.4	56	35	56.5	152	38	1/8"
1"	DN25	50	143	227	50.5	43.5	31.3	2.4	56	35	58	155	38	1/8"
		63	143	237	50.5	43.5	31.3	2.4	70	43	58	176	44	1/8"
1-1/4"	DN32	63	153	242	50.5	43.5	38.3	2.4	70	43	57.5	177	44	1/8"
1-1/2"	DN40	63	182	245	64	56.5	47.2	2.6	70	43	69	182	44	1/8"
2"	DN50	63	200	269	64	56.5	55.5	2.6	70	43	77.5	196	44	1/8"
		80/90	200	289	64	56.5	55.5	2.6	94	56	77.5	206	67	1/4"
2-1/2"	DN65	80/90	232	320	91	83.5	68	2.6	94	56	90	215	67	1/4"

Valve

2P
 2V
 2W
 2W(Big)
 2WB
 2WBF
 US(2L)
 DG223
 DG523
 0927/0955
 PU220
 PU225
 VX
 QX
 PT
 Q24³/₈H
 K23³/₈J
 K25³/₈J
 K25³/₈H
 K35³/₈H
 K23JD
 K25JD
 K25JK
 PV100
 PV200
 PV300
 PV400
PV500
 PV700
 PV800
 PV1527
 PVN
 MV100
 MV200
 NAA
 GT
 K
 R
 FAL
 FP-M
 NTP
 SX

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24JH
K23JH
K25JH
K25JH
K35JH
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

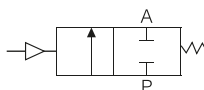
2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180°C,
Polished Actuator
port connection DN 15-65

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

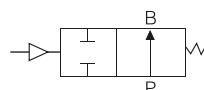
Control function A

(closed by spring force in rest position)



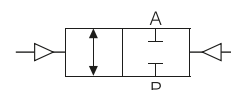
Control function B

(open in rest position)



Control function I

(double-acting actuator)



Ordering code

PV700

Model

PV700 700 Seires angle seat valve

Actuator material code

S S.S. Actuator

S

015

Nominal diameter

15	1/2"	40	1 1/2"
20	3/4"	50	2"
25	1"	65	2 1/2"
32	1 1/4"		

NC

Control function

NO	Normally open
NC	Normally closed (standard)

□

Body material

Blank	S.S 304 (standard)
4	S.S 316
5	S.S 316L

S × 63mm

Acting type

S	Single acting
D	Double acting

Actuator size

Port size	Standard actuator size (mm)	
	S.S.	
DN10	40, 50	
DN15	40, 50	
DN20	50, 63, 80	
DN25	50, 63, 90	
DN32	63, 80	
DN40	63, 80	
DN50	63, 80	
DN65	90, 100	

PV700 Series plunger pilot angle seat valve is propelled by a piston actuator, either single acting or double acting.

The actuator is made of stainless steel sheet, once punch formed, surface polished, thus more appealing, 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.



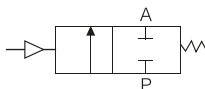
Product feature

2/2-way Angle-Seat Valve
Pneumatically Operated, for
medium up to +150°C, threaded
port connection DN 15-50

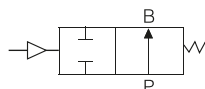
1. Classic design, Long life cycle;
2. NC and NO is optional;
3. Coaxial stoping structure, leakage proof and high flow rate;
4. Saving energy.

Symbol

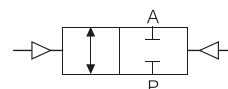
Control function A
(closed by spring force
in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV800		A	015			
Model			Nominal diameter			
PV800	800 Seires angle seat valve		15	1/2"	32	1¼"
			20	3/4"	40	1½"
			25	1"	50	2"
Actuator & stem material code						
S	S.S.					
A	Aluminium					

Construction

Seal material: PTFE(NBR, FKM and EPDM on request)
Liquid and gaseous media that do not attack the housing
and seal materials

Media

Control medium: Air

Temperature range

Medium temperature: -10 to 80°C with NBR seal; -10 to 150°C (PTFE, FKM)

Ambient temperature: -10 to 60°C

Standard Version: Aluminium actuator, S.S actuator on require

Applications

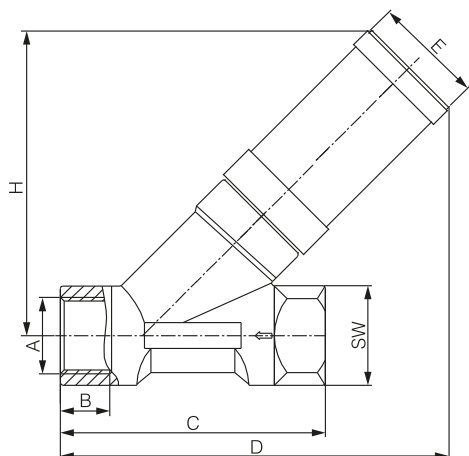
Food, packaging, petrochemical, metallurgical, spraying, vehicles, printing and dyeing machinery etc.

Specifications

Model Specification	Normally closed	P015NC	P020NC	P025NC	P032NC	P040NC	P050NC
	Normally open	P015NO	P020NO	P025NO	P032NO	P040NO	P050NO
Material of body	S.S304/316/316L for body, Aluminium for stem and actuator, S.S is optional.						
Operating method	Plunger pilot						
Ambient and fluid	Air, Water, Oil, Liquefied gas, Free-running viscosity liquid						
Port size	1/2"	3/4"	1"	1¼"	1½"	2"	
Nominal diameter (mm)	13	16	22	32	35	45	
Kv (m³/h)	4	5	10	20	33	42	
Pressure range (MPa)	0~0.8	0~0.8	0~0.8	0~0.8	0~0.8	0~0.8	
Min. control pressure (MPa)	0.30	0.30	0.32	0.30	0.35	0.32	
Meduim temp.	NBR for -10~80℃ and EPDM, VITON for -10~150℃						

Dimensions

PV800A Series



Port size	DN(mm)	Actuator(mm)	A	B	C	D	E	H	SW
1/2"	DN15	25	1/2"	14	76	109	30	98	27
3/4"	DN20	32	3/4"	16	92	115	37	100	32
1"	DN25	32	1"	21	103	127	37	104	40
1-1/4"	DN32	40	1-1/4"	19	112	168	45	160	50
1-1/2"	DN40	50	1-1/2"	21	129	129	55	160	56
2"	DN50	63	2"	27	143	143	68	160	68

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

Valve

2P
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24 ^D H
K23J ^D
K25J ^D
K25 ^D _K H
K35 ^D H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24JH
K23JG
K25JG
K25JH
K35JH
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX



PV1527-A

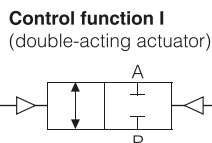
PV1527-B

Product feature

2/2-way Angle-Seat Valve
Pneumatically Operated, for
medium up to +120°C, Stainless
steel Actuator Dia 27mm
female threaded
port Connection, DN15

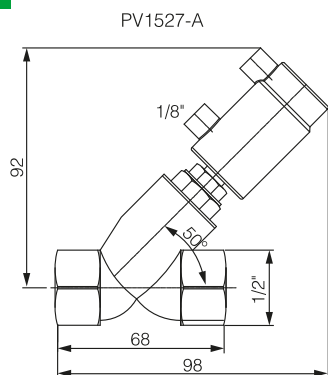
1. Compact style 2/2-way stainless steel valve;
2. Movable seat & V shape seals ensure reliable and effective performance;
3. Valve in Y type installation and horizontal installation is optional;
4. Double acting NC and double acting is optional.

Symbol

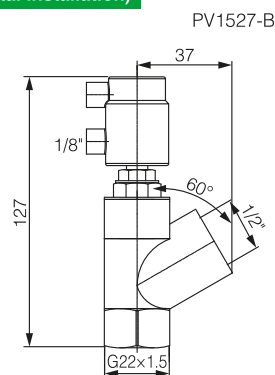


Dimensions

Y-type filling valve



filling valve (Horizontal installation)



PVN Series Angle Seat Valve (Piston Valve/NAMUR Type Actuator)

Product feature

2/2-way Angle-Seat Valve for
medium up to +180°C,
NAMUR type Actuator
connection is available on
customer request
DN 15-65

1. NAMUR direct connections on piloting head, direct coupling with solenoid valve;
2. Modular universal accessories can be assembled on NC and NO universal actuators' head.



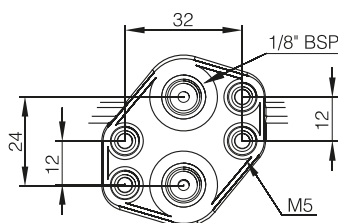
NAMUR type actuator

1. Namur interface allows easy installation of pilot valve to actuator
2. Increased operational reliability when using the NAMUR pilot valves type 4M310-08/10

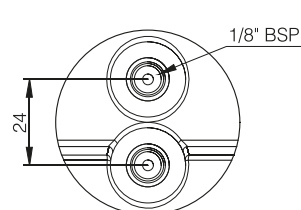
Actuator size

Port size	Standard actuator size (mm)	
	PA	
DN15	50	Available
DN20	50, 63, 80	Available
DN25	50, 63, 80	Available
DN32	63, 80	
DN40	63, 80	
DN50	63, 80	
DN65	80, 100	

NAMUR Port



Standard Port





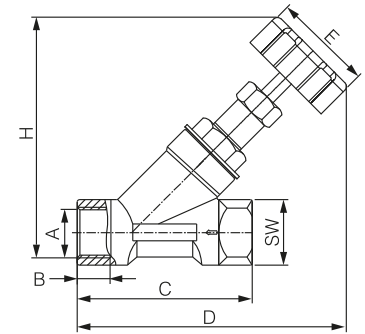
Product feature

2/2-way Angle-Seat Valve,
manually operated, for
medium up to +180°C,
DN 15-50

1. Compact industrial design with long service life;
2. Adjustable flow rates;
3. Stainless steel valve body;
4. Excellent seat tightness due to PTFE soft sealing;

MV100 Series Manually-operated angle seat valve are designed with threaded or weld end port connection, There are 2 types function which is optional: usually MV100 is used only for On/Off function, control a defined flow is required with Model MV100A

Swivel plate type:
Parabolic plug
it can be used to control a
defined flow.



Specifications

Model specification	Specification
Mateial of body	CF8/CF8M
Port size	DN10-DN50
Seat seal	PTFE
Temp. of medium	-20~180°C
Installing	see following
Ambient and fluid	Air, Water, Oil, Steam, gas Organic solvent, acidic solution, weakly alkaline solution
Flow direction	Any flow direction (MV100A must be below seal)

Note: Installation in any orientation but preferably with the handwheel above

Dimensions

Port size	A	B	C	D	E	H	SW
DN10	3/8"	12	65	125	50	96	25
DN15	1/2"	14	76	125	50	105	28
DN20	3/4"	16	92	127	50/63	121	32
DN25	1"	21	103	137	63	128	39
DN32	1-1/4"	19	112	164	63	162	49
DN40	1-1/2"	21	129	167	63	165	56
DN50	2"	27	143	181	63	173	68

MV200 Series T Type Manual Right Globe Control Valve



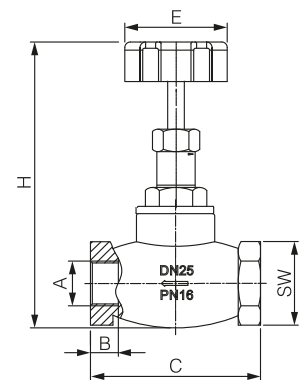
Product feature

2/2-way Golbe Control Valve,
manually operated, for
medium up to +180°C,
DN 15-50

1. Compact industrial design with long service life;
2. Adjustable flow rates;
3. Stainless steel valve body;
4. Excellent seat tightness due to PTFE soft sealing;

MV200 Series Manually-operated globe control valve are designed as standard with threaded end port connection, There are 2 types function which is optional: usually MV200 is used only for On/Off function, control a defined flow is required with Model MV200A

Swivel plate type:
Parabolic plug
it can be used to control a
defined flow.



Specifications

Model specification	Specification
Mateial of body	CF8/CF8M
Port size	DN10-DN50
Seat seal	PTFE
Temp. of Medium	-20~180°C
Installing	see following
Ambient and fluid	Air, Water, Oil, Steam, gas Organic solvent, acidic solution, weakly alkaline solution
Flow direction	Any flow direction (MV200A must be below seal)

Note: Installation in any orientation but preferably with the handwheel above

Dimensions

Port size	A	B	C	E	H	SW
DN15	1/2"	12	57	50	114	26
DN20	3/4"	12	67	50	127	35
DN25	1"	12	72	50/63	135	42
DN32	1-1/4"	16	85	63	152	50
DN40	1-1/2"	16	98	63	262	56
DN50	2"	22	112	63	273	68

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24 ³ / ₈ H
K23J ³ / ₈
K25J ³ / ₈
K25 ³ / ₈ H
K35 ³ / ₈ H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Valve

2P
2V
2W
2W(Big)
2WB
2WBF
US(2L)
DG223
DG523
0927/0955
PU220
PU225
VX
QX
PT
Q24³H
K23J³₀
K25J³₀
K25³H
K35³H
K23JD
K25JD
K25JK
PV100
PV200
PV300
PV400
PV500
PV700
PV800
PV1527
PVN
MV100
MV200
NAA
GT
K
R
FAL
FP-M
NTP
SX

Accessories

NAMUR-Adapter for Pilot Valve



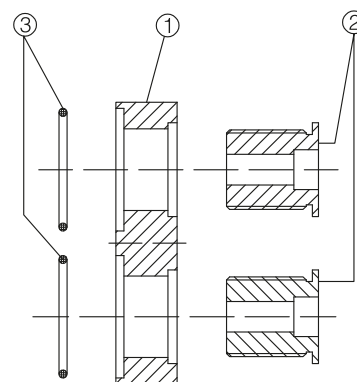
Advantages/Benefits

1. Namur interface allows easy installation of pilot valve to actuator
2. Increased operational reliability when using the NAMUR pilot valves 5/2 way 4M310-08

Technical Data

Mounting for NAMUR-Adapter

- 1 Plate
- 2 Hollow screw
- 3 O-rings



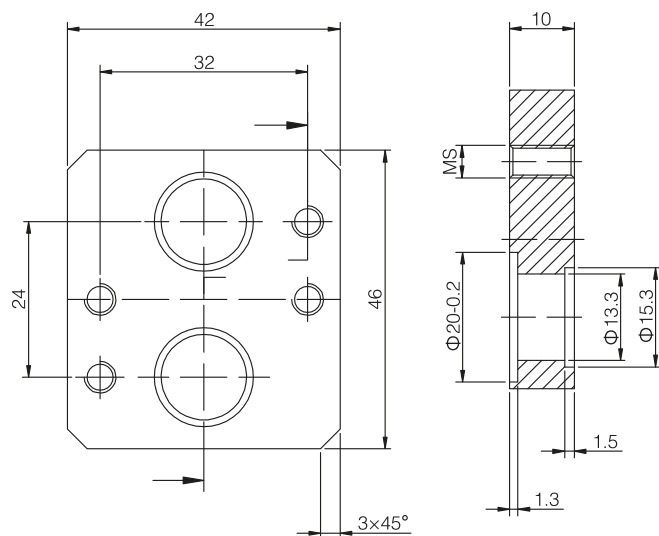
Ordering code

NAA	
Model	
NAA	NAMUR-Adapter

1	
Code	
1	Adapter for actuators: 50/63/80mm
2	Adapetr for actuators: 100/125mm

Dimensions

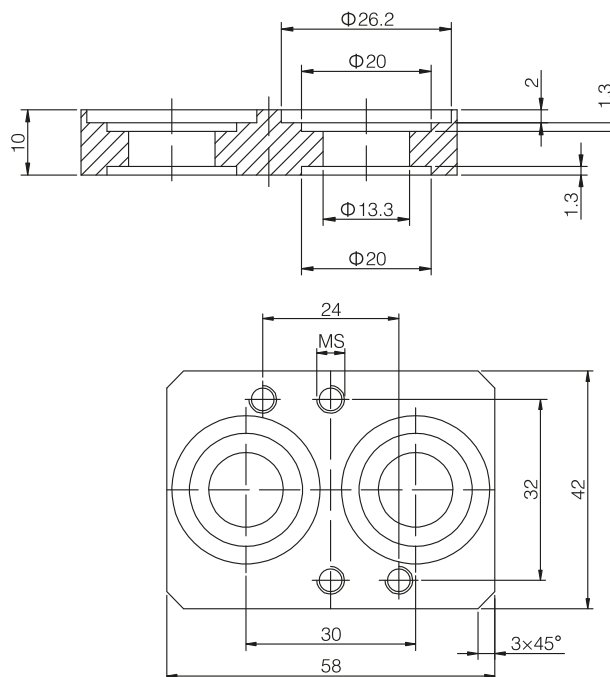
Adapter for actuators: 50mm, 63mm, 80mm



Version 1

Namur-Adapter for Stroke actuator
Φ50 to 80 for angle seat and globe valve
Φ63 to 100 for diaphragm valve
NAMUR adapter for round actuator
Φ63 on request

Adapter for actuators: 100mm, 125mm



Version 2

Namur-Adapter for Stroke actuator
Φ100 and 125 for angle seat and globe valve
Φ125 for diaphragm valve
NAMUR adapter for round actuator
Φ100