

Specifications

Model	4F210-08	4F210-08L	4F210-08F	4F210-08LF
Fluid	Air(to be filtered by 40 μm filter element			
Operating	Acting type controlled by foot			
Port size ①	PT1/4			
Valve type	5/2 Way			
Pressure range	0~1.0MPa(0-145psi)			
Proof pressure	1.5MPa(215psi)			
Temperature ℃	-20~70			
Material body	Aluminum alloy			
Lubrication	Not required			

① PT thread, G thread and NPT thread are available.

Symbol

Without lock



With lock



Ordering code

4F210 — **Model**

4F210	5/2 way foot pedal valve

08 — **Port size**

08	PT1/4

L — **Note**

Blank	Without lock
L	With lock
F	With guard
LF	With lock and guard

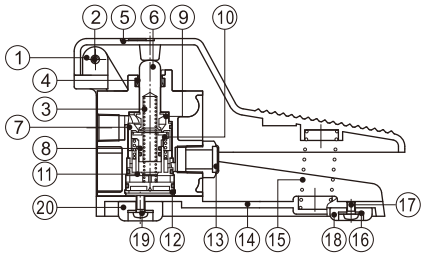
□ — **Thread type**

Blank	PT
G	G
T	NPT

Product feature

1. The aluminum foot pedal is designed with direct acting, which is steady and reliable.
2. If the duration of direction-change is long, the valves with lock may be selected.
3. The clamping framework is steady and reliable that it is easy and quick to unlock. However, with the limitation of the dimension of structure, it can not bear frequent strong impact.
4. Plastic guard with high strength may be selected.

Inner structure

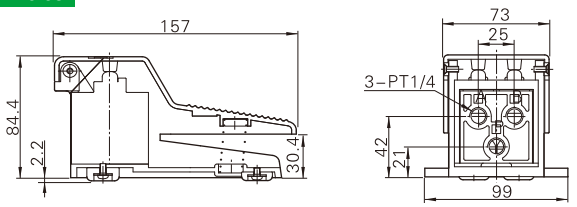


No.	Item	No.	Item	No.	Item	No.	Item
1	Pin	6	Spool	11	Bottom cover	16	Washer
2	Screw	7	O-ring	12	C clip	17	Screw
3	Spring	8	O-ring	13	Silencer	18	Base pad
4	E clip	9	Front cover	14	Base	19	Screw
5	Pedal	10	Piston	15	Pedal spring	20	Base pad

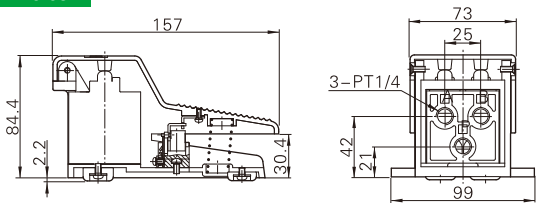
Note: ⚠ Note: Lockable type should be added grease periodically the machine can work regularly

Dimensions

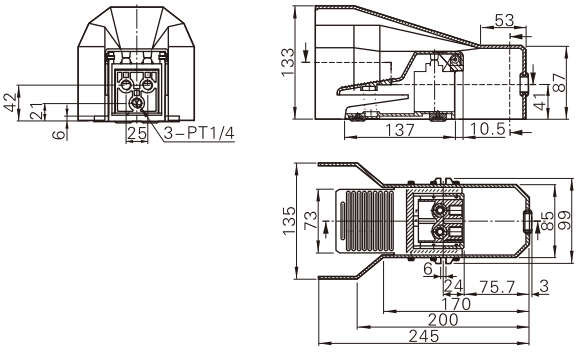
4F210-08



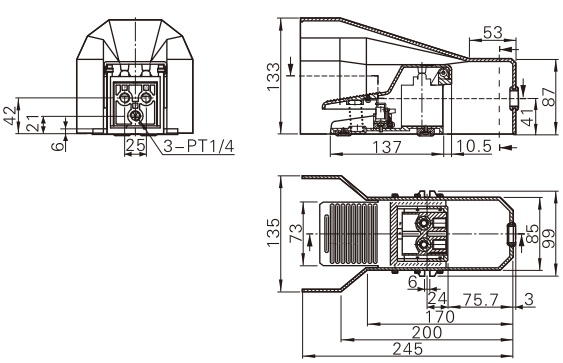
4F210-08L



4F210-08F



4F210-08LF





Specification

Model	3FM210-M5	3F210-06	3FM210-06	3F210-08	3FM210-08
Fluid	Air(to be filtered by 40 μm filter element				
Operating	Acting type controlled by foot normally closed				
Port size ①	M5	PT1/8	PT1/8	PT1/4	PT1/4
Valve type	3/2 Way				
Pressure range	0~1.0MPa(0-145psi)				
Proof pressure	1.5MPa(215psi)				
Temperature ℃	-20~70				
Material body	3FM:Plastic; 3F:Aluminum alloy				
Lubrication	Not required				

① PT thread, G thread and NPT thread are available.

Symbol

Without lock



With lock



Product feature

1. Direct acting and normally closed type.
2. The 3F series has aluminum foot pedal and 3FM series has plastic foot pedal, in direct acting type, horizontal and compact structure.
3. If the duration of direction-change is long, the valves with lock may be selected.
4. The clamping framework is steady and reliable that it is easy and quick to unlock. However, with the limitation of the dimension of structure, it can not bear frequent strong impact.

Ordering code

3F210

Model

3FM210	3/2 way foot pedal valve (mini type)
3F210	3/2 way foot pedal valve

08

Port size

Model	Port size
3FM210	M5: M5
	06: 1/8"
	08: 1/4"
3F210	06: 1/8"
	08: 1/4"

L

Note

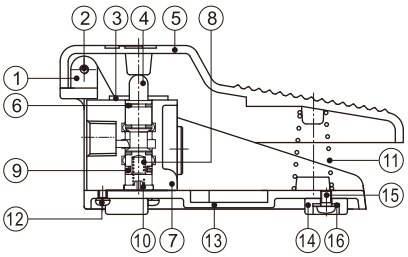
Mode	Note
3FM210	Not code
3F210	Blank: Without lock
	L: With lock

□

Thread type

Port size	Thread type
M5	Not code
1/8" 1/4"	Blank: PT
	G: G
	T: NPT

Inner structure

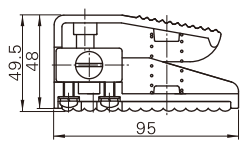


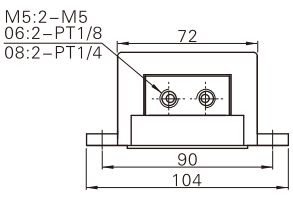
No.	Item	No.	Item	No.	Item
1	Bushing	7	Body	13	Base
2	Fixed screw	8	Spring	14	Base pad
3	Fixed plate	9	E clip	15	Fixed screw
4	Spool	10	Spring bolder	16	Clip
5	Pedal	11	Override spring		
6	O-ring	12	Fixed screw		

Note: ⚠ Note: Lockable type should be added grease periodically to ensure the machine can work regulary

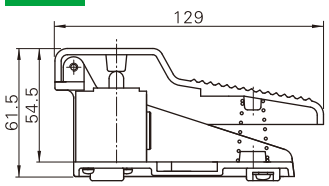
Dimensions

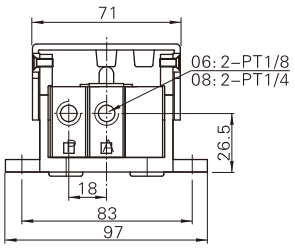
3FM210



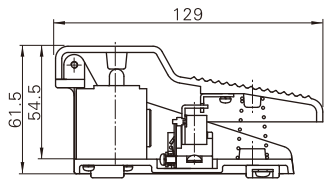


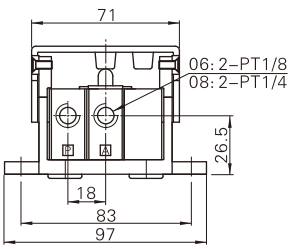
3F210

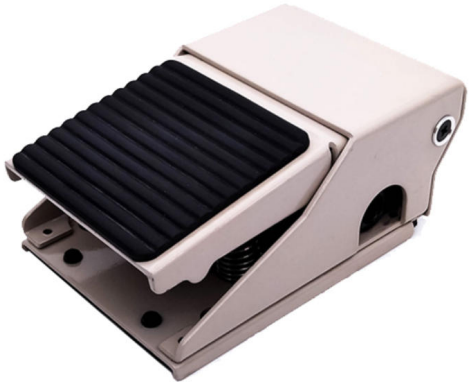




3F210L







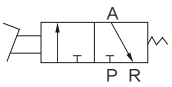
Specifications

Model	FV320	FV420
Fluid	Air(to be filtered by 40 μm filter element	
Valve type	3/2 Way	4/2 Way
Operating	Direct drive type	
Port size ①	06: PT1/8	08: PT1/4
Proof pressure	0~0.8MPa(0~114psi)	
Temperature ℃	-5~60(28~140° F)	
Lubrication	Not required	

① PT thread, G thread and NPT thread are available.

Symbol

FV320



FV420



Ordering code

FV — **Model**

FV	Foot Pedal Valve (3/2 Way, 4/2 Way)

320 — **Position number**

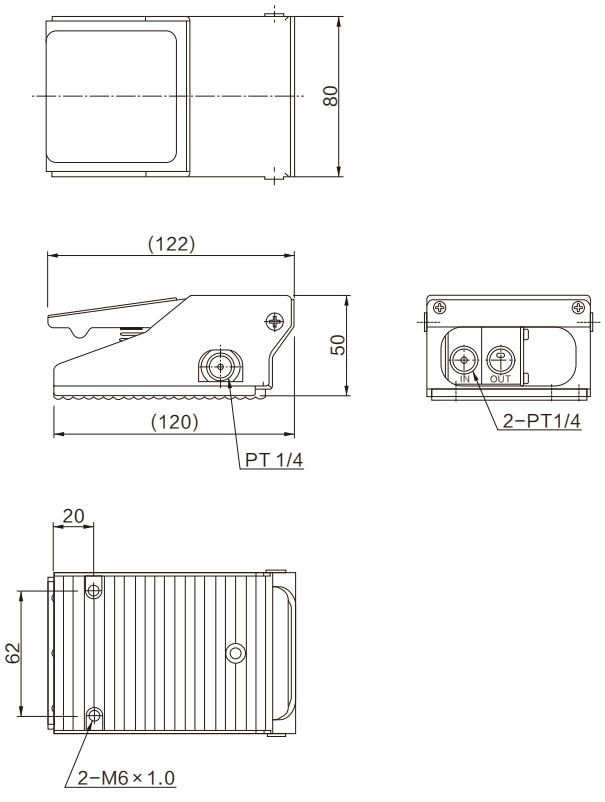
320	3/2 Way
420	4/2 Way

08 — **Port size**

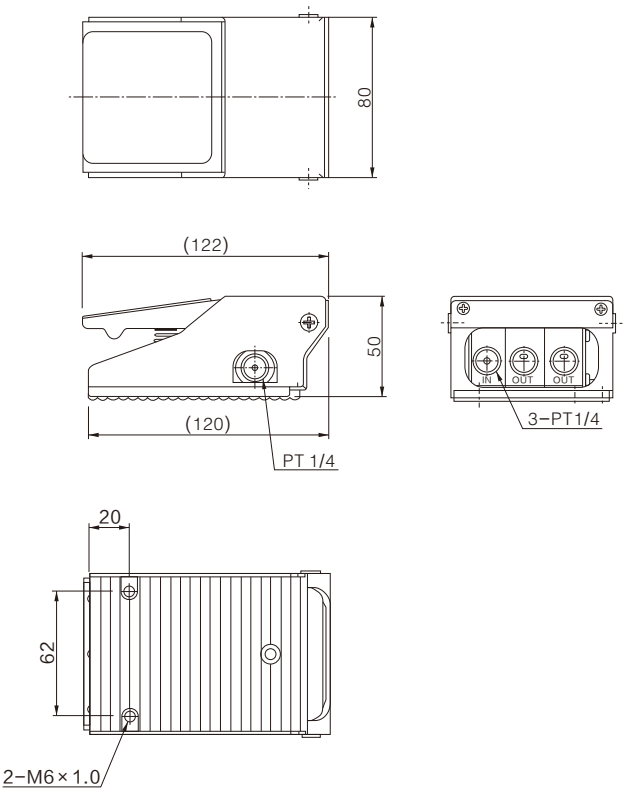
06	1/8"
08	1/4"

Dimensions

FV320

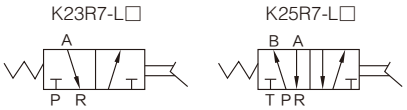


FV420





Symbol



Specifications

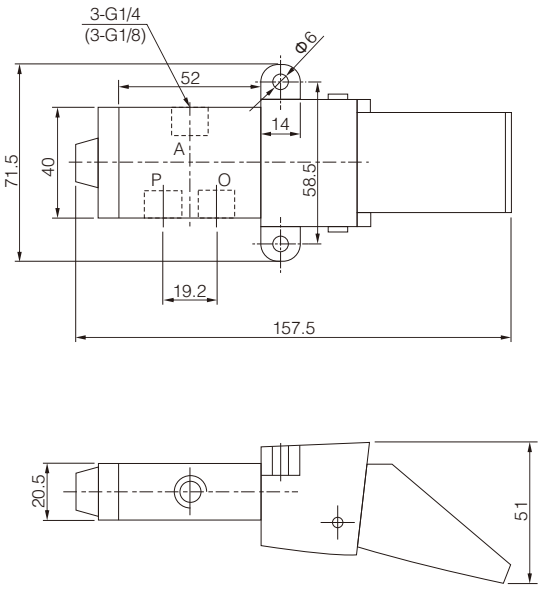
Model	K23R7-L6	K25R7-L6	K23R7-L8	K25R7-L8
Nominal diameter	6mm		8mm	
Working medium	Air(to be filtered by 40 μm filter element			
Mpa Working pressure range	0.05~0.8MPa			
Fuild temperature ℃	-10~55			
Ambient temperature ℃	-5~50			
Net sectional area	10mm^2		20mm^2	
Leakage rate	⩽50cm^3/min			
Operating force	⩽80N		⩽100N	
Service life(Million times)	⩾200			

Ordering code

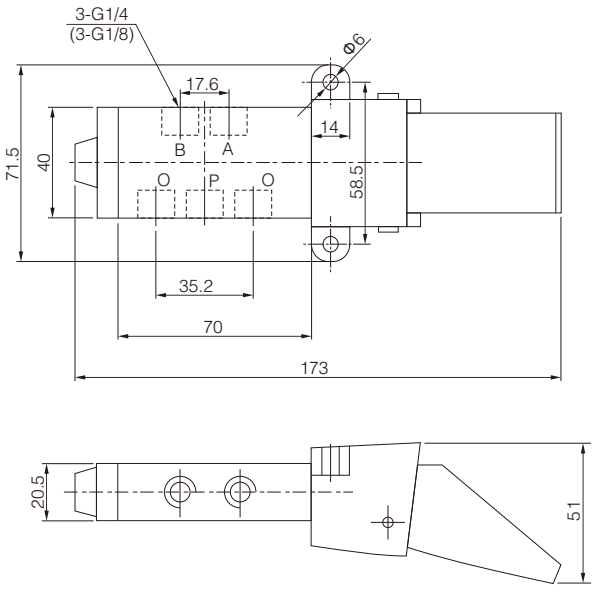
K	23	R7	L	6
Model	**Position number**	**Control mode**	**Connection type**	**Nominal Diameter**
K Foot Pedal Valve (3/2 Way, 5/2 Way)	23 3/2 Way 25 5/2 Way	R7 Foot pedal valve	L Take over type	6 6mm 8 8mm

Dimensions

K23R7-L□



K25R7-L□



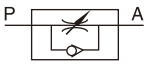


Specifications

Model		ASC100-06	ASC200-08	ASC300-10	ASC300-15
Fluid		Air(to be filtered by 40 μm filter element			
Port size ①		PT1/8	PT1/4	PT3/8	PT1/2
Pressure range		0.05~0.95MPa(7~135psi)			
Proof pressure		1.5MPa(215psi)			
Temperature ℃		-20~70			
Material body		Aluminum alloy			
Flow (L/min)	Control flow	200	450	1250	1650
	Free flow	400	800	1500	2500

① PT thread, G thread and NPT thread are available.

Symbol



Ordering code

ASC — **Model**

ASC	Flow control valve

300 — **Code**

100	100 Series
200	200 Series
300	300 Series

08 — **Port size**

Model		Port size
100 Series	06	PT1/8
200 Series	08	PT1/4
300 Series	10	PT3/8
	15	PT1/2

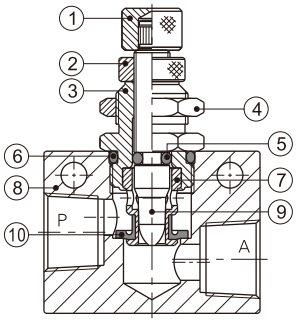
□ — **Thread type**

Blank	PT
G	G
T	NPT

Product feature

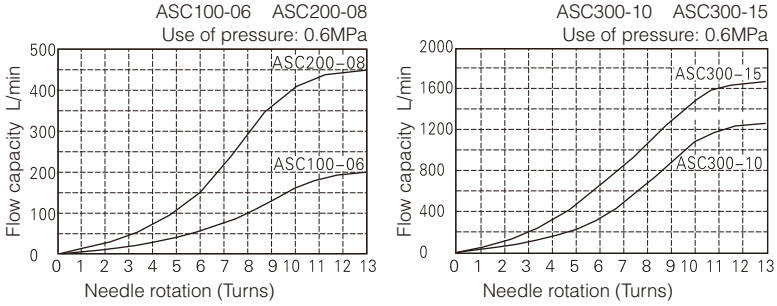
1. Small and compact structure.
2. Allows air to exhaust and cut off air flow. The adjustment screw is both sensitive and precise.
3. Can be mounted in various position to facilitate installation and application.

Inner structure



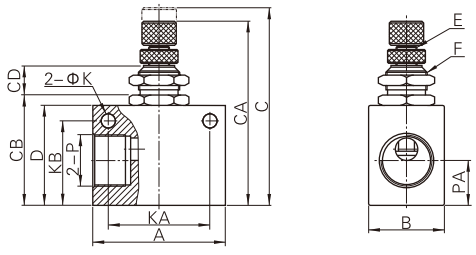
No.	Item
1	Adjustment cap
2	Clamping cap
3	Throttle body
4	Hexagon nut
5	O-ring
6	O-ring
7	Throttle sheath
8	Body
9	Throttle column
10	Spool O-ring

Flow chart

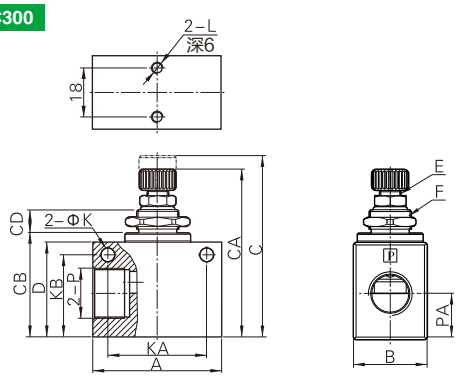


Dimensions

ASC100\ASC200



ASC300



Model\Item	A	B	C	CA	CB	CD	D	E	F	K	KA	KB	L	P	PA
ASC100-06	32	18	52.5	47	26	8.6	23	M6×0.5	M12×0.75	4.3	22	18	M4×0.7	PT1/8	10
ASC200-08	36	18	56.5	51	30	8.6	27	M6×0.5	M12×0.75	4.3	26	23	M4×0.7	PT1/4	13.5
ASC300-10	50	28	74	65	40.5	10	37	M8×0.75	M16×1.0	5.3	35	32	M4×0.7	PT3/8	17.5
ASC300-15	50	28	74	65	40.5	10	37	M8×0.75	M16×1.0	5.3	35	32	M4×0.7	PT1/2	17.5

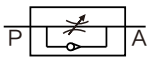
RE Series
Flow Control Valve



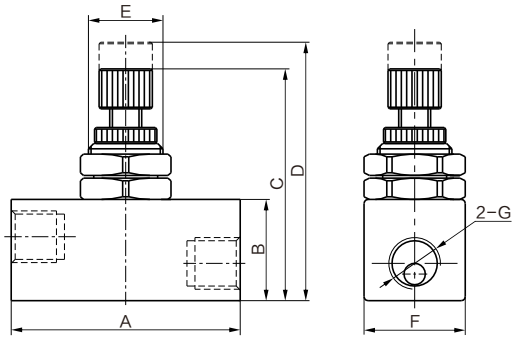
Specifications

Model	RE-01	RE-02	RE-03	RE-04
Fluid	Air(to be filtered by 40 μm filter element			
Port size	PT1/8	PT1/4	PT3/8	PT1/2
Pressure range	0~0.95MPa(0~135psi)			
Temperature ℃	-5~60(28~140° F)			

Symbol



Dimensions



Model\Item	A	B	C	D	E	F	G
RE-01	43	19	43	49	M14×1	19	PT1/8
RE-02	43	19	43	49	M14×1	19	PT1/4
RE-03	53	26	54	60	M18×1	26	PT3/8
RE-04	53	26	54	60	M18×1	26	PT1/2

Ordering code

RE — **Model**

RE	Flow control valve

01 — **Port size**

01	PT1/8
02	PT1/4
03	PT3/8
04	PT1/2

□ — **Thread type**

Blank	PT
G	G
T	NPT

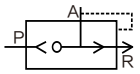
QE Series Fast Exhaust Valve



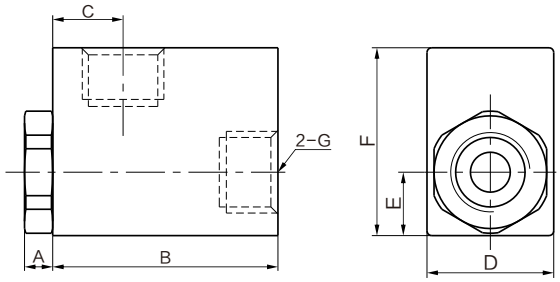
Specifications

Model	QE-01	QE-02	QE-03	QE-04
Fluid	Air(to be filtered by 40 μm filter element			
Port size	PT1/8	PT1/4	PT3/8	PT1/2
Pressure range	0~0.95MPa(0~135psi)			
Temperature ℃	-5~60(28~140° F)			

Symbol



Dimensions



Model\Item	A	B	C	D	E	F	G
QE-01	4	35	10.5	18	9	27	PT1/8
QE-02	6	48	15	27	13.5	40	PT1/4
QE-03	6	48	15	27	13.5	40	PT3/8
QE-04	6	48	15	27	13.5	40	PT1/2

Ordering code

QE — **Model**

QE	Fast exhaust valve

01 — **Port size**

01	PT1/8
02	PT1/4
03	PT3/8
04	PT1/2

□ — **Thread type**

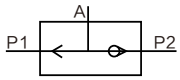
Blank	PT
G	G
T	NPT



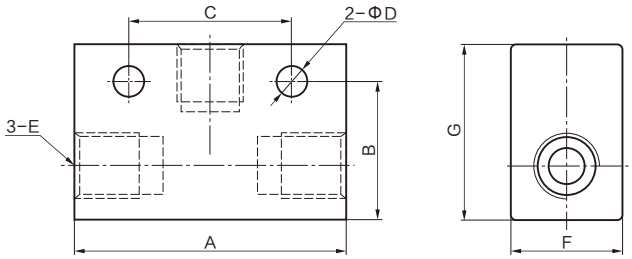
Specification

Model	ST-01	ST-02	ST-03	ST-04	ST-06	ST-08
Port size	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Orifice size	7.5mm²	21mm²	40mm²	60mm²	110mm²	190mm²
Operating pressure	0~0.95MPa(0~135psi)					
Proof pressure	1.5MPa(213psi)					
Temperature ℃	-5~60(28~140° F)					
Material of body	Aluminium alloy					

Symbol



Dimensions



Model\Item	A	B	C	D	E	F	G
ST-01	40	20.5	24	Φ4.5	G1/8	16	25
ST-02	50	25	35	Φ5.5	G1/4	22	35
ST-03	75	42	48	Φ7	G3/8	30	50
ST-04	75	42	48	Φ7	G1/2	30	50
ST-06	110	58	72	Φ7	G3/4	40	70
ST-08	110	58	72	Φ7	G1	40	70

Ordering code

ST — Model

ST	Shuttle valve

02 — Port size

01	G1/8
02	G1/4
03	G3/8
04	G1/2
06	G3/4
08	G1

□ — Thread type

Blank	PT
G	G
T	NPT

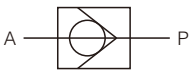
KA\CV Series Unidirectional Valve



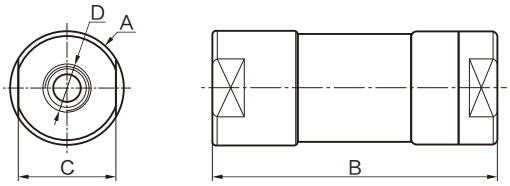
Specification

Model	KA-06	KA-08	KA-10	KA-15	KA-20	KA-25
Fluid	Air(to be filtered by 40μm filter element)					
Port size	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Orifice size	10mm²	20mm²	40mm²	60mm²	100mm²	190mm²
Operating pressure	0.15~0.8MPa(21~114psi)					
Proof pressure	1.5MPa(215psi)					
Temperature ℃	-20~70					
Material of body	Aluminium alloy					

Symbol



Dimensions



Model\Item	A	B	C	D
KA-06	25.2	63	21.6	G1/8
KA-08	25.2	63	21.6	G1/4
KA-10	38.5	84	34.6	G3/8
KA-15	38.5	84	34.6	G1/2
KA-20	55	110.5	46	G3/4
KA-25	55	110.5	46	G1

Ordering code

KA — Model

KA	Unidirectional valve

02 — Port size

06	G1/8
08	G1/4
10	G3/8
15	G1/2
20	G3/4
25	G1

□ — Thread type

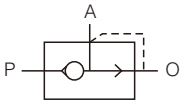
Blank	PT
G	G
T	NPT



Specification

Model	XQ0600	XQ0600	XQ1000	XQ1500
Port size	G1/8	G1/4	G3/8	G1/2
Orifice size (mm)	6	8	10	15
flow (m^3/min)	⩾0.5	⩾0.9	⩾2.5	⩾4.5
Environment and liquid temperature (℃)	5-60	Wear-resistant valve core	-30~60	Low temperature resistant valve core
Durable (Million times)	⩾200	Wear-resistant valve core	⩾100	Low temperature resistant valve core
Working pressure range	0.2-1.0Mpa Resistance to pressure 1.5Mpa			
Commutation time (S)	⩽0.01	⩽0.03	⩽0.04	⩽0.05

Symbol

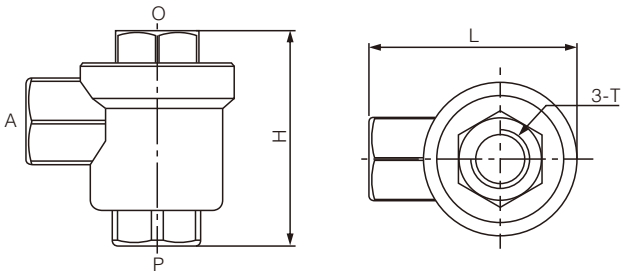


P-In(connect with change vave)
A-Out(connect with cylinder)
O-Out(connect with muffler)

purpose

This fast exhaust valve is suitable for pneumatic industry, mainly used for cylinder. It is used to achieve fast and fast movement of cylinders, so as to improve working efficiency. It has low temperature resistance (-35℃~60℃) and wear resistant spool, and we can customize products with NPT threadspecifications.

Dimensions



Model\Item	T(Interface)	H	L
XQ0600	G1/8	51	44
XQ0600	G1/4	51	44
XQ1000	G3/8	62	61
XQ1500	G1/2	78	75

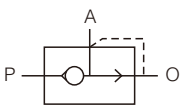
KA\CV Series Unidirectional Valve



Specification

Model	AQ2000-01	AQ2000-02	AQ3000-02	AQ3000-03	AQ5000-04	AQ5000-06
Port size	G1/8	G1/4	G1/4	G3/8	G1/2	G3/4
Temperature ℃	5~60					
Operating pressure	0.15~1.0MPa					
Proof pressure	1.5MPa					

Symbol

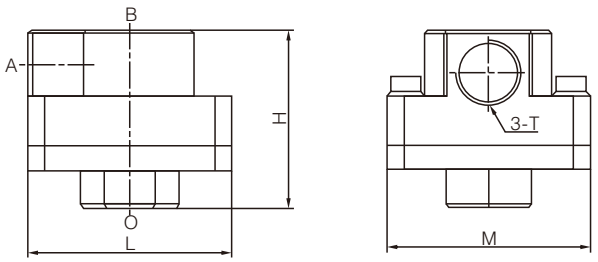


P-In(connect with change vave)
A-Out(connect with cylinder)
O-Out(connect with muffler)

purpose

This fast exhaust valve is applied to the pneumatic industry, mainly used in cylinder, which is used to realize the fast forward movement of the cylinder, so as to improve the working efficiency. (for this product we provide G thread and NPT thread interface)

Dimensions



Model\Item	T(Interface)	M	L	H
AQ2000-01/02	G1/8 G1/4	45	45	40
AQ3000-02/03	G1/4 G3/8	56	56	50
AQ5000-04/06	G1/2 G3/4	85	85	75

Flow list

Model\Item	T(Interface)	Orifice size(mm^2)		weight(g)
		In→Out	Out→exhaust	
AQ2000-01	G1/8	25	25	110
AQ2000-02	G1/4	35	40	105
AQ3000-02	G1/4	40	42	215
AQ3000-03	G3/8	60	70	205
AQ5000-04	G1/2	105	115	690
AQ5000-06	G3/4	135	180	690



Product feature

Vibration intensity can be adjusted based on air pressure, can immediately start, stop, fast, low-noise, vibration force, security.

Product application

Feed material conveyor, vibrating screening, vibrating hopper, to help fill packaging, foundry sand mold vibration.

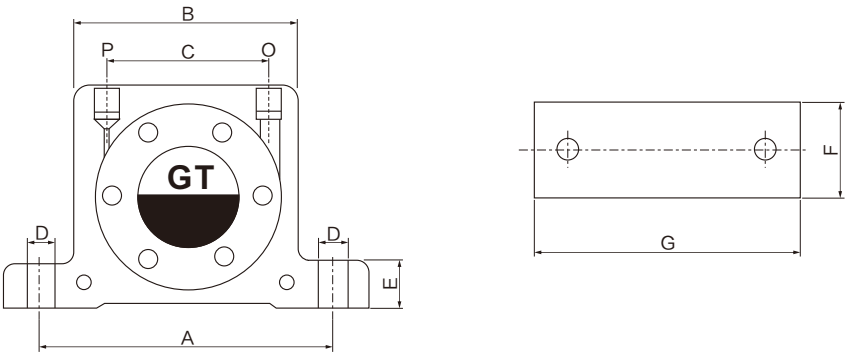
Working principle

Copper eccentric gear installed counterweight impact ai intake charge into the gear thrust gear rotates, the eccentric rotation of the centrifugal weight with vibration, the gear driven by a bearing, low noise.

Specifications

Model	Frequency(V.P.M)			Vibration power(N)			Air consumption(L/min)		
	0.2MPa	0.4MPa	0.6MPa	0.2MPa	0.4MPa	0.6MPa	0.2MPa	0.4MPa	0.6MPa
GT-4	11.500	12.500	13.500	130	165	210	30	40	50
GT-6	11.500	12.500	13.500	130	165	210	30	40	50
GT-8	34.850	42.000	45.500	980	2.100	2.800	46	80	112
GT-10	27.500	35.000	37.500	840	1.390	2.400	46	80	112
GT-13	26.000	30.000	33.000	1.400	2.440	3.730	120	200	290
GT-16	17.000	21.500	24.000	1.220	2.090	3.160	120	200	290
GT-20	17.000	20.000	23.000	2.170	4.040	5.520	185	325	455
GT-25	12.000	15.500	17.000	2.120	3.510	5.070	185	325	455
GT-32	13.000	14.000	16.000	3.380	5.430	7.540	330	530	745
GT-36	7.800	10.000	13.000	3.300	5.000	7.150	330	530	745
GT-40	7.500	8.800	9.500	4.350	7.350	9.850	408	428	680
GT-48	5.800	7.500	9.700	4.950	7.750	10.6007	408	428	680
GT-60	4.758	6.530	8.515	5.700	9.800	11.150	505	600	920

Dimensions



Model	A	B	C	D	E	F	G	P\O	Weight(g)
GT-4	56	40	20	6	10	28	70	1/8	280
GT-6	56	40	20	6	10	28	70	1/8	280
GT-8	68	50	28	7	12	35	86	1/8	280
GT-10	68	50	28	7	12	35	86	1/8	280
GT-13	90	65	39	9	16	43	113	1/4	610
GT-16	90	65	39	9	16	43	113	1/4	610
GT-20	104	82	56	9	17	56	128	1/4	1120
GT-25	104	82	56	9	17	56	128	1/4	1120
GT-32	130	103	76	11	21	73	160	3/8	2150
GT-36	130	103	76	11	21	73	160	3/8	2150
GT-40	152	122	85	18	27	80	194	3/8	3530
GT-48	152	122	85	18	27	80	194	3/8	3530
GT-60	195	140	96	21	30	95	240	1/2	5590



Product feature

Vibration intensity according to the pressure regulator, affordable, long life, safe, can be used in damp, dust and explosion sites.

Product application

Feed material conveyor, vibrating screening, vibrating hopper, to help fill packaging, foundry sand mold vibration.

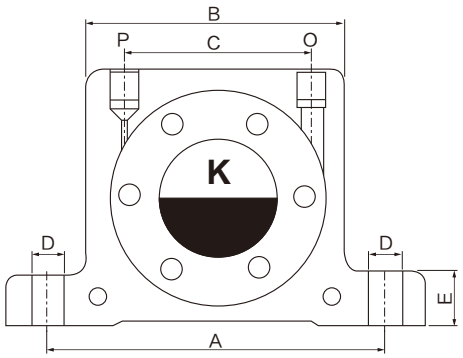
Working principle

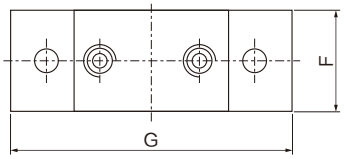
Means of precision steel sleeve and the ball, the outer shell sealed by a special aluminum alloy, to promote the use of air charged into the rotary sleeve in the steel ball weigh ball and the distance between the center of the centrifugal force generated vibration.

Specifications

Model	Frequency(V.P.M)			Vibration power(N)			Air consumption(L/min)		
	0.2MPa	0.4MPa	0.6MPa	0.2MPa	0.4MPa	0.6MPa	0.2MPa	0.4MPa	0.6MPa
K-8	22.500	27.250	34.100	245	465	700	90	150	190
K-10	22.500	27.250	34.100	245	465	700	90	150	190
K-13	13.250	17.500	19.000	440	820	1.200	100	190	270
K-16	13.250	17.500	19.000	440	820	1.200	100	190	270
K-20	10.000	12.750	14.111	950	1.675	2.000	150	270	400
K-25	10.000	12.750	14.111	950	1.675	2.000	150	270	400
K-32	7.500	9.350	11.000	2000	3.150	4.000	270	460	680
K-36	7.500	9.350	11.000	2000	3.150	4.000	270	460	680

Dimensions





Model	A	B	C	D	E	F	G	P\O	Weight(g)
K-8	68	50	28	7	12	22	86	1/4	150
K-10	68	50	28	7	12	22	86	1/4	150
K-13	90	65	39	9	16	27	113	1/4	330
K-16	90	65	39	9	16	27	113	1/4	330
K-20	104	82	57	9	17	38	128	1/4	690
K-25	104	82	57	9	17	38	128	1/4	690
K-32	130	103	76	11	21	50	160	3/8	1320
K-36	130	103	76	11	21	50	160	3/8	1320

NTP Series
Piston Reciprocating Type Ball Vibrator

Product feature

Big power with lower noise.
Standard frequency is from 43 to 146 times per minute.
Excitation force is from 150 N to 2039 N.
The frequency and vibration amplitude can be adjusted via regulating the working pressure.
The normal maximum working pressure is 150 degrees centigrade.
(We can also make special type, such as 200 degrees centigrade).
The pneumatic hammer can be used for severe environment.

Product application

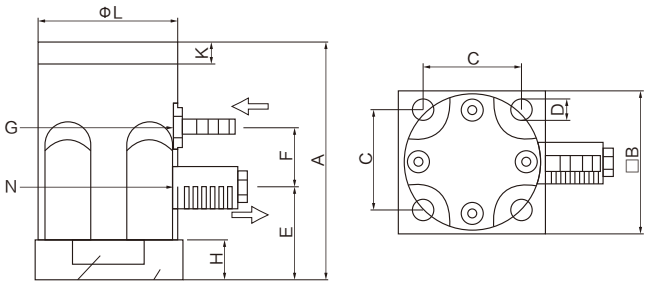
Hopper feed, casting industry, pipelining, compaction, screening, conveyer, etc

The frequency and vibration amplitude is adjustable

Specifications

Model	Frequency(V.P.M)			Vibration power(N)			Air consumption (L/min)
	2bar	4bar	6bar	2bar	4bar	6bar	
NTP25	5.840	6.950	8.780	265	435	825	33-108
NTP32	2.950	4.075	5.045	285	605	925	50-198
NTP48	2.610	3.450	4.310	780	1.300	2.030	96-336

Dimensions



Model	A	B	C	D	E	F	G	H	K	L	N	Weight(kg)
NTP25	90	60	46	6.5	36	14.5	G1/8"	15	8	51	G1/8"	0.61
NTP32	140	75	51	11	48	32	G1/4"	20	10	70	G1/4"	1.47
NTP48	194	100	78	13	60	51	G3/8"	25	15	95	G3/8"	3.95

FP-M Series Piston Type Pneumatic Vibrator

Product feature

Vibration intensity can be adjusted based on air pressure, can immediately start, stop, fast, low-noise, vibration force, security.

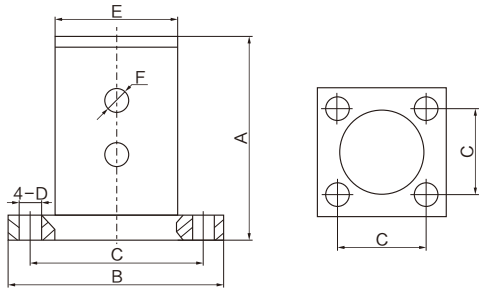
Product application

Feed material conveyor, vibrating screening, vibrating hopper, to help fill packaging, foundry sand mold vibration.

Specifications

Model	Frequency(V.P.M)			Frequency (V.P.M)	Air consumption (L/min)
	3MPa	4MPa	6MPa		
FP-32-M	480	710	900	10-60	215
FP-40-M	630	970	1100	10-50	255
FP-50-M	710	1000	1300	10-40	275
FP-60-M	920	1200	1890	10-30	315
FP-80-M	1080	1920	2400	10-25	335

Dimensions



Model	A	B	C	D	E	F
FP-32-M	90	70	47	8	57	G1/8"
FP-40-M	125	80	47	8	60	G1/8"
FP-50-M	139	94	54	10	68	G1/4"
FP-60-M	187	120	67	10	92	G3/8"
FP-80-M	192	115	82	13	114	G3/8"



Specifications

Model	2P025-06	2P025-08
Fluid	Air, Water, Oil	
Acting	Direct acting	
Type	Normally closed	
Orifice size(Φmm)	2.5	
Cv valve	0.23	
Port size	G1/8	G1/4
Viscosity limit	Under 20CST	
Pressure range	0~0.7MPa(0~100psi)	
Proof pressure	1.05MPa(150psi)	
Material body	Nylon 66	
Seal material	VITON	
Min. activating time sec	0.05 sec and below	



Power Consumption (VA/W)	Insulation	Temp. rise (℃)
7.0VA	Class B	35
7.0W		45

A — **Voltage**

A	AC220V
B	DC24V
C	AC110V
E	AC24V
F	DC12V

I — **Electrical entry**

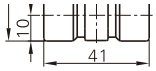
I	Grommet

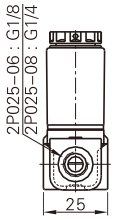
G — **Thread type**

G	G

No.	Item	No.	Item
1	Body	6	Coil
2	Botton cover gasket	7	Coil nut
3	O-ring	8	Fixed plate
4	Pilot screw	9	spring
5	Armature		

‹0.7







Symbol



Product feature

2V025 series

1. Direct acting and normally closed type 2/2 way solenoid valve. Its high sensitivity allows it to change direction quickly.
2. The structure is small and compact.
3. The valve body is made of brass which is heat resistance and the coil conforms to Class B classification. The seals are made of fluorine rubber (VITON) which is suitable for several types of working medium.

2V130 and 250 series

1. This 2/2 way diaphragm piloted solenoid valve has low energy consumption and large air flow.
2. The starting pressure is low and the operational differential pressure is < 0.05MPa.
3. The valve body is made of brass which is heat resistance and the coil conforms to Class B classification. The seals are made of NBR.

Specifications

Model	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Fluid	Air, Water, Oil					
Acting	Direct acting		Internally piloted acting			
Type	Normally closed					
Orifice size(Φmm)	2.5	2.5	13.0	13.0	25.0	25.0
Cv valve	0.23	0.25	6.20	6.20	13.00	13.00
Port size ①	PT1/8	PT1/4	PT3/8	PT1/2	PT3/4	PT1
Viscosity limit	Under 20CST					
Pressure range	0~1.0Mpa(0~145psi)		0.05~1.0Mpa(7~145psi)			
Proof pressure	1.5MPa(215psi)					
Material body	Brass with zinc plated		Brass			
Seal material	VITON		NBR			
Min. activating time sec	0.05 sec and below					

① PT thread, G thread and NPT thread are available.

Specification of coil

Valve type	Power type	Frequency (Hz)	Voltage range	Electrical entry	Power Consumption (VA/W)	Insulation	Temp. rise(℃)
2V025 2V130	AC	50	±15%	Terminal Grommet	7.0VA	Class B	35
		60					
2V250	DC	-	±10%		7.0W		45

Usable fluid

Seal material\Fluid	Water	Drt air	Acetone*	ISOVG32 oil	Glycol*	Nitrogen	Heavy oil
NBR	○	◎	△	◎	○	◎	○

Seal material\Fluid	JIS# 1 Oil	JIS# 3 Oil	Vegetable Oil	Inorganic Oil	Start Oil	Silicage Oil	CO_2	Argon
NBR	◎	○	◎	◎	○	◎	◎	◎

1. Note: ◎= Excellent(nearly without affect). ○= Good(workable though some affect).
   △= Poor(large affect).
2. Note: "*" means inflammable and explosive dangerous fluid. Please use the relative explosion proof coil.
3. Note: Please consult the technical department before using fluid that has not been shown in the above table.

Ordering code

2V — Model

2V	2 port 2 position solenoid valve

025 — Orifice size

025	Φ2.5mm
130	Φ13mm
250	Φ25mm

08 — Port size

Orifice size	Port size
Φ2.5mm	06: G1/8"
	08: G1/4"
Φ13mm	10: G3/8"
	15: G1/2"
Φ25mm	20: G3/4"
	25: G1"

A — Voltage

A	AC220V
B	DC24V
C	AC110V
E	AC24V
F	DC12V

□ — Electrical entry

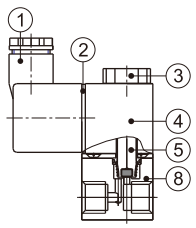
Blank	Terminal
I	Grommet

□ — Thread type

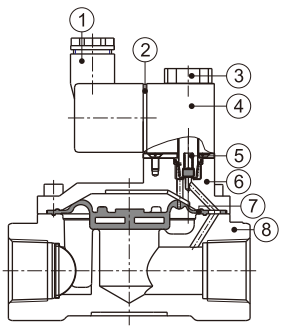
Blank	PT
G	G
T	NPT

Inner structure

2V025 Terminal

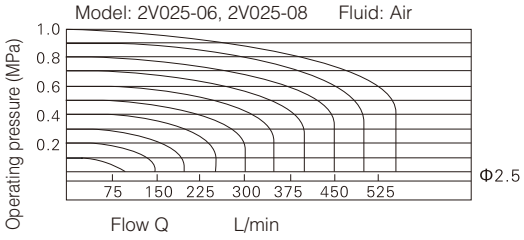


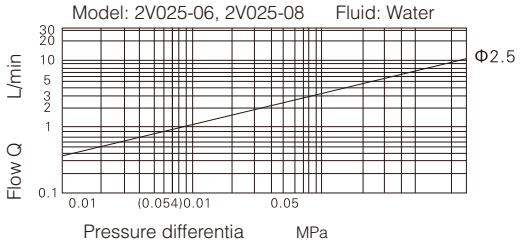
2V250 Terminal

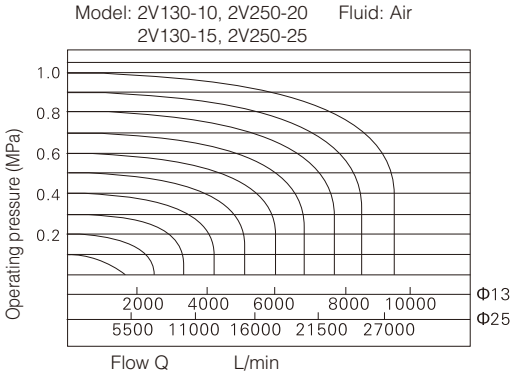


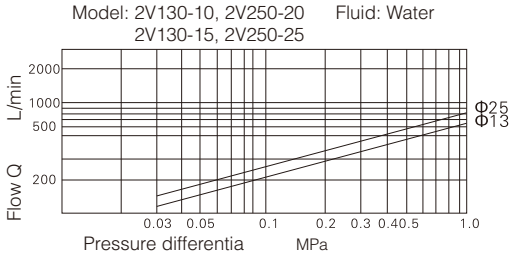
No.	Item	No.	Item
1	Connector	5	Armature assembly
2	Connector gasket	6	Body cover
3	Nut	7	Diaphragm
4	Coil	8	Body

Flow chart



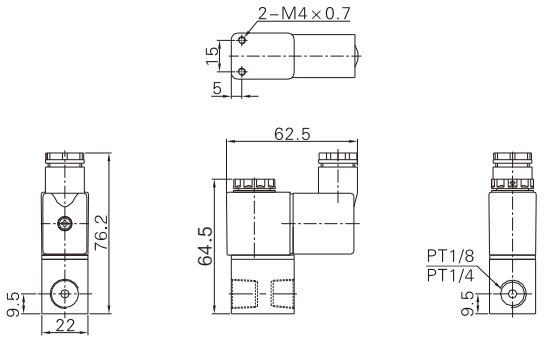




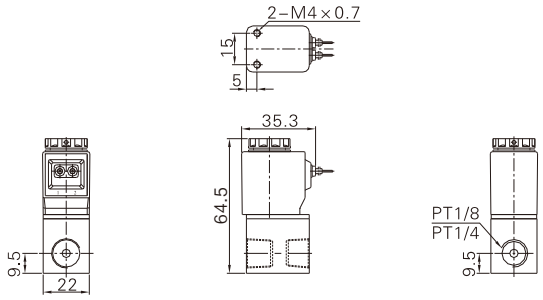


Dimensions

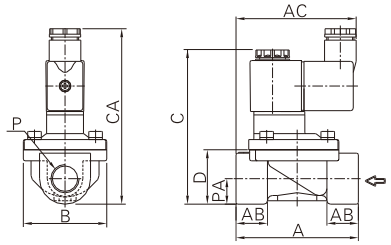
2V025 Terminal



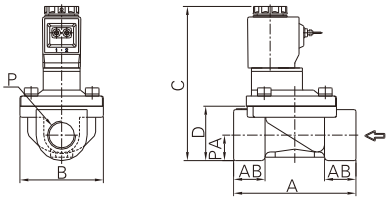
2V025 Grommet



2V130\250 Terminal



2V130\250 Grommet



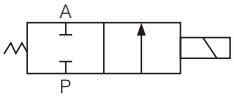
Model\Item	A	AB	AC	B	C	CA	D	P	PA
2V130-10	72	18.5	71	49	91	103	32	PT3/8	15
2V130-15	72	18.5	71	49	91	103	32	PT1/2	15
2V250-20	102	23	74	77.5	107.5	120	45	PT3/4	21
2V250-25	102	23	74	77.5	107.5	120	45	PT1	21



Specifications

Model	2W025-06	2W025-08	2W040-10	2WH012-06	2WH012-08	2WH020-10
Work medium	Air, Water, Oil, Gas					
Operation	Direct Acting					
Acting type	Normally Closed					
Orifice size(mm)	2.5		4	1.2		2
Cv value	0.23		0.60	0.05		0.15
Port size	G1/8"	G1/4"	G3/8"	G1/8"	G1/4"	G3/8"
Operation fluid viscosity	20 CST Below					
Operating perssure	Air, Water, Oil, Gas: 0~0.7MPa			Air, Water, Oil: 0~2.0MPa		
Max. pressure resistance	1.0MPa			3.5MPa		
Operating temperature	NBR for -5~80℃ and VITON for -5~150℃					
Voltage range	± 10%					
Material of boby	Stainless steelor brass					
Material of oil seal	NBR, EPDM or VITON					

Symbol



Ordering code

2W	025	08	B	S	E	AC110V
Model	Orifice size	Port size	Material of boby	Coil form	Sealing material	Standard voltage

Model	
2W	2/2 Way direct acting
2WH	2/2 Way solenoid valve for high pressures

Orifice size	
012	1.2mm
020	2mm
025	2.5mm
040	4mm

Port size	
06	G1/8"
08	G1/4"
10	G3/8"

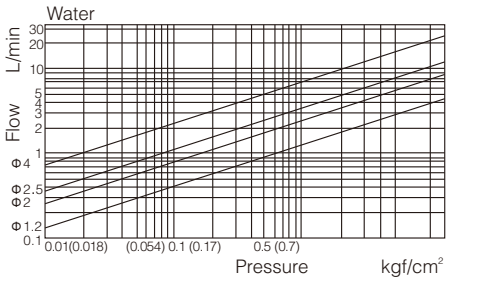
Material of boby	
Blank	Brass
B	Stainless steel

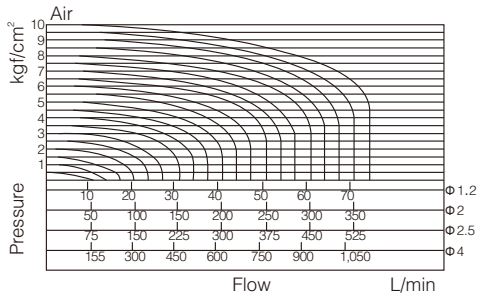
Coil form	
Blank	Round coil
S	Square coil IP65

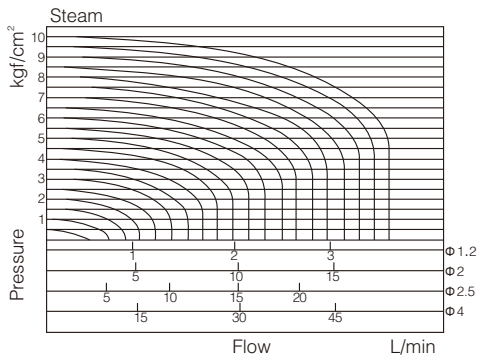
Sealing material	
Blank	NBR
E	EPDM
V	VITON
S	SI

Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

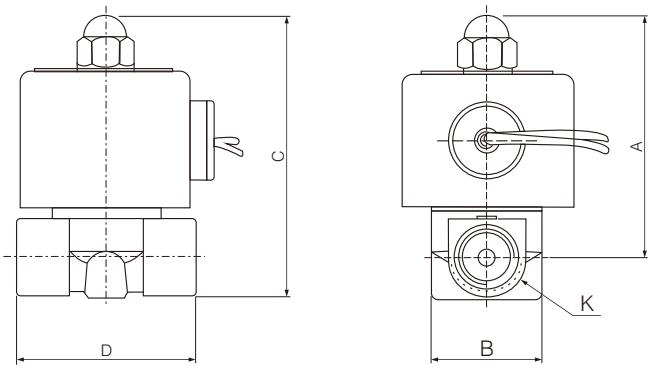
Flow chart







Dimensions



Dimension sheet

Model	A	B	C	D	K
2W025-06	62.5	30	71.5	40.5	G1/8"
2W025-08	62.5	30	71.5	40.5	G1/4"
2W040-10	70	32	80	55	G3/8"
2WH012-06	62.5	30.3	71.5	40.5	G1/8"
2WH012-08	62.5	30.3	71.5	40.5	G1/4"
2WH020-10	70	32.2	80	52.5	G3/8"

2W Series
2/2 Way Direct Acting Solenoid Valve(Large Caliber)



Specifications

Model	2W160-10	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
Work medium	Air, Water, Oil, Gas						
Operation	Direct Acting						
Acting type	Normally Closed						
Orifice size(mm)	16		20	25	35	40	50
Cv value	4.8		4.8	12	24	29	48
Port size	G3/8"	G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Operation fluid viscosity	20 CST Below						
Operating perssure	Air: 0~1.0MPa; Water: 0~0.7MPa; Oil: 0~0.9MPa						
Max. pressure resistance	1.0MPa(Normal open type max. pressure 0.8MPa)						
Operating temperature	NBR for -5~80℃ and VITON for -5~150℃						
Voltage range	± 10%						
Material of boby	Brass						
Material of oil seal	NBR or VITON						

Product feature

Protection degree is Ip67,
these valves can be supplied with manual operation.

Ordering code

2W — Model

2W	2/2 Way solenoid valve

160 — Orifice size

160	16mm
160	16mm
200	20mm
250	25mm
350	35mm
400	40mm
500	50mm

15 — Port size

10	G3/8"
15	G1/2"
20	G3/4"
25	G1"
35	G1¼"
40	G1½"
50	G2"

A — Coil form

A	Waterproof coil
Blank	Round coil
S	Square coil IP65
H	Mamual
NO	Normally open
NC	Normally close
Z	EX-proof

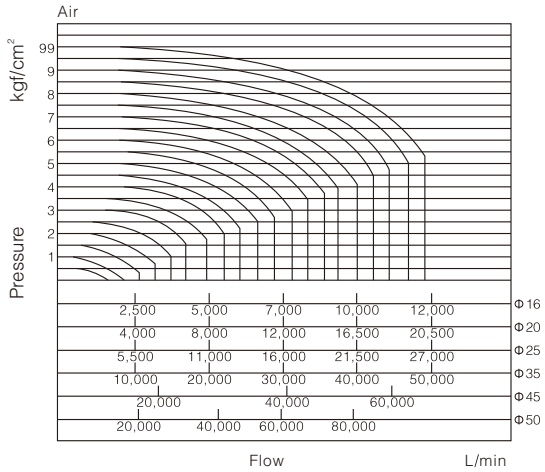
E — Sealing material

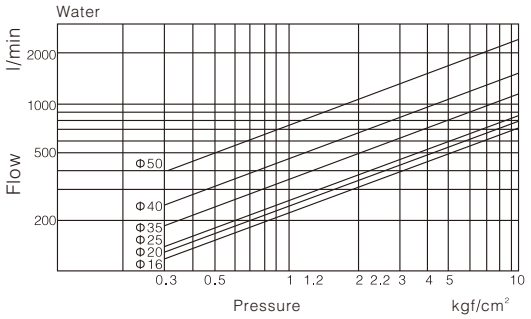
Blank	NBR
E	EPDM
V	VITON
S	SI

AC110V — Standard voltage

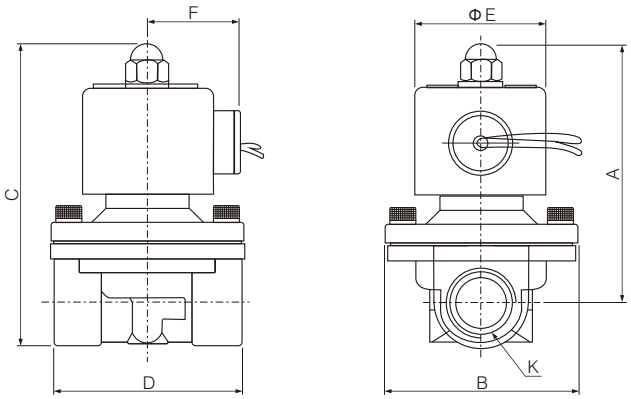
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Flow chart





Dimensions



Model	A	B	C	D	K
2W160-10	90	56	103	66	G3/8"
2W160-10-NO	112		125		
2W160-15	90	56	103	66	G1/2"
2W160-15-NO	112		125		
2W200-20	94	56	110	73	G3/4"
2W200-20-NO	116		132		
2W250-25	98	73	117	99	G1"
2W250-25-NO	120		139		
2W350-35	135	93	160	118	G1¼"
2W350-35-NO	155		180		
2W400-40	135	93	160	118	G1½"
2W400-40-NO	155		180		
2W500-50	153	124	188	160	G2"
2W500-50-NO	174		209		

2WB Series
Fluid Solenoid Valve With Stainless Steel Body

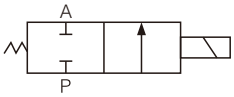


Specifications

Item	Parameter	
Operating	Water, Weak acid & alkali	
Operation	Direct Acting	
Acting type	Diaphragm type	
Pressure range	0~1.0MPa	
Operating perssure	1.0MPa(Normal open type Max. pressure 0.8MPa)	
Medium temperature	-5~80℃ for NBR, -5~150℃ for VITON, EPDM	
Ambient temperature	-5~60℃	
Installation	As required	
Voltage	AC380V, 220V, 110V, 36V, 24V	DC220V, 110V, 36V, 24V, 12V

Plastic capsulation coils and common coils available on request.

Symbol



Ordering code

2WB — **Model**

2WB	Stainless steel fluid solenoid valve

160 — **Orifice size**

030	3mm
040	4mm
160	16mm
200	20mm
250	25mm
350	35mm
400	40mm
500	50mm

15 — **Port size**

06	G1/8"
08	G1/4"
10	G3/8"
15	G1/2"
20	G3/4"
25	G1"
35	G1¼"
40	G1½"
50	G2"

E — **Sealing material**

Blank	NBR
E	EPDM
V	VITON
S	SI

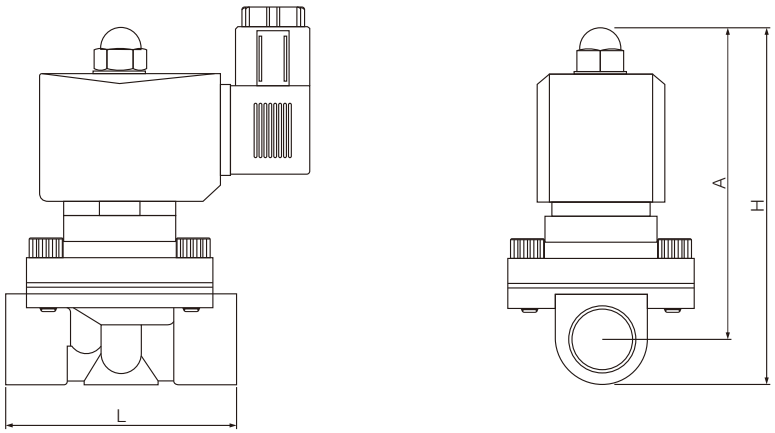
Z — **Coil form**

Z	EX-proof
Blank	Round coi
S	IP65 Square coil
A	Water-proof
F	Flang connection
NC	Normally close
NO	Normally open

AC110V — **Standard voltage**

DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Dimensions



Model	Port size (mm)	Orifice (mm)	CV Value	Pressure range(MPa)	Power		Overall size(mm)		
					AC(VA)	DC(W)	L	H	A
2WB-06	G1/8"	3	0.25	0~1.0	15	12	Φ35	76	65
2WB-08	G1/4"	3					Φ35	76	65
2WB-10	G3/8"	4	0.6		18	16	Φ44	88	75
2WB-10	G3/8"	16	4.8				68	110	96.5
2WB-15	G1/2"	16					68	110	96.5
2WB-20	G3/4"	20					70	117	101
2WB-25	G1"	25	12				98	125	105
2WB-35	G1¼"	35	24		28	24	115	160	136.5
2WB-40	G1½"	40	29				122	170	141
2WB-50	G2"	50	48				166	192	157

Remark: The valve body is square when L is 35 and 44.

2WBF Series
Fluid Stainless Steel Solenoid Valve With Flange Connection



Specifications

Item	Parameter	
Operatino medium	Water, Weak acid & alkali	
Operation	Direct Acting	
Acting type	Diaphragm type	
Pressure range	0~1.0MPa	
Operation perssure	1.0MPa(Normal open type Max. pressure 0.8MPa)	
Medium temperature	NBR for -5~80℃ and VITON for -5~150℃, EPDM	
Ambient temperature	-5~60℃	
Installation	As required	
Voltage	AC380V, 220V, 110V, 36V, 24V	DC220V, 110V, 36V, 24V, 12V

Ordering code

2WBF — **Model**

2WB	Stainless steel fluid with flange solenoid valve

15 — **Port size**

10	10mm
15	15mm
20	20mm
25	25mm
35	35mm
40	40mm
50	50mm

E — **Sealing material**

Blank	NBR
E	EPDM
V	VITON
S	SI

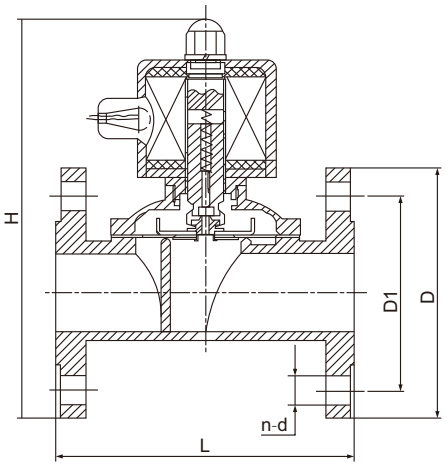
Z — **Coil form**

Z	EX-proof
Blank	Round coi
S	IP65 Square coil
A	Water-proof
NC	Normally close
NO	Normally open

AC110V — **Standard voltage**

DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Dimensions



Model	Orifice (mm)	CV Value	Pressure range(MPa)	Power	Dimension				
					H	L	D	D1	n-d
2WBF-15	16	4.8	0~1.0	14	145	115	95	65	4-Φ14
2WBF-20	20	7.6	0~1.0	14	155	115	105	75	4-Φ14
2WBF-25	25	12	0~1.0	14	166	135	110	85	4-Φ14
2WBF-35	35	28	0~0.7	50	205	148	135	100	4-Φ18
2WBF-40	40	28	0~0.7	50	218	160	145	110	4-Φ18
2WBF-50	50	48	0~0.7	50	228	202	156	125	4-Φ18

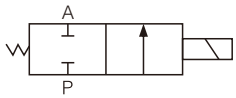
US(2L) Series
Pilot-operated Steam Solenoid Valve



Specifications

Model	US(2L)-15	US(2L)-20	US(2L)-25	US(2L)-35	US(2L)-40	US(2L)-50
Work medium	Air, Water, Steam					
Operation	Pilot operated					
Acting type	Normally Closed					
Orifice size(mm)	4.7		22	30		50
Cv value	4.8		12	20		48
Port size	G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Operation fluid viscosity	20 CST Below					
Operating perssure	Air, Water, Steam: 0.1~1.5MPa					
Max. pressure resistance	1.5MPa					
Operating temperature	-5~185℃					
Voltage range	±10%					
Material of boby	Brass or stainless steel					
Material of oil seal	PTFE					

Symbol



Ordering code

US(2L) — Model

US(2L)	2/2 Way solenoid valve

15 — Port size

15	G1/2"
20	G3/4"
25	G1"
35	G1¼"
40	G1½"
50	G2"

SS — Material of boby

S.S.	Stainless steel
Blank	Brass

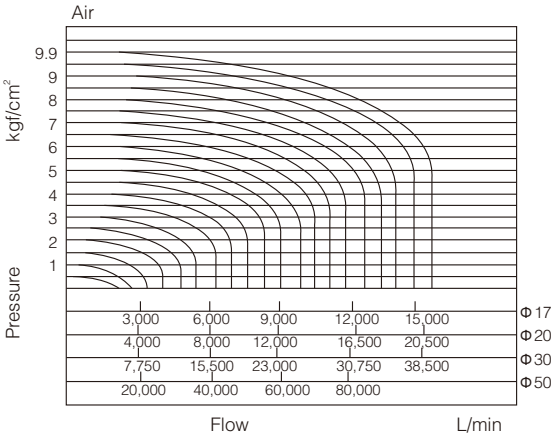
F — Installation form

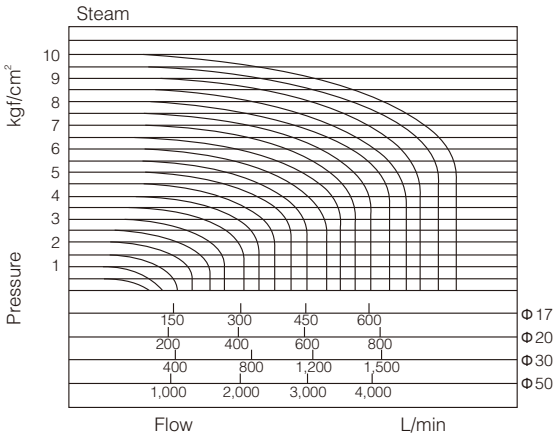
Blank	Thread
F	Flange

AC220V — Standard voltage

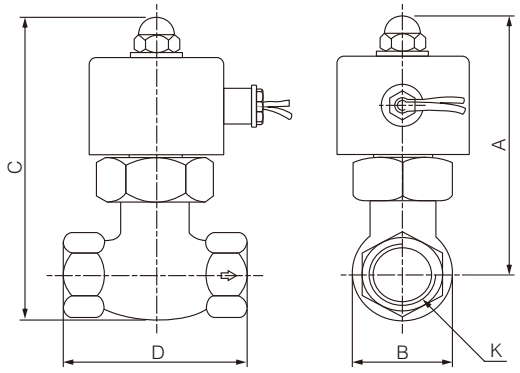
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Flow chart





Dimensions



Model	A	B	C	D	K
US(2L)-10	125	42	146	84	G3/8"
US(2L)-15	125	42	146	84	G1/2"
US(2L)-20	125	42	146	84	G3/4"
US(2L)-25	136	52	162	94	G1"
US(2L)-35	148	74	183	111	G1¼"
US(2L)-40	147	74	183	111	G1½"
US(2L)-50	176	86	223	165	G2"

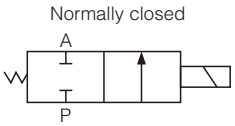
KL223 Series
Compact Direct Acting Solenoid Valve



Specifications

Model		KL2231001	KL2231002	KL2231003	KL2231004
Orifice size(mm)		1.5	2	3	4
Pipe thread		G1/8" or G1/4"			
Operating perssure		0~2.5	0~1.5	0~1.0	0~0.4
Operating temperature		-10~55℃			
Meduim temperature		NBR: -5~80℃, EPDM: -5~120℃, VITON: -10~150℃			
Kv value(m^3/h)		0.1	0.15	0.31	0.54
Coil power	AC(VA)	16			
	DC(W)	13			

Symbol



Product application

Direct acting brass valve block valve is fit for the neutral gas and liquid, e.g. compressed air, water, hydraulic oil and so forth with vacuum technology. It may easily change the coil with no need to remove the valve body. The coil may be fixed in the position of 4×90°. It may freelymove between the two required points.

Ordering code

KL22310

Model	
KL223	Compact direct acting solenoid valve

01

Orifice size	
01	1.5mm
02	2mm
03	3mm
04	4mm

06

Port size	
06	G1/8"
08	G1/4"

Z

Coil form	
Z	EX-proof
Blank	Normal Coil IP65

E

Sealing Material	
Blank	NBR
E	EPDM
V	VITON
S	SI

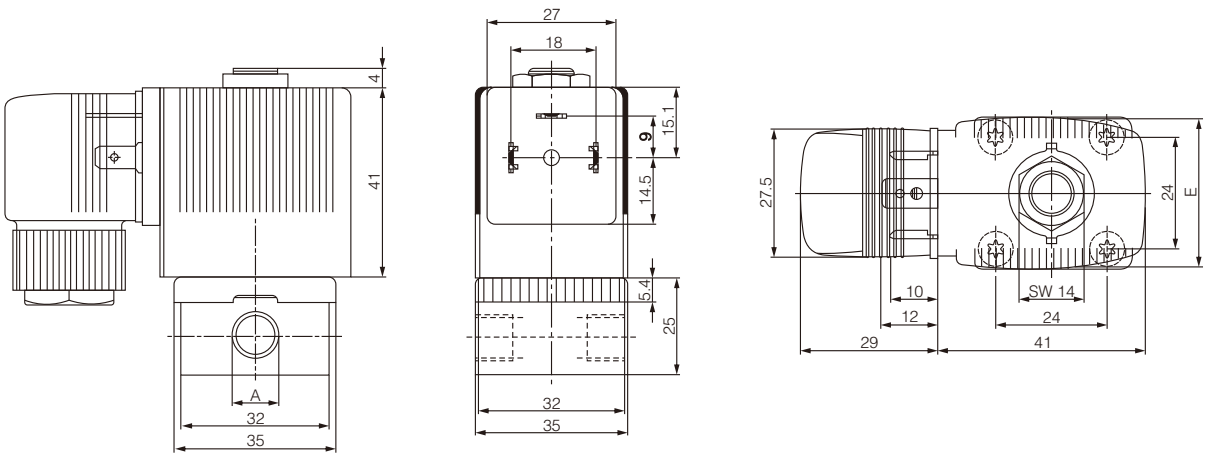
AC110V

Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Technical Specification

Item	Explain
Pressure range	0~1.6MPa
Medium temperature	-10℃~+90℃
Operating temperature	Highest +55℃
Body material	Brass
Sealing material	VITON
Power consumption	DC: 8W AC: 24VA (Attraction) 17VA(Maintain)

Dimensions

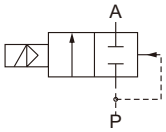




Specifications

Model		KL2231015	KL2231020	KL2231025	KL2231032	KL2231040	KL2231050
Orifice size(mm)		13	20	25	40		50
Port connection		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Operating pressure		0.03~1.0MPa			0.07~1.6MPa		
Ambient temperature		-10~55℃					
Meduim temperature		-10~90℃					
Kv value(m^3/h)		3.6	8.3	11	25	30	45
Power consumption	AC(VA)	14					
	DC(W)	8					
Frequency(Hz)		⩾1	⩾0.5		⩾0.33		
Power, Voltage		AC: 50Hz 24V, 36V, 110V, 220V DC: 24V, 12V					

Symbol



Ordering code

KL22310 **15** **E** **Z** **AC220V**

Model

KL223	2/2 Way diaphragm solenoid valve

Port size

15	G1/2"
20	G3/4"
25	G1"
35	G1¼"
40	G1½"
50	G2"

Sealing Material

Blank	NBR
E	EPDM
V	VITON
S	SI

Coil form

Z	EX-proof
NO	Normal open
NC	Normal close

Standard voltage

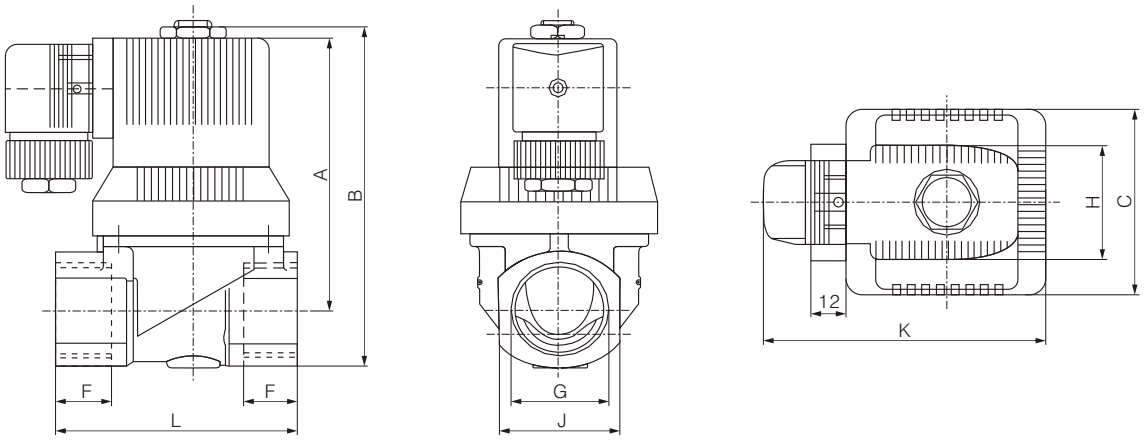
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Product feature

1. Media temperature up to 90℃.
2. Suitable for gas, water, oil, weak acid & alkali.
3. Waterhammer-free design, low noise.
4. Smooth running, high flow.
5. High reliability, long service life.
6. Coil: Encapsulation with thermoset plastics.
7. Electric connector with protection degree of IP65, complying with ISO standard , wide interchangeability.
8. Replace of the solenoid can make the valve explosion-proof.

Note: Specify the voltage and relative frequency for AC.

Dimensions



Model	G	C	F	L	J	A	B	H	K
KL2231015	G1/2"	45	16	52	27	82	96	40	80
KL2231020	G3/4"	45	16	63	31	82	96	40	80
KL2231025	G1"	65	18	82	41	96	117	40	90
KL2231032	G1¼"	96	20	132	58	112	145	40	132
KL2231040	G1½"	96	20	132	58	112	145	40	132
KL2231050	G2"	111	22	160	70	125	166	40	160

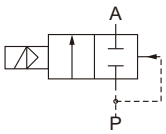
KL523 SERIES
High Temperature And High Pressure Solenoid Valve



Specifications

Model		KL5231008	KL5231010	KL5231015	KL5231020	KL5231025
Orifice size(mm)		13			25	
Port connection		G1/4"	G3/8"	G1/2"	G3/4"	G1"
Operating pressure		0.3~5.0MPa			0.3~3.5MPa	
Ambient temperature		-20~55℃				
Meduim temperature		0~180℃				
Kv value(m^3/h)		3.6			11	
Power consumption	AC(VA)	14				
	DC(W)	8				
Frequency(Hz)		⩾1			⩾0.5	
Power, Voltage		AC: 50Hz 24V, 36V, 110V, 220V DC: 24V, 12V				

Symbol



Ordering code

KL523

Model	
KL223	2/2 Way solenoid valve

10

Port size	
08	G1/4"
10	G3/8"
15	G1/2"
20	G3/4"
25	G1"

Z

Coil form	
Z	EX-proof
NO	Normal open
Blank	Normal close

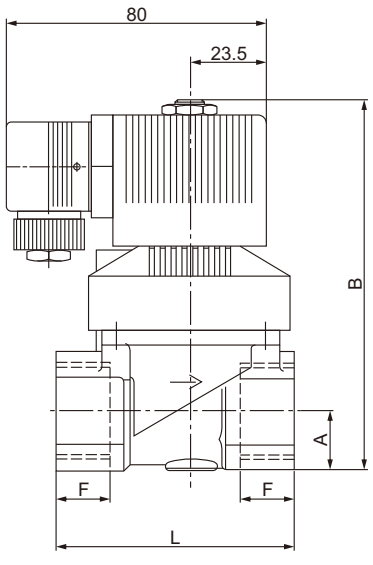
AC220V

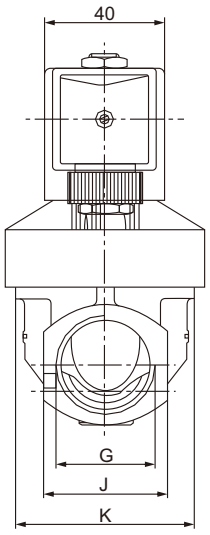
Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Product feature

1. Media temperature up to 180℃.
2. Operating pressure up to 5MPa.
3. Idea for fluid media with kinematic viscosity ⩽1mm2/s, including water, gases, acetylene, liquefied gas.
4. Coil: Encapsulation with thermoset plastics.
   Electric connector with IP65,
   Ambient temperature: -20~55℃.
5. Piston type structure, smooth starting, high reliability.

Dimensions



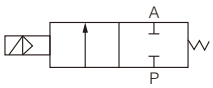


Model	G	F	H	K	L	E	B	A
KL5231008	G1/4"	12	40	34	65	24	97	16
KL5231010	G3/8"	12	40	34	65	24	97	16
KL5231015	G1/2"	12	40	34	65	24	97	16
KL5231020	G3/4"	16	40	60	92	45	124	20
KL5231025	G1"	18	40	60	92	45	124	20

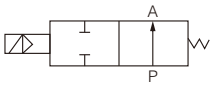




Symbol



0927□□0201

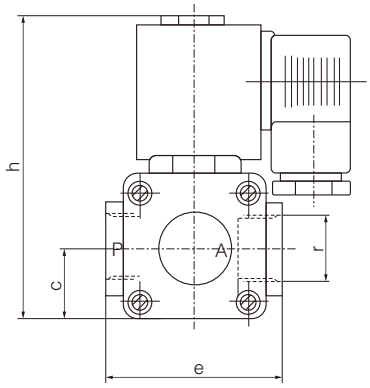


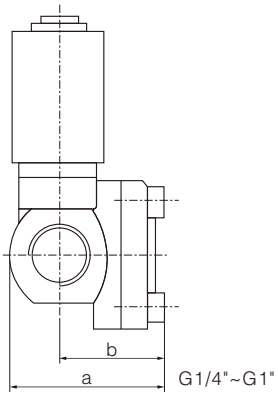
0955□□0201

Product introduction

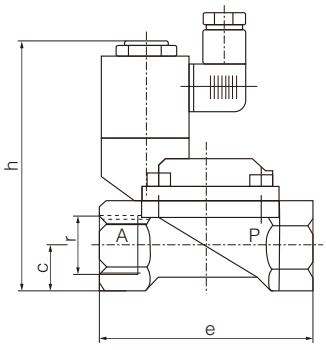
1. 0927 series solenoid valves are normally closed.
2. 0955 series solenoid valves are normally open.
3. Replace the solenoid can make the valves explosion-proof.

Dimensions





G1/4"~G1"



G1¼"~G2"

Specifications

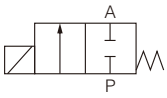
Model	Orifice size (mm)	Operating pressure	Operating temperature	Effective Section(mm²)	Oltage (V)	a	b	c	e	h	r
0927000	8	0.07~1.6MPa	-5~80℃ for NBR, -5~150℃ for VITON, EPDM	20	AC: 220, 110 DC: 24	45	31.5	22	53	97	G1/4"
0955105										114	
0927100	10			40						97	G3/8"
0955205										114	
0927200	12			60						97	G1/2"
0955305										114	
0927300	20			110		65	44	30	86	113	G3/4"
0955405										130	
0927400	25			190						113	G1"
0955505										130	
0927500	32	0.1~1.6MPa		300		95	47	31	132	136	G1¼"
0955605										153	
0927600	40			400						136	G1½"
0955705										153	
0927700	50			500		112	55	39.5	160	155	G2"
0955805										172	







Symbol



Ordering code

PU220 — **06** — **Z** — **NBR** — **AC220V**

Model	
PU220	2/2 Way acting solenoid valve

Port size	
01	G1/8"
02	G1/4"
03	G3/8"
04	G1/2"
06	G3/4"
08	G1"

Coil form	
Z	EX-proof
Blank	IP65 coil
T	Timer

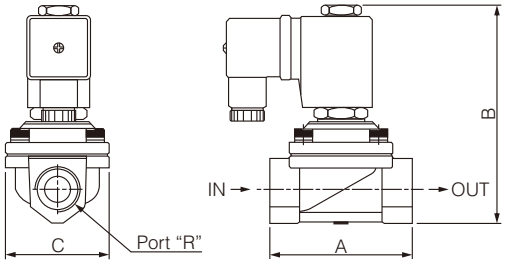
Sealing material	
Blank	NBR
E	EPDM
V	VITON
S	SI

Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Specifications

Model	PU220-01	PU220-02	PU220-03	PU220-03	PU220-04	PU220-06	PU220-08
Port size	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"	G3/4"	G1"
Fluid	Compressed Air, Water, Light oil (Below 50CST)						
Operation	Direct acting						
Material	Brass						
Orifice size(mm)	1.5	2.3	8.0	13.0	13.0	20.0	25.0
Sectional area(mm)	1.8	3.3	20.64	76	76	162	220
Cv value	0.10	0.18	1.00	4.00	4.00	8.60	11.0
Operation-pressure(kg/cm^2)	AC 0~8.5 DC 0~7.0	AC 0~8.5 DC 0~7.0	AC 0~10 DC 0~7.0	AC 0~8.5 DC 0~7.0	AC 0~8.5 DC 0~6.0	AC 0~8.5 DC 0~6.0	AC 0~7.0 DC 0~5.0
Max. pressure	10kgf/cm^2						
Diaphragm type	NBR or VITON, EPDM						
Temperature range	-5~80℃ (NBR) and -5~150℃ (EPDM, VITON)						
Ambient temperature	-20℃~60℃						
Power consumption	22VA						
Duty cycle	100%						
Installation	Horizontal or slant						
Coils type	DIN						
Voltage tolerance	±10%						
Protection degree	IP65						
Insulation	F						
Standard voltage	Standard: DC24, AC220V, AC110V, 50/60HZ Especial: DC12V, DC48V, AC24V, AC380V						

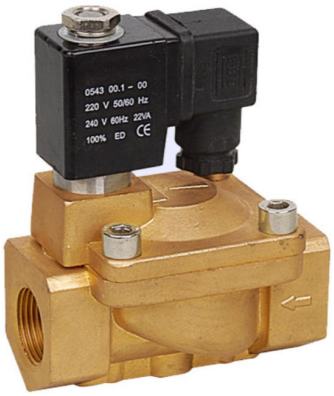
Dimensions



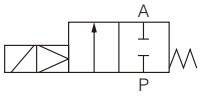
Model	PU220-03	PU220-04	PU220-06	PU220-08
R	G3/8"	G1/2"	G3/4"	G1"
A	66.5	66.5	71.0	96.0
B	101.0	101.0	107.0	120.5
C	48.0	48.0	85.0	70.0



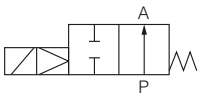




Symbol



PU225
Normally closed



PU225
Normally open

Ordering code

PU225

Model	
PU225	2/2 Way pilot solenoid valve

06

Port size	
03	G3/8"
04	G1/2"
06	G3/4"
08	G1"
12	G1¼"
14	G1½"

Z

Coil form	
Z	EX-proof
Blank	IP65 coil
T	Timer

NBR

Sealing material	
Blank	NBR
E	EPDM
V	VITON
S	SI

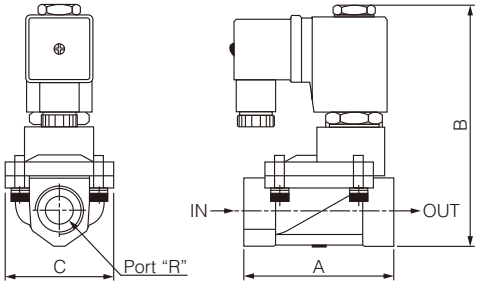
AC220V

Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

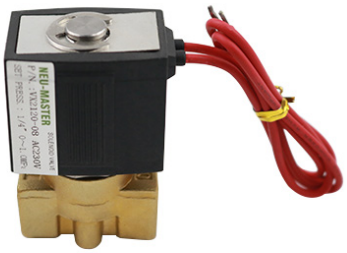
Specifications

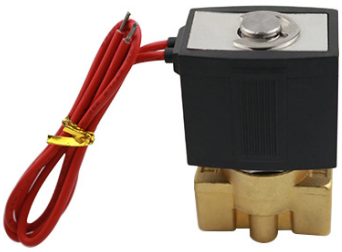
Model	PU225-03	PU225-04	PU225-06	PU225-08	PU225-12	PU225-14
Port size	G3/8"	G1/2"	G3/4"	G1"	G1¼"	G1½"
Fluid	Compressed Air, Water, Light oil (Below 50CST)					
Operation	Pilot operated					
Material	Brass					
Orifice size(mm)	13		25		38	
Sectional area(mm)	88		230		404	552
Cv value	4.50		12.00		22.00	30.00
Operation-pressure(kg/cm^2)	0.5~10kgf/cm^2					
Max. pressure	15kgf/cm^2					
Diaphragm type	NBR or VITON, EPDM					
Temperature range	-5~80℃ (NBR) and -5~150℃ (EPDM, VITON)					
Ambient temperature	-20℃~60℃					
Power consumption	22VA					
Duty cycle	100%					
Installation	Horizontal or slant					
Coils type	DIN					
Voltage tolerance	±10%					
Protection degree	IP65					
Insulation	F					
Standard voltage	Standard: DC24, AC220V, AC110V, 50/60HZ Especial: DC12V, DC48V, AC24V, AC380V					

Dimensions

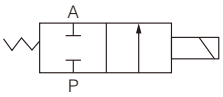


Model	PU225-03	PU225-04	PU225-06	PU225-08	PU225-12	PU225-14
R	G3/8"	G1/2"	G3/4"	G1"	G1¼"	G1½"
A	66.5	66.5	96.0	96.0	131.0	131.0
B	106.5	106.5	126.0	126.0	145.5	145.5
C	48.0	48.0	70.0	70.0	96.0	96.0





Symbol



Ordering code

VX2120

Model	
VX2120	2/2 Way direct acting solenoid valve
VX2130	

06

Port size	
06	G1/8"
08	G1/4"
10	G3/8"
15	G1/2"

NO

Coil form	
Blank	Normal close
NO	Normal open

V

Sealing material	
Blank	NBR
E	EPDM
V	VITON
S	SI

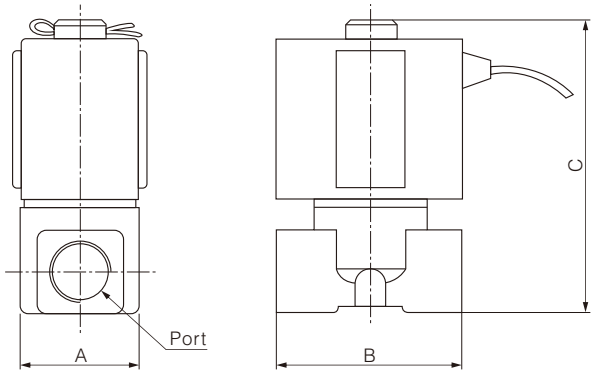
AC220V

Standard voltage	
DC12V	
DC24V	
AC24V	50Hz/60Hz
AC110V	50Hz/60Hz
AC220V	50Hz/60Hz
AC380V	50Hz/60Hz

Specifications

Model	VX2120-06-NO	VX2120-08-NO	VX2120-06	VX2120-08	VX2120-10	VX2130-10	VX2130-15
Working medium	Air, Water, Steam, Gas						
Operation	Direct acting type						
Type	Normal open		Normal close				
Working pressure	0~1.0MPa						
Orifice size (mm)	2mm		3mm		10mm		
Port size	G1/8"	G1/4"	G1/8"	G1/4"	G3/8"	G3/8"	G1/2"
Working temperature range	NBR for -5~80℃ and VITON for -5~150℃						
Sealing material	NBR or VITON						

Dimensions



Model	Port size	A	B	C
VX2120-06-NO	G1/8"	25	40	70
VX2120-08-NO	G1/4"	25	40	70
VX2120-06	G1/8"	25	40	45
VX2120-08	G1/4"	25	40	45
VX2120-10	G3/8"	40	48	80
VX2130-10	G3/8"	40	48	80
VX2130-15	G1/2"	48	48	110







Product feature

1. PT general electron drain valve match analogous circuit solid state electron timer with the solenoid valve to realize discharging the condensed water of compressed pneumatic system at fixed time automatically.
2. PT electron drain valve widely be applied in compressed pneumatic system parts like filter, separator, dryer machine, gas tank, water drop foot and so on. Discharge time and interval time can be carried on adjustment according to different requirements.

Product characteristic

1. High quality, low cost.
2. One kind of model suits all applications, simple installment, completely automatic, exempts maintains.
3. Interval time and discharge time can be adjustable and have test buttons.
4. Pressure 16Bar, 40Bar, 80Bar. Many kinds of voltages and connections to be chose.
5. Entire stainless steel valve, explosion-proof valve to be chose.
6. CE authentication, protection rank IP65, insulation grade H level.
7. 5.0mm large latus rectum direct-acting valve, fluorine rubber seal.
8. Match ball valve filter, fission with drain valve, assumed L structure.
9. External dimensions: 112×44×90mm, weight 600g.

Specifications

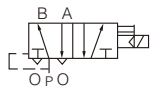
Timer	PT-A
Interval time (OFF)	0.5 to 45 minutes, adjustable
Discharge time (ON)	0.5 to 10 seconds, adjustable
Manual test switch	Micro switch
Supply voltage	24~240V AC/DC 50/60Hz (380VAC can be offered) / 12~380 VAC/DC 50/60Hz
Current consumption	4mA Maximum
Environmental protection	-40℃~+60℃
Operating temperature	IP65 IP65, NEMA4
Housing material	ABS Plastic
Connection	DIN 43650 - A/ISO 4400
Indicators	1 LED (Yellow), Indicating ON/OFF
Design Standards	VDE 01 10C

Valve	PT-16, PT-40, PT-80
Type	2/2-way direct acting
In/Out ports	1/4", 3/8", 1/2"
Max. working pressure	16Bar, 40Bar, 80Bar
Min./Max. temperature	2℃/55℃
Max.Media temperature	Max. 90℃
Valve seals	FPM (Viton) seals forged brass, 4.5 mm orifice
Insulation	Thermal group H (200℃)
Operating temperature	IP65, NEMA4
Environmental protection	24~230V AC/DC (380VAC can be offered) / 12 ~380VAC/DC 50/60Hz
Voltage options	±10%
Mountable in any position	Random



Symbol

Q24DH-□



Q24D2H-□



Ordering code

Q24	D	H	8
Model	Control mode	Structure mode	Port size

Model

Q24	Two position four way sliding column type reversing valve

Control mode

D	Single electronic control
D2	Double electronic control
Q	Single air control
Q2	Double air control

Structure mode

H	Sliding column type

Port size

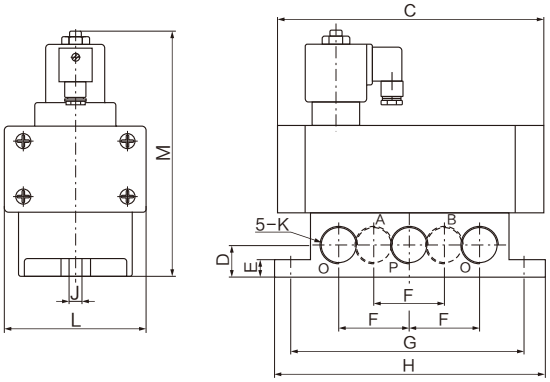
6	G1/8"(M10×1)
8	G1/4"(M12×1.25)
10	G3/8"(M16×1.5)
15	G1/2"(M20×1.5)

Specifications

Model	Q24DH-6 Q24D2H-6	Q24QH-6 Q24Q2H-6	Q24DH-8 Q24D2H-8	Q24QH-8 Q24Q2H-8	Q24DH-10 Q24D2H-10	Q24QH-10 Q24Q2H-10	Q24DH-15 Q24D2H-15	Q24QH-15 Q24Q2H-15
Nominal diameter (mm)	6		8		10		20	
Working pressure range	0.2~1.8MPa							
Commutation time (s)	0.1							
Ambient temperature	-5~55℃							
Medium temperature	0~5℃							
Supply voltage	Electronic control AC: 220V, 36V DC: 48V, 24V, 12V Voltage fluctuation allowed for the rated value +10%~-15% Air control without this parameter							
Life (1000 times)	⩾1500							

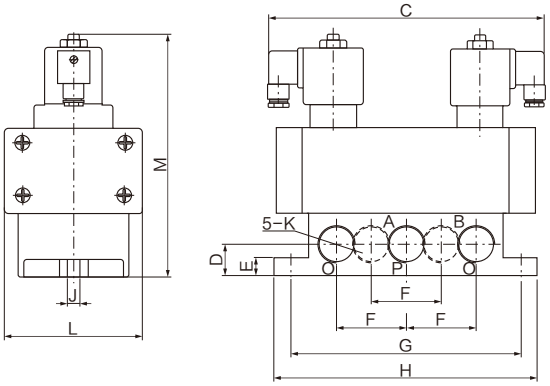
Dimensions

Q24DH-□



Model	Port size	C	D	E	F	G	H	M	J	L
Q24DH-6 Square head	G1/8"	129	12	10	24	94	115	126	9	50
Q24DH-8 Square head	G1/4"									
Q24DH-10 Square head	G3/8"	164	17	12	36	132	156	160	9	60
Q24DH-15 Square head	G1/2"									
Q24DH-6 Round head	G1/8"	133	12	10	24	94	115	131	9	50
Q24DH-8 Round head	G1/4"									
Q24DH-10 Round head	G3/8"	176	17	12	36	202	156	153	9	60
Q24DH-15 Round head	G1/2"									

Q24D2H-□



Model	Port size	C	D	E	F	G	H	M	J	L
Q24D2H-6 Square head	G1/8"	161	12	10	24	94	115	126	9	50
Q24D2H-8 Square head	G1/4"									
Q24D2H-10 Square head	G3/8"	170	17	12	36	132	156	160	9	60
Q24D2H-15 Square head	G1/2"									
Q24D2H-6 Round head	G1/8"	133	12	10	24	94	115	131	9	50
Q24D2H-8 Round head	G1/4"									
Q24D2H-10 Round head	G3/8"	176	17	12	36	202	156	153	9	60
Q24D2H-15 Round head	G1/2"									

K23J$^{D}_{Q}$ Series
Cut-off Type Reversing Valve(Joint Design Type)





Symbol



Product feature

Product structure as cut-off type, Strong dust resistance.

Ordering code

K23J — **Model**

K23J	Two position three way cut-off type reversing valve

D — **Control mode**

D_2	Double electronic control
Q_2	Double air control

8 — **Port size**

6	G1/8"(M10×1)
8	G1/4"(M12×1.25)
10	G3/8"(M16×1.5)
15	G1/2"(M20×1.5)
20	G3/4"(M27×2)
25	G1"(M33×2)
32	G1¼"(M42×2)
40	G1½"(M48×2)
50	G2"(M60×2)

T — **Initial state**

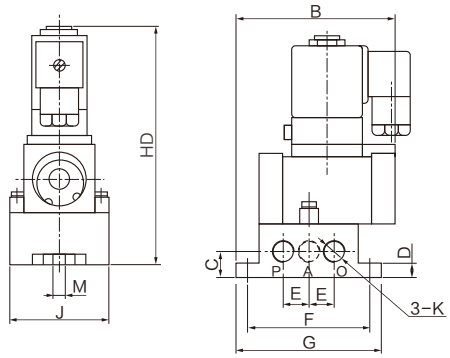
Blank	Normal close
T	Normal open

Specifications

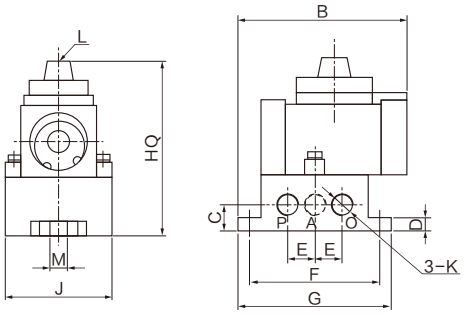
Model	K23JD-6 K23JD-6T K23JQ-6 K23JQ-6T	K23JD-8 K23JD-8T K23JQ-8 K23JQ-8T	K23JD-10 K23JD-10T K23JQ-10 K23JQ-10T	K23JD-15 K23JD-15T K23JQ-15 K23JQ-15T	K23JD-20 K23JD-20T K23JQ-20 K23JQ-20T	K23JD-25 K23JD-25T K23JQ-25 K23JQ-25T	K23JD-F32 K23JD-F32T K23JQ-F32 K23JQ-F32T	K23JD-F40 K23JD-F40T K23JQ-F40 K23JQ-F40T	K23JD-F50 K23JD-F50T K23JQ-F50 K23JQ-F50T
Nominal diameter (mm)	6	8	10	15	20	25	32	40	50
Working pressure range	0.15~0.8MPa								
Amount of leakage (cm^3/min)	⩽10	⩽10	⩽25	⩽25	⩽50	⩽50	⩽70	⩽70	⩽70
Commutation time (s)	⩽0.04	⩽0.04	⩽0.06	⩽0.06	⩽0.1	⩽0.1	⩽0.15	⩽0.15	⩽0.2
Commutation frequency (Hz)	⩾10	⩾10	⩾8	⩾8	⩾4	⩾4	⩾3	⩾3	⩾2
Ambient temperature	-10~55℃								
Medium temperature	-5~50℃								
Circulation capacity S value (mm^2)	⩾10	⩾20	⩾40	⩾60	⩾120	⩾190	⩾300	⩾400	⩾650
Life (1000 times)	AC: 220V, 36V DC: 48V, 24V, 12V Voltage fluctuation allowed for the rated value +10%~-15% Air control without this parameter								
Supply voltage	⩾1500								

Dimensions

K23JD-□



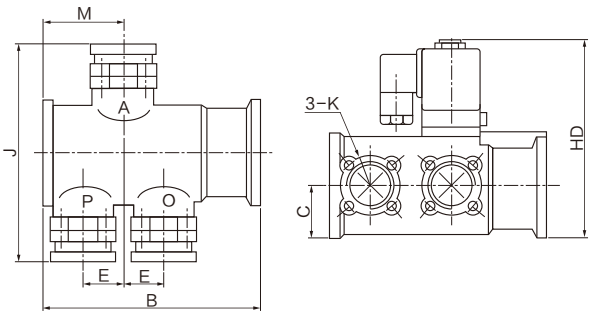
K23JQ-□



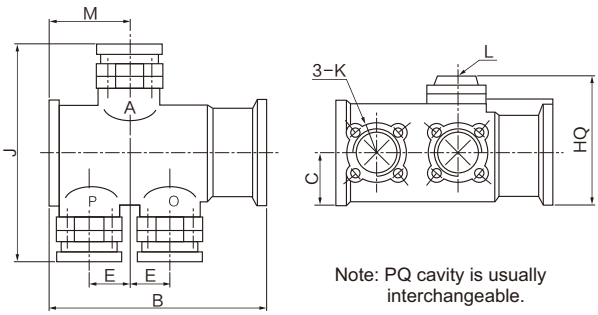
Note: PQ cavity is usually interchangeable.

Model	Port size	B	C	D	E	F	G	HD	HQ	M	J	L
K23JD-6□	G1/8"(M10×1)	90	14	7	14	68	80	134	91	7	56	G1/8
K23JQ-6□												
K23JD-8□	G1/4"(M12×1.25)											
K23JQ-8□												
K23JD-10□	G3/8"(M16×1.5)	125	19	10	19	86	100	155	111	7	64	
K23JQ-10□												
K23JD-15□	G1/2"(M20×1.5)											
K23JQ-15□												
K23JD-20□	G3/4"(M27×2)	180	30	30	30	130	162	218	149	11	100	
K23JQ-20□												
K23JD-25□	G1"(M33×2)											
K23JQ-25□												

K23JD-□



K23JQ-□



Note: PQ cavity is usually interchangeable.

Model	Port size	B	C	E	HD	HQ	J	L	M
K23JD-F32□	G1¼"(M42×2)	215	52.5	40	197	130.5	218	G1/8	80
K23JQ-F32□									
K23JD-F40□	G1½"(M48×2)	215	52.5	40	197	130.5	218		80
K23JQ-F40□									
K23JD-F50□	G2"(M60×2)	265	65	45	222	155	258		101
K23JQ-F50□									

K25J$^{D}_{Q}$Series
Cut-off Type Reversing Valve(Joint Design Type)



Symbol



Ordering code

K25J — **D** — **8**

Model

K25J	Two position five way cut-off type reversing valve

Control mode

D	Single electronic control
Q	Single air control

Port size

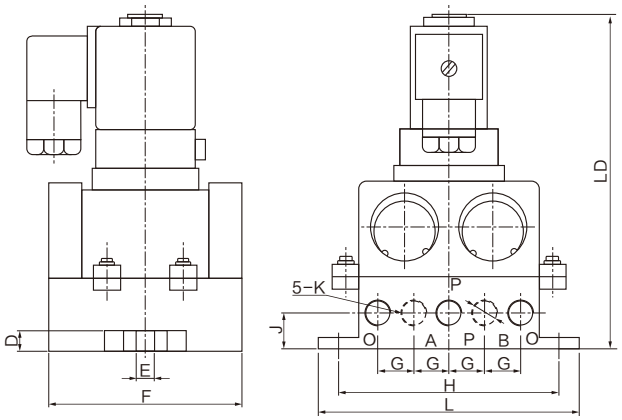
6	G1/8"
8	G1/4"
10	G3/8"
15	G1/2"
20	G3/4"
25	G1"

Specifications

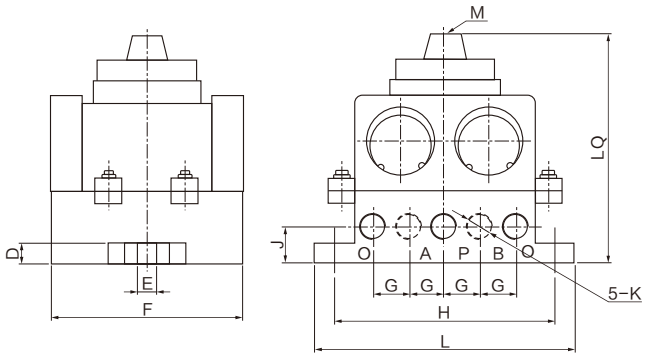
Model	K25JD-6 K25JQ-6	K25JD-8 K25JQ-8	K25JD-10 K25JQ-10	K25JD-15 K25JQ-15	K25JD-20 K25JQ-20	K25JD-25 K25JQ-25
Nominal diameter (mm)	6	8	10	15	20	25
Working pressure range	0.15~0.8MPa					
Amount of leakage (cm^3/min)	⩽10		⩽25		⩽50	
Commutation time (s)	⩽0.06		⩽0.08		⩽0.12	
Commutation frequency (Hz)	⩾10		⩾8		⩾5	
Ambient temperature	-10~55℃					
Medium temperature	-5~50℃					
Circulation capacity S value (mm^2)	⩾10	⩾20	⩾40	⩾60	⩾120	⩾190
Supply voltage	AC: 220V, 110V, 36V DC: 48V, 24V, 12V Voltage fluctuation allowed for the rated value +10%~-15% Air control without this parameter					
Control pressure	⩾0.2MPa					
Life (1000 times)	⩾1500					

Dimensions

K25JD



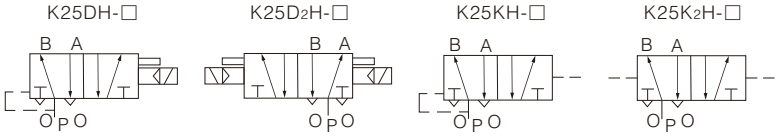
K25JQ



Model	Port size	D	E	F	G	H	L	J	LD	LQ	M
K25JD-6	G1/8"(M10×1)	8	7	75	14	85	102	14	136	90	G1/8
K25JQ-6											
K25JD-8	G1/4"(M12×1.25)	6				90					
K25JQ-8											
K25JD-10	G3/8"(M16×1.25)	12	10	108	19	116	138	19	151	100	
K25JQ-10											
K25JD-15	G1/2"(M20×1.5)	10				120					
K25JQ-15											
K25JD-20	G3/4"(M20×1.5)	12	13	160	30	180	208	30	220	150	
K25JQ-20											
K25JD-25	G1"(M33×2)										
K25JQ-25											



Symbol



Ordering code

K25 — Model

K25	Two position five way sliding column type reversing valve

D — Control mode

D	Single electronic control
D2	Double electronic control
K	Single air control
K2	Double air control

H — Structure mode

H	Sliding column type

8 — Port size

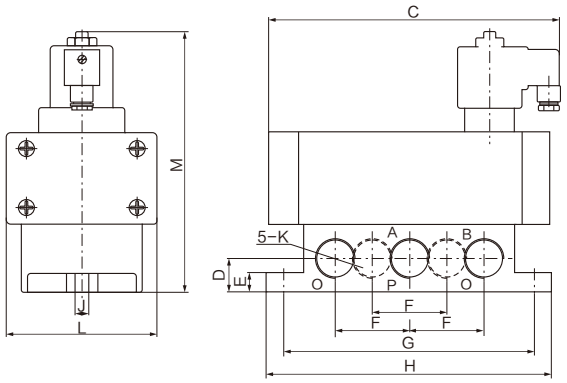
6	G1/8"(M10×1)
8	G1/4"(M12×1.25)
10	G3/8"(M16×1.5)
15	G1/2"(M20×1.5)
20	G3/4"(M27×2)
25	G1"(M33×2)
32	G1¼"(M42×2)
40	G1½"(M48×2)
50	G2"(M60×2)

Specifications

Model	K25DH-6 K25D2H-6 K25KH-6 K25K2H-6	K25DH-8 K25D2H-8 K25KH-8 K25K2H-8	K25DH-10 K25D2H-10 K25KH-10 K25K2H-10	K25DH-15 K25D2H-15 K25KH-15 K25K2H-15	K25DH-20 K25D2H-20 K25KH-20 K25K2H-20	K25DH-25 K25D2H-25 K25KH-25 K25K2H-25
Working pressure range	0.15~0.8MPa					
Medium temperature	0~55℃					
Ambient temperature	-5~50℃					
Supply voltage	AC: 220V, 110V, 36V DC: 24V, 12V Air control without this parameter					
Life (1000 times)	⩾1500					
Working medium	Through purification, compressed air containing lubricating oil					
Nominal diameter (mm)	6	8	10	15	20	25
Circulation capacity S value (mm^2)	10	20	40	60	120	190
Commutation time (s)	⩽0.06		⩽0.08		⩽0.12	
Commutation frequency (Hz)	⩾10		⩾8		⩾5	
Amount of leakage (cm^3/min)	⩽10		⩽25		⩽50	

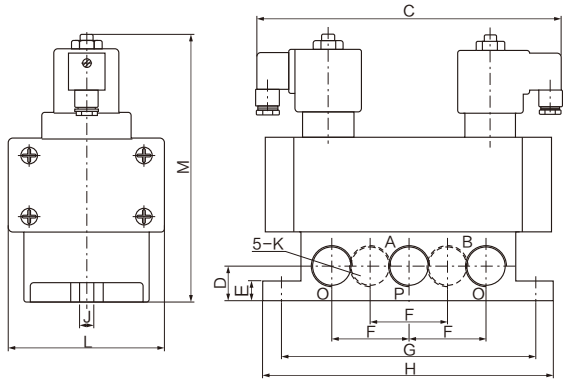
Dimensions

K25DH-□



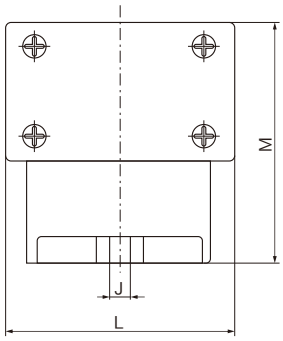
Model	Port size	C	D	E	F	G	H	I	J	L
K25DH-6	G1/8"(M10×1)	145	14	10	28	112	130	130	9	56
K25DH-8	G1/4"(M12×1.25)									
K25DH-10	G3/8"(M16×1.5)	163	19	14	38	148	164	165	9	74
K25DH-15	G1/2"(M20×1.5)									
K25DH-20	G3/4"(M27×2)	241	15	15	60	202	234	210	11	112
K25DH-25	G1"(M33×2)									
K25DH-32	G1¼"(M42×2)	360	46	18	96	303	340	260	13	166
K25DH-40	G1½"(M48×2)									
K25DH-50	G2"(M60×2)									

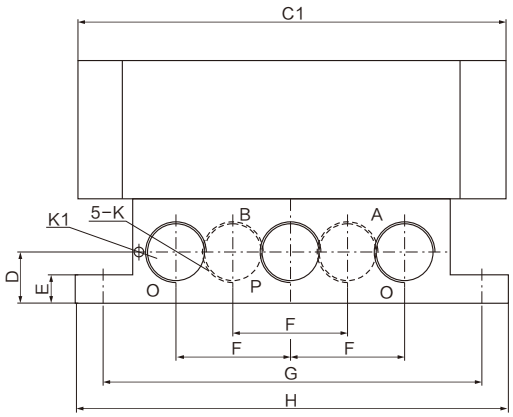
K25D2H-□



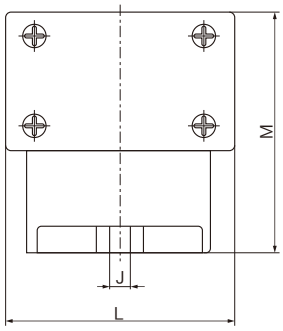
Model	Port size	C	D	E	F	G	H	I	J	L
K25D2H-6	G1/8"(M10×1)	160	14	10	28	112	130	130	9	56
K25D2H-8	G1/4"(M12×1.25)									
K25D2H-10	G3/8"(M16×1.5)	171	19	14	38	146	164	165	9	74
K25D2H-15	G1/2"(M20×1.5)									
K25D2H-20	G3/4"(M27×2)	230	25	15	60	202	234	210	11	112
K25D2H-25	G1"(M33×2)									
K25D2H-32	G1¼"(M42×2)	345	46	18	96	303	340	260	13	166
K25D2H-40	G1½"(M48×2)									
K25D2H-50	G2"(M60×2)									

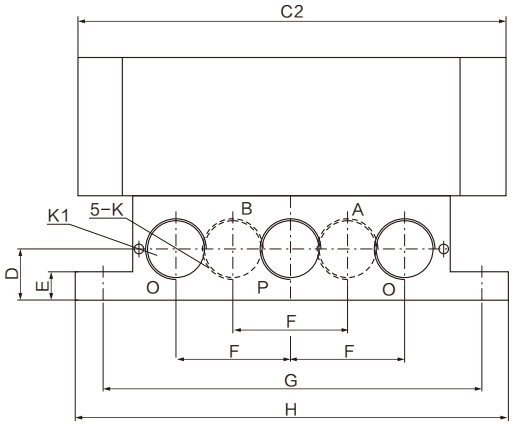
K25KH-□





K25K2H-□



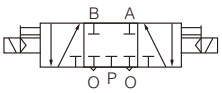


Model	Port size	C1	C2	D	E	F	G	H	M	J	L	K1
K25KH-6	G1/8"(M10×1)	130	130	14	10	28	112	130	66	9	56	M10×1
K25KH-8												
K25K2H-8	G1/4"(M12×1.25)											
K25KH-10	G3/8"(M16×1.5)	161	170	19	14	38	146	164	89.5	9	74	
K25K2H-10												
K25KH-15	G1/2"(M20×1.5)											
K25K2H-15												
K25KH-20	G3/4"(M27×2)	230	241	125	15	60	202	234	128	11	112	
K25K2H-20												
K25KH-25	G1"(M33×2)											
K25K2H-25												



Symbol

K35D$_2$H-□



K35D$_2$H-□P



K35D$_2$H-□Y



Product feature

The product structure is sliding column type with low aerodynamic pressure and sensitive commutation. It is suitable for pneumatic control holes with cylinders in the middle position. There are three intermediate states: medium seal type, medium vent type, medium pressure type.

Ordering code

K35 — **Model**

K35	Three position five way sliding column type reversing valve

D — **Control mode**

D$_2$	Double electronic control
K$_2$	Double air control

H — **Structure mode**

H	Sliding column type

8 — **Port size**

6	G1/8"(M10×1)
8	G1/4"(M12×1.25)
10	G3/8"(M16×1.5)
15	G1/2"(M20×1.5)
20	G3/4"(M27×2)
25	G1"(M33×2)

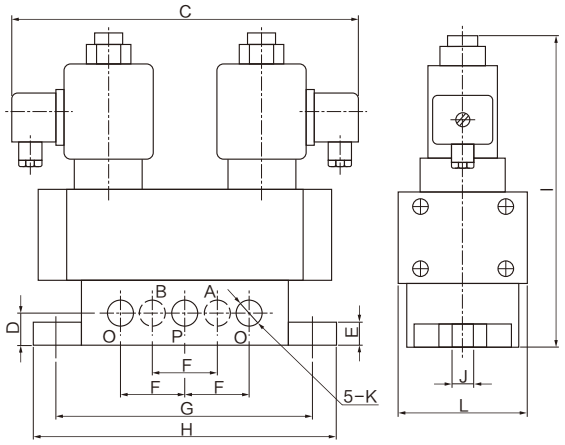
□ — **Valve type**

Blank	Medium seal type
Y	Medium vent type
P	Medium pressure type

Specifications

Model	6 K35$^{D_2}_{Q_2}$H-6Y 6P	8 K35$^{D_2}_{Q_2}$H-8Y 8P	10 K35$^{D_2}_{Q_2}$H-10Y 10P	15 K35$^{D_2}_{Q_2}$H-15Y 15P	20 K35$^{D_2}_{Q_2}$H-20Y 20P	25 K35$^{D_2}_{Q_2}$H-25Y 25P
Nominal diameter (mm)	6	8	10	15	20	25
Working pressure range	0.2~0.8MPa				0.15~0.8MPa	
Amount of leakage (cm^3/min)	50		120		250	
Commutation time (s)	≤0.06		≤0.08		≤0.12	
Commutation frequency (Hz)	≥8		≥6		≥4	
Ambient temperature	-5~50℃					
Medium temperature	-5~50℃					
Circulation capacity S value (mm^2)	10	20	40	60	120	190
Life (1000 times)	≥1500					
Supply voltage	Electronic control: AC: 220V, 110V, 36V; DC: 48V, 24V, 12V Voltage fluctuation allowed for the rated value +10%~-15% Air control without this parameter					
Electromagnetic pilot valve nominal diameter (mm)	1.2		2		3	

Dimensions



Model	Port size	C	D	E	F	G	H	I	J	L
K35D$_2$H-6□	G1/8"(M10×1)	153	14	10	28	112	130	136	9	56
K35D$_2$H-8□	G1/4"(M12×1.25)									
K35D$_2$H-10□	G3/8"(M15×1.5)	184	19	14	38	143	164	139	9	74
K35D$_2$H-15□	G1/2"(M20×1.5)									
K35D$_2$H-20□	G3/4"(M27×2)	254	25	15	60	202	234	229	11	112
K35D$_2$H-25□	G1"(M33×2)									

K23JD Series
Cut-off Type Reversing Valve(Wuxi Type)



Symbol



Ordering code

K23J **D** **8** **T** **W**

Model

K23J	Two position three way cut-off type reversing valve

Control mode

D	Single electronic control

Port size

8	G1/4"
10	G3/8"
15	G1/2"
20	G3/4"
25	G1"
32	G1¼"
40	G1½"

Initial state

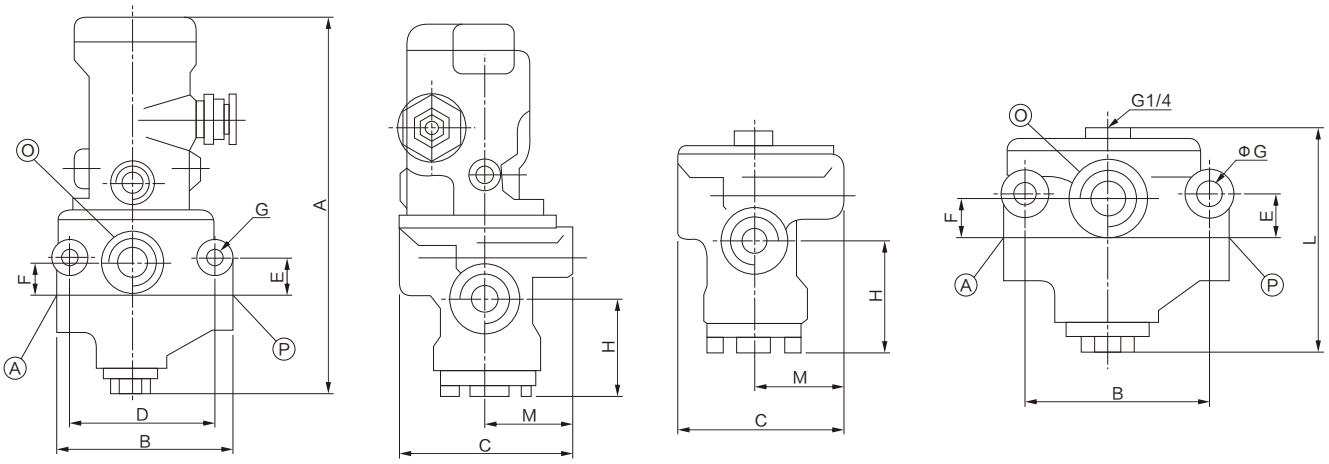
Blank	Normal close
T	Normal open

Wuxi type

Specifications

Model	K23J-8W	K23J-10W	K23J-15W	K23J-20W	K23J-25W	K23J-32W	K23J-40W
Nominal diameter (mm)	8	10	15	20	25	32	40
Circulation capacity S value (mm^2)	20	35	60	120	190	300	400
Working pressure range	0.2~0.8MPa						
Commutation time (s)	≤0.04	≤0.06		≤0.10		≤0.15	
Commutation frequency (Hz)	≥10	≥8		≥4		≥3	
Amount of leakage (cm^3/min)	≤50	≤100		≤200		≤300	
Supply voltage	AC: 380V, 220V, 110V, 36V; DC: 220V, 110V, 24V						
Ambient temperature	-5~50℃						

Dimensions

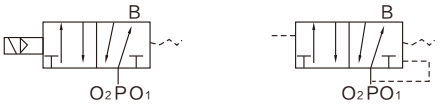


Model	Nominal diameter (mm)	Port size	A	B	C	D	E	F	ΦG	H	M	L	O
K23JD-8W, K23JD-8TW	Φ8	G1/4"	180	96	78	73	17	16.5	9	45	39	85	G1/2"
K23JD-10W, K23JD-10TW	Φ10	G3/8"											
K23JD-15W, K23JD-15W	Φ15	G1/2"											
K23JD-20W, K23JD-20TW	Φ20	G3/4"	195	113	89	82	24	21	9	52	38	105	G1"
K23JD-25W, K23JD-25TW	Φ25	G1"											
K23JD-32W, K23JD-32TW	Φ32	G1¼"	240	165	121	118	37	46	13	75	46	170	G1½"
K23JD-40W, K23JD-40TW	Φ40	G1½"											

K25JD Series
Cut-off Type Reversing Valve(Wuxi Type)



Symbol



Ordering code

K25J D 8 T W

Model

K25J	Two position five way cut-off type reversing valve

Control mode

D	Single electronic control

Port size

8	G1/4"(M12×1.25)
10	G3/8"(M16×1.5)
15	G1/2"(M20×1.5)
20	G3/4"(M27×2)
25	G1"(M33×2)
32	G1¼"(M42×2)
40	G1½"(M48×2)

Initial state

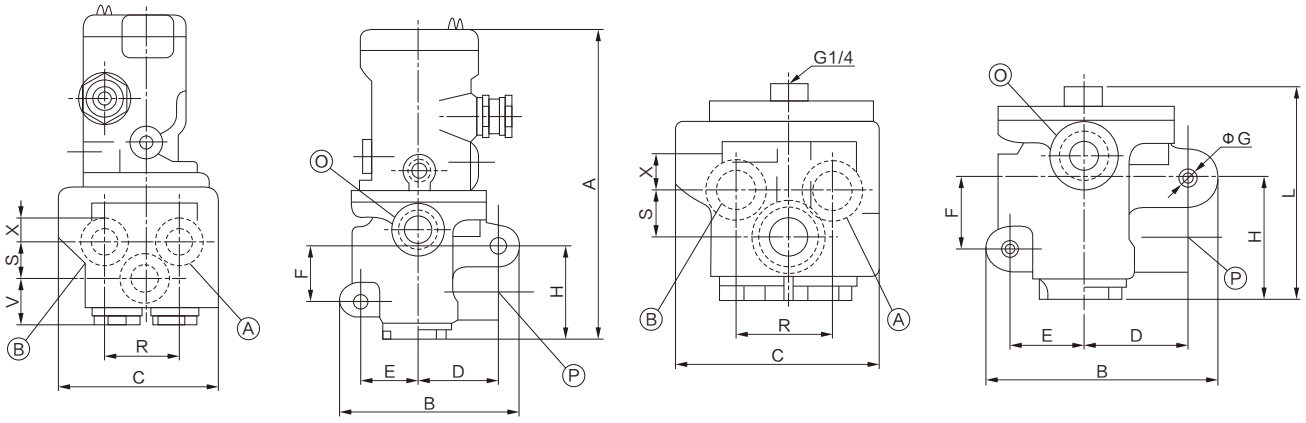
Blank	Normal close
T	Normal open

Wuxi type

Specifications

Model	K25JD-8W	K25JD-10W	K25JD-15W	K25JD-20W	K25JD-25W	K25JD-32W	K25JD-40W
Nominal diameter (mm)	8	10	15	20	25	32	40
Circulation capacity S value (mm^2)	20	35	60	120	190	300	400
Amount of leakage (cm^3/min)	≤50	≤100		≤200		≤300	
Commutation time (s)	≤0.04	≤0.06		≤0.10		≤0.15	
Commutation frequency (Hz)	≥10	≥8		≥4		≥3	
Maximum use pressure	1.00MPa						
Minimum control pressure	0.3MPa						
Minimum working pressure	0.2MPa						
Supply voltage	AC: 380V, 220V, 110V, 36V; DC: 220V, 110V, 24V						
Working temperature	-5~50℃						
Life (1000 times)	≥1500						≥500

Dimensions

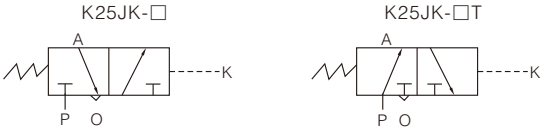


Model	Nominal diameter (mm)	Port size	A	B	C	D	E	F	G	H	R	S	X	V	L	O
K25JD-15W	Φ8	G1/4"	180	99	94	45	32	31	10	55	44	19	16	28	90	G1/2
	Φ10	G3/8"														
	Φ15	G1/2"														
K25JD-25W	Φ20	G3/4"	222	127	142	52	47	52	10	78	58	21	19	42	132	G1
	Φ25	G1"														
K25JD-40W	Φ32	G1¼"	285	155	220	69	55	117	10	140	80	36	35	52	187	G2
	Φ40	G1½"														

K25JK Series
Cut-off Type Reversing Valve(Wuxi Type)



Symbol



Ordering code

K25J **K** **F** **8** **T** **W**

Model

K25J	Two position five way cut-off type reversing valve

Control mode

K	Single air control

Connection form

Blank	Flange type
F	Plate connection type

Port size

6	G1/8"
8	G1/4"
10	G3/8"
15	G1/2"
20	G3/4"
25	G1"
32	G1¼"
40	G1½"

Initial state

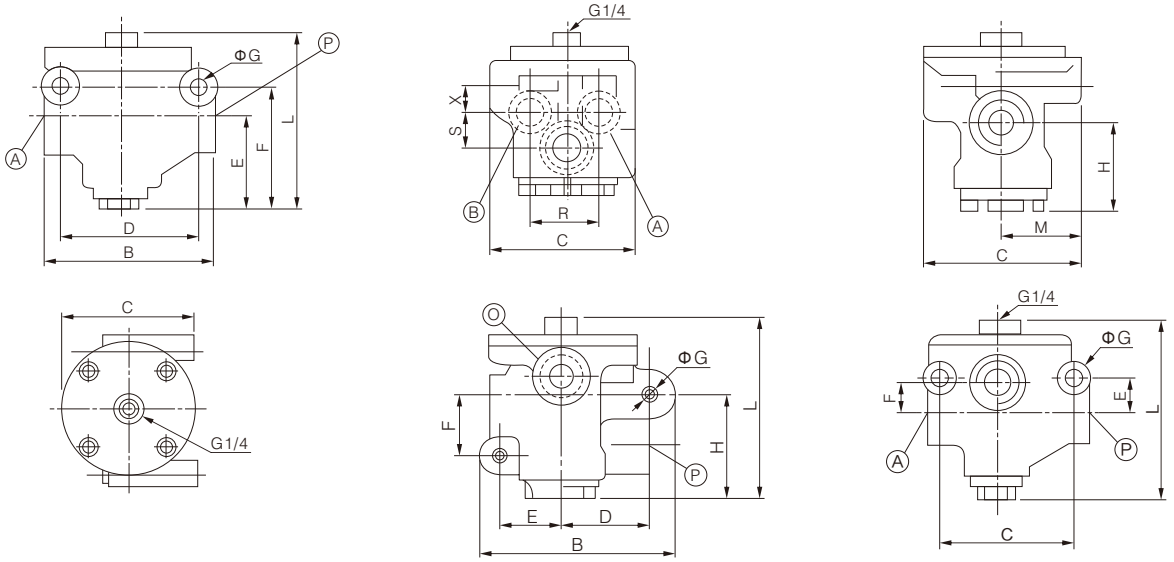
Blank	Normal close
T	Normal open

Wuxi type

Specifications

Model	K25JK-6W	K25JK-8W	K25JK-10W	K25JK-15W	K25JK-20W	K25JK-25W	K25JK-32W	K25JK-40W
Nominal diameter (mm)	6	8	10	15	20	25	32	40
Effective section area(mm^2)	10	20	40	60	110	190	300	400
Working pressure range	0.2~0.8MPa							
Minimum control pressure	0.3MPa							
Commutation time (s)	0.04		0.06		0.1		0.15	0.2
Minimum working frequency (Hz)	1/30							
Life (1000 times)	⩾1500							

Dimensions



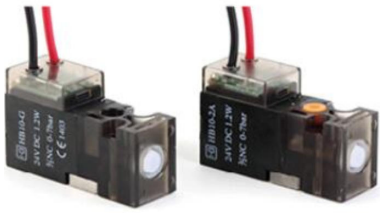
Model	L	L1	L2	B	H	H1	H2	d	d1	d2
K25JK-6W	60	50	33	55	75	58	18	G1/8"	5.5	G1/8"
K25JK-8W								G1/4"		
K25JK-10W	92	72	51	77	104	70	17	G3/8"	9	
K25JK-15W								G1/2"		
K25JK-20W	117	82	57	94	97	66	23	G3/4"		
K25JK-25W								G1"		
K25JK-32W	170	117	72	130	176.2	116.7	38	G1¼"	13	
K25JK-40W								G1½"		



HB10-2AL Series

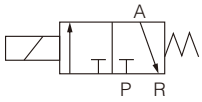


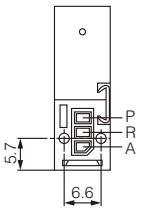
HB10-2AM Series



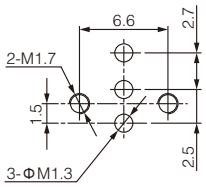
HB10-2AG Series

Symbol





Hole bitmap



Ordering code

HB10 — **1** — **A** — **L** — **H** — **P** — **1** — □

Model		Power		Voltage		Connection mode		Manual rod	
HB10	Miniature solenoid valve	1	1.2W	A	DC24V	L	Vertical type	H	With manual lever
		2	0.8W	B	DC12V	M	Straight line type	E	Without manual lever
		3	0.3W	C	AC110V	G	Lead wire type		
				D	AC220V				
				E	DC5V				
				F	DC6V				

Circuit board Specifications	
P	With LED light(Without +/-)
D	Without LED light
S	With LED light & Surge kiler(With +/-)

wiring Specifications	
1	Line length 300mm
2	Selects the line length

Confluence board	
01	1 Stations
02	2 Stations
03	3 Stations
.....	

Note: if you have any special requirements, please contact our company.

Common specification

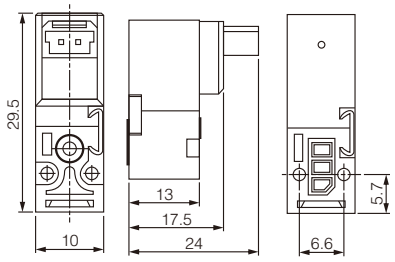
Model	HB10
Type	3/2 Often closed
Using fluid	Air, inertgases
Nvironment and fluid temperature	-10℃~+75℃ Non freezing
Working pressure	0~7 Bar
Valve orifice size	Φ0.7mm (Φ1.0mm)
P→A	cv: 0.008
	b: 0.11
A→R	cv: 0.015
	b: 0.35
Oil	No need

Electromagnetic Coil Specification

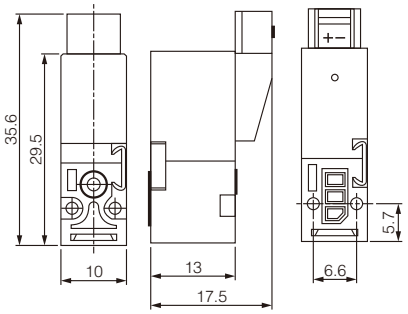
Wire leads	Vertical type (L type) Straight line type (M type) Lead wire type (G type)
Standard voltage	DC24V/12V
Allows voltage fluctuation	±15%
Power	1.2W/0.3W
Insulation class	H
Service life	>150 million times
Instruction light	LED
Operating frequency	>30Hz
Response time	6~8ms
Protective structures	Dust-proof

Dimensions

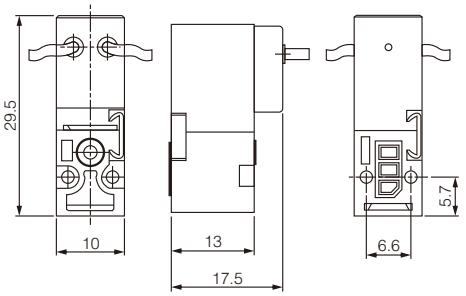
HB10-2AL



HB10-2AM



HB10-2AG



PV100 Series
Angle Seat Valve(Piston Valve/Threaded Ends)



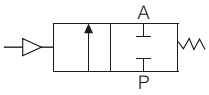
Product feature

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

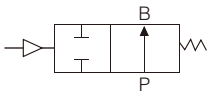
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

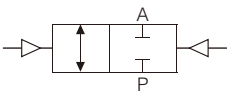
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV100 P 015 NC □ S × 63mm

Model

PV100	100 Seires angle seat valve

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

10	G3/8"	40	G1½"
15	G1/2"	50	G2"
20	G3/4"	65	G2½"
25	G1"	80	G3"
32	G1¼"		

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

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, applicable to different working temperature:
2/2 Way stainless steel valve with big flow capacity V type seals ensure reliable and effective sealing.
Maintenence free, compatible with various accessories,
Direction indicating, stroke limiting or manual switching can be achieved 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		G3/8"	G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"	G3"
Nominal diameter (mm)		13	13	18	24	31	35	45	61	80
Kv (m^3/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		Downsteam/Upsteam								

Pressure data sheet

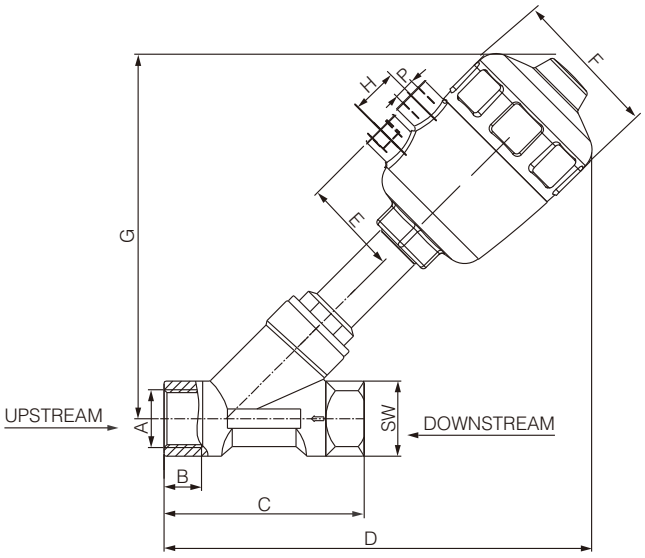
Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	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 comes off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer comes 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 canse 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.

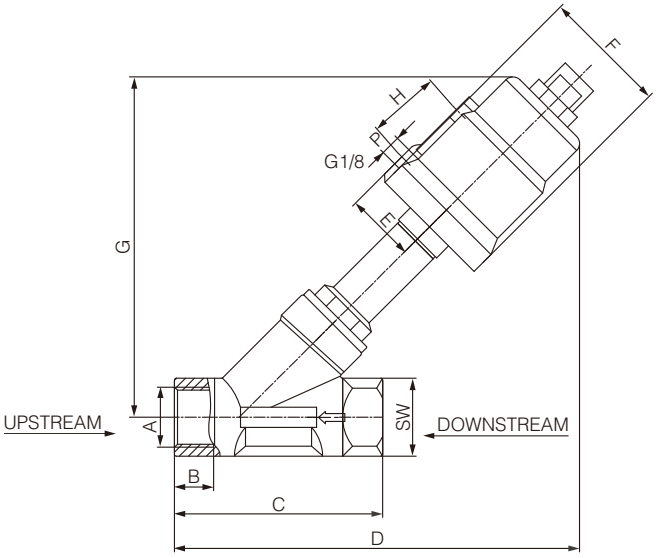
Port size	DN (mm)	Actuator (mm)	Single acting normally closed				Double acting normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range 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 07	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	G3/8	12	65	142	30	53	85	20	G1/8	25
		50	G3/8	12	65	145	44	64	100	24	G1/4	25
1/2"	DN15	40	G1/2	14	76	162	30	53	115	20	G1/8	28
		50	G1/2	14	76	168	44	64	115	24	G1/4	28
3/4"	DN20	50	G3/4	16	92	175	44	64	131	24	G1/4	32
		63	G3/4									
1"	DN25	50	G1	21	103	186	44	64	138	24	G1/4	39
		63	G1	21	103	218	54	79.5	166	24	G1/4	39
1-1/4	DN32	63	G1-1/4	19	112	228	54	79.5	172	24	G1/4	49
1-1/2	DN40	63	G1-1/2	21	129	232	54	79.5	174	24	G1/4	56
2"	DN50	63	G2	27	143	252	54	79.5	193	24	G1/4	68
		80	G2	27	143	263	62	101	202	24	G1/4	68
2-1/2"	DN65	80	G2-1/2	28	186	280	62	101	209	24	G1/4	84
3"	DN80	100	G3	34	218	355	71	125	268	30	G1/4	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	G3/8	12	65	144	28	53	105	38	G1/8	25
		50	G3/8	12	65	//	35	56	//	38	G1/8	25
1/2"	DN15	40	G1/2	14	76	157	28	53	113	38	G1/8	28
		50	G1/2	14	76	182	35	56	142	38	G1/8	28
3/4"	DN20	50	G3/4	16	92	189	35	56	152	38	G1/8	32
		63	G3/4	16	92		43	70		44	G1/8	32
1"	DN25	50	G1	21	103	207	35	56	155	38	G1/8	39
		63	G1	21	103	217	43	70	176	44	G1/8	39
1-1/4	DN32	63	G1-1/4	19	112	222	43	70	177	44	G1/8	49
1-1/2	DN40	63	G1-1/2	21	129	225	43	70	182	44	G1/8	56
2"	DN50	63	G2	27	143	249	43	70	196	44	G1/8	68
		90	G2	27	143	268	56	94	206	67	G1/4	68
2-1/2"	DN65	90	G2-1/2	28	186	290	56	94	215	67	G1/4	84
3"	DN80	125	G3	34	218	335	73	135	295	67	G1/4	101

PV200 Series
Angle Seat Valve(Piston Valve/Male Threaded+Socket Welded)



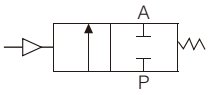
Product feature

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

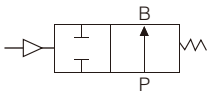
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

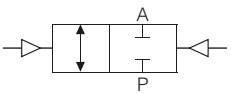
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV200 **P** **015** **NC** □ **S × 63mm**

Model

PV200	200 Seires angle seat valve

Actuator material code

P	Plastic actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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
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.
Maintenence free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be achieved conveniently.
Easy to install and maintain;
Godd 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		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	18	24	31	35	45	61
Kv (m^3/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		Downsteam/Upsteam						

Pressure data sheet

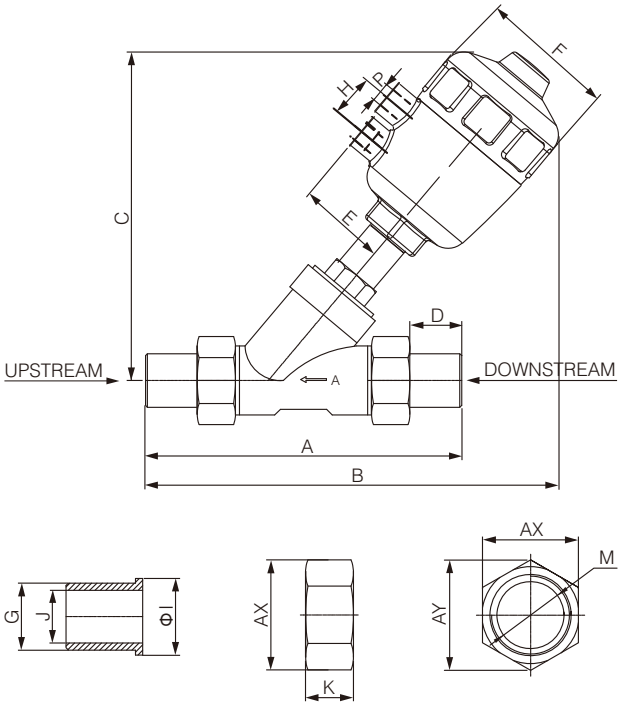
Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	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 comes off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer comes 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 canse 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.

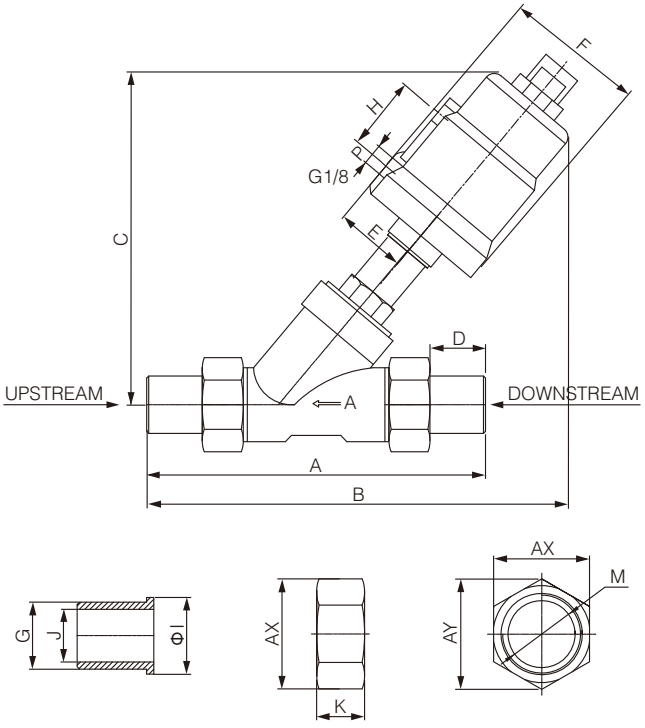
Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press.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

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	G1/8	27	31
		50	135	190	115	22	44	64	18	24	12.5	17	19	G1/4	27	31
3/4"	DN20	50	150	200	131	25	44	64	22	24	18	19	22.3	G1/4	31	35
1"	DN25	50	170	205	138	29	44	64	28	24	22.5	20.5	28.3	G1/4	40	45.5
		63	170	247	166	29	54	79.5	28	24	22.5	20.5	28.3	G1/4	40	45.5
1-1/4	DN32	63	185	257	172	29	54	79.5	35.5	24	30	21	35.5	G1/4	49	56
1-1/2	DN40	63	208	263	174	31	54	79.5	43.5	24	38	23	43.5	G1/4	54	62
2"	DN50	63	236	288	193	35.5	54	79.5	54.5	24	47.5	24	55	G1/4	54	62
		80	236	299	202	35.5	62	101	54.5	24	47.5	24	55	G1/4	69	79
2-1/2"	DN65	80	250	312	209	32	62	101	72.5	24	62.5	28.5	73	G1/4	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	G1/8	27	31
		50	135	194	142	22	35	56	18	38	12.5	17	19	G1/8	27	31
3/4"	DN20	50	150	224	152	25	35	56	22	38	18	19	22.3	G1/8	31	35
1"	DN25	50	170	236	155	29	35	56	28	38	22.5	20.5	28.3	G1/8	40	45.5
		63	170	246	176	29	43	70	28	44	22.5	20.5	28.3	G1/8	40	45.5
1-1/4	DN32	63	185	251	177	29	43	70	35.5	44	30	21	35.5	G1/8	49	56
1-1/2	DN40	63	208	256	182	31	43	70	43.5	44	38	23	43.5	G1/8	54	62
2"	DN50	63	236	284	196	35.5	43	70	54.5	44	47.5	24	55	G1/8	54	62
		90	236	303	206	35.5	56	94	54.5	67	47.5	24	55	G1/4	69	79
2-1/2"	DN65	90	250	322	215	32	56	94	72.5	67	62.5	28.5	73	G1/4	90	101

PV300 Series
Angle Seat Valve(Piston Valve/Weld Ends)



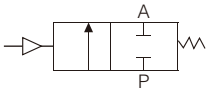
Product feature

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

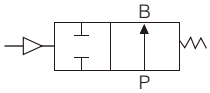
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

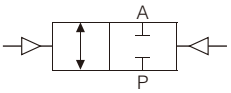
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV300 **P** **015** **NC** □ **S × 63mm**

Model

PV300	300 Seires angle seat valve

Actuator material code

P	Plastic actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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
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.
Maintenence free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be achieved 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		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	18	24	31	35	45	61
Kv (m^3/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		Downsteam/Upsteam						

Pressure data sheet

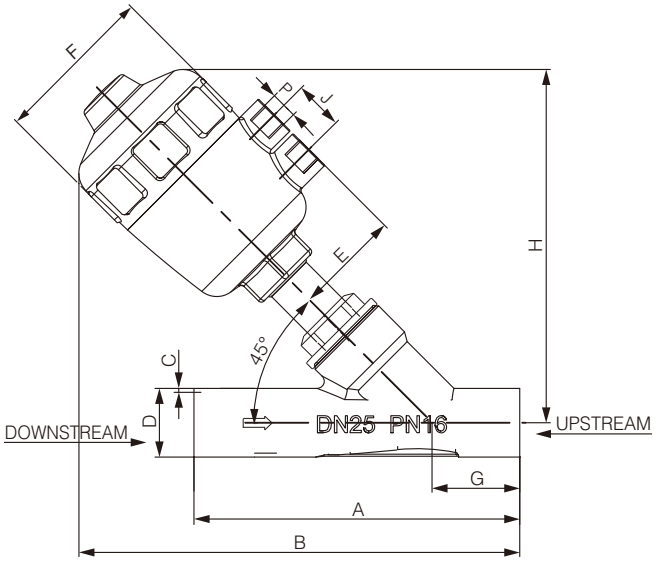
Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	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 comes off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer comes 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 canse 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.

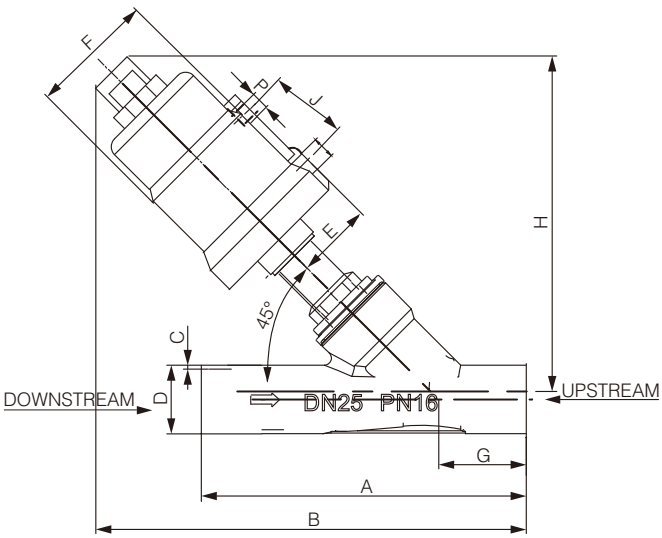
Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. 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	G1/8
		50	100	150	3	21	44	64	18	115	24	G1/4
3/4"	DN20	50	117	170	3	27	44	64	30	131	24	G1/4
1"	DN25	50	130	175	3	34	44	64	30	138	24	G1/4
		63	130	200	3	34	54	79.5	30	166	24	G1/4
1-1/4	DN32	63	145	207	3	42	54	79.5	30	172	24	G1/4
1-1/2	DN40	63	160	207	4	48	54	79.5	30	174	24	G1/4
2"	DN50	63	190	227	4	60	54	79.5	30	193	24	G1/4
		80	190	235	4	60	62	101	30	202	24	G1/4
2-1/2"	DN65	80	230	235	5	76	62	101	40	209	24	G1/4

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	G1/8
		50	100	152	3	21	35	56	18	134	38	G1/8
3/4"	DN20	50	117	174	3	27	35	56	30	144	38	G1/8
1"	DN25	50	130	177	3	34	35	56	30	147	38	G1/8
		63	130	188	3	34	43	70	30	158	44	G1/8
1-1/4	DN32	63	145	197	3	42	43	70	30	167	44	G1/8
1-1/2	DN40	63	160	197	4	48	43	70	30	167	44	G1/8
2"	DN50	63	190	216	4	60	43	70	30	186	44	G1/4
		90	190	235	4	60	56	94	30	205	67	G1/8
2-1/2"	DN65	90	230	255	5	76	56	94	40	215	67	G1/4

PV400 Series
Angle Seat Valve(Piston Valve/Flange Ends)



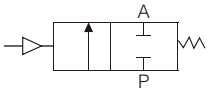
Product feature

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

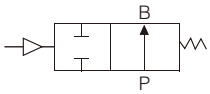
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

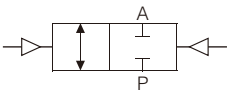
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV400 | **P** | **015** | **NC** | **□** | **S × 63mm**

Model

PV400	400 Seires angle seat valve

Actuator material code

P	Plastic actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"	50	G2"
20	G3/4"	65	G2½"
25	G1"	80	G3"
32	G1¼"	100	G4"
40	G1½"		

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.

Maintenence free, compatible with various accessories,

Direction indicating, stroke limiting or manual switching can be achieved conveniently.

Specifications

Model Specification		P015NC	P020NC	P025NC	P032NC	P040NC	P050NC	P065NC	P080NC	P100NC
	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								
Tempreture of medium	PTFE	-10~200℃								
	FPM	-10~150℃								
Installing		Downsteam/Upsteam								
Operating method		Plunger pilot								
Ambient and fluid		Air, Water, Oil, Steam (50CTS Bellow)								
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"	G3"	G4"
Nominal diameter (mm)		13	20	25	32	40	50	65	80	100
Kv (m^3/h)		4.2	8	19	27.5	42	55	90	115	200
Pressyre 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

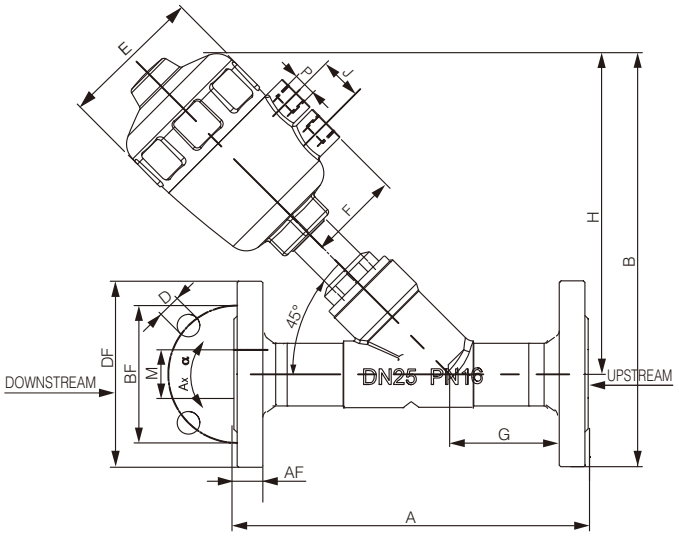
Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	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 comes off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer comes 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 canse 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.

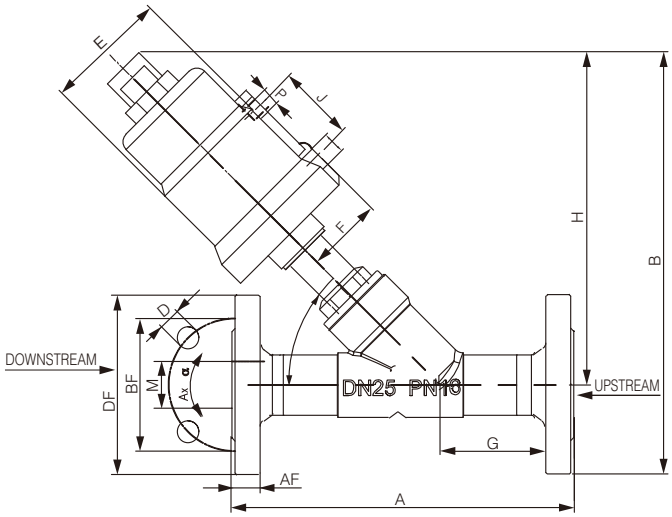
Port size	DN (mm)	Actuator (mm)	Single acting normally closed				Double acting normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range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

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	G1/8	15	65	95
3/4"	DN20	50	130	203	14	56	35	25	152	38	18	G1/8	15	75	102
1"	DN25	50	140	215	14	56	35	30	155	38	25	G1/8	15	85	114
		63	140	235	14	70	43	30	176	44	25	G1/8	15	85	114
1-1/4	DN32	63	150	245	18	70	43	30	177	44	30	G1/8	17	100	133
1-1/2	DN40	63	180	245	18	70	43	45	182	44	36	G1/8	17	110	143
2"	DN50	63	195	274	18	70	43	50	196	44	47	G1/8	17	125	158
		80/90	195	295	18	94	56	50	206	67	47	G1/4	17	125	158
2-1/2"	DN65	80/90	230	305	18	94	56	55	215	67	68	G1/4	18	145	180
3"	DN80	100	240	395	18	135	73	70	295	67	80	G1/4	20	160	194
4"	DN100	125	265	445	18	135	73	90	332	67	100	G1/4	20	180	215

PV500 Series
Angle Seat Valve(Piston Valve/Tri-Clamp Ends)



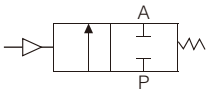
Product feature

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

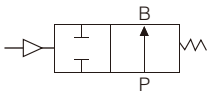
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

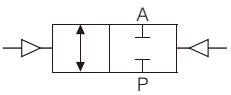
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV500 **P** **015** **NC** □ **S × 63mm**

Model

PV500	500 Seires angle seat valve

Actuator material code

P	Plastic actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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
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.

Maintenence free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be achieved 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		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	18	24	31	35	45	61
Kv (m^3/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		Downsteam/Upsteam						

Pressure data sheet

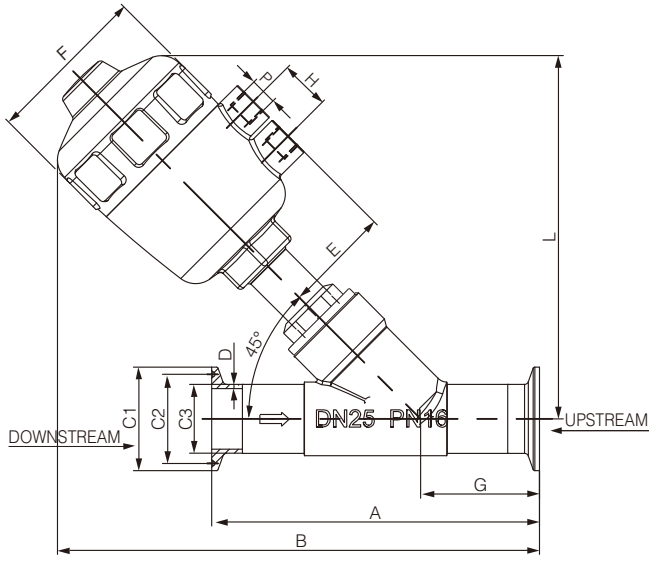
Control function	Acting type	Flow direction	Water hammer	Application
Normally closed	Single acting	Upstream	Yes	For compressible medium (such as gas and steam) and liquid of comparatively low pressure
		Downstream	No	For anti water hammer pipeline, bears certain pressure difference
	Double acting	Upstream	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 comes off.
		Downstream	No	For pipeline where valve keeps open, anti water hammer, double acting & normally open when silencer comes 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 canse 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.

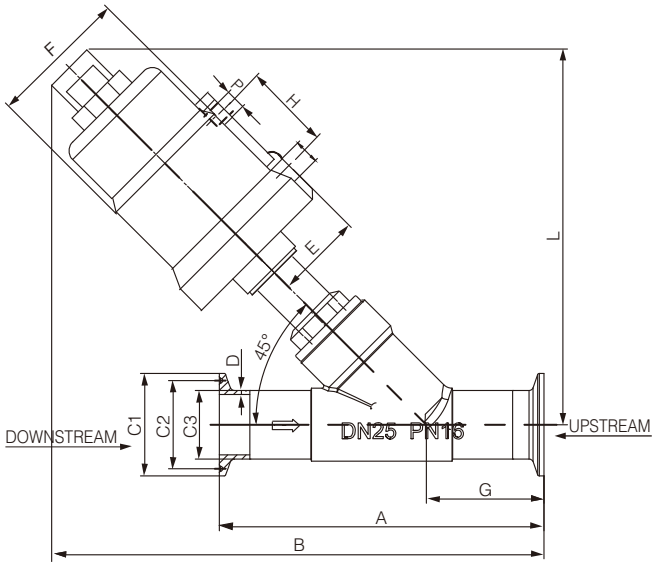
Port size	DN (mm)	Actuator (mm)	Normally closed				Normally closed				Normally open					
			Upstream		Downstream		Upstream		Downstream		Upstream		Downstream		Double acting assistant pressure MPa	Rest position pressure MPa
			Press. range MPa	Control press. MPa	Press. range MPa	Control press. MPa	Press. 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	G1/4
3/4"	DN20	50	143	195	50.5	43.5	25.5	2.4	64	44	56.5	131	24	G1/4
1"	DN25	50	143	206	50.5	43.5	31.3	2.4	64	44	58	138	24	G1/4
		63	143	238	50.5	43.5	31.3	2.4	79.5	54	58	166	24	G1/4
1-1/4	DN32	63	153	248	50.5	43.5	38.3	2.4	79.5	54	57.5	172	24	G1/4
1-1/2	DN40	63	182	252	64	56.5	47.2	2.6	79.5	54	69	174	24	G1/4
2"	DN50	63	200	272	64	56.5	55.5	2.6	79.5	54	77.5	193	24	G1/4
		80	200	283	64	56.5	55.5	2.6	101	62	77.5	202	24	G1/4
2-1/2"	DN65	80	232	310	91	83.5	68	2.6	101	62	90	209	24	G1/4

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	G1/8
3/4"	DN20	50	143	209	50.5	43.5	25.5	2.4	56	35	56.5	152	38	G1/8
1"	DN25	50	143	227	50.5	43.5	31.3	2.4	56	35	58	155	38	G1/8
		63	143	237	50.5	43.5	31.3	2.4	70	43	58	176	44	G1/8
1-1/4	DN32	63	153	242	50.5	43.5	38.3	2.4	70	43	57.5	177	44	G1/8
1-1/2	DN40	63	182	245	64	56.5	47.2	2.6	70	43	69	182	44	G1/8
2"	DN50	63	200	269	64	56.5	55.5	2.6	70	43	77.5	196	44	G1/8
		80/90	200	289	64	56.5	55.5	2.6	94	56	77.5	206	67	G1/4
2-1/2"	DN65	80/90	232	320	91	83.5	68	2.6	94	56	90	215	67	G1/4

PV600 Series
Angle Seat Valve(Piston Valve/Gunmetal Body)



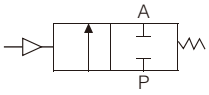
Product feature

2/2-way Angle-Seat Valve
Pneumatically Operated,
for medium up to +180℃,
Gunmetal Body female thread,
port connection DN 15-65

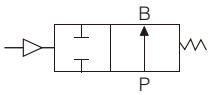
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

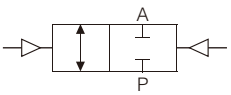
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Actuator size

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

PV600 Series plunger pilot angle seat valve is propelled by a piston actuator, either single acting or double acting. 2/2 Way gunmetal valve body with big flow capacity V type seals ensure reliable and effective sealing.

Maintenence free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be achieved conveniently. Easy to install and maintain;

The specific gunmetal material fuses zinc as a key element, which makes our valves applicable in high air tightness industryand highly resistant to corrosion in air, sea water, fresh water and steam.

Ordering code

PV600 **P** **015** **NC** **S × 63mm**

Model

PV600	600 Seires angle seat valve

Actuator material code

P	PA Actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

Control function

NO	Normally open
NC	Normally closed (standard)

Acting type

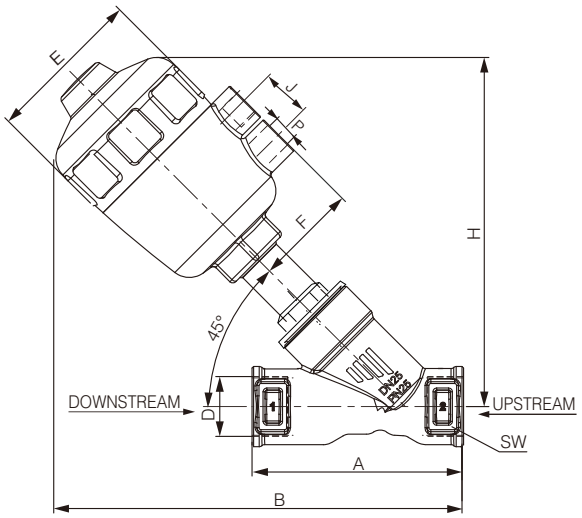
S	Single acting
D	Double acting

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		Gunmetal body/PA						
Operating method		Plunger pilot						
Ambient and fluid		Air, Water, Oil, Steam (50CTS Bellow)						
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	20	25	32	40	50	65
Kv (m^3/h)		4.2	8	19	27.5	42	55	90
Seat seal		PTFE/FPM						
Stem seal		PTFE/FPM						
Piston seal		PTFE/FPM/NBR						

Dimensions

Gunmetal body -- PV600P



Port size	DN(mm)	Actuator(mm)	A	B	D	E	F	H	P	J	SW
1/2"	DN15	40	88	139	G1/2	30	53	115	G1/8	20	27
		50	88	163	G1/2	44	64	140	G1/4	24	27
3/4"	DN20	50	96	171	G3/4	44	64	144	G1/4	24	34
1"	DN25	50	108	181	G1	44	64	152	G1/4	24	41
		63	108	206	G1	54	80	177	G1/4	24	41
1-1/4	DN32	63	112	219	G1-1/4	54	80	183	G1/4	24	50
1-1/2	DN40	63	133	222	G1-1/2	54	80	188	G1/4	24	55
2"	DN50	63	154	249	G2	54	80	204	G1/4	24	70
		80	154	270	G2	62	101	225	G1/4	24	70
2-1/2"	DN65	80	191	275	G2-1/2	62	101	239	G1/4	24	85

PV700 Series
Angle Seat Valve(Piston Valve/Polished Actuator)



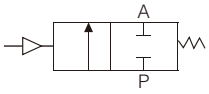
Product feature

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

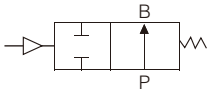
1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Deliverable with flow direction below or above seat
5. Simple conversion of the circuit function.

Symbol

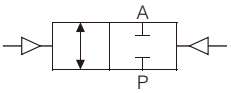
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV700 | **S** | **015** | **NC** | □ | **S × 63mm**

Model

PV700	700 Seires angle seat valve

Actuator material code

S	S.S. Actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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)
	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 one punch formed with stainless steel plate, 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.
Maintenence free, compatible with various accessories, Direction indicating, stroke limiting or manual switching can be achieved conveniently.

PV800 Series Angle Seat Valve(Piston Valve/Y-type Compact Valve)



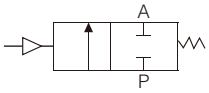
Product feature

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

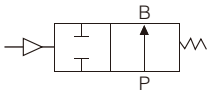
1. Classic design, Long life cycle;
2. NC and NO is optional;
3. Structure in coaxial stop, leakage proof and high flow rate;
4. Saving energy.

Symbol

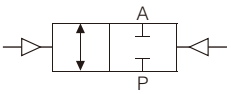
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

PV800 | **A** | **015** | **NC** | **S** | **H**

Model

PV800	800 Seires angle seat valve

Actuator & stem material code

S	S.S.
A	Aluminium

Nominal diameter

15	G1/2"	32	G1¼"
20	G3/4"	40	G1½"
25	G1"	50	G2"

Control function

NO	Normally open
NC	Normally closed(standard)
NA	Liberty stabe

Acting type

S	Single acting
D	Double acting(standard)

Sealing Require

H	High tempreture
Blank	Normal(standard)

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℃ with NBR seal; -10 to 150℃ (PTFE, FKM)
Ambient temperature: -10 to 60℃
Standard Version: Aluminium actuator, S.S actuator on require

Applications

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

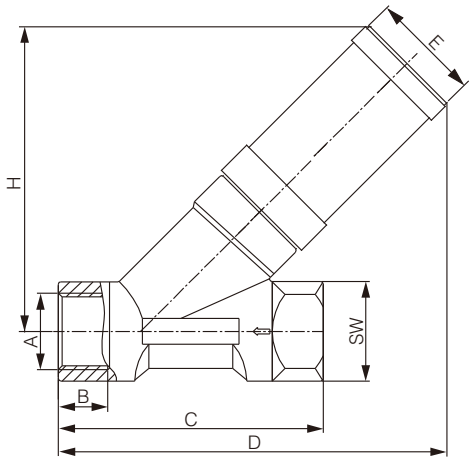
PV800 Series
Angle Seat Valve(Piston Valve/Y-type Compact Valve)

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		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Nominal diameter (mm)		13	16	22	32	35	45
Kv (m^3/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	G1/2"	14	76	109	30	98	27
3/4"	DN20	32	G3/4"	16	92	115	37	100	32
1"	DN25	32	G1"	21	103	127	37	104	40
1-1/4	DN32	40	G1-1/4"	19	112	168	45	160	50
1-1/2	DN40	50	G1-1/2"	21	129	129	55	160	56
2"	DN50	63	G2"	27	143	143	68	160	68

PV1527 Series Angle Seat Valve(Piston Valve/27mm Actuator)


PV1527-A


PV1527-B

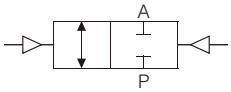
Product feature

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

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

Symbol

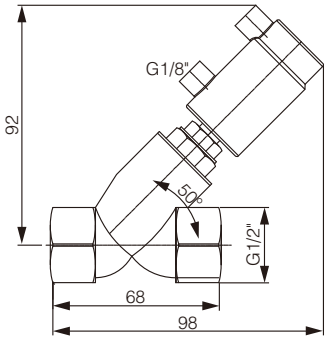
Control function I
(double-acting actuator)



Dimensions

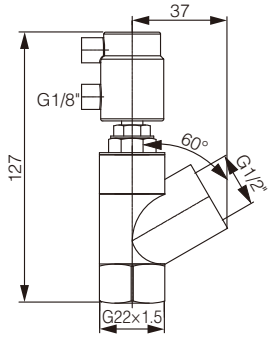
Y-type filling valve

PV1527-A



filling valve (Horizontal installation)

PV1527-B



NAMUR-Adapter for Pilot Valve

Accessories for Pneumatic Angle Seat Valve

Accessories
NAMUR-Adapter for Pilot Valve



Advantages / Benefits

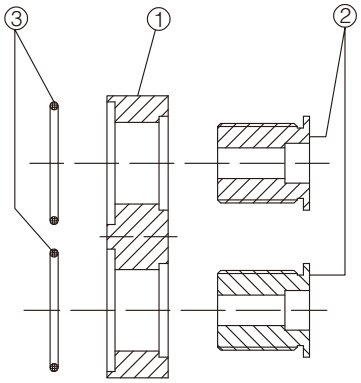
1. Namur interface allows easy installation of pilot valve to actuator

2. Increased operational reliability when using the NAMUR pilot valves types 5/2 way 4M310-08

Technical Data

Mounting for NAMUR-Adapter

1 Plate
2 Hollow screw
3 O-rings



Ordering code

NAA

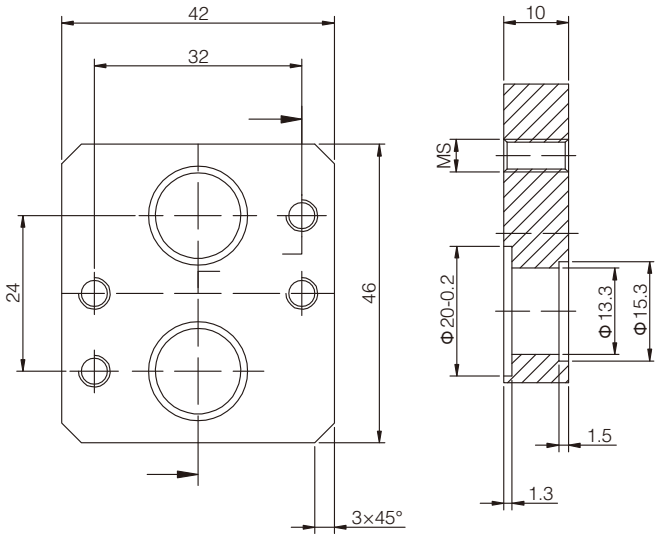
Model	
NAA	NAMUR-Adapter

1

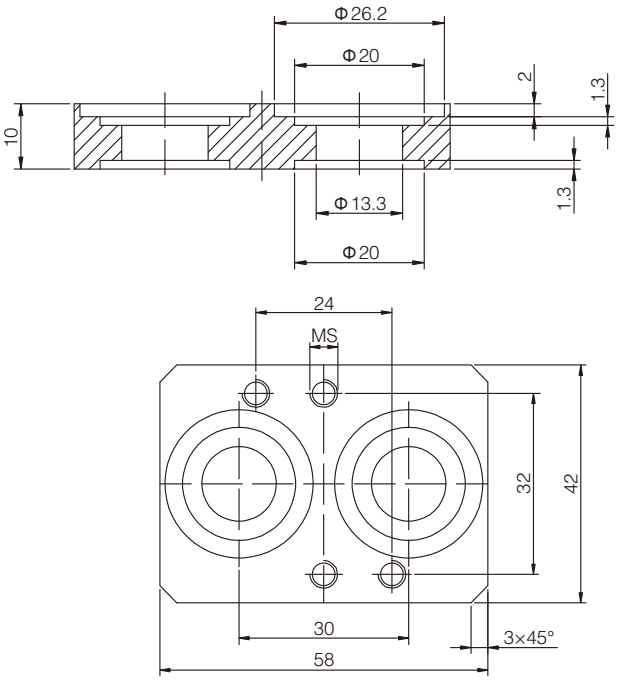
Code	
1	Adapter for actuators: 50/63/80mm
2	Adapetr for actuators: 100/125mm

Dimensions

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



Adapter for actuators: 100mm, 125mm



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 **rotary actuator**
Φ63 on request

Version 1
Namur-Adapter for **Stroke actuator**
Φ100 and 125 for angle seat and globe valve
Φ125 for diaphragm valve
NAMUR adapter for **rotary actuator**
Φ100

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



Product feature

2/2-way Angle-Seat Valve for medium up to +180℃, 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. NC and NO universal actuators with modular universal accessary program up to control heads

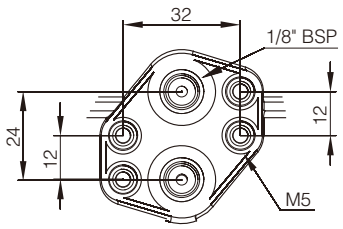
NAMUR type actuator

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

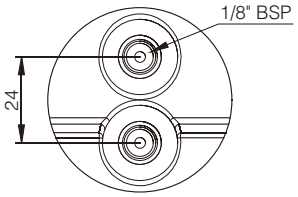
Actuator size

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



PVT Series Angle Seat Valve(Piston Valve/Intelliget Valve Positioner & Electronic-Pneumatic Valve Positioner)



Product feature

2/2-way Angle-Seat Valve for medium up to +180℃, With Valve Positioner Electronic-pneumatic Valve Positioner and Intelligent valve positioner is optional connection is available on customer request DN 15-100

1. Inteligent Valve Positioner series 1400 is optional;
2. Intelligent Valve Positioner series 1500 is optional;
3. Electronic-pneumatic Valve Positioner series 1500 is optional;
4. For solenoid valve details requirement, Pls contact ACME sales department.

1. Compact stainless steel design
2. Electrical waterproof connectors
3. LCD with backlight
4. Easy to start-up
5. Rich additional software functions



1400 Series



1500 Series

A positioner is a device put into a valve to ensurethat it is at a correct position of opening as per the control signal. A normal converter only sends the opening/closing request to valve but can not confirm its position. Our positioner has a pneumatic feedback controller. Controlled extemal supply air/liquid to positioner provides power to positioner to position a valve.

YT-1000 electric pneumatic positioner is used for rotary operation of pneumatic rotary valve actuators by means of electrical controller or control systems with an analog output signal of 4 to 20 MA or split ranges;

YT-1000 electric valve localizer that is incompatible with actuators, and receipt 4~20mA DC current signal from controller or control system, then transfer into air pressure what transfer to the actuator which connect with it, in order to control valve position.



YT-1000 Series

PVE Series
Angle Seat Valve(Piston Valve/Solenoid Valve)



Ex-proof coils is available

Product feature

2/2-way Angle-Seat Valve for medium up to +180℃,
With Solenoid Valve connection is available on customer request
DN 10-100

1. 2/3 way solenoid valve can be used in single acting angle seat valve;
2. 2/5 way solenoid valve can be used in double acting angle seat valve;
3. EX-proof coils is optional
4. For solenoid valve details requirement, Pis check ACME catalogue page-solenoid valve.



2/5 way solenoid valve can be used in double acting angle seat valve;
NAMUR-Adapter for pilot valve;
Valve Model: 4V210-08/4V310-08



2/3 way solenoid valve can be used in double acting angle seat valve;
Valve Model: 4V210-08/4V310-08



2/5 way solenoid valve can be used in doubleacting angle seat valve;
copper tubing & LOK-fittings is as the accessories.
Valve Model: 4V210-08/4V310-08



2/3 way solenoid valve can be used in double acting angle seat valve;
Valve Model: 3V210-08/3V310-08

PVS Series Angle Seat Valve
(Piston Valve/Proximity Switch for Position Feedback)



Single Switch



Double Switch

Product feature

2/2-way Angle-Seat Valve for medium up to +180℃, With Proximity Switch for Position Feedback
Connection is available on customer request DN 15-100

1. NC and NO universal actuators with proximity switch up to control heads;
2. Switch can be easily installed on the actuator;
3. Switch signal can be transmitted to PLC etc to show the valve on or off.

Technical data

1. Voltage: 6-36V DV (direct current); 90-250V AC (alternating current)
2. Protection class: IP65-IP67
3. Detection distance: 3~5mm
   Ambient tempreture: -25~70℃

PVM Series Angle Seat Valve (Manual Override for Stroke Limiting)





Product feature

With Manual Override for Stroke Limiting
Connection is available on customer request DN 15-100

1. Adjust piston position, limits stroke and regulate flow volume of the Valve
2. Applicable for all series of angle seat valve, and works as emergency override in cases when the contolling air source suffers no mechanical (solenoid valve) failure.

Specifications

1. The hand wheel for PA actuator works on valves in normally closed condition, functioning as stroke limiter, flow regulator and emergency valve-opener (lack of pilot fluid, machinery damaged, lock of piloting signal)
2. The hand wheel for stainless steel actuators works as valves in normally open condition, funcationing as emergency valve-closer.
3. For detected application and slection advice, PLS contact ACME sales department.

GV100 Series
Globe Control Valve, Pneumatically Operated



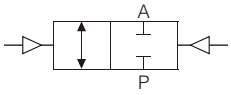
Product feature

2/2-way Globe Control Valve, Pneumatically Operated, for medium up to +150℃, threaded port connection, DN 15-65

1. High flow rate;
2. Long life cycle;
3. NC and NO universal actuators with modular universal accessary program up to control heads;
4. Simple conversion of the circuit function.

Symbol

Control function
(double-acting actuator)



Ordering code

GV100 | **P** | **015** | **NC** | **□** | **D × 63mm**

Model

GV100	100 Seires Globe control valve

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminium Actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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

D	Double acting

Construction

Seal material: PTFE(NBR, FKM and EPDM on request)

Media

Liquid and gaseous media that do not attack the housing and seal materials
Control medium: Air

Temperature range

Medium temperature: -10 to 80℃ with NBR seal; -10 to 150℃ (PTFE, FKM)
Ambient temperature: -10 to 60℃
Standard Version: PA actuator, S.S actuator on require

Applications

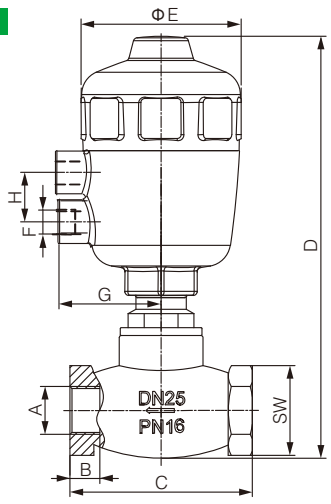
Food, packaging, petrochemical, metallurgican, spraying, vehicles, printing and dyeing machinery etc.

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		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	20	25	32	40	50	65
Kv (m^3/h)		4.2	8	19	27.5	42	55	90
Pressure range (Mpa)		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)		0.30	0.30	0.35	0.35	0.35	0.32	0.32
Executor dimension (mm)		40/50	50	50/63	63	63	63/80	80

Dimensions

GV100P Series



Port size	DN (mm)	Actuator (mm)	A	B	C	D	E	F	G	H	SW
1/2"	DN15	40	G1/2"	12	57	148	53	G1/8"	32	20	26
		50	G1/2"	12	57	161	64	G1/4"	45	24	26
3/4"	DN20	50	G3/4"	12	67	170	64	G1/4"	45	24	35
1"	DN25	50	G1"	12	72	173	64	G1/4"	45	24	42
		63	G1"	12	72	193	80	G1/4"	50	24	42
1-1/4	DN32	63	G1-1/4"	16	85	212	80	G1/4"	50	24	50
1-1/2	DN40	63	G1-1/2"	16	98	222	80	G1/4"	50	24	56
2"	DN50	63	G2"	22	112	233	80	G1/4"	50	24	68
		80	G2"	22	112	258	101	G1/4"	58	24	68
2-1/2	DN65	80	G2-1/2"	22	138	265	101	G1/4"	58	24	84

GV200 Series
Globe Control Valve, Pneumatically Operated



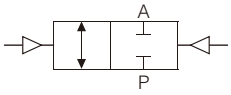
Product feature

2/2-way Globe Control Valve, Pneumatically Operated, for medium up to +150℃, polished actuator, threaded port connection, DN 15-65

1. High flow rate;
2. Long life cycle;
3. Simple conversion of the circuit function.

Symbol

Control function
(double-acting actuator)



Ordering code

GV200 **S** **015** **NC** □ **D × 63mm**

Model

GV200	200 Seires Globe control valve

Actuator material code

S	S.S. Actuator

Nominal diameter

15	G1/2"	40	G1½"
20	G3/4"	50	G2"
25	G1"	65	G2½"
32	G1¼"		

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

D	Double acting

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℃ with NBR seal; -10 to 150℃ (PTFE, FKM)
Ambient temperature: -10 to 60℃
Standard Version: Aluminium actuator, S.S actuator on require

Applications

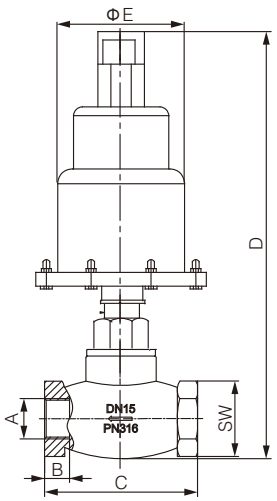
Food, packaging, petrochemical, metallurgican, spraying, vehicles, printing and dyeing machinery etc.

Specifications

Model / Specification	Normally Closed	015NC	020NC	025NC	032NC	040NC	050NC	065NC
	Normally Open	015NO	020NO	025NO	032NO	040NO	050NO	065NO
Material of body/Actuator		S.S304 316 /PA						
Operating method		Plunger pilot						
Ambient and fluid		Air, Water, Oil, Steam (50CTS Bellow)						
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"	G2½"
Nominal diameter (mm)		13	20	25	32	40	50	65
Kv (m^3/h)		4.2	8	19	27.5	42	55	90
Pressure range (Mpa)		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)		0.30	0.30	0.35	0.35	0.35	0.32	0.32
Executor dimension (mm)		40/50	50	50/63	63	63	63/80	80

Dimensions

GV200S Series



Port size	DN (mm)	Actuator (mm)	A	B	C	D	E	SW
1/2"	DN15	40	G1/2"	12	57	153	42.5	26
		50	G1/2"	12	57	162	52.5	26
3/4"	DN20	50	G3/4"	12	67	175	52.5	35
1"	DN25	50	G1"	12	72	180	52.5	42
		63	G1"	12	72	210	66	42
1-1/4	DN32	63	G1-1/4"	16	85	226	66	50
1-1/2	DN40	63	G1-1/2"	16	98	235	66	56
2"	DN50	63	G2"	22	112	250	66	68
		80	G2"	22	112	272	83	68
2-1/2	DN65	80	G2-1/2"	22	138	304	83	84

GV300 Series
Globe Control Valve, Pneumatically Operated(Right Angle Valve)



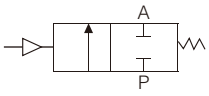
Product feature

2/2-way Globe Control Valve, Pneumatically Operated, for medium up to +150℃, threaded port connection, DN 15-50

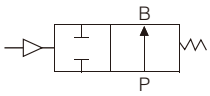
1. Classic design, Long life cycle
2. NC and NO is optional
3. Structure in coaxial stop, leakage proof and high flow rate
4. Saving energy

Symbol

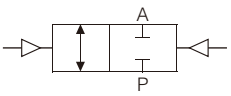
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

GV300 | A | 015 | NC | S | H

Model

GV300	300 Seires Pneumatic stop valve

Style

A	Right angle stop valve

Nominal diameter

15	ZG1/2"	32	ZG1¼"
20	ZG3/4"	40	ZG1½"
25	ZG1"	50	ZG2"

Control function

NO	Normally open
NC	Normally closed(standard)
NA	Liberty state

Acting type

S	Single acting
D	Double acting(standard)

Sealing Require

H	High tempreture
Blank	Normal(standard)

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℃ with NBR seal
Ambient temperature: -10 to 150℃ (PTFE, FKM)
Standard Version: Aluminium actuator, S.S actuator on require

Applications

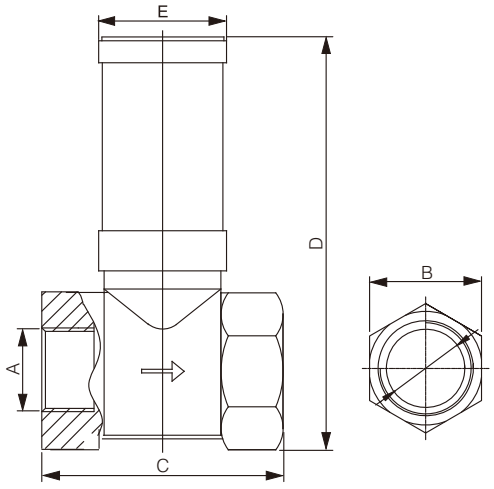
Food, packaging, petrochemical, metallurgican, spraying, vehicles, printing and dyeing machinery etc.

Specifications

Model Specification	Normally Closed	A015NC	A020NC	A025NC	A032NC	A040NC	A050NC
	Normally Open	A015NO	A020NO	A025NO	A032NO	A040NO	A050NO
Material of body		Brass for body, Aluminium for stem and actuator					
Operating method		Plunger pilot					
Ambient and fluid		Air, Water, Oil, Liquefied gas, Free-running viscosity liquid					
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Nominal diameter (mm)		13	16	22	32	35	45
Kv (m^3/h)		4	5	10	20	25	40
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

GV300A Series



Port size	DN (mm)	Actuator (mm)	A	B	C	D	E
1/2"	DN15	25	G1/2"	26	46	96	30
3/4"	DN20	32	G3/4"	32	54	108	37
1"	DN25	32	G1"	34	66	118	37
1-1/4	DN32	40	G1-1/4"	53	80	162	45
1-1/2	DN40	50	G1-1/2"	54	80	162	55
2"	DN50	63	G2"	66	105	180	68

GV400 Series
Flat-seat Valve, Pneumatically Operated(Big Port)



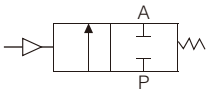
Product feature

2/2-way Piston Controlled Flat-seat Valve Pneumatically Operated, for medium up to +180℃, Big Port with Weld & Flange ends DN 80-100

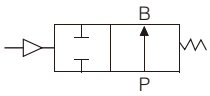
1. Compact style 2/2-way piston controlled valve with flat-seat housing;
2. Flange ends and weld ends optional;
3. Valve body material 304/316 optional;
4. Upstream & downsteam in flow direction optional.

Symbol

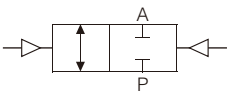
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

GV400	P	080	NC	□	S	W
Model	Actuator material code	Nominal diameter	Control function	Body material	Acting type	Connection

Model

GV400	400 Seires Globe Control Valve

Actuator material code

P	PA Actuator
S	S.S. Actuator

Nominal diameter

80	G3"
100	G4"

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

Connection

W	Weld ends
F	Flange ends

Specifications

Port size	Upsteam DN80-100
Material of body	Casting S.S 304/316
Material of actuator	PA(S.S actuator is required)
Sealing	PTFE(NBR, FPM EPDM be required)
Ambient and fluid	Air, Water, Oil(50CTS Bellow), steam, alcohol, fuel, saline solution, aqueous alkali, organic solvent
Viscosity	Max. 600mm²/s
Packing galnds seal	PTFE
Medium tempreture	-10 to +180℃ with PTFE seal
Ambient Tempreture PA actuator Actuator size below 125mm	-10 to +60℃
Installing	
Operating medium	Neutral gas, Air
Max. Pressure of pilot valve Actuator size 100mm Actuator size 125mm	 PA 10 bar PA 7 bar

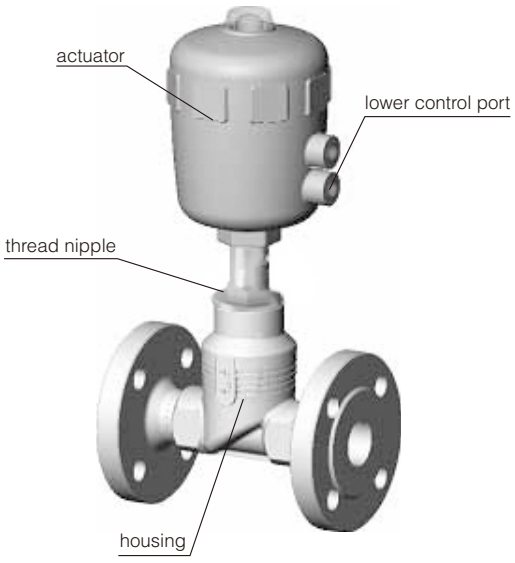
Installation in any orientation but preferably with the actuator above.

GV400 Series Plunger Pilot angle seat valve is propelled by a piston actuator, either single acting or double acting.
Applicable to different working temperature:
2/2 Way stainless steel valve with big flow capacity
Actuator material adopts PA or s.s.(special conditions)
V type seals ensure reliable and effective sealing
Maintenence free, compatible with various accessories, direction indicating, stroke limiting or manual switching can be achieved conveniently.

Installation of the valve(Notes)

Installation in any orientation but preferably with the actuator above.
Clean piping from contamination!
Clean piping from contamination!
Before attaching the valve housing, make sure the piping is aligned!
If the housing is to be welded on, make absolutely sure that the actuator is removed beforehand.

Devices with Approval DIN EN 161: According to DIN EN 161 “Automatic Shut-off Valves for Gas burners Gas appliances”, a dirt trap must be connected upstream of valve.
The dirt trap must prevent the penetration of a 1 mm test mandrel.
In order to maintain approval, also with stainless steel housing, the user is requested to install suvh a dirt trap upsteam of the valve.



Procedure:

1. Remove the pneucatic supply and the electrical
2. connection(if a pilot valve is attached.)

Control function A:

Pressurize the lower control port of actuator with compressed air(6 bar), so that the valve disk is lifted from the valve seat and is not damaged.

Control function B and I:

No compressed air must be applied.

3. Remove the actuator in the open valve position by unscrewing the threaded nipple from the housing.
4. Before reinstalling the actuator(in the open valve position), grease the nipple thread with stainless steel lubricant.
5. Replace the graphite seal.

ATTENTION! For special applications such as for oxygen and analysis, use only the approved lubricants.

6. After tightening the threaded nipple, align the control ports by turning the actuator.

ATTENTION! During this operation, the valve must be in the open position.

NOTE For applications in aggressive media, we recommend attaching all free pneumatic connections to a pneumatic hose whose other end lies in a neutral atmosphere.

Pneumatic Installation

Control medium:air

a) Direct connection to the piston control valve

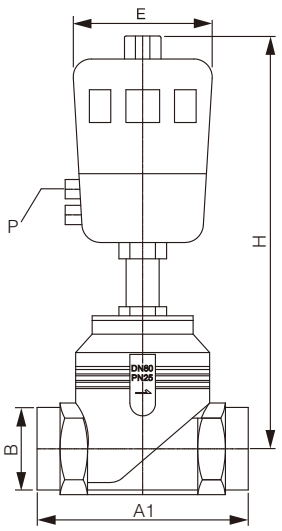
- With control function A, at the lower connection of actuator with G1/4" thread.
- With control function B, at the upper connection of actuator with G1/4" thread.
- With control function I, at the upper and lower connection of actuator with G1/4" thread.

b) Connection via pilot valves

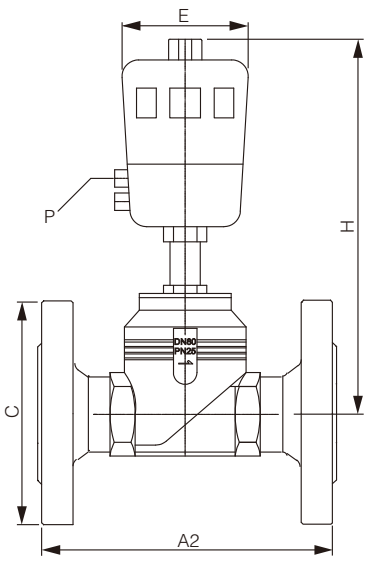
- Mount the solenoid valve Type 4M410-15 with NAMUR Adapter and banjo bolt on the actuator for double acting control functions.
- Mount the solenoid valve Type 3V1-06 with banjo bolt on the respective control port of the actuator.

Dimensions

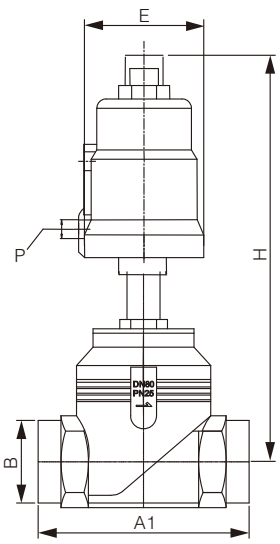
Weld Ends GV400P-W



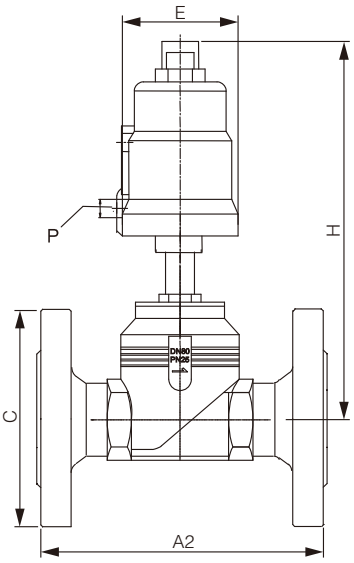
Flange Ends GV400P-F



Weld Ends GV400S-W



Flange Ends GV400S-F



Model	Port size	Actuator size (mm)	A1	A2	B	C	E	H	P
GV400P080W	3"	100(125 optional)	230		91		100:127, 125:157	100:410, 125:440	G1/4"
GV400P100W	4"	125	260		117		157	450	G1/4"
GV400P080F	3"	100(125 optional)		310		192	100:127, 125:157	100:410, 125:440	G1/4"
GV400P100F	4"	125		350		215	157	450	G1/4"
GV400S080W	3"	90(125 optional)	230		91		90:94, 125:135	90:355, 125:365	G1/4"
GV400S100W	4"	125	260		117		135	365	G1/4"
GV400S080F	3"	90(125 optional)		310		192	90:94, 125:135	90:355, 125:365	G1/4"
GV400S100F	4"	125		350		215	135	365	G1/4"

MV100 Series
Y Type Manual Angle Seat Valve



Product feature

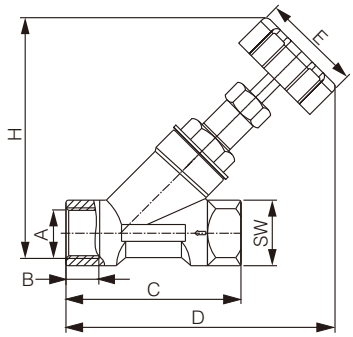
2/2-way Angle-Seat Valve, manually operated, for medium up to +180℃, DN 15-50

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 delivered as standard 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℃
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	G3/8"	12	65	125	50	96	25
DN15	G1/2"	14	76	125	50	105	28
DN20	G3/4"	16	92	127	50/63	121	32
DN25	G1"	21	103	137	63	128	39
DN32	G1-1/4"	19	112	164	63	162	49
DN40	G1-1/2"	21	129	167	63	165	56
DN50	G2"	27	143	181	63	173	68

MV200 Series T Type Manual Right Globe Control Valve



Product feature

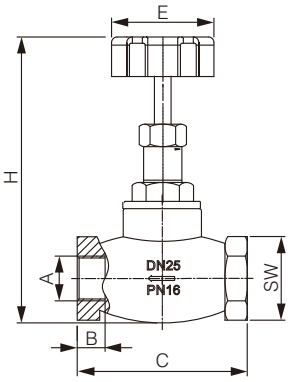
2/2-way Golbe Control Valve, manually operated, for medium up to +180℃, DN 15-50

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 delivered as standard with threaded 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℃
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	G1/2"	12	57	50	114	26
DN20	G3/4"	12	67	50	127	35
DN25	G1"	12	72	50/63	135	42
DN32	G1-1/4"	16	85	63	152	50
DN40	G1-1/2'	16	98	63	262	56
DN50	G2"	22	112	63	273	68

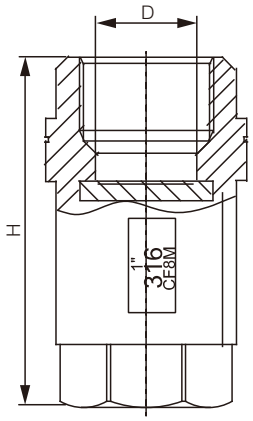
CV100 Series
2PC Spring Vertical Lift Check Valve



CV100-025

Note: Make a reference before place order

Dimensions



Specifications

Model specification		Specification
Nominal pressure		PN1.6, 2.5, 4.0, 6.4MPa
Strength test press		PT2.4, 3.8, 6.0, 9.6MPa
High P. test press.		1.8, 2.8, 4.4, 7.1MPa
Meduim temp.		-20~180℃
Gasket material		PTFE
Ambient and fluid	-C	Water, Oil, Gas
	-P	Nitric acid (Material CF8)
	-R	Acetic acid (Material CF8M)

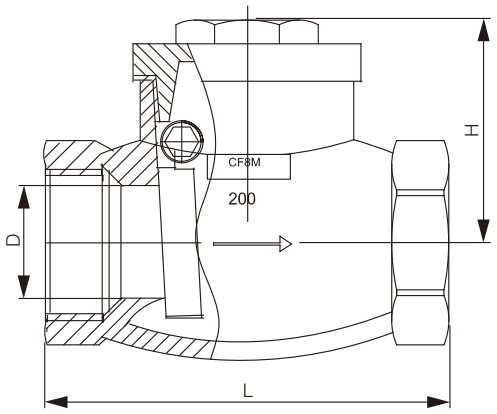
Note: Select suitable products in terms of working medium (see details in specifications).

Port size	H	D
DN10	56	11
DN15	61	14
DN20	68	18
DN25	82	24
DN32	91	31
DN40	106	38
DN50	121	47
DN65	126	64

CV200 Series Female Swing Check Valve

Dimensions





Specifications

Model specification		Specification
Nominal pressure		PN1.6, 2.5, 4.0, 6.4MPa
Strength test press		PT2.4, 3.8, 6.0, 9.6MPa
High P. test press.		1.8, 2.8, 4.4, 7.1MPa
Meduim temp.		-20~180℃
Gasket material		PTFE
Ambient and fluid	-C	Water, Oil, Gas
	-P	Nitric acid (Material CF8)
	-R	Acetic acid (Material CF8M)

Note: Select suitable products in terms of working medium (see details in specifications).

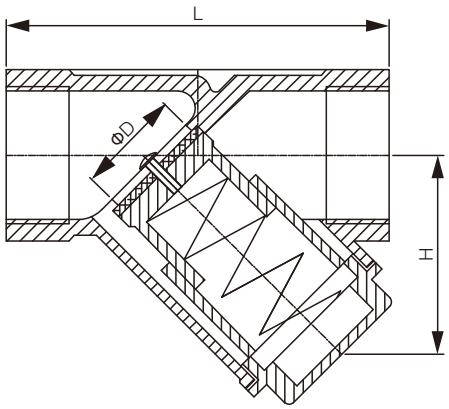
Port size	H	L	D
DN15	44	64	15
DN20	49	78	25
DN25	58	88	24
DN32	62	102	30
DN40	71	117	37
DN50	76	136	46
DN65	90	163	63
DN80	102	183	73

CV300 Series
Y-Spring Vertical Lift Check Valve



CV300-025

Dimensions



Specifications

Model specification		Specification
Nominal pressure		PN1.6, 2.5, 4.0, 6.4MPa
Strength test press		PT2.4, 3.8, 6.0, 9.6MPa
High P. test press.		1.8, 2.8, 4.4, 7.1MPa
Meduim temp.		-20~180℃
Gasket material		PTFE
Ambient and fluid	-C	Water, Oil, Gas
	-P	Nitric acid (Material CF8)
	-R	Acetic acid (Material CF8M)

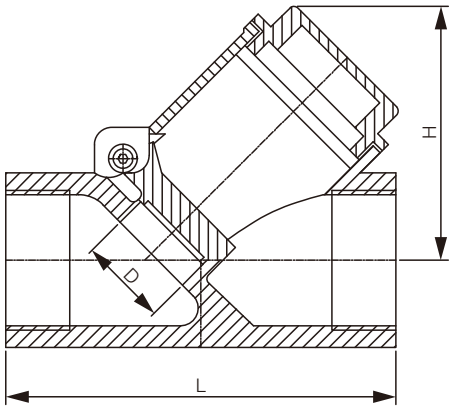
Note: Select suitable products in terms of working medium (see details in specifications).

Port size	H	L	D
DN15	44	64	15
DN20	52	75	20
DN25	60	86	25
DN32	64	102	32
DN40	70	118	40
DN50	88	134	48

CV400 Series Y-Swing Check Valve



Dimensions



Specifications

Model specification		Specification
Nominal pressure		PN1.6, 2.5, 4.0, 6.4MPa
Strength test press		PT2.4, 3.8, 6.0, 9.6MPa
High P. test press.		1.8, 2.8, 4.4, 7.1MPa
Meduim temp.		-20~180℃
Gasket material		PTFE
Ambient and fluid	-C	Water, Oil, Gas
	-P	Nitric acid (Material CF8)
	-R	Acetic acid (Material CF8M)

Note: Select suitable products in terms of working medium (see details in specifications).

Port size	H	L	D
DN15	44	67	12
DN20	53	80	20
DN25	57	90	23
DN40	78	122	37
DN50	93	144	46

Feature application

A economical Y-type strainer with a stainless steel screen ideally suited for water applications to protect meters, Pumps, valves and other pipeling equipment.



SV100-025

Feature & Benefits

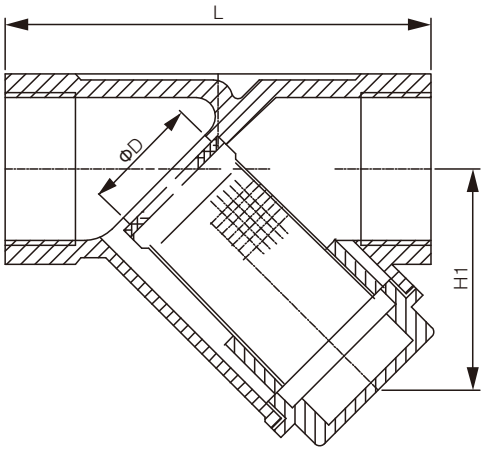
1. Y-type
2. Economical & efficient
3. Easily removable stainless steel screen for cleaning.

Specifications

Model specification		Specification
Nominal pressure		PN1.6, 2.5, 4.0, 6.4MPa
Strength test press		PT2.4, 3.8, 6.0, 9.6MPa
High P. test press.		1.8, 2.8, 4.4, 7.1MPa
Meduim temp.		-20~180℃
Gasket material		PTFE
Filter screen material		S.S304
Ambient and fluid	-C	Water, Oil, Gas
	-P	Nitric acid (Material CF8)
	-R	Acetic acid (Material CF8M)

Note: Select suitable products in terms of working medium (see details in specifications).

Dimensions



Port size	H	D
DN10	56	11
DN15	61	14
DN20	68	18
DN25	82	24
DN32	91	31
DN40	106	38
DN50	121	47
DN65	126	64

TV100/TV200 Series
Pneumatically Operated 3-way Seat Valve



Specifications

Model/Specifications		DN15	DN20	DN25	DN32	DN40	DN50
Control function		3/2-way normally closed(NC) (port 1)					
Actuator material		PA Actuator /S.S. actuator /Aluminum actuator					
Valve body material		S.S304 /316 /316L					
Nominal pressure		PN16(body)					
Operating method		Plunger pilot					
Ambient and fluid		Water, alcohol, oils, fuels, hydraulic fluid, alkaline solutions, salt solution, organic solutions, hot water, steam					
Viscosity		Max.600mm²/s					
Media temperature		-10~180℃					
Ambient temperature		PA Actuator: -10~60℃ S.S. Actuator /Aluminum actuator: -10~140℃					
Installation		As required, preferably with actuator in upright position					
Control medium		Neutral gases, air					
Packing gland (With silicone grease)		PTFE V-rings with spring compensation					
Seat seal		PTFE/FPM/NBR					
Stem seal		PTFE/FPM					
Piston seal		FPM/NBR					
Mini.pilot pressure (bar)		4.5	4.5	4.5	5.0	5.2	5.2
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Nominal diameter (mm)		13	18	24	31	35	45
Kv (m^3/h)	1➡2	7	9	16	30	35	50
	2➡3	5	6	11	21	22	35

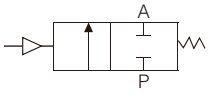
Product feature

3/2-way Seat Valve
Pneumatically Operated, for
medium up to +180℃, threaded
port & tri-clamp connection DN 15-50

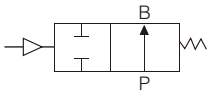
1. For mixing or distributing mediums;
2. Controlled by a pilot valve;
3. Flow optimized body in stainless steel;
4. Long service life and maintenance-free operation.

Symbol

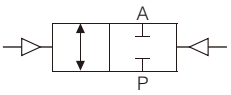
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

TV100 | **P** | **015** | **NC** | □ | **S** | **1 × 63mm**

Model

TV100	3/2-way seat valve threaded ends
TV200	3/2-way seat valve tri-clamp ends

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"
20	G3/4"
25	G1"
32	G1¼"
40	G1½"
50	G2"

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

Versions(standard)

1	version 1
2	version 2
3	version 3

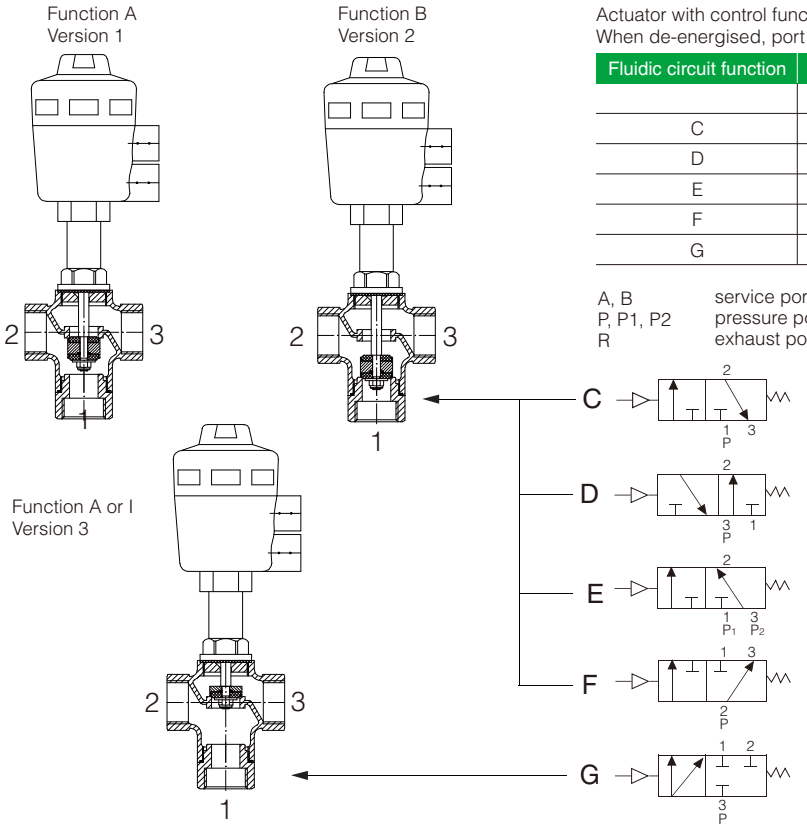
Actuator size

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	63,80,100	63,90	63,80,100
DN40	63,80,100	63,90	63,80,100
DN50	63,80,100	63,90	63,80,100

TV100 Series 3-way seat valve consists of a pneumatically operated actuator and a 3-way valve body. The actuator is available in three different materials, PA, aluminum or stainless steel, depending on the ambient temperature and customer requirements. Materials available for the valve body are stainless steel 304, 316 and 316L. Interchanging of pressure and service ports enables different fluidic circuit functions, such as mixing or distributing mediums.

The flow-optimized valve body of TV100 allows excellent flow rates. The tried and tested self-adjusting gland secures a high level of tightness and thus ensures reliable operation over years. The 3-way valve TV100 is controlled by a pilot valve. It can be equipped easily with an electrical position indicator. For the user, the compact TV100 is often an economical alternative to two single shut-off valves.

Connections for fluidic circuit functions C, D, E, F and G



Actuator with control function A
When de-energised, port connection 1 is closed with spring

Fluidic circuit function	Connection-port		
	1	2	3
C	P	A	R
D	R	A	P
E	P1	A	P2
F	A	P	B
G	A	B	P

A, B service port
P, P1, P2 pressure port
R exhaust port

When de-energised, pressure port 1 closed, service port 2 exhausted.

When de-energised, pressure port 3 connected to service port 2, exhaust port 1 closed

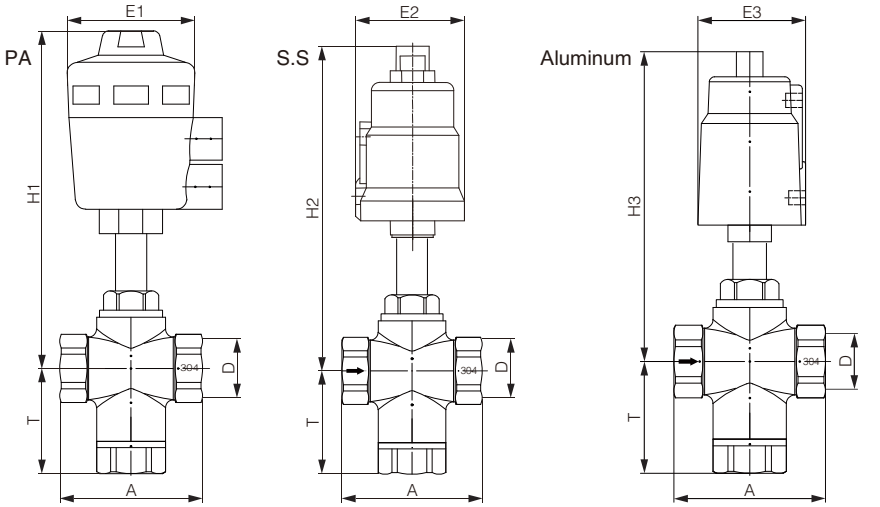
Mixer valve
When de-energised, pressure port 3 connected to service port 2, pressure port 1 closed

Distributor valve 1
When de-energised, pressure port 2 connected to service port 3, service port 1 closed

Distributor valve 2
When de-energised, pressure port 3 connected to service port 2 closed, service port 1 closed

Dimensions

3/2-way Seat Valve Threaded Ends



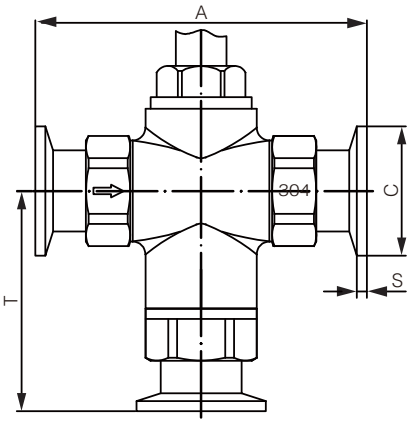
PA Actuator 3/2-way seat valve

S.S. Actuator 3/2-way seat valve

Aluminum actuator 3/2-way seat valve

Type	Actuator size	Port size	A	D	T	H1	H2	H3	E1	E2	E3
DN 15	50	G1/2"	76	G1/2"	58	185	188	188	63	63	65
DN 20	50	G3/4"	76	G3/4"	58	185	188	188	63	63	65
	63	G3/4"	76	G3/4"	58	224	223	218	80	76	77
DN 25	50	G1"	90	G1"	68	188	191	191	63	63	65
	63	G1"	90	G1"	68	227	226	221	80	76	77
DN 32	63	G1 ¼"	120	G1 ¼"	85	238	237	232	80	76	77
	80	G1 ¼"	120	G1 ¼"	85	255	257	247	100	101	96
DN 40	63	G1 ½"	120	G1 ½"	85	239	238	233	80	76	77
	80	G1 ½"	120	G1 ½"	85	256	258	248	100	101	96
DN 50	63	G2"	150	G2"	93	256	255	250	80	76	77
	80	G2"	150	G2"	93	273	275	265	100	101	96

3/2-way Seat Valve Tri-Clamp Ends



Type	A	C	S	T
DN 15	116	50.5	3.5	78
DN 20	116	50.5	3.5	78
DN 25	130	50.5	3.5	88
DN 32	146	50.5	4.5	108
DN 40	146	64	4.5	108
DN 50	205	64	4.5	120

TV300 Series
Pneumatically Operated 3-way Seat Valve(Manifold Valve Type)



Specifications

Model/Specifications	DN15	DN20	DN25
Control function	3/2-way normally closed(NC)		
Actuator material	PA Actuator /S.S. actuator /Aluminum actuator		
Valve body material	S.S304 /316 /316L		
Nominal pressure	PN16(body)		
Operating method	Plunger pilot		
Ambient and fluid	Water, alcohol, oils, fuels, hydraulic fluid, alkaline solutions, salt solution, organic solutions, hot water, steam		
Viscosity	Max.600mm²/s		
Media temperature	-10~180℃		
Ambient temperature	PA Actuator: -10~60℃ S.S. Actuator /Aluminum actuator: -10~140℃		
Installation	As required, preferably with actuator in upright position		
Control medium	Neutral gases, air		
Packing gland (With silicone grease)	PTFE V-rings with spring compensation		
Seat seal	PTFE/FPM/NBR		
Stem seal	PTFE/FPM		
Piston seal	FPM/NBR		

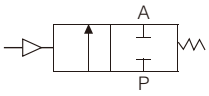
Product feature

3/2-way seat valve
Pneumatically operated, for
medium up to +180℃,
Manifold valve type, threaded port &
Weld ends connection DN 15-25

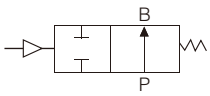
1. For mixing or distributing mediums;
2. Controlled by a pilot valve;
3. Flow optimized body in stainless steel;
4. Long service life and maintenance-free operation.

Symbol

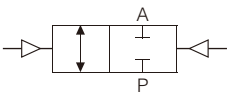
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

TV300 **P** **015** **NC** **□** **S** **T × 63mm**

Model

TV300	3/2-way seat valve (Manifold type)

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"
20	G3/4"
25	G1"

Control function

NO	Normally open
NC	Normally closed (standard)
NA	Luberty

Body material

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

Acting type

S	Single acting
DS	Double acting

Versions(standard)

T	Threaded port
W	Weld end

Actuator size

Port size	Standard actuator size (mm)		
	PA	S.S.	AL
DN15	40, 50		
DN20	40, 50		
DN25	40, 50, 63		

TV300 Series 3-way seat valve consists of a pneumatically operated actuator and a 3-way valve body.The actuator is available in three different materials, PA, aluminum and stainless steel, depending on the ambient temperature and customer requirements.

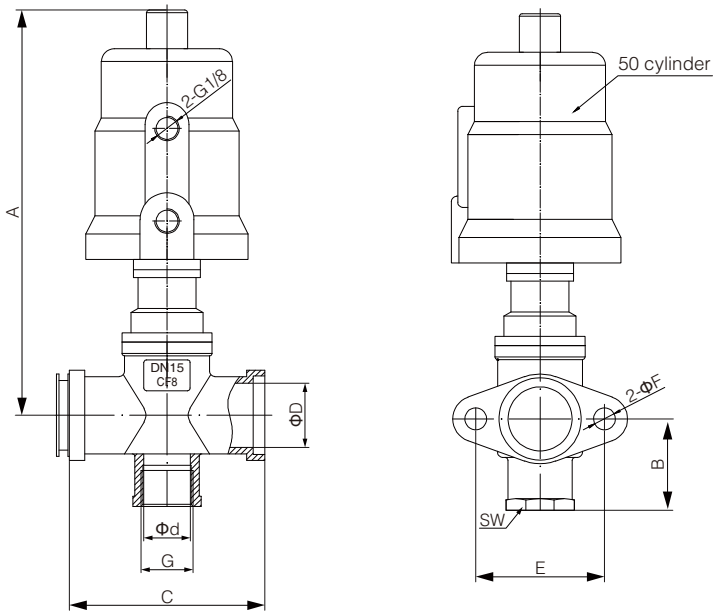
Materials available for the valve body are stainless steel 304,316 and 316L.With our full range of compatible accessories, the mini-flange construction of the 3-way valve housing enables an unlimited number of the valves to be chained into linear groups,facilitating the neat and efficient layout of the pipeline system.

Interchanging of pressure and service ports enables different fluidic circuit functions, such as mixing or distributing of the mediums. The flow-optimized valve body of TV300 allows excellent flow rates, The tried and tested self-adjusting gland secures a high level of tightness and thus ensures reliable operation over years.

For the user, the integrated valve design guarantees the neat and orderly installation of the equipment system, as well as economical benefits.

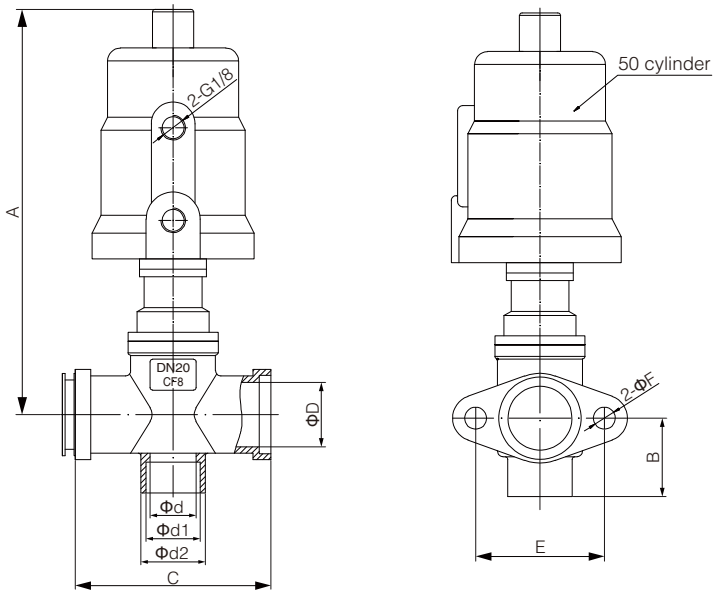
Dimensions

Threaded Port



Type	DN 15	DN 25
A	50	50
B	35	46
C	76	90
ΦD	25	32
Φd1	18	24
E	50	57
ΦF	85	8.5
G	G12"	G1"
SW	27	39

Weld Ends



Type	DN 15	DN 25
A	50	50
B	30	36
C	76	90
ΦD	25	32
Φd	18	24
Φd1	21	27
Φd2	25	32
E	50	57
ΦF	8.5	8.5



Specifications

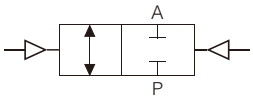
Model/Specifications	DN15	DN20	DN25	DN32	DN40	DN50
Control function	2/2-way pneumatically operated drain valve					
Actuator material	PA actuator /S.S. actuator /aluminum actuator /pneumatic cylinder					
Valve body material	S.S304					
Nominal pressure	PN16(body)					
Operating method	Plunger pilot					
Ambient and fluid	Water, alcohol, oils, fuels, hydraulic fluid, alkaline solutions, salt solution, organic solutions, hot water, steam					
Viscosity	Max.600mm²/s					
Media temperature	-10~120℃					
Ambient temperature	PA: -10~60℃ /Aluminum actuator: -10~140℃					
Installation	As required, preferably with actuator in upright position					
Control medium	Neutral gases, air					
Seat seal	PTFE/FPM/NBR					
Piston seal	FPM/NBR					
Mini.Pilot pressure (bar)	4.5	4.5	4.5	5.0	5.2	4.5
Port size	G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Nominal diameter (mm)	13	18	24	31	35	45

Product feature

2/2-way drain valve
Pneumatically operated, for
medium up to +120℃, threaded
Port and Tri-clamp connection DN 15-50

Symbol

Control function I
(double-acting actuator)



Ordering code

DV100 **P** **015** **NC** □ **S** × **63mm**

Model

DV100	Drain valve threaded ends
DV200	Drain valve tri-clamp ends

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminum actuator
C	Aluminum pneumatic cylinder

Nominal diameter

15	G1/2"
20	G3/4"
25	G1"
32	G1¼"
40	G1½"
50	G2"

Control function

NO	Normally open
NC	Normally closed (standard)
Blank	

Body material

Blank	S.S 304 (standard)

Acting type

S	Single acting
D	Double acting

Actuator size

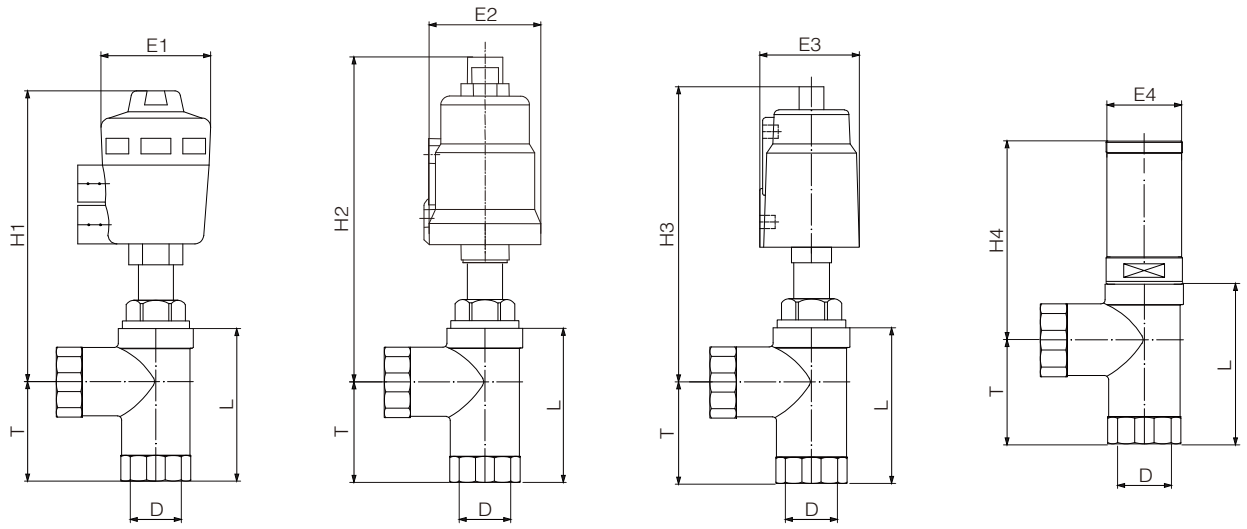
Port size	Standard actuator size (mm)			
	PA	S.S.	AL	C
DN15	40, 50	40, 50	40, 50	25
DN20	40, 50, 63	50, 63, 90	50, 63, 80	25
DN25	40, 50, 63	50, 63, 90	50, 63, 80	32
DN32	63, 80	63, 90	63, 80	40
DN40	63, 80	63, 90	63, 80	50
DN50	63, 80	63, 90	63, 80	63

DV100/DV200 series plunger pilot drain valve is operated by a piston actuator, either single acting or double acting.

Actuators are made of four different materials, applicable to different ambient temperature; 2/2-way stainless steel valve with big flow capacity maintenence free, manual switching can be achieved conveniently.

Dimensions

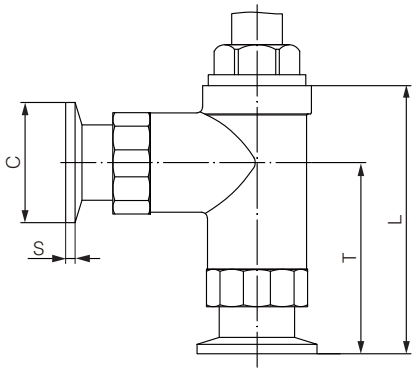
2/2 Way drain valve (Threaded ends)



PA actuator drain valve | S.S. actuator drain valve | Aluminum actuator drain valve | Drain valve(mini cylinder type)

Type	D	T	L	E1	E2	E3	E4	H1	H2	H3	H4
DN 15	G1/2"	47	77	63	63	65	32	174	177	177	105
DN 20	G3/4"	47	77	63	63	65	38	174	177	177	115
DN 25	G1"	55	89	63	63	65	46	177	180	180	130
DN 32	G1¼"	55	89	80	76	77	56	216	215	210	135
DN 40	G1½"	76	117	80	76	77	56	223	222	217	143
DN 50	G2"	76	133	80	76	77	69	239	238	233	165

2/2 Drain valve (Tri-clamp ends)



Type	L	T	C	S
DN 15	97	67	50.5	3.5
DN 20	97	67	50.5	3.5
DN 25	109	75	50.5	3.5
DN 32	112	78	50.5	4.5
DN 40	140	99	64	4.5
DN 50	160	103	64	4.5

DM Series
Diaphragm Valve, Pneumatically Operated(DM10 Tri-Clamp, DM20 Weld Ends)



Specifications

Model/Specifications		DN4/6	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Control function		2/2 Way norma ly closed(NC)/opend (open)								
Actuator material		PA/PPS Actuator								
Valve body material		Stainless steel 316L								
Nominal pressure		PN16(body)								
Pilot pressure		max.7 bar.								
Diaphragm materials		EPDM(AB), PTFE/EPDM(EA), EPDM(AD), advanced PTFE/EPDM(EU) and FKM(FF) on request								
Operating method		Plunger pilot								
Medium		Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids								
Viscosity		Up to viscous								
Medium temperature	EPDM(AB) PTFE/ EPDM(EA)	-10~130℃(steam sterilisation+140℃ for 60min)								
	EPDM(AD) advanced PTFE/ EPDM(EU)	-5~143℃(steam sterilisation+150℃ for 60min)								
	FKM(FF)	-0~130℃(not recommended for steam)								
Ambient temperature		PA Actuator: -10~120℃								
Installation		As required, preferably with actuator in upright position								
Control medium		Neutral gases, air								

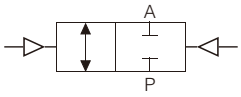
Product feature

2/2-way Diaphragm valve, cast valve body, weld ends and clamp connection, port connection DN 4-50

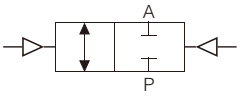
1. Hermetical separation of fluids from the operating mechanism by diaphragm;
2. Zero dead volume;
3. Various surface finishes;
4. Universal accessory program up to control heads;

Symbol

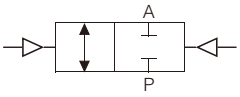
Control function A
(closed by spring force in rest position)



Control function B
(open by spring force in rest position)



Control function I
(double-acting actuator)



Product application

● Water treatment ● Biotechnology ● Food industry

Ordering code

DM10 **P** **015** **NC** □ □ × **63mm**

Model

DM10	10 Diaphragm valve (tri-clamp)
DM20	20 Diaphragm valve (weld ends)

Actuator material code

P	PA Actuator
R	PPS Actuator

Nominal diameter

4	-	20	G3/4"
6	-	25	G1"
8	G1/4"	32	G1¼"
10	G3/8"	40	G1½"
15	G1/2"	50	G2"

Control function

NO	Normally closed by spring action
NC	Normally open by spring action
NA	Double acting

Seal material

AB	EPDM in food grade
AD	EPDM
EA	PTFE/EPDM
FF	FKM
EU	advanced PTFE/EPDM in two pieces

Body material

Blank	Cast stainless steel 316L/1.4435

Actuator size

Port size	Standard actuator size (mm)	
		Connection
DN4	40	weld
DN6	40	weld
DN8	40	weld
DN10	40	weld & tri-clamp
DN15	50, 63	weld & tri-clamp
DN20	63, 80	weld & tri-clamp
DN25	63, 80	weld & tri-clamp
DN32	90, 100	weld
DN40	90, 100	weld & tri-clamp
DN50	90, 100	weld & tri-clamp

The externally piloted diaphragm valve consists of a pneumatically operated piston actuator, a diaphragm and a 2-way valve housing made of investment cast stainless steel;

The standard material of the actuator is PPS, with its favourable flow characteristics and zero dead volume, the valve housing enables high flow capacities and a variety of applications to be realized.

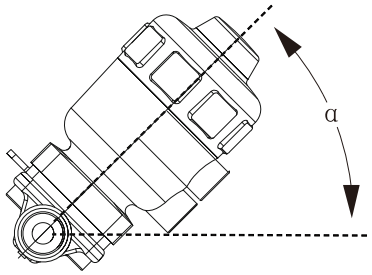
Maintenence free, compatible with various accessories, direction indicating, stroke limiting or manual switching can be achieved conveniently.

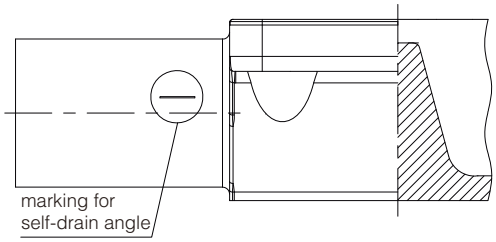
Kv-values

Port size	DN(mm)	Actuator(mm)	Orifice diaphragm size(mm)	Kv-value water [1] (m^3/h)	Pilot pressure (bar)		Max.operating pressure for seal material (bar)	
					min.	max.	EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM
-	DN4/6	40	8	0.8	5.0	7.0	10.0	10.0
G1/4"	DN8	40	8	1.0	5.0	7.0	10.0	10.0
G3/8"	DN10	40	8	1.0	5.0	7.0	10.0	10.0
G1/2"	DN15	50	15	4.0	5.0	7.0	8.5	5.0
		63	15	4.5	5.0	7.0	10.0	10.0
G3/4"	DN20	80	20	7.5	5.0	7.0	10.0	10.0
G1"	DN25	80	25	12.0	5.5	7.0	10.0	7.5
G1¼"	DN32	90	32	30.0	5.5	7.0	6.5	6.0
G1½"	DN40	90	40	30.0	5.5	7.0	10.0	10.0
G2"	DN50	100	50	51.5	5.5	7.0	4.5	2.5

1) Measured at+20! , 1bar pressure at valve inlet and free outlet.
Remark: For low operating pressures we recommend reduced spring versions.

Installation for self-draining operation

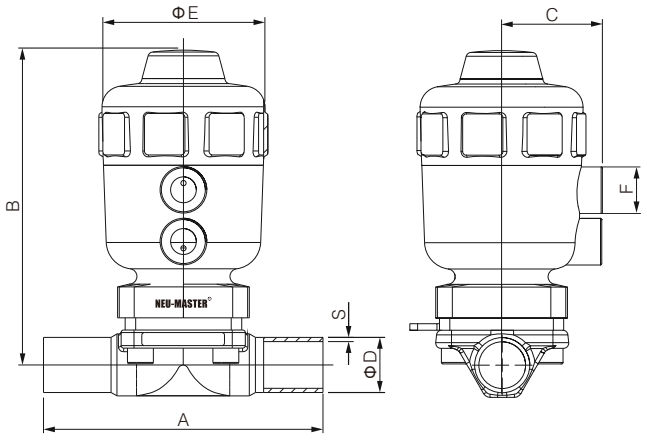




a=15 up to 35 (Marking must face upwards,12 o'clock position), plus 1 to 5 inclination to the pipe axis
Drain marks permanently marked on both sides of the valve body show the correct mounting position to optimise drain ability.

Dimensions

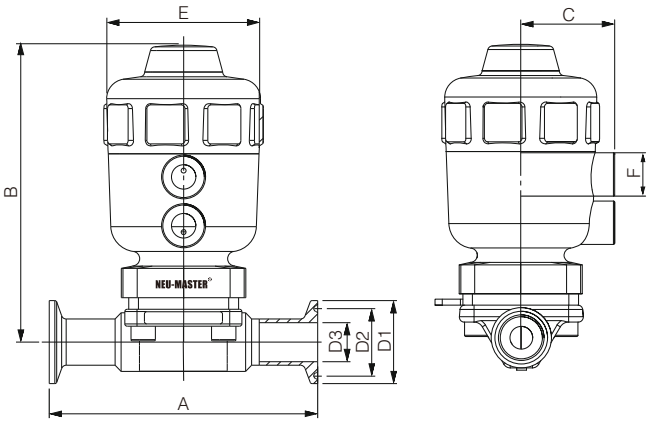
Body with weld ends



Port size	DN(mm)	Actuator	A	B	C	D	S	E	F
-	DN4	40	90	100	34	6.0	1.0	53	G1/8
-	DN6	40	90	100	34	8.0	1.0	53	G1/8
G1/4"	DN8	40	90	100	34	13.5	1.6	53	G1/8
G3/8"	DN10	40	90	100	34	17.2	1.6	53	G1/8
G1/2"	DN15	50	110	121	39	21.3	1.6	64	G1/8
		63	110	138	52	21.3	1.6	80	G1/8
G3/4"	DN20	63	119	148	52	26.9	1.6	80	G1/8
		80	119	174	60	26.9	1.6	101	G1/4
G1"	DN25	63	129	157	52	33.7	2.0	80	G1/8
		80	129	177	60	33.7	2.0	101	G1/4
G1¼"	DN32	90	161	203	65	42.4	2.0	115	G1/4
		100	161	233	73	42.4	2.0	127	G1/4
G1½"	DN40	90	161	203	65	48.3	2.0	115	G1/4
		100	161	233	73	48.3	2.0	127	G1/4
G2"	DN50	90	192	214	65	60.3	2.0	115	G1/4
		100	192	244	73	60.3	2.0	127	G1/4

Weld ends specifications: DN 4/6: DIN 11850; DN 8-DN50: EN ISO1127/ISO 4200

Body with clamp connection



Port size	DN(mm)	Actuator	A	B	C	D1	D2	D3	E	F
G1/4"	DN8	40	89	100	34	25	20.22	7.1	53	G1/8
G3/8"	DN10	40	89	100	34	25	20.22	10.3	53	G1/8
G1/2"	DN15	50	110	121	39	34	27.5	16.0	64	G1/8
		63	110	138	52	34	27.5	16.0	80	G1/8
G3/4"	DN20	63	119	148	52	34	27.5	20.0	80	G1/8
		80	119	174	60	34	27.5	20.0	101	G1/4
G1"	DN25	63	129	157	52	50.5	43.5	22.6	80	G1/8
		80	129	177	60	50.5	43.5	22.6	101	G1/4
G1½"	DN40	90	161	203	65	50.5	43.5	35.6	115	G1/4
		100	161	233	73	50.5	40.5	35.6	127	G1/4
G2"	DN50	90	192	214	65	64	56.5	48.6	115	G1/4
		100	192	244	73	64	56.5	48.6	127	G1/4

Clamp specifications: DN 8-DN10: BS4525; DN 15-DN50: ISO2852

EPV100 Series
Mini Short Stem Angle Seat Valve(Piston Valve\Threaded Port)



Specifications

Model Specifications	Normal Closed	P015NC	P020NC	P025NC	P032NC	P040NC	P050NC
	Normal Open	P015NO	P020NO	P025NO	P032NO	P040NO	P050NO
Body/sctuator material		S.S304 316 /PA, SS, AL					
Operating method		Plunger pilot					
Ambient and fluid		Air, Water, Oil(50CTS Bellow)					
Port size		G1/2"	G3/4"	G1"	G1¼"	G1½"	G2"
Nominal diameter (mm)		13	18	24	31	35	45
Kv (m^3/h)		4.2	9	19	33	42	59
Seat seal		PTFE/FPM/NBR					
Stem seal		PTFE/FPM					
Piston seal		FPM/NBR					
Tempreture of medium		-10~120!					
Installing		Above/below valve seat					

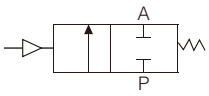
Product feature

2/2-way Angle-seat valve
Pneumatically operated, for medium up to +120℃,
threaded port connection DN 15-50

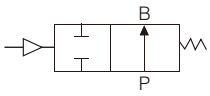
1. High flow rate;
2. Long life cycle;
3. Deliverable with flow direction below or above seat.

Symbol

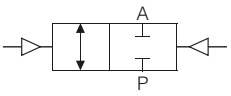
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



Ordering code

EPV100 **P** **015** **NC** □ **S** × **63mm**

Model

EPV100	100 seires angle seat valve

Actuator material code

P	PA Actuator
S	S.S. Actuator
A	Aluminum actuator

Nominal diameter

15	G1/2"
20	G3/4"
25	G1"
32	G1¼"
40	G1½"
50	G2"

Control function

NO	Normally open
NC	Normally closed (standard)

Body material

Blank	S.S 304 (standard)

Acting type

S	Single acting
D	Double acting

Actuator size

Port size	Standard actuator size (mm)		
	PA	S.S.	AL
DN15	40, 50	40, 50	40, 50
DN20	40, 50	40, 50	40, 50
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

EPV100 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:

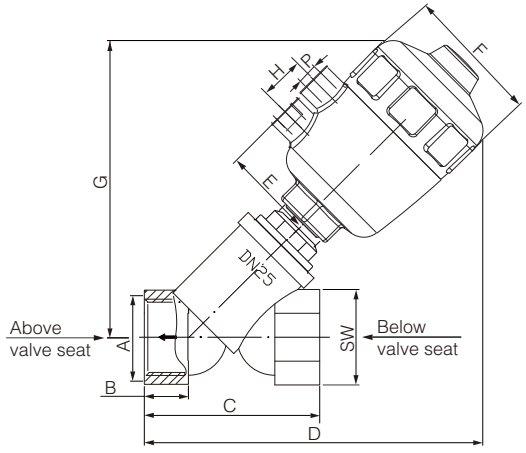
The valve is suitable for neutral gases or liquids, detergents and solvents;

2/2 way stainless steel valve with big flow capacity;

Widely used in industries such as food, textile, medicine, industrial washing equipment, chemical industry. etc.

Dimensions

Female threaded ends-EPV100P



Port size	DN (mm)	Actuator	A	B	C	D	E	F	G	H	P	SW
G1/2"	DN15	40	G1/2"	14	66	116	30	53	98	20	G1/8	28
		50	G1/2"	14	66	136	44	64	110	24	G1/4	28
G3/4"	DN20	50	G3/4"	16	68	141	44	64	115	24	G1/4	32
G1"	DN25	50	G1"	20	80	155	44	64	125	24	G1/4	38
		63	G1"	20	80	171	54	79.5	145	24	G1/4	38
G1¼"	DN32	63	G1¼"	19	93	182	54	79.5	150	24	G1/4	47
G1½"	DN40	63	G1½"	21	104	194	54	79.5	155	24	G1/4	56
G2"	DN50	63	G2"	25	110	207	54	79.5	165	24	G1/4	67
		80	G2"	25	110	220	62	101	179	24	G1/4	67



Specifications

Medium temperature: -10℃ to 180℃
Pilot fluid temperature range: -10℃ to 60℃
Working pressure: 3 bar
Maximum pilot pressure: 6 bar
Pilot fluid：Filtered air
Valve body material: SS304/316/316L
Stuffing box housing material: SS304/316/316L
Stem/Disc material: SS304
Stuffing box packing: PTFE chevrons
Wiper seal: FPM
Disc seal: PTFE
Valve body seal: PTFE

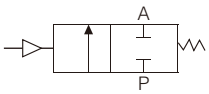
Product feature

2/2-way Angle-seat valve (Filling valve)
Pneumatically pperated, for medium up to +180℃,
Stainless steel actuator dia 32mm Thread port DN 10-20

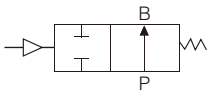
1. Compact style 2/2-way stainless steel valve;
2. Movable seat & V type seals ensure reliable and effective performance;
3. Single acting NC, single acting NO and double acting optional.

Symbol

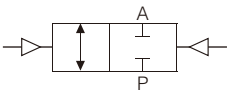
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



Control function I
(double-acting actuator)



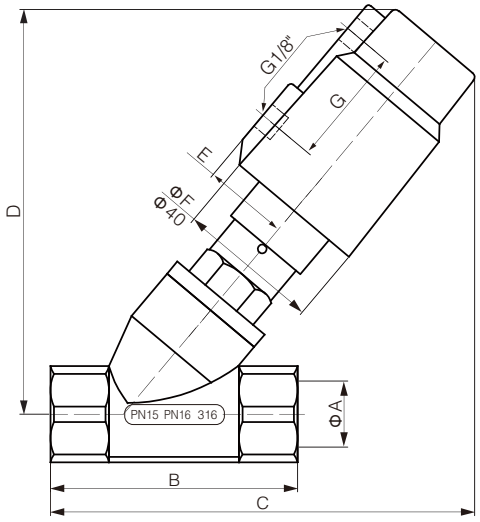
product mix

Series PV32S consists of 2-way direct acting pneumatic filling valve available in normally closed or normally open construction.

Built for specific applications, these valves come in a straight-through body design made of stainless steel.

1. High flow due to angled seat design;
2. Anti-waterhammer design (fluid entry under the disc);
3. Actuator rotatable through 360°;
4. Reliable performance, maintenance-free stuffing box.

Dimensions



32 mm Actuator							
Order code	ΦA	B	C	D	E	ΦF	G
PV32S010	3/8	54.5	93	110	24	40	34
PV32S015	1/2	68.5	119	113.5	24	40	34
PV32S020	3/4	77	129	130.5	24	40	34

PV32P Series
Pneumatically Operated Angle Seat Valve(ASCO Type)



Specifications

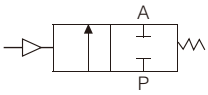
Ambient temperature range: -10℃ to 60℃
Pilot fluid temperature range: -10℃ to 60℃
Maximum allowable pressure: 16 bar
Maximun viscosity: 600 cst (mm^2/s)[1)]
Maximun pilot pressure: 10 bar
Pilot fluid: Filtered air or water
Valve body material: SS304/316/316L
Stuffing box housing material: SS304/316/316L
Stem/Disc material: SS304
Stuffing box packing: PTFE chevrons
Wiper seal: FPM
Disc seal: PTFE
Valve body seal: PTFE
1)For higher viscosity applications, please consult AXM.

Product feature

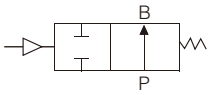
2/2-way Angle body multi-purpose valves
Pneumatically pperated, for medium up to +120℃,
32mm PA actuator Thread port DN 10-20

Symbol

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



Control function B
(open in rest position)



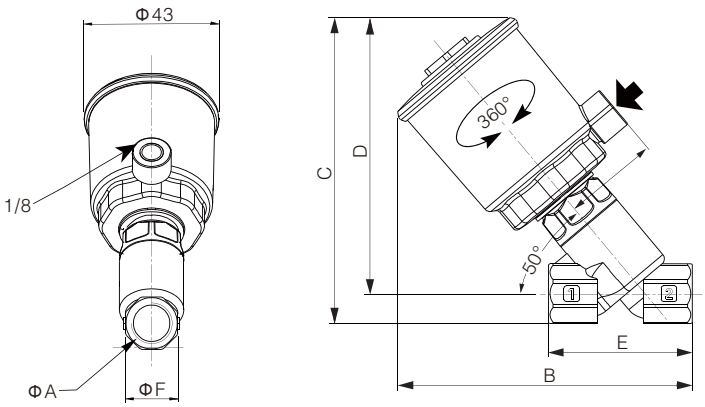
product mix

Series PV32P consists of 2-way direct acting valve available in normally closed or normally open construction.

Built for specific applications, these valves come in a straight-through body design made of stainless steel.

1. High flow due to angle seat design;
2. Anti-waterhammer design (fluid entry under the disc);
3. Vacuum operation up to 10 mbar;
4. Actuator rotatable through 360°;
5. Reliable performance, maintenance-free stuffing box.

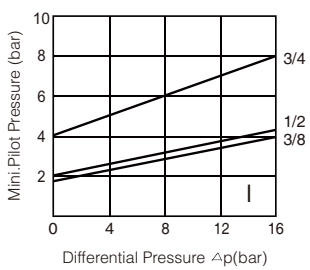
Dimensions

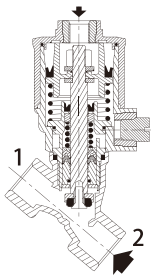


32 mm Actuator						
Order code	ΦA	B	C	D	E	ΦF
PV32P010	3/8	92	93	81.5	68	28
PV32P015	1/2	99	97	83.5	68	28
PV32P020	3/4	107	104	88	75	32

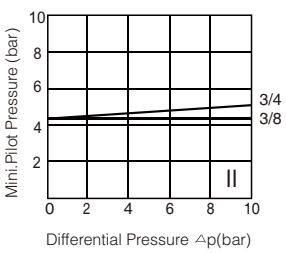
32mm Actuator graphs for steam and fluids

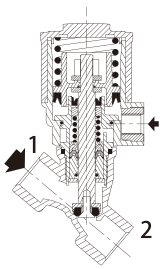
Normally open valve-entry under disc





Normally closed valve-entry above disc





GV500A Series
Globe Control Valve, Pneumatically Operated(Big Actuator)



Product feature

2/2-way Globe control valve,
Pneumatically operated, for medium up to +150℃,
Threaded port connection DN 15-65

1. Classical design, Long life cycle;
2. NC, NO or double acting liberty is optional
3. Structure in coaxial stop,leakage proof and high flow rate
4. Saving energy

product mix

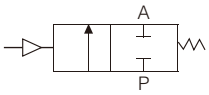
GV500 series external pilot control valve, driven by a piston actuator of single or double action, is superior in its simple construction, sensitive response and reliable operation, etc

Specifications

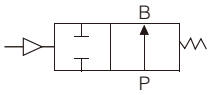
Ambient temperature range: -10℃ to 60℃
Pilot fluid temperature range: -10℃ to 60℃
Maximum allowable pressure: 16 bar
Maximun viscosity: 600 cst (mm^2/s)[1)]
Ambient and fluid: Air, water, oil and light viscosity fluid
Maximun pilot pressure: 10 bar
Pilot fluid: Filtered air
Valve body material: SS304/316/316L
Stuffing box housing material: Aluminium
Actuator material: Aluminium
Stem/Disc material: SS304
Wiper seal: FPM
Disc seal: PTFE
1)For higher viscosity applications, please consult AXM.

Symbol

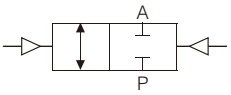
Control function A
(closed by spring force in rest position)



Control function B
(open in rest position)



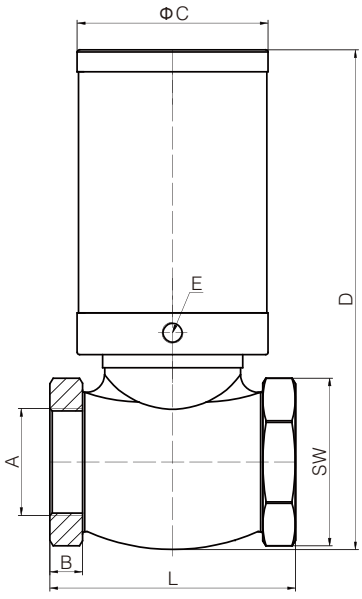
Control function I
(double-acting actuator)



Actuator Size

Port size	Standard actuator size (mm)	Big actuator size (mm)
DN15	25	32
DN20	25	32
DN25	32	40
DN32	40	50
DN40	50	63
DN50	63	80
DN65	80	100

Dimensions



GV500A (big actuator)							
Order code	A	B	ΦC	D	E	L	SW
GV500A015	1/2	12	31	102	G1/8	57	26
GV500A020	3/4	12	38	120	G1/8	67	35
GV500A025	1	12	46	138	G1/8	72	42
GV500A032	1 ¼	16	56	154	G1/8	85	50
GV500A040	1 ½	16	69	178	G1/8	98	56
GV500A050	2	22	87	229	G1/8	112	68
GV500A065	2 ½	22	108	260	G1/4	138	84