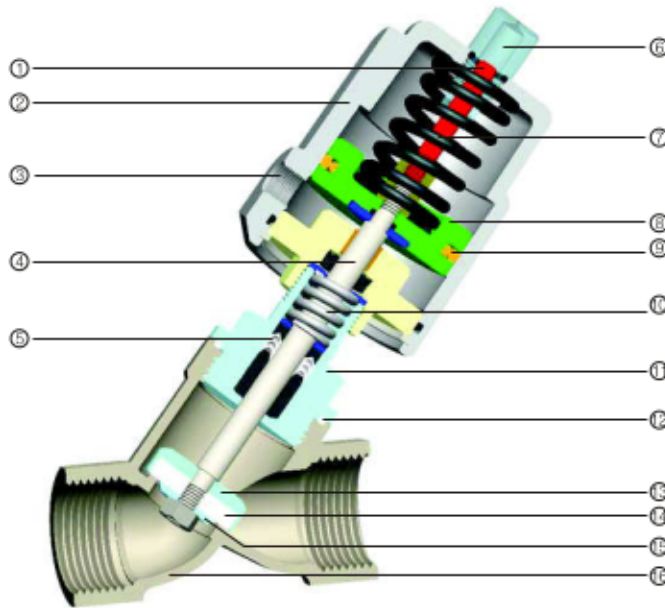


Pneumatic Angle Seat Valve



- ① Indication Rod (nylon)
- ② Actuator (CF8)
- ③ Pilot Part (1/8")
- ④ Stem (AISI316/304)
- ⑤ Stem Seal (PTFE)
- ⑥ Cap (PC)
- ⑦ Spring (Steel 65Mn)
- ⑧ Piston (Alu.alloy)
- ⑨ Piston Seal (Viton)
- ⑩ Seal Spring (AISI304)
- ⑪ Connecting Piece (CF8M/CF8)
- ⑫ Body Seal (PTFE)
- ⑬ Valve core (CF8M/CF8)
- ⑭ Seat Seal (PTFE)
- ⑮ Gasket (AISI316/304)
- ⑯ Body (CF8M/CF8)

Function Principle

Valve stays closed(open) by spring force in its normal state. When piston is actuated by compressed air, valve becomes opened(closed). For double acting type, valve is opened and closed by compressed air.

Applications

- Beer & Drinks Bottling Machinery
- Textile Printing & Dyeing
- Gas Industry
- Pharmacy & Medical Equipment
- Chemical Industry
- High-temperature disinfection
- Frothing Equipment
- Water/Sewage treatment

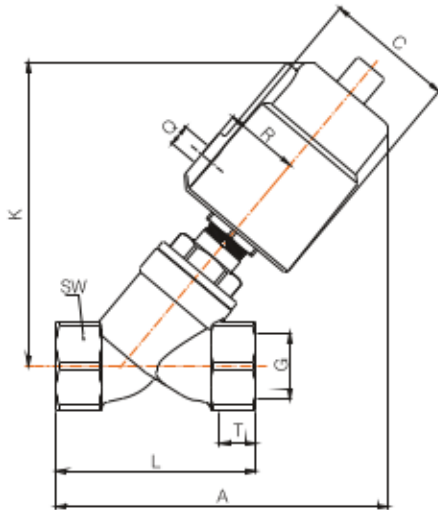
Advantages

- Large flux, low resistance, no water-hammer
- Y-type shape with enlarged flowing section raises flux by 30% and smoothens the flow.
- Superb service life.
- The stem adjusts and lubricates itself automatically, minimizing needs for maintenance.
- The cylinder can rotate 360° unconstrained, and uses stainless steel material, which enables superior performance.

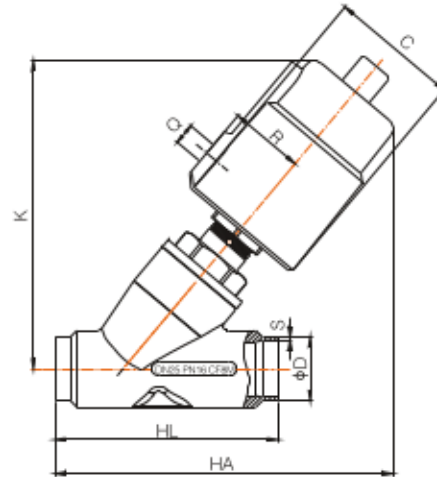
Technical Specification

Fluid Pressure	Max 1.6MPa(232psi)
Control Pressure	0.3 — 0.8MPa (43.5 — 116psi)
Control Fluid	Neutral gas, Air
Body Material	CF8M/CF8
Seals Material	PTFE
Actuator Material	CF8
Actuator Size	40mm, 50mm, 63mm, 90mm, 125mm
Applicable Fluid	Water, Alcohol, Oil, Fuel, Steam, Neutral gas or liquid, Organic solvent, Acid and lye
Fluid Viscosity	Max 600mm ² /s
Fluid Temperature	-10°C — +180°C, +25°C — +220°C
Ambient Temperature	-10°C — +80°C
Control Type	Normally closed, Normally open, Double acting
Connection	Threaded(BSP, BSPT, NPT), Welded, Flanged, Tri-clamp

Pneumatic Angle Seat Valve



Threaded Connection

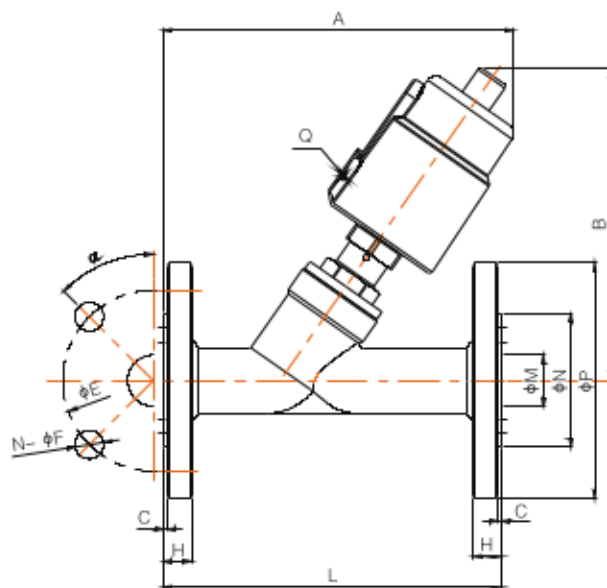


Welded Connection

Main Dimension

Size	Actuator (mm)	Q	C	R	K	Threaded connection					Welded connection					
						G	T	A	L	SW	HA	HL	DIN11850-2		DIN11850-3	
													D	S	D	S
DN10	40	1/8"	50.5	27	112	3/8"	12	124	68	27	-	-	-	-	-	-
	50	1/8"	60	33	125			135			-	-	-	-	-	
DN15	40	1/8"	50.5	27	112	1/2"	15	124	68	27	118	70	19	1.5	20	2
	50	1/8"	60	33	125			135			128					
DN20	50	1/8"	60	33	132	3/4"	16	140	75	32	135	82	23	1.5	24	2
DN25	50	1/8"	60	33	136	1"	17	150	90	40	150	100	29	1.5	30	2
	63	1/8"	75	41	162			172			175					
	90AL	1/8"	112	57	210			215			216					
	90	1/8"	106	55	211			216			218					
DN32	63	1/8"	75	41	174	1 1/4"	21	190	116	50	186	125	35	1.5	36	2
	90AL	1/8"	112	57	220			230			232					
	90	1/8"	106	55	223			235			232					
DN40	63	1/8"	75	41	175	1 1/2"	21	190	116	56	190	130	41	1.5	42	2
	90AL	1/8"	112	57	220			230			232					
	90	1/8"	106	55	223			235			235					
DN50	63	1/8"	75	41	183	2"	22	205	138	69	206	155	53	1.5	54	2
	90AL	1/8"	112	57	232			245			247					
	90	1/8"	106	55	232			250			250					
	125AL	1/4"	170	85	300			305			307					
DN65	90AL	1/8"	112	57	262	2 1/2"	26	282	178	85	-	-	-	-	-	-
	90	1/8"	106	55	265			285			-					
	125AL	1/4"	170	85	315			327			-					
DN65 Square opening	90AL	1/8"	112	57	280	2 1/2"	26	270	178	85	315	270	70	2	-	-
	90	1/8"	106	55	280			275			320				-	
	125AL	1/4"	170	85	330			320			360				-	
	DN80 Square opening	125AL	1/4"	170	85			355			340				210	100
DN80	125AL	1/4"	170	85	327	3"	27	380	210	100	-	-	-	-	-	-

Flange Ends Angle Seat Valve

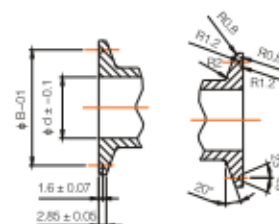
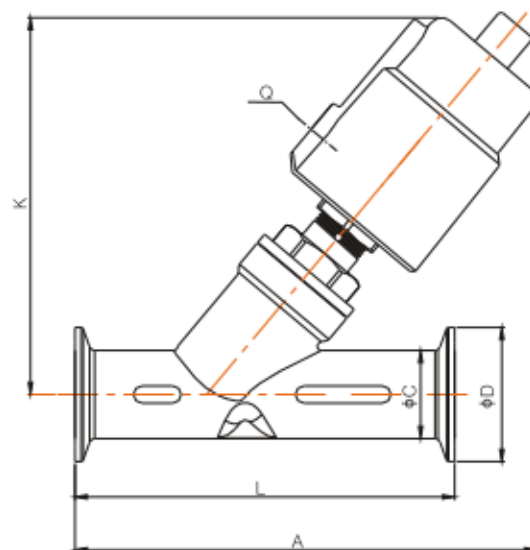


Flange specification:
DIN2576(JB/T82.1); customization available, ISO/DIN/JIS is also available

Main Dimension

Size	Actuator (mm)	Q	A	B	L	C	H	φE	N-φF	φM	φN	φP	α
DN15	40	G1/8	135	125	130	2	14	65	4-14	16	45	95	45°
	50		145	140									
DN20	50	G1/8	165	140	150	2	14	75	4-14	19	56	105	45°
DN25	50	G1/8	170	145	160	2	14	85	4-14	26	65	115	45°
	63		190	175									
DN32	63	G1/8	190	188	180	2	16	100	4-18	31	78	140	45°
	90		230	235									
	90AL		225	234									
DN40	63	G1/8	206	190	200	3	16	110	4-18	38	84	150	45°
	90		250	240									
	90AL		244	235									
DN50	63	G1/8	235	195	230	3	16	125	4-18	49	100	165	45°
	90		277	245									
	90AL		275	245									
	125AL	G1/4	330	310									
DN65 Square opening	90	G1/8	330	280	290	3	18	145	4-18	66	120	185	45°
	90AL		325	280									
	125AL	G1/4	375	330									
DN80 Square opening	125AL	G1/4	380	355	310	3	20	160	8-18	78	135	200	22.5°
DN100	125AL	G1/4	420	395	350	3	20	180	8-18	96	155	215	22.5°

Tri-clamp Ends Angle Seat Valve



Clamp Specification:
ISO2852-1993, customization available.

Main Dimension

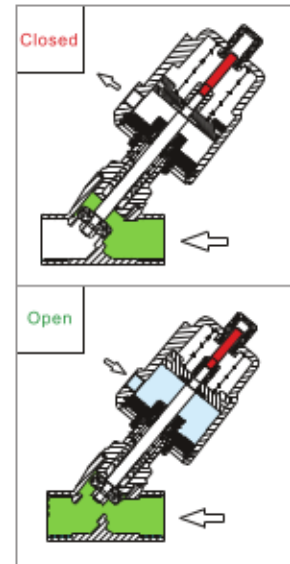
Size	Actuator (mm)	Q	A	K	L	C	B	φ d	φ D
DN15	40	1/8"	130	115	80	19	27.5	15	34
	50	1/8"	140	126					
DN20	50	1/8"	158	148	130	25	43.5	19	50.5
	63	1/8"	175	163					
DN25	50	1/8"	165	140	130	32	43.5	27	50.5
	63	1/8"	188	166					
DN32	63	1/8"	200	174	146	37	43.5	31	50.5
	90	1/8"	245	223					
	90AL	1/8"	242	222					
DN40	63	1/8"	210	175	160	40	56.5	33	64
	90	1/8"	255	223					
	90AL	1/8"	254	222					
DN50	63	1/8"	221	185	175	53	56.5	45	64
	90	1/8"	265	235					
	90AL	1/8"	265	232					
	125AL	1/4"	325	296					
DN65 Square opening	90	1/8"	325	280	278	75	83.5	66	91
	90AL	1/8"	320	280					
	125AL	1/4"	360	330					
DN80 Square opening	125AL	1/4"	360	352	290	89	97	78	106

Pressure Data Sheet

Single Acting, Normally Closed (NC) – Enter Above Seat

Suitable for condensable media, such as air, steam, and low pressure liquid media.

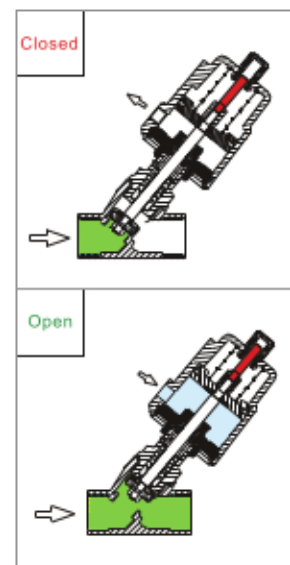
Size	Thread end	Orifice (mm)	Kv (m ³ /h)	Actuator (mm)	ΔP (MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0–1.6	0.3–0.45
				50	0–1.6	0.3–0.35
DN15	G1/2"	13	4.7	40	0–1.6	0.3–0.45
				50	0–1.6	0.3–0.35
DN20	G3/4"	18	9.5	50	0–1.6	0.3–0.4
DN25	G1"	24	18.1	50	0–1.6	0.3–0.45
				63	0–1.6	0.3–0.35
				90	0–1.6	0.2–0.25
DN32	G1–1/4"	31	23.1	63	0–1.6	0.3–0.55
				90	0–1.6	0.2–0.35
DN40	G1–1/2"	35	32.9	63	0–1.6	0.3–0.65
				90	0–1.6	0.2–0.4
DN50	G2"	45	52.8	63	0–0.9	0.3–0.7
				90	0–1.6	0.2–0.45
				125	0–1.6	0.2–0.3
DN65	G2–1/2"	61	82.6	90	0–1.0	0.2–0.6
				125	0–1.6	0.2–0.4
DN80	G3"	80	127	125	0–1.2	0.2–0.7



Single Acting, Normally Closed (NC) – Enter Below Seat (NO Water-hammer)

Flow enters below seat, avoid water hammer

Size	Thread end	Orifice (mm)	Kv (m ³ /h)	Actuator (mm)	ΔP (MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0–1.3	0.4
				50	0–1.4	0.45
DN15	G1/2"	13	4.7	40	0–1.3	0.4
				50	0–1.4	0.45
DN20	G3/4"	18	9.5	50	0–1.4	0.45
DN25	G1"	24	18.1	50	0–0.8	0.45
				63	0–1.3	0.5
				90	0–1.4	0.35
DN32	G1–1/4"	31	23.1	63	0–0.6	0.5
				90	0–1.6	0.6
DN40	G1–1/2"	35	32.9	63	0–0.5	0.5
				90	0–1.6	0.6
DN50	G2"	45	52.8	63	0–0.3	0.5
				90	0–1.0	0.6
				125	0–1.6	0.55
DN65	G2–1/2"	61	82.6	90	0–0.6	0.6
				125	0–0.9	0.55
DN80	G3"	80	127	125	0–0.5	0.55
DN100	G4"	90	143	125	0–0.25	0.55

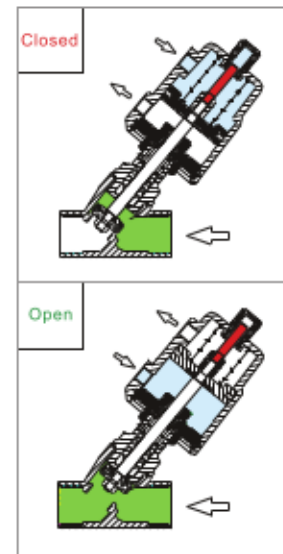


Pressure Data Sheet

Double Acting, Normally Closed (NC) – Enter Above Seat

Suitable for higher ΔP ; valve can close automatically in case of emergency.

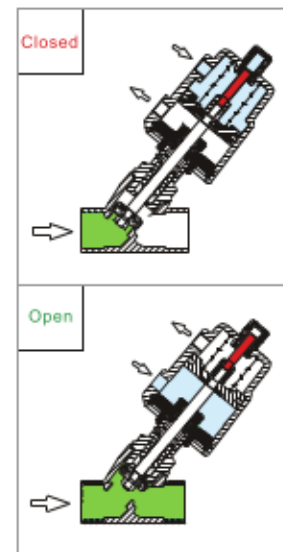
Size	Thread end	Orifice (mm)	Kv (m ³ /h)	Actuator (mm)	ΔP (MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0–1.6	0.3–0.45
				50	0–1.6	0.3–0.35
DN15	G1/2"	13	4.7	40	0–1.6	0.3–0.45
				50	0–1.6	0.3–0.35
DN20	G3/4"	18	9.5	50	0–1.6	0.3–0.4
DN25	G1"	24	18.1	50	0–1.6	0.3–0.45
				63	0–1.6	0.3–0.35
				90	0–1.6	0.2–0.25
DN32	G1–1/4"	31	23.1	63	0–1.6	0.3–0.55
				90	0–1.6	0.2–0.35
DN40	G1–1/2"	35	32.9	63	0–1.6	0.3–0.65
				90	0–1.6	0.2–0.4
DN50	G2"	45	52.8	63	0–0.9	0.3–0.7
				90	0–1.6	0.2–0.45
				125	0–1.6	0.2–0.3
DN65	G2–1/2"	61	82.6	90	0–1.0	0.2–0.6
				125	0–1.6	0.2–0.4
DN80	G3"	80	127	125	0–1.2	0.2–0.7



Double Acting, Normally Closed (NC) – Enter Below Seat(No Water-hammer)

Flow enters below seat, avoid water hammer, suitable for higher ΔP .

Size	Thread end	Orifice (mm)	Kv (m ³ /h)	Actuator (mm)	ΔP (MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0–1.6	≥ 0.3
				50	0–1.6	≥ 0.3
DN15	G1/2"	13	4.7	40	0–1.6	≥ 0.3
				50	0–1.6	≥ 0.3
DN20	G3/4"	18	9.5	50	0–1.6	≥ 0.3
DN25	G1"	24	18.1	50	0–1.3	0.3–0.6
				63	0–1.6	0.3–0.4
				90	0–1.6	0.2–0.3
DN32	G1–1/4"	31	23.1	63	0–1.6	0.3–0.6
				90	0–1.6	0.2–0.4
DN40	G1–1/2"	35	32.9	63	0–1.6	0.3–0.7
				90	0–1.6	0.2–0.5
DN50	G2"	45	52.8	63	0–0.8	0.3–0.75
				90	0–1.6	0.2–0.6
				125	0–1.6	0.2–0.4
DN65	G2–1/2"	61	82.6	90	0–1.1	0.2–0.7
				125	0–1.6	0.2–0.55
DN80	G3"	80	127	125	0–1.6	0.2–0.65
DN100	G4"	90	143	125	0–1.2	0.4–0.5

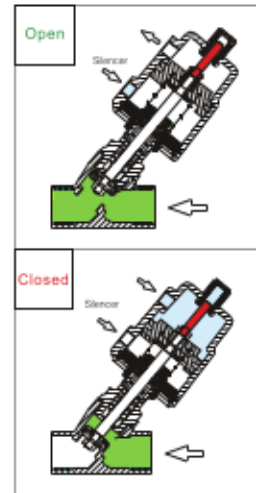


Pressure Data Sheet

Normally Open(NO)-Enter Above Seat

Suitable for long time open-valve application. With the silencer taken off, valve can be changed to double acting-NO type.

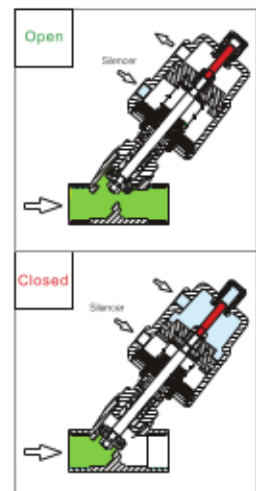
Size	Thread end	Orifice(mm)	Kv(m ³ /h)	Actuator(mm)	ΔP(MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0-1.6	≥ 0.3
				50	0-1.6	≥ 0.3
DN15	G1/2"	13	4.7	40	0-1.6	≥ 0.3
				50	0-1.6	≥ 0.3
DN20	G3/4"	18	9.5	50	0-1.2	≥ 0.3
DN25	G1"	24	18.1	50	0-0.3	≥ 0.3
				63	0-1.6	≥ 0.45
DN32	G1-1/4"	31	23.1	63	0-1.4	≥ 0.45
DN40	G1-1/2"	35	32.9	63	0-1.4	≥ 0.45
DN50	G2"	45	52.8	63	0-0.6	≥ 0.45



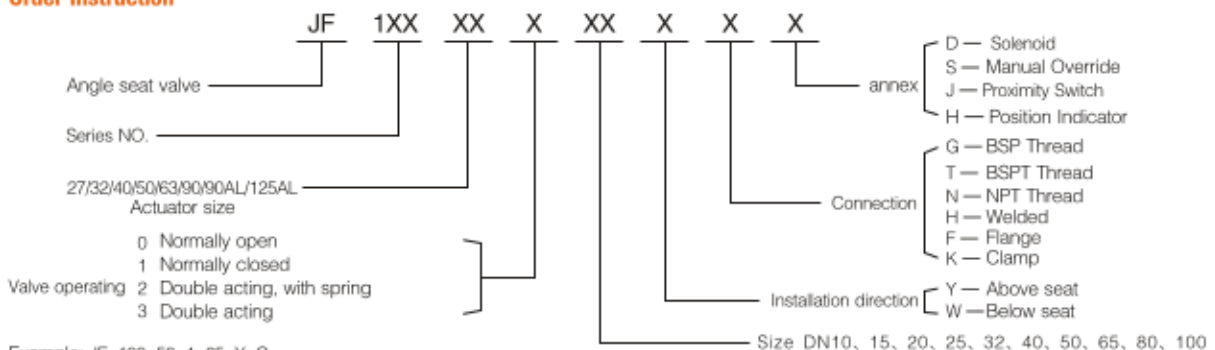
Normally Open(NO)-Enter Below Seat (NO water-hammer)

Suitable for long time open-valve application, avoid water hammer. With the silencer taken off, valve can be changed to double acting-NO type.

Size	Thread end	Orifice (mm)	Kv (m ³ /h)	Actuator (mm)	ΔP(MPa)	Control pressure (MPa)
DN10	G3/8"	13	3.8	40	0-1.6	0.2-0.5
				50	0-1.6	0.2-0.4
DN15	G1/2"	13	4.7	40	0-1.6	0.2-0.5
				50	0-1.6	0.2-0.4
DN20	G3/4"	18	9.5	50	0-1.6	0.2-0.6
DN25	G1"	24	18.1	50	0-1.3	0.2-0.6
				63	0-1.6	0.25-0.5
DN32	G1-1/4"	31	23.1	63	0-1.3	0.25-0.6
DN40	G1-1/2"	35	32.9	63	0-0.7	0.25-0.6
				90	0-1.6	0.3-0.35
				63	0-0.5	0.25-0.6
DN50	G2"	45	52.8	90	0-1.2	0.25-0.6
				125	0-1.4	0.25-0.7
DN65	G2-1/2"	61	82.6	125	0-0.75	0.25-0.5
DN80	G3"	80	127	125	0-1.2	0.25-0.7



Order Instruction



Example: JF 100 50 1 25 Y G

Means: Angle seat valve, Series 100, Actuator Φ50, Normally close single acting, DN25 enter above seat, BSP thread.