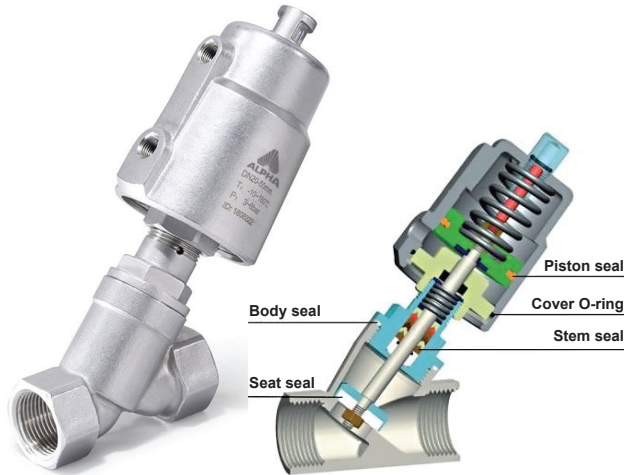


PNEUMATIC ANGLE SEAT PISTON VALVE

STAINLESS STEEL 316



FUNCTION PRINCIPLE

Valve stay closed(opened) 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.

ADVANTAGES

1. Large flux, low resistance, prevent water-hammer
2. Y-type raises flux by 30% and make flow more smooth.
3. Long working life.
4. The stem adjusts and lubricates itself automatically, minimizing need for maintenance.
5. The stainless steel actuator can be rotated 360° for flexible uses.

TECHNICAL SPECIFICATION

Operating Pressure: 0-16bar (0-232psi)

Control Pressure: 3-8bar (43.5-116psi)

Control Fluid: Neutral gas, Air

Body Material: SS316 (CF8M)

Seals Material: PTFE

Actuator Material: SS304 (CF8) (40mm-90mm Actuator),
: Aluminium (125mm Actuator)

Actuator Size: 40mm, 50mm, 63mm, 90mm, 125mm

Applicable Fluid: Water, Alcohol, Oil, Fuel, Steam (Max.10Bar),
Neutral gas or Liquid, Organic solvent, Acid and lye

Fluid Viscosity: Max. 600 Cst. (mm²/S)

Fluid Temperature: -10°C — +180°C

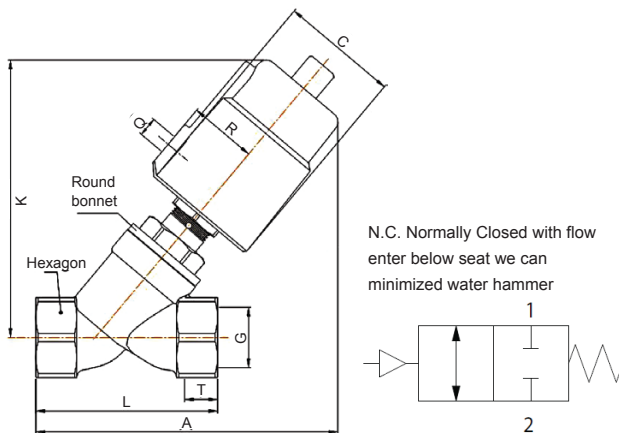
Ambient Temperature: -10°C — +80°C

Control Type:** Normally closed, Single acting spring return.

Connection:** Thread BSP

Leakage Class: EN 12266 Class A

** Others optional on request



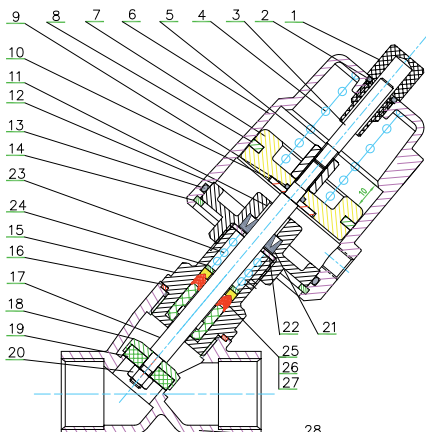
SINGLE ACTING , NC						Flow Enter Below Seat Minimize Water hammer		Flow Enter Above Seat		Dimension in mm.						
DN mm	G Inch	Q Inch	Orifice mm	Kv m ³ /hr	Actuator mm	ΔP Bar	Min Air Supply Bar	ΔP Bar	Min Air Supply Bar	C	R	K	T	A	L	Hexagon
15	1/2"	1/8"	13	4.3	40	13	4.0	16	3.0-4.5	50.5	27	112	15	124	68	27
15	1/2"	1/8"	13	4.3	50	14	4.5	16	3.0-3.5	60	33	125	15	135	68	27
20	3/4"	1/8"	18	7.6	50	14	4.5	16	3.0-4.0	60	33	132	16	140	75	32
25	1"	1/8"	24	15.8	50	8	4.5	16	3.0-4.5	60	33	136	17	150	90	40
25	1"	1/8"	24	15.8	63	13	5	16	3.0-3.5	75	41	162	17	172	90	40
32	1-1/4"	1/8"	31	26	63	6	5.0	16	3.0-5.5	75	41	174	21	190	116	50
32	1-1/4"	1/8"	31	26	90	16	6.0	16	3.0-3.5	106	55	223	21	235	116	50
40	1-1/2"	1/8"	35	32	63	5	5.0	16	3.0-6.5	75	41	175	21	190	116	56
40	1-1/2"	1/8"	35	32	90	16	6.0	16	3.0-4.0	106	55	223	21	235	116	56
50	2"	1/8"	45	52	63	2	5.0	9	3.0-7.0	75	41	183	22	205	138	69
50	2"	1/8"	45	52	90	10	6.0	16	3.0-4.5	106	55	232	22	250	138	69
50	2"	1/4"	45	52	125	16	5.5	16	3.0-4.0	170	85	300	22	305	138	69

Select the valve based on differential pressure and air supply pressure, ensuring sufficient force for the application.



PNEUMATIC ANGLE SEAT PISTON VALVE

STAINLESS STEEL 316



1	CAP	PC	15	Connection	CF8M
2	O-RING	NBR	16	Body Seal	PTFE
3	Indication Rod	Nylon	17	Stem	SS 316
4	Spring	65Mn	18	Valve Core	CF8M
5	NUT	Al.	19	Seat	PTFE
6	Cylinder	CF8	20	Hex Nut	SS 316
7	Piston	Al.	21	Y-RING	VITON
8	Piston Seal	VITON	22	Washer I	SS 304
9	O-RING	NBR	23	Spring	SS 304
10	Piston Washer	SS 304	24	Washer I	SS 304
11	Bearing	Alloy	25	Stem Seal I	M111+carbon
12	Cover	SS 304	26	Stem Seal II	TFM1600
13	O-RING	NBR	27	Stem Seal III	M111+carbon
14	Check Ring	SS304	28	Valve Body	CF8M



PROXIMITY SWITCH

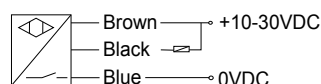
Proximity switch can be mounted on angle seat valves of all sizes to monitor and feedback open state of the valve.

TECHNICAL SPECIFICATION

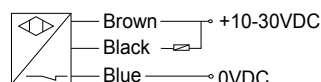
- **Operating pressure:**
10-30V DC
- **Protection class:**
IP67
- **Detection distance:**
3mm ± 10%
(Customization available)
- **Temperature range:**
-25°C—+70°C
- **Enclosure material:**
brass nickel plating
- **Probe material:**
ABS
- **Leakage class:**
DIN EN 12266 Class A

OUTPUT SIGNAL

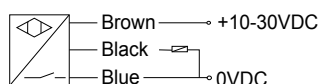
NPN-NO



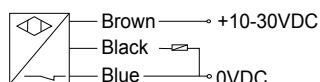
NPN-NC



PNP-NO



PNP-NC



SOLENOID VALVE

Apply to angle seat valve with any aperture size. Connect to 5/2 or 3/2 way solenoid valve.

TECHNICAL SPECIFICATION

- **Applicable Medium:**
Air (Filtered by 40µm mesh)
- **Protection level:**
IP65
- **Connection type:**
G1/8"
- **Power:**
24V DC or 220V AC
- **Air pressure:**
1.5-8bar (22-116psi)
- **Temperature range:**
-5°C—+50°C
- **Leakage class:**
DIN EN 12266 Class A



MANUAL OVERRIDE

Can adjust piston position, restrict travel, and regulate flow. Applicable to all types of angle seat valves. Can be used for emergency control, in case of lack of control fluids or electrical/ mechanical failure.

TECHNICAL SPECIFICATION

- **Handwheel material:**
die-casted Aluminum
- **Control type:**
Normally closed
- **Leakage class:**
DIN EN 12266 Class A
- **Suitable for**
40/50/63/90mm actuator



POSITION INDICATOR

Position Indicator can be mounted on angle seat valves of all sizes to monitor and feedback both open and close states of the valve.

TECHNICAL SPECIFICATION

- **Operating pressure:**
12V DC - 36V DC
- **Current:** 25mA/24V DC
- **Indicator:** visually signal valve open/close state
- **Temperature range:**
-10°C—+80°C
- **Protection level:** IP65
- **Explosion-proof:** Ex nA IIC T4
- **Shell material:** PA6+PC
- **Wiring instruction:**
open clear lid, thread the cord through opening and connect to desired ports.
- **Leakage class:**
DIN EN 12266 Class A

