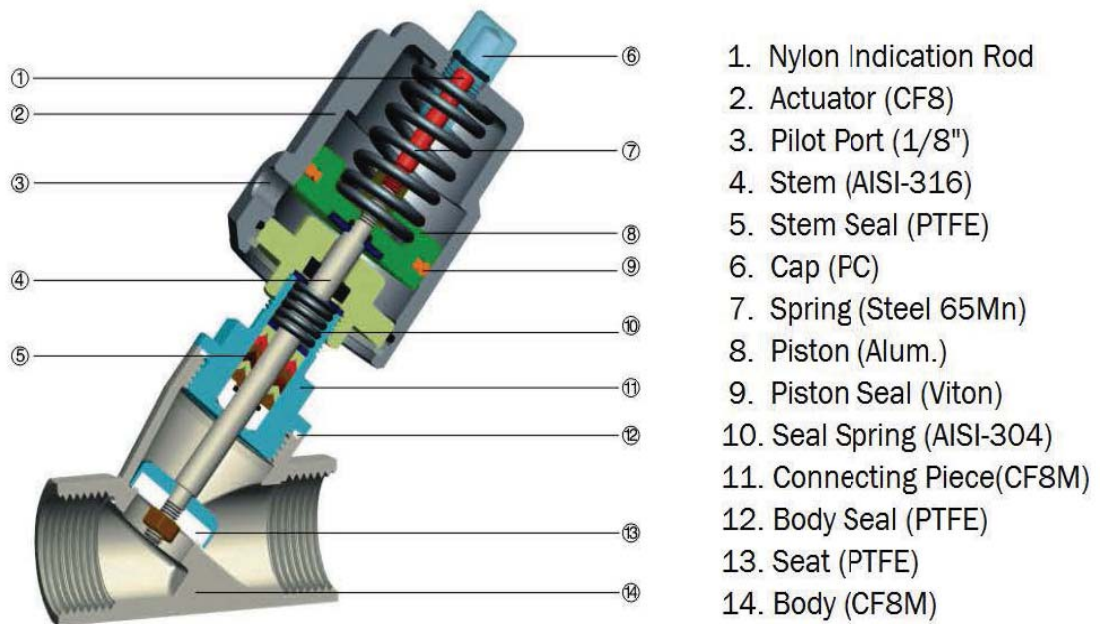


100 Series Pneumatic Angle Seat Valve



Function Principle:

- **Single Action** Seat is held in closed position by spring force. Compressed air is applied to actuator to open.
- **Double Action** is opened and closed by compressed air.

Applications:

- Beverage Filling
- Textiles Printing & Dyeing
- Natural Gas
- Pharma. & Medical Equipment
- Chemical Equipment
- Disinfection
- Frothing
- Water/ Sewage Disposal
- Boilers

Advantages:

- Large flux, low resistance, water-hammer eliminating design
- Enlarged Y shaped flow section smooths flow and raises flux
- 316L Stainless components offer extreme long life and durability
- Self lubricating stainless actuator rotates 360°

Technical Data

Fluid Pressure	Max 1.6MPa (232 psi)
Control Pressure	0.3 - 0.8MPa (43.5 - 116psi)
Control Fluid	Neutral gas or air
Body Material	SS316 (CF8M) / SS304 (CF8)
Seal Material	PTFE
Actuator Material	SS304 (CF8)
Actuator Size	40mm, 50mm, 63mm, 90mm, 125mm
Applicable Fluids	Water, Alcohol, Oil, Steam, Neutral gas, Organic solvent, Acid and Lye
Fluid Viscosity	Max 600mm ² /s
Fluid Temperature	-10°C to +180°C, 25°C to 220°C
Ambient Temperature	-10°C to 80°C
Control Types	Normally closed, Normally open, Double acting
Connections	Threaded (NPT, BSP) Welded, Flanged, Tri-clamp

100 Series

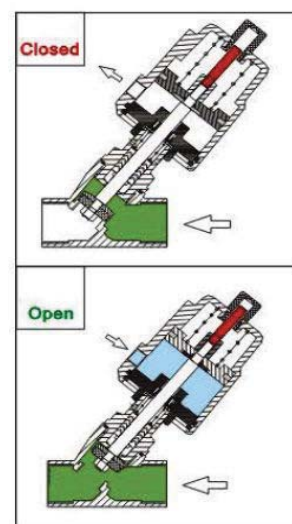
100 Series Pneumatic Angle Seat Valve

△ Pressure Data Sheet

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

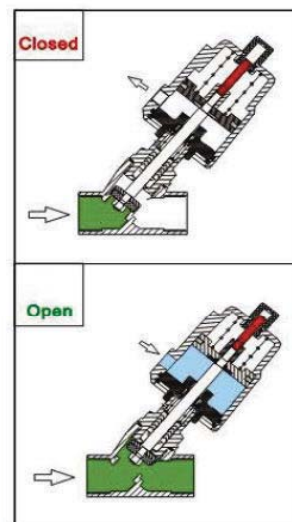


Size	Thread End	Orifice (mm)	Kv(m3/h)	Actuator (mm)	Pressure (psi)	Control Pressure (psi)
DN10	3/8"	13	3.8	40	232	43 - 65
				50	232	43 - 50
DN15	1/2"	13	4.7	40	232	43 - 65
				50	232	43 - 50
DN20	3/4"	18	9.5	50	232	43 - 58
DN25	1"	24	18.1	50	232	43 - 65
				63	232	43 - 50
DN32	1-1/4"	31	23.1	63	232	43 - 80
				90	232	36 - 50
DN40	1-1/2"	35	32.9	63	232	43 - 94
				90	232	36 - 58
DN50	2"	45	52.8	63	145	43 - 101
				90	232	36 - 65
DN65	2-1/2"	61	82.6	90	145	36 - 87
				125	232	43 - 58
DN80	3"	80	127	125	232	43 - 101

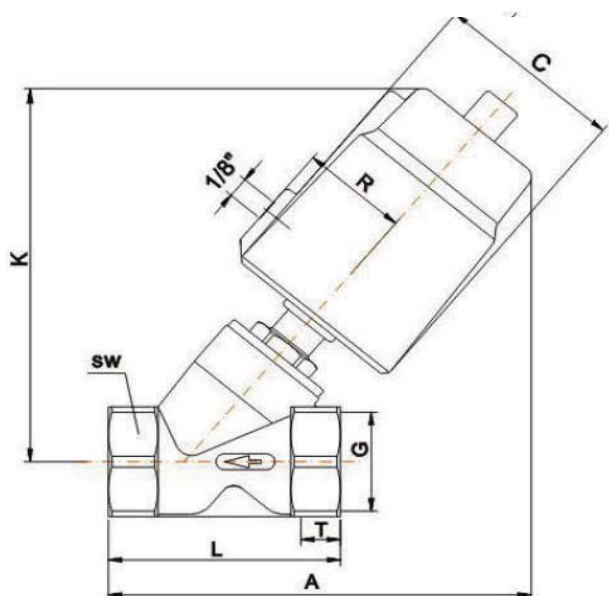


Single Acting, Normally Closed (NC) - Enter Below Seat (No Water-hammer)

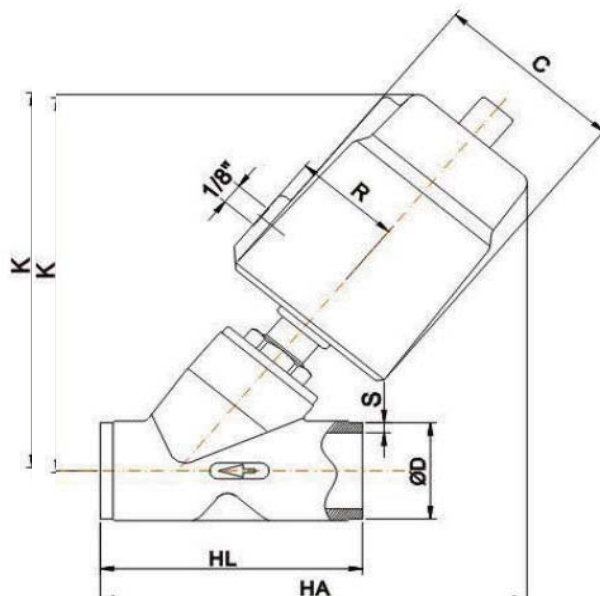
Size	Thread End	Orifice (mm)	Kv(m3/h)	Actuator (mm)	Pressure (psi)	Control Pressure (psi)
DN10	3/8"	13	3.8	40	159	43
				50	203	43
DN15	1/2"	13	4.7	40	159	43
				50	203	43
DN20	3/4"	18	9.5	50	203	43
DN25	1"	24	18.1	50	58	43
				63	203	56
				90	232	72.5
DN32	1-1/4"	31	23.1	63	87	65
				90	232	72.5
DN40	1-1/2"	35	32.9	63	72	65
				90	232	72.5
DN50	2"	45	52.8	90	145	72.5
DN65	2-1/2"	61	82.6	90	101	72.5
				125	130	87
DN80	3"	80	127	125	87	87



100 Series Pneumatic Angle Seat Valve



Threaded Connection



Welded Connection

Dimensions

[illegible]

105 Series Pneumatic Angle Seat Valve with Positioner



Function Principle

TMP-3000 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA, which is being input from the controller.

In addition, built-in micro-processing operator optimizes the positioner's performance and provides unique functions such as Auto calibration, PD control.

TECHNICAL DATA

PowerSupply	24VDC
Input Signal	0/4...20 mA, 0...5/10 V
Power Consution	< 4W
Output	4 - 20 mA
Supply Pressure	0 - 7 bar
Body Material	PPS

106 Series Electric Angle Seat valve

Tehcnical Data

- Built-in torque switch to protect valve and actuator when overload.
- Automatic cognition for 0-100% by auto setting system and available to control within stroke limit.
- Available to use upon working condition by analysis capacity for 100 steps / 200 steps.
- Selectable NC/NO without any special device.
- Available to maintain regular speed under voltage fluctuation by using synchronous motor.



Function Principle

This actuator operated with power source 24V (220V) AC.

Control signal 0-10V, 2-10V, 4-20mA, can show operating status of valve in digital way and also possible to make sub-output which can be checked by output signal.

Size	Thread End	Orifice (mm)	KV m ³ /hr
DN10	3/8"	13	3.8
DN15	1/2"	13	4.7
DN20	3/4"	18	9.5
DN25	1"	24	18.1
DN32	1-1/4"	31	23.1
DN40	1-1/2"	35	32.9
DN50	2"	45	52.8
DN65	2-1/2"	61	82.6
DN80	3"	80	127

Model(optional)	GEA- 10P	GEA- 10P(S)
NOMINAL STROKE (mm)	20	
NOMINAL FORCE (KN)	1000 (1.0)	
OPERATING TIME (Sec)	50 (0.4mm/s)	28
OPERATING POWER (V)	AC 24V(220V) ±10%	
FREQUENCY (Hz)	60 or 50	
MOTOR SPEED (rpm)	600	
REGULAR LOAD (A)	0.5 (0.075)	
CONDENSER (uP)	34 (0.474)	
POWER CONSUMPTION (VA)	12(16.5)	
INPUT SIGNAL	0~10V, 2~10V, 4~20mADC (Switchable)	
OUTPUT SIGNAL	Output At order : 0~10V or 2~10V or 4~20mADC	
GUIDE DISPLAY	0 - 100%	
VOLTAGE ENDURANCE	1,000VAC, 50/60Hz, 1 minute	
FAIL POSITION	Moving (up) - Close	
OPERATING TEMP.	Operation :- 15~ 60 °C / Transportation :- 30~ 65 °C	
MOTOR EFFIC	S4 - 30% ED- c/h600, EN 60034-1	
INSULATION CLASS	E (IEC)	
AMBIENT HUMIDITY	5 ~ 95% RH	
HOUSING PROTECTION GRADE	IP 54 (DIN40050)	
CONDUIT ENTRIES	PF1/2 × 2EA	
WEIGHT (Kg)	NET/2.4, GROSS/2.7	