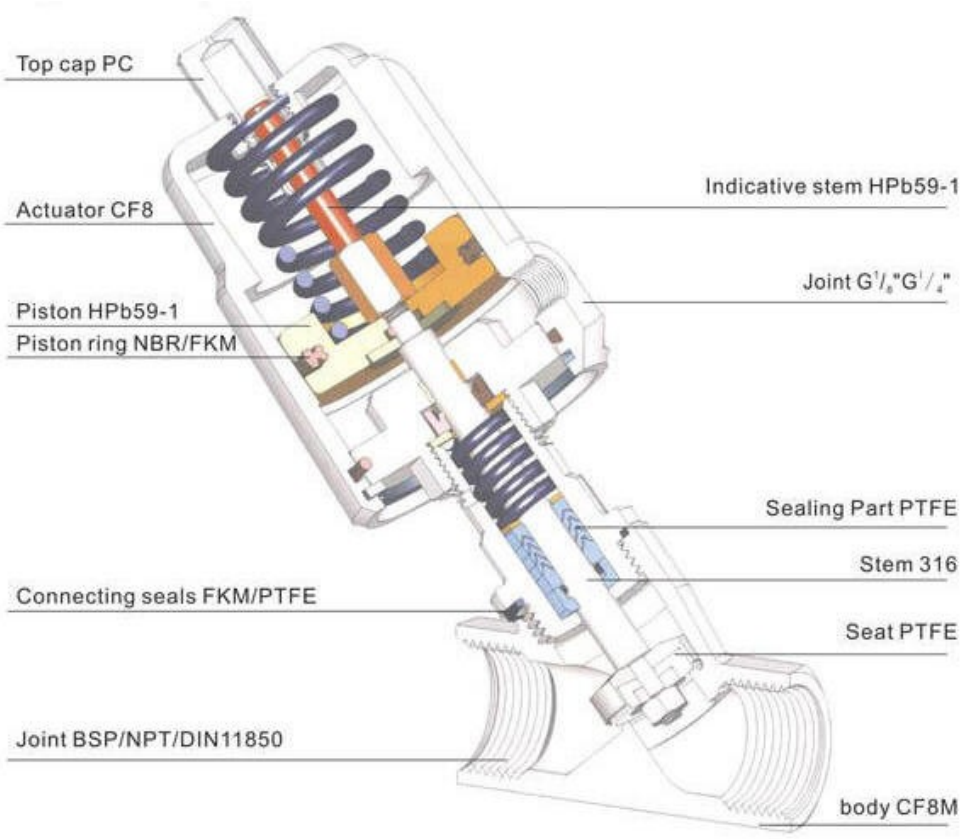
STC 2KS/2KD Series Stainless Steel Angle Seat Valve

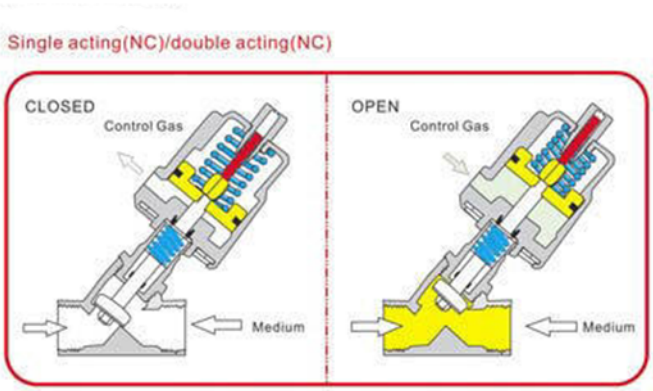
	Single Acting Part No.	Double Acting Part No.	List Price	Port Size (NPT)	Cv
	2KS - 3/8	2KD - 3/8	$169.73	3/8	4.7
	2KS - 1/2	2KD - 1/2	$183.90	1/2	4.7
	2KS - 3/4	2KD - 3/4	$188.58	3/4	9.5
	2KS - 1	2KD - 1	$231.97	1	18.1
	2KS - 1 1/4	2KD - 1 1/4	$330.04	1 1/4	23.1
	2KS - 1 1/2	2KD - 1 1/2	$348.83	1 1/2	32.9
	2KS - 2	2KD - 2	$4480.91	2	52.8
	2KS - 2 1/2	2KD - 2 1/2	$581.02	2 1/2	76
	2KS - 3	2KD - 3	$1431.15	2 1/2	76

Specifications & Features	
Valve Body	Cast 316 Stainless Steel (CF8M)
Actuator	Stainless Steel (Designed for harsh applications)
Seat Seals	PTFE
Stem Seals	PTFE/FKM (Spring loaded self adjusting for long service life)
Piston Seals	PTFE
Service Medium	Air, Gas, Liquid, Oil, Steam, Water (compatible with wetted surfaces)
Operating Pressure	0-240 PSI (0-1.6MPa)
Temperature Range	-5 to 356°F (-20 to 180°C); Option: -40 to 356°F (-40 to 180°C) with low temperature seal;
Ambient Temperature	-5 to 140°F (-20 to 60 ºC); Option: -40 to 140°F (-40 to 60°C) with low temperature seal;
Maximum Viscosity	600 mm^2/s (600 centistokes)
Installation Orientation	Any Orientation
Pilot Controlling Medium	Air, Inert Gas
Controlling Pressure Range	65-120 PSI
Wetted Surfaces	Cast 316 Stainless Steel (CF8M) and PTFE

Valve Components and Materials of Constructions



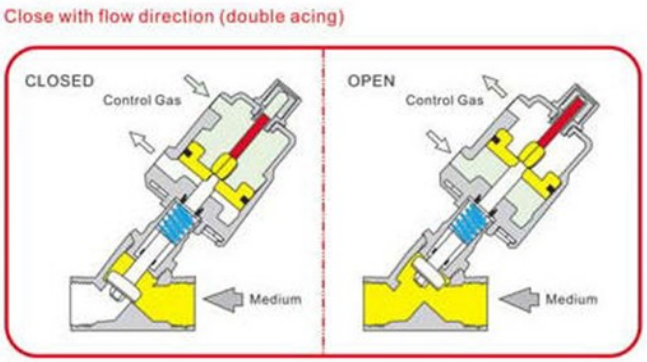
Single Acting Angle Seat Valve Technical Data



Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator (mm)	Cv	Bi-directional Flow*		Temperature**	Pilot Control Pressure
						Inlet Above Seat Pressure @ 180 °C	Inlet Below Seat Pressure @ 180 °C		
2KS-3/8	3/8"	DN10	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-1/2	1/2"	DN15	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-3/4	3/4"	DN20	18	50	9.5	0-240 PSI (0-1.6MPa)	0-180 PSI (0-1.2MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-1	1"	DN25	24	63	18.1	0-240 PSI (0-1.6MPa)	0-150 PSI (0-1.0MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-1 1/4	1 1/4"	DN32	31	63	23.1	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-1 1/2	1 1/2"	DN40	35	80	32.9	0-240 PSI (0-1.6MPa)	0-150 PSI (0-1.0MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-2	2"	DN50	45	80	52.8	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI
2KS-2 1/2	2 1/2"	DN65	65	125	76	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)**	65-120 PSI

* Use under-seat flow to minimize hammering effect; use above-seat flow to maximize valve response time.
** Temperature -5 to 356°F (-20 to 180°C); Option: -40 to 356°F (-40 to 180°C) with low temperature seal.

Double Acting Angle Seat Valve Technical Data

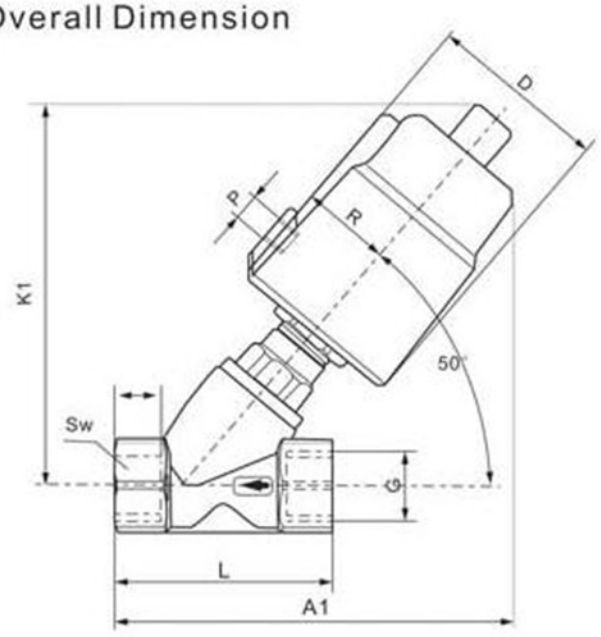


2KD Series Double Acting Stainless Steel Air Actuated Angle Seat Valve									
Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator Diameter (mm)	Cv	Bi-directional Flow*		Media Temperature	Pilot Control Pressure
						Inlet Above Seat Pressure @ 180 °C	Inlet Below Seat Pressure @ 180 °C		
2KD-3/8	3/8"	DN10	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1/2	1/2"	DN15	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-3/4	3/4"	DN20	18	50	9.5	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KDS-1	1"	DN25	24	63	18.1	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1 1/4	1 1/4"	DN32	31	63	23.1	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1 1/2	1 1/2"	DN40	35	80	32.9	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-2	2"	DN50	45	80	52.8	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-2 1/2	2 1/2"	DN65	65	125	76	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI

* Use under-seat flow to minimize hammering effect; use above-seat flow to maximize valve response time.

Angle Seat Valve Dimensions

Overall Dimension



Single Acting	Double Acting	2KS/2KD Series Stainless Steel Air Actuated Angle Plunger Valve Dimensions (unit=mm)												
Part No.	Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator	Cv	D	R	P (G)	K1	A1	L	T	SW
2KS-3/8	2KD-3/8	3/8"	DN10	13	50	4.7	60	35	1/8	126	133	68	12	26.6
2KS-1/2	2KD-1/2	1/2"	DN15	13	50	4.7	60	35	1/8	126	133	68	15	26.6
2KS-3/4	2KD-3/4	3/4"	DN20	18	50	9.5	60	35	1/8	131	137	75	16	32
2KS-1	2KD-1	1"	DN25	24	63	18.1	77	43	1/8	165	174	90	17	39.5
2KS-1 1/4	2KD-1 1/4	1 1/4"	DN32	31	63	23.1	77	43	1/8	175	188	116	21	50
2KS-1 1/2	2KD-1 1/2	1 1/2"	DN40	35	80	32.9	98	52	1/4	187	204	116	21	55.3
2KS-2	2KD-2	2"	DN50	45	80	52.8	98	52	1/4	195	218	138	22	70

Air Actuated Angled Valve

Model 2KS, 2KD

Installation Guide

Note:

- This valve is designed to be controlled by air flow only. Any kind of COMPATIBLE fluid may flow through the main valve.
- Fluid can flow either way through the valve, but it is optimal to have flow enter from the higher port (above seat). To have flow enter from the lower port (below seat) will reduce water hammering.

Warning: When tightening any connections to the valve, do not use the actuator as leverage. Doing so may damage the joint between the actuator and the valve.

Connection to fluid supply:

1. Connect the fluid supply and outlet to the lower ports.
2. Connect the controlling air supply to the ports on the actuator. For double acting valves, air supplied to the bottom port will open the valve, and top port will close the valve.

Operational Note: The pin on the top of the actuator acts as the position indicator for the valve. The pin pops up when the valve is open.

Reference Figures:

Figure 1: 2KS-1/2. Single actuator port, and two valve ports shown.

Figure 2: 2KD-1/2. Both actuator ports and valve ports shown.

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International Customers: Advance Payment Required via Bank Wire, Cashier's Check or Approved Credit Card.
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