

ASV Series Angle Seat Valve



ASV...2333
Bronze

ASV...3333
Stainless Steel

Description

The Angle Seat Valve is a 2-way pneumatically actuated plug valve, which provides for automatic isolation of liquids, gases, steam and some aggressive fluids. Available with stainless steel or bronze bodies with plastic actuator housings.

Features and Benefits

- Self aligning stem seal reduces potential leak points
- High cycle life, provides long service life
- Compact assembly / Saves space
- Internal flow path designed to minimize pressure drop
- NAMUR Solenoid mounting pad

Easy Installation

The Angle Seat Valve can be mounted in any position. The actuator rotates 360° allowing for the selective positioning of the pneumatic inlet port.

Models Available

- Spring Return N.C. Bi-directional Flow
- Double Acting Bi-directional Flow

Stroke Time

Valve Size	Actuator Function	Closed to Open (mS)	Open to Closed (mS)
3/8"	NC	15	25
3/8"	DA	5	5
1/2"	NC	15	25
1/2"	DA	5	5
3/4"	NC	15	25
3/4"	DA	5	5
1"	NC	60	100
1"	DA	10	10
1 1/4"	NC	60	100
1 1/4"	DA	10	10
1 1/2"	NC	150	225
1 1/2"	DA	15	15
2"	NC	150	225
2"	DA	15	15

Specifications

Ambient Temperature Range

- 14° to 140°F (-10° to 60°C)

Fluid Temperature Range

- -14° to 358°F (-25° to 181°C)

Pressure/Viscosity Ratings

- From 0 to 230 psi
- Steam to 150 psi, Max 358°F
- Max Viscosity 600CST
- Required Air Pressure - 80 to 110 psi

ASV...2333

- Bronze Body & SS Plug
- PTFE seats & seals

ASV...3333

- 316 SS Body & Plug
- PTFE seats & seals

Leakage rate

- ANSI Class VI Shut off

Model Code

ASV - 1 NPT - 3333 - DA - 24DC

Series

ASV = Angle Seat Valve

Port Size (NPT)

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

Materials

2333 = Bronze body & SS plug,
PTFE seats & seals
3333 = 316SS body & plug,
PTFE seats & seals

Function

NC = Spring return, normally closed
DA = Double acting

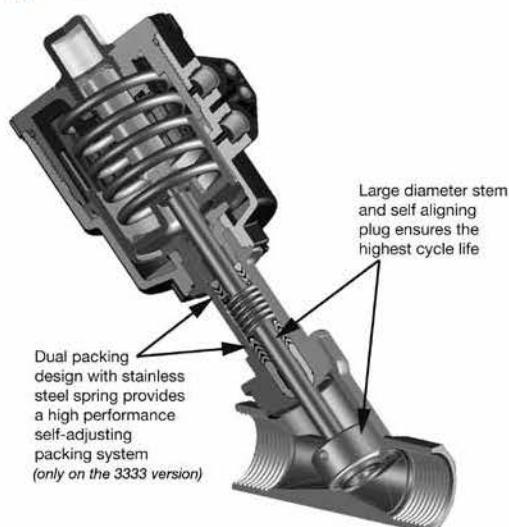
Solenoid Valve Options

(omit) = No solenoid valve included
24VDC = 24 VDC solenoid valve included
120VAC = 120 VAC solenoid valve included

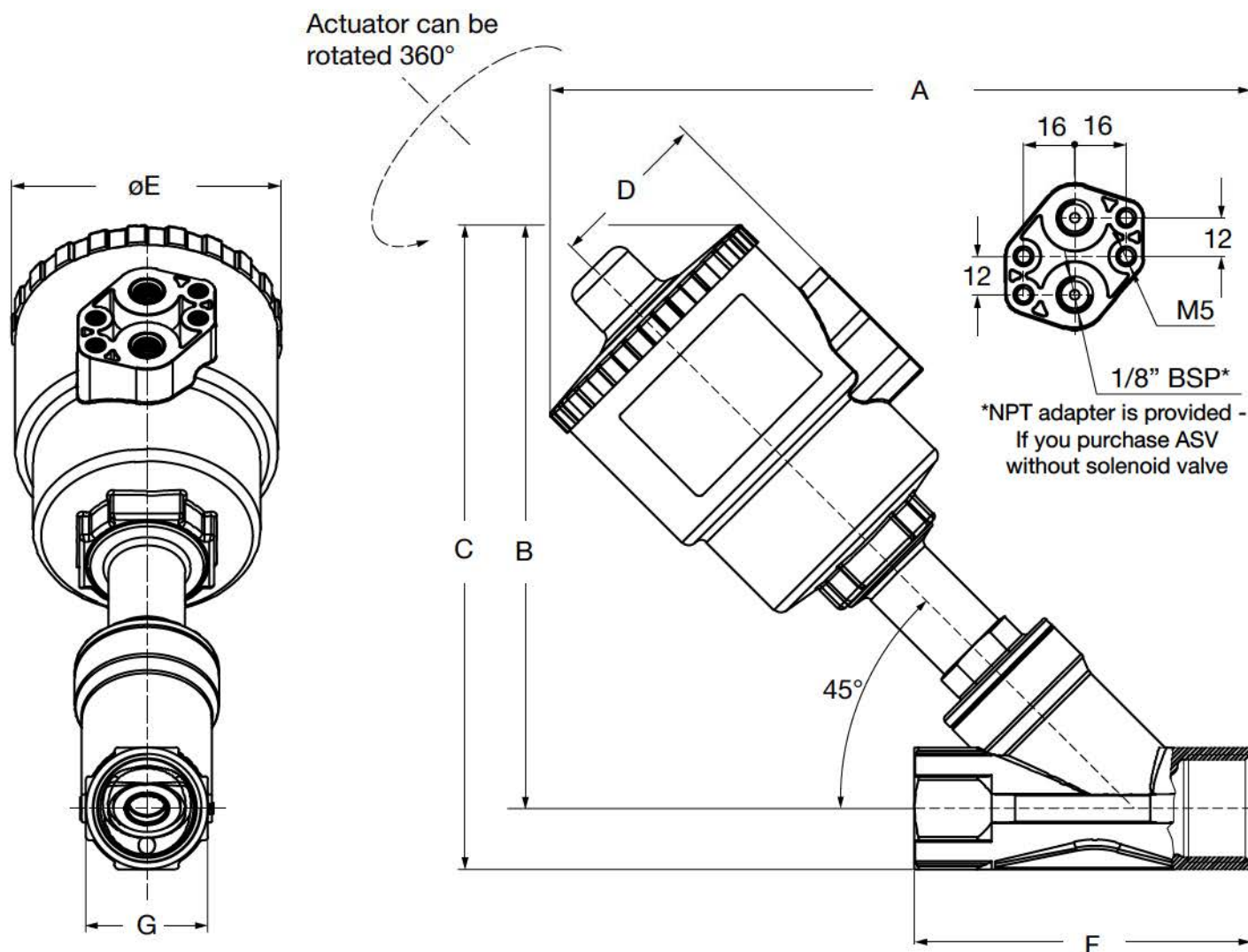
Note: see page 39 - 40 for information on solenoid valves

*Model Codes containing selections listed in RED are non-standard items -
Minimum quantities will apply -
Contact HYDAC for information and availability*

Cutaway View



Dimensions



Type	NPT Port Size	CV	ASV...3333 (316 SS)							ASV...2333 (Bronze)							Wgt
			A	B	C	D	øE	F	G	A	B	C	D	øE	F	G	
NC/DA	3/8"	6	7.48	6.14	6.65	1.73	2.76	3.35	0.98	6.42	5.51	6.02	1.73	2.76	2.56	1.06	2.2
NC/DA	1/2"	7	7.48	6.14	6.65	1.73	2.76	3.35	0.98	6.42	5.51	6.02	1.73	2.76	2.56	1.06	2.2
DA	3/4"	12	7.68	6.30	6.93	1.73	2.76	3.74	1.22	6.81	5.79	6.42	1.73	2.76	2.95	1.08	2.6
NC	3/4"	12	7.68	6.30	6.93	1.73	2.76	3.74	1.22	6.81	5.79	6.42	1.73	2.76	2.95	1.08	2.6
DA	1"	23	8.62	7.17	7.95	1.99	3.32	4.13	1.50	8.11	6.93	7.72	1.99	3.32	3.54	1.61	3.5
NC	1"	23	8.62	7.17	7.95	1.99	3.32	4.13	1.50	8.11	6.93	7.72	1.99	3.32	3.54	1.61	3.7
DA	1 1/4"	33	8.90	7.32	8.23	1.99	3.32	4.72	1.85	8.46	7.09	8.07	1.99	3.32	4.33	1.97	4.2
NC	1 1/4"	33	10.47	8.90	9.80	2.61	4.58	4.72	1.85	10.04	8.66	9.65	2.61	4.58	4.33	1.97	6.6
DA	1 1/2"	54	10.67	9.06	10.16	2.61	4.58	5.12	2.13	10.63	9.25	10.39	2.61	4.58	4.72	2.28	7.9
NC	1 1/2"	54	12.09	10.47	11.57	3.05	5.54	5.12	2.13	12.05	10.67	11.81	3.05	5.54	4.72	2.28	8.8
DA	2"	78	11.22	9.45	10.79	2.61	4.58	5.91	2.60	11.02	9.45	10.83	2.61	4.58	5.91	2.76	9.5
NC	2"	78	12.64	10.87	12.20	3.05	5.54	5.91	2.60	12.44	10.87	12.24	3.05	5.54	5.91	2.76	11.7

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.
Dimensions are in inches and lbs