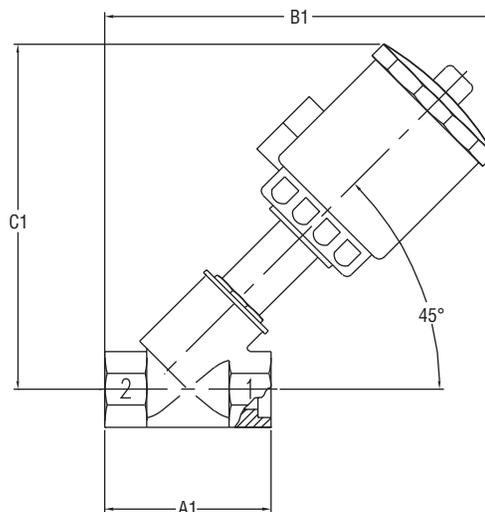




Series SAV Angle Seat Valves

Specifications - Installation and Operating Instructions



The Series SAV Angle Seat Valve offers a compact, low cost actuated valve package. The pneumatic, externally piloted, piston valve can be operated with air or liquids, and provides bubble tight shutoff and failsafe operation. Bronze and stainless steel body materials provide broad media compatibility and corrosion resistance. The Polyamide actuator housing resists corrosion for years of maintenance-free operation. The SAV can be used in most gas, liquid, steam, and corrosive applications. For ease of installation, the SAV actuator housing can be rotated 360 degrees.

Each SAV valve is manufactured with one of the following valve functions:

NC (Normally Closed)

These valves are designed for flow over the seat (port 1 to 2). Caution: Not recommended for waterhammer prevention.

NO (Normally Open)

These valves are designed for flow under the seat (port 2 to 1). Can be used to prevent waterhammer on valve closure in liquid applications.

SPECIFICATIONS

VALVE BODY

Service: Gases and liquids compatible with wetted materials.

Wetted Materials:

Valve Body: Bronze or AISI 316L SS;

Plug and stem: AISI 316L SS;

Stem O-ring: Viton®;

Seat and seal: PTFE.

Line Sizes: 1/2 to 2".

Pressure Limits: See tables on next page.

Temperature Limits: 14 to 358°F (-10 to 180°C).

Flow Leakage: Meets ANSI Class VI.

ACTUATOR

Type: Piston/pneumatic spring.

Pilot Connections: NAMUR solenoid mounting pad.

Pilot Media: Air, water, inert gas.

Pressure Limits: See tables on next page.

Temperature Limit: 185°F (85°C).

Bronze NPT Dimensions

| Port Connection | Dimensions (in) | | | Actuator Diameter (in) | Actuator | |
|-----------------|-----------------|-------|-------|------------------------|----------|-------|
| | A1 | B1 | C1 | | NO CV | NC CV |
| 1/2" | 2.56 | 6.42 | 5.51 | 2.76 | 6.61 | 6.61 |
| 3/4" | 2.95 | 6.81 | 5.79 | 2.76 | 12.18 | 12.18 |
| 1" | 3.54 | 8.11 | 6.93 | 3.32 | 23.20 | 23.2 |
| 1-1/4" | 4.33 | 10.04 | 8.66 | 3.32 | 33.06 | 33.64 |
| 1-1/2" | 4.72 | 10.63 | 9.25 | 4.58 | 33.30 | 53.36 |
| 1-1/2" | 4.72 | 12.05 | 10.67 | 4.58 | | 53.94 |
| 2" | 5.91 | 11.02 | 9.45 | 4.58 | | 68.44 |
| 2" | 5.91 | 12.44 | 10.87 | 5.54 | 53.94 | 77.72 |

Stainless Steel NPT Dimensions

| Port Connection | Dimensions (in) | | | Actuator Diameter (in) | Actuator | |
|-----------------|-----------------|-------|-------|------------------------|----------|-------|
| | A1 | B1 | C1 | | NO CV | NC CV |
| 1/2" | 3.35 | 7.48 | 6.14 | 2.76 | 6.61 | 6.61 |
| 3/4" | 3.74 | 7.68 | 6.30 | 2.76 | 12.18 | 12.18 |
| 1" | 4.13 | 8.62 | 7.17 | 3.32 | 23.2 | 23.2 |
| 1-1/4" | 4.72 | 10.47 | 8.90 | 3.32 | 33.06 | 33.64 |
| 1-1/2" | 5.12 | 10.67 | 9.06 | 4.58 | 33.30 | 53.36 |
| 1-1/2" | 5.12 | 12.09 | 10.47 | 4.58 | | 53.94 |
| 2" | 5.91 | 11.22 | 9.45 | 4.58 | | 68.44 |
| 2" | 5.91 | 12.64 | 10.87 | 5.54 | 53.94 | 77.72 |

