

'Econo' Series

Series AS 2 Way Stainless Steel Angle Seat Valve.
Pneumatic actuation, double acting and spring return.
Standard with position indicator.
3/8"-2" BSP

Typical applications include:

Steam and water control, compressed air and general industry. Food industry, medical equipment, sterilizers, filling equipment, water/sewerage disposal.

Technical Specifications:

316 Stainless Steel Body (CF8M) & Actuator.
PTFE Valve Seat.
PTFE/FKM Stem Seals
FKM/NBR Piston Seal
235psi (16 bar) max. media working pressure
Media temp -10°C to +180°C
BSP threaded connections
Viscosity: Max 600mm²/SEC (cst) @ 20°C
Installation: Any position
Controlling Media: Air, neutral gas or water
Controlling pressure range: 5-10 bar
Control pressure to open valve: 5-6 bar
Optional weld ends available.
Optional special functions - Contact factory.
Optional smaller actuator for 'over seat' applications.

Contact us for suitable solenoid control valves or refer to our website; www.valvesonline.com.au



**Stainless Steel
Angle Seat Valve**
Long service -
Fast response

IMPORTANT - Chemical Resistance:

For specific information on chemical resistance of valve components to various Liquids and Gases, refer to the manufacturer or your distributor.

See overpage for applications warning. It is the responsibility of the user to determine suitability of the seat and body materials to the application.



ORDER CODE

| MODEL | Actuator Function | Port Size BSP | Orifice Ømm | Actuator Size Ømm | Media Temperature | Media Pressure | | Weight Kg | Features |
|-------|-------------------|---------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| | | | | | | Over Seat* | Under Seat* | | |

2 WAY AIR, STEAM & WATER 16 BAR (235 PSI) SERIES AS 'Econo' SINGLE ACTING (STANDARD UNIT)

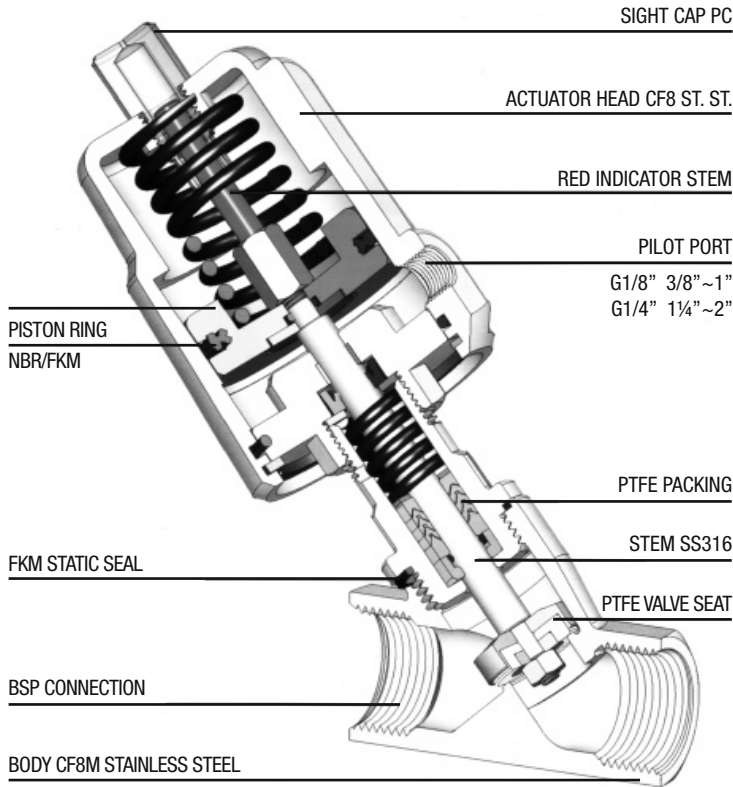
| MODEL | Actuator Function | Port Size BSP | Orifice Ømm | Actuator Size Ømm | Media Temperature | Over Seat* | Under Seat* | Weight Kg | Features |
|---------------|-------------------|---------------|-------------|-------------------|-------------------|------------|-------------|-----------|---|
| AS-3-13-SA-50 | single acting | 3/8 | 13 | 50 | -10°C | 16Bar | 16Bar | 1.1 | 316 Stainless Steel Body & Actuator |
| AS-4-13-SA-50 | single acting | 1/2 | 13 | 50 | | 16Bar | 16Bar | 1.1 | |
| AS-5-18-SA-50 | single acting | 3/4 | 18 | 50 | | 16Bar | 12Bar | 1.2 | PTFE Seat |
| AS-6-24-SA-63 | single acting | 1" | 24 | 63 | | 16Bar | 10Bar | 2.3 | Compact design |
| AS-7-31-SA-80 | single acting | 1 1/4" | 31 | 80 | | 16Bar | 12Bar | 3.9 | Single acting (spring return) standard unit |
| AS-8-35-SA-80 | single acting | 1 1/2" | 35 | 80 | 16Bar | 10Bar | 4.0 | | |
| AS-9-45-SA-80 | single acting | 2" | 45 | 80 | 180°C | 16Bar | 6Bar | 5.1 | |

2 WAY AIR, STEAM & WATER 16 BAR (235 PSI) SERIES AS 'Econo' DOUBLE ACTING (OPTIONAL)

| MODEL | Actuator Function | Port Size BSP | Orifice Ømm | Actuator Size Ømm | Media Temperature | Over Seat* | Under Seat* | Weight Kg | Features |
|---------------|-------------------|---------------|-------------|-------------------|-------------------|------------|-------------|-----------|-------------------------------------|
| AS-3-13-DA-50 | double acting | 3/8 | 13 | 50 | -10°C | 16Bar | 16Bar | 1.1 | 316 Stainless Steel Body & Actuator |
| AS-4-13-DA-50 | double acting | 1/2 | 13 | 50 | | 16Bar | 16Bar | 1.1 | |
| AS-5-18-DA-50 | double acting | 3/4 | 18 | 50 | | 16Bar | 12Bar | 1.2 | PTFE Seat |
| AS-6-24-DA-63 | double acting | 1" | 24 | 63 | | 16Bar | 10Bar | 2.3 | Compact design |
| AS-7-31-DA-80 | double acting | 1 1/4" | 31 | 80 | | 16Bar | 12Bar | 3.9 | Double acting optional unit |
| AS-8-35-DA-80 | double acting | 1 1/2" | 35 | 80 | 16Bar | 10Bar | 4.0 | | |
| AS-9-45-DA-80 | double acting | 2" | 45 | 80 | 180°C | 16Bar | 6Bar | 5.1 | |

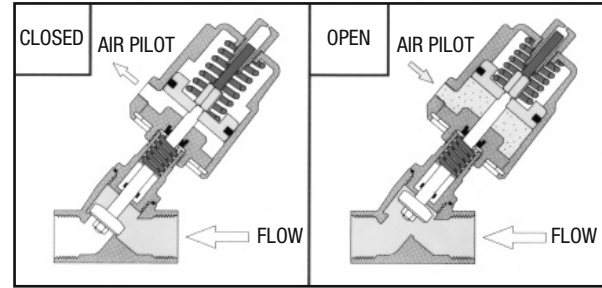
* See over page for 'over seat' and 'under seat' diagram.

COMPONENT



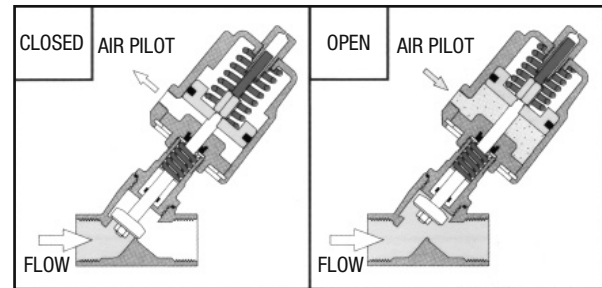
FLOW FUNCTION

Normally close with flow direction "OVER SEAT"



Steam, Air, Gases, Low pressure liquids

Normally close with flow direction "UNDER SEAT"

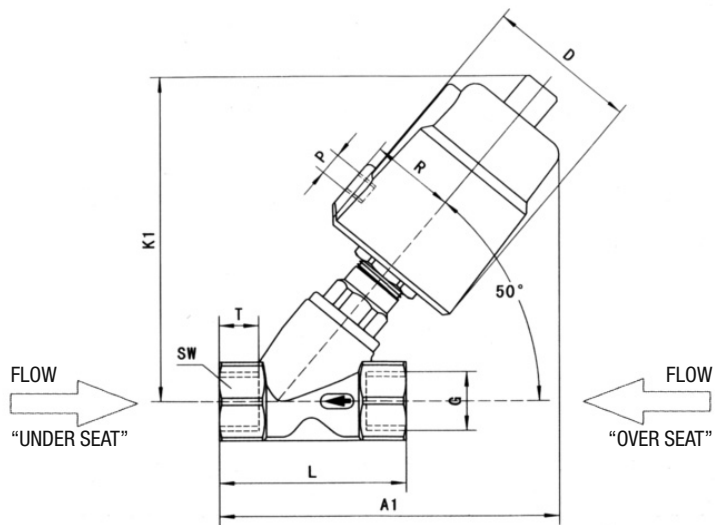


Preferred flow with high pressure liquids to avoid "WATER HAMMER"

DIMENSIONS

| Type | Actuator mm | D mm | R mm | G | K mm | A mm | L mm | T mm |
|------|-------------|------|------|---------|------|------|------|------|
| DN10 | 40 | 50.5 | 27 | G3/8" | 115 | 120 | 68 | 15 |
| | 50 | 60 | 35 | G3/8" | 126 | 133 | 68 | 15 |
| DN15 | 40 | 50.5 | 27 | G1/2" | 115 | 120 | 68 | 15 |
| | 50 | 60 | 35 | G1/2" | 126 | 133 | 68 | 15 |
| DN20 | 50 | 60 | 35 | G3/4" | 131 | 137 | 75 | 16 |
| DN25 | 50 | 60 | 35 | G1" | 140 | 149 | 90 | 17 |
| | 63 | 77 | 43 | G1" | 165 | 174 | 90 | 17 |
| DN32 | 63 | 77 | 43 | G1-1/4" | 175 | 188 | 116 | 21 |
| | 80 | 98 | 52 | G1-1/4" | 187 | 199 | 116 | 21 |
| | 100 | 121 | 63 | G1-1/4" | 198 | 209 | 116 | 21 |
| DN40 | 63 | 77 | 43 | G1-1/2" | 178 | 190 | 120 | 21 |
| | 80 | 98 | 52 | G1-1/2" | 192 | 200 | 120 | 21 |
| DN50 | 100 | 121 | 63 | G1-1/2" | 202 | 216 | 120 | 21 |
| | 63 | 77 | 43 | G2" | 184 | 203 | 138 | 22 |
| | 80 | 98 | 52 | G2" | 196 | 213 | 138 | 22 |
| | 100 | 121 | 63 | G2" | 210 | 230 | 138 | 22 |

☐ = Standard Unit



This data sheet can be downloaded from our website.

PROCESS SYSTEMS PTY LTD

A.B.N. 15 010 932 386

Email: sales@processsystems.com.au
 P.O. Box 2070 Wellington Pt. Qld. 4160
 Corner Lytton & Ramsay Rd. Hemmant, Brisbane
 Queensland 4174 Australia

Website: www.valvesonline.com.au
 Int. Fax +61 7 3890 3133
 Phone 1300 887 880 (6 lines)
 Int. Phone: +61 7 3890 3122

WARNING

These products are intended for use in industrial applications only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data' and in our individual 'Series' data sheets. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult Process Systems Pty Ltd. Through misuse, age, or malfunction, components used in industrial valve applications can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in industrial valve applications and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. **System designers must provide a warning to the user in the system instructional manual if protection against a failure mode cannot be adequately provided.** System designers and end users are cautioned to review specific warnings or specifications found in instruction sheets or labels packed or attached and shipped with the products. Our policy is one of continuous research and development. We therefore reserve the right to amend without notice the specifications given in this document or our individual 'Series' data sheets.

WARRANTY INFORMATION

Series AS and all other products manufactured or distributed by Process Systems Pty. Ltd. are warranted by Process Systems to be free of defects in material and workmanship for a period of 1 year from the date of purchase or as the manufacturer warrants. Process Systems obligation under this warranty is limited to repair or replacement of the defective product or refund of the purchase price paid solely at the discretion of Process Systems and provided such defective product is returned to Process Systems freight prepaid and upon examination by Process Systems such product is found defective. This warranty shall be void in the event that the product has been subject to misuse, misapplication, improper maintenance, modification or tampering. This warranty is expressed in lieu of all other warranties, expressed or implied from Process Systems Pty. Ltd. representatives or employees. Process Systems reserves the right to change Valve and Brochure specifications without notice.