

The ASEPCO Radial-Diaphragm™ Point of Use Valve

ASEPCO
High Purity Valves and
Magnetic Mixers

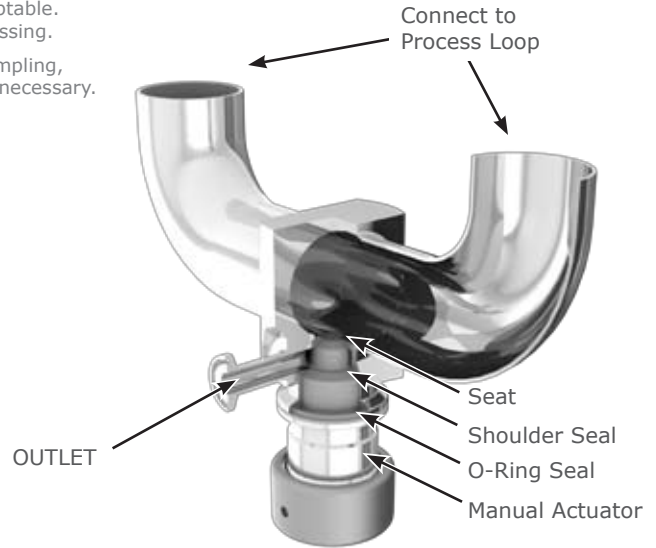
Designed for Critical Aseptic Processing Applications

ASEPCO radial-diaphragm valves are specifically designed for applications where leakage, dead legs, or cross-contamination are unacceptable. ASEPCO valves provide added security in all high-purity processing.

The ASEPCO Point of Use Valve is used in situations where sampling, draining, transferring, or diverting process fluid from a line is necessary.

Features

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| Radial-diaphragm |
| Valve seat flush with process line |
| Integrated elbows for connection to piping loops |
| Minimal L/D ratio enables easy cleaning |
| Can be CIP/SIP to eliminate caking |
| Simple clamp assembly |
| Change diaphragms in seconds |
| Integral travel stops |



Specifications

Valves

| | |
|--------------------------|--|
| Material | 316L, AL6XN, Hastelloy, Alloy C-22 and C276 Machined from solid, hot-rolled, bar stock |
| Surface Finish | Max 20 micro-inch Ra (0.5 µm Ra), Electropolished Max 15 micro-inch Ra (0.375 µm Ra), Electropolished Max 10 micro-inch Ra (0.25 µm Ra), Electropolished |
| Inlet Sizes | 0.5 inch, 0.75 inch, 1 inch, 1.5 inch, 2 inches, 2.5 inches, 3 inches, 4 inches |
| Outlet Sizes | 0.5 inch, 0.75 inch, 1 inch, 1.5 inch, 2 inches |
| Inlet/Outlet Connections | Sanitary flange outlet and buttweld inlet are standard, other options available |
| Maximum Pressure | 250 psi |
| Maximum Temperature | 135°C/275°F |
| Marking | Each valve is serialized and marked for full material traceability |
| ISO | All product and procedures are governed by our ISO Quality Assurance Program |
| Standards | BPE, CE-PED, ASME |

Actuators

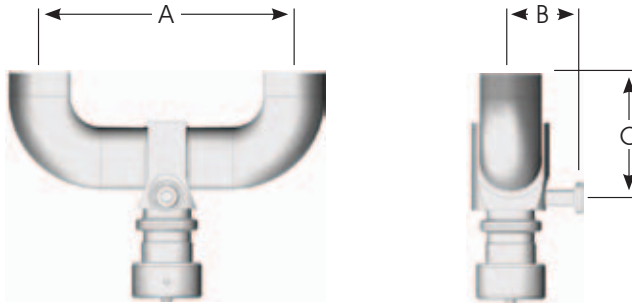
| | |
|--------------------------|--|
| Types | Manual or compact pneumatic Fail open or closed |
| Material | 304 stainless steel housing; can be made in 316L |
| Sizes | 0.5 inch through 2 inches |
| Operating Air Pressure | 100psi max for Pneumatic Actuators |
| Seals | Teflon bushings and o-rings |
| Fitting | 1/8-inch NPT air connection (for pneumatic) |
| Possible Instrumentation | Switched With or without solenoids With or without DeviceNet cards |

Diaphragms

| Materials | Silicone | Silicone Plus | EPDM | EPDM Plus | Viton |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Temperature Range | -60 to 275°F | -60 to 275°F | -30 to 275°F | -30 to 275°F | -4 to 400°F |
| Class | USP Class VI, 21 CFR 177.2600 | USP Class VI, 21 CFR 177.2600 | USP Class VI, 21 CFR 177.2600 | USP Class VI, 21 CFR 177.2600 | USP Class VI, 21 CFR 177.2600 |
| Parylene Treatment | - | √ | - | √ | - |

Please contact our Customer Service Department for any non-standard valve requirement (800) 882-3886.

Point of Use Valve Dimensions, Flow Rates, and Weights Specifications



Point of Use Valve Flow Rates

| Outlet Size (inches) | Cv at 1 psi (0.07 bar) GPM (LPM) |
|-------------------------|-------------------------------------|
| 0.50 | 2.7 (10.2) |
| 0.75 | 10.6 (40) |
| 1.00 | 15.8 (59.8) |
| 1.50 | 48 (180) |
| 2.00 | 72 (272) |

UPXX-100-X Point of Use Valve Dimensions

Center to Center Dimension (A) inches (mm)

| Line Size (BW) | 0.50 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 |
|----------------------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Outlet Size (Clamp) | | | | | | | | |
| 0.50 | 7.71 (195.8) | 7.71 (195.8) | 7.71 (195.8) | 8.80 (223.5) | 11.00 (279.4) | 14.00 (355.6) | 15.50 (393.7) | 19.00 (482.6) |
| 0.75 | | 8.50 (215.9) | 8.50 (215.9) | 10.00 (254.0) | 12.00 (304.8) | 14.00 (355.6) | 15.50 (393.7) | 19.00 (482.6) |
| 1.00 | | | 8.50 (215.9) | 10.00 (254.0) | 12.00 (304.8) | 14.00 (355.6) | 15.50 (393.7) | 19.00 (482.6) |
| 1.50 | | | | 11.94 (303.3) | 12.50 (317.5) | 14.00 (355.6) | 16.00 (406.4) | 20.00 (508.0) |
| 2.00 | | | | | 13.75 (349.3) | 15.25 (387.4) | 16.00 (406.4) | 20.00 (508.0) |

Center to Face Dimension (B) inches (mm)

| Line Size (BW) | 0.50 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Outlet Size (Clamp) | | | | | | | | |
| 0.50 | 2.08 (52.8) | 2.08 (52.8) | 2.08 (52.8) | 2.08 (52.8) | 2.28 (57.9) | 2.53 (64.3) | 2.53 (64.3) | 2.53 (64.3) |
| 0.75 | | 2.53 (64.3) | 2.53 (64.3) | 2.53 (64.3) | 2.53 (64.3) | 2.78 (70.6) | 2.78 (70.6) | 2.53 (64.3) |
| 1.00 | | | 2.53 (64.3) | 2.53 (64.3) | 2.53 (64.3) | 2.78 (70.6) | 2.78 (70.6) | 2.53 (64.3) |
| 1.50 | | | | 3.35 (85.1) | 3.35 (85.1) | 3.35 (85.1) | 3.35 (85.1) | 3.25 (82.6) |
| 2.00 | | | | | 3.25 (82.6) | 3.25 (82.6) | 3.25 (82.6) | 3.25 (82.6) |

Center to Face Dimension (C) inches (mm)

| Line Size (BW) | 0.50 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 |
|----------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Outlet Size (Clamp) | | | | | | | | |
| 0.50 | 3.53 (89.7) | 3.78 (96.0) | 3.78 (96.0) | 4.77 (121.2) | 5.99 (152.1) | 7.58 (192.5) | 8.58 (217.9) | 10.77 (273.6) |
| 0.75 | | 4.06 (103.1) | 4.06 (103.1) | 5.19 (131.8) | 6.44 (163.6) | 7.50 (190.5) | 8.69 (220.7) | 10.64 (270.3) |
| 1.00 | | | 4.06 (103.1) | 5.07 (128.8) | 6.32 (160.5) | 7.37 (187.2) | 8.57 (217.7) | 10.52 (267.2) |
| 1.50 | | | | 5.81 (147.6) | 7.06 (179.3) | 8.07 (205.0) | 9.06 (230.1) | 11.30 (287.0) |
| 2.00 | | | | | 6.81 (173.0) | 7.82 (198.6) | 8.81 (223.8) | 11.05 (280.7) |

All Process Line and Outlet sizes are in inches

Weights lb (Kg)

| Line Size (BW) | 0.50 | 0.75 | 1.00 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 |
|----------------------------|------------|------------|------------|-------------|-------------|--------------|--------------|--------------|
| Outlet Size (Clamp) | | | | | | | | |
| 0.50 | 3.33 (1.5) | 3.89 (1.8) | 4.63 (2.1) | 4.53 (2.0) | 6.59 (3.0) | 8.99 (4.1) | 13.75 (6.3) | 18.93 (8.6) |
| 0.75 | | 6.09 (2.8) | 4.63 (2.1) | 6.13 (2.8) | 8.29 (3.8) | 8.99 (4.1) | 13.75 (6.3) | 18.93 (8.6) |
| 1.00 | | | 8.58 (3.9) | 8.28 (3.8) | 10.44 (4.7) | 11.14 (5.1) | 16.00 (7.3) | 21.08 (9.6) |
| 1.50 | | | | 19.43 (8.8) | 21.29 (9.7) | 22.09 (10.0) | 22.95 (10.4) | 37.43 (17.0) |
| 2.00 | | | | | 20.99 (9.5) | 21.79 (9.9) | 22.85 (10.4) | 37.43 (17.0) |

All weights are with manual actuator.

All Process Line and Outlet sizes are in inches.