

The ASEPCO Radial-Diaphragm™ Point of Use Valve

ASEPCO
High Purity Valves and
Magnetic Mixers

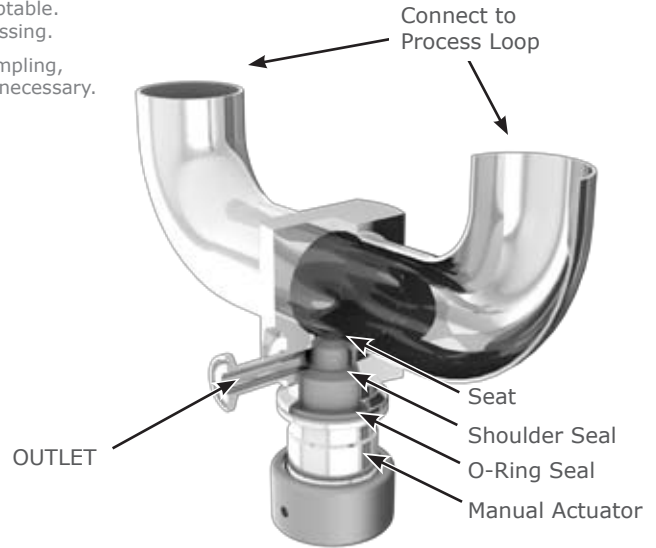
Designed for Critical Aseptic Processing Applications

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

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

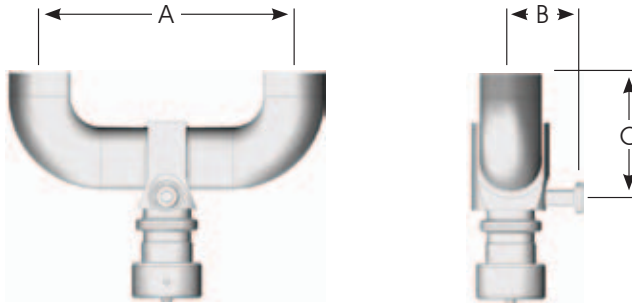
Types	Manual or compact pneumatic Fail open or closed
Material	304 stainless steel housing; can be made in 316L
Sizes	0.5 inch through 2 inches
Operating Air Pressure	100psi max for Pneumatic Actuators
Seals	Teflon bushings and o-rings
Fitting	1/8-inch NPT air connection (for pneumatic)
Possible Instrumentation	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.