

**ASEPCO Radial diaphragm™
tank-bottom valves**

Save up to 80%
maintenance time



The tank-bottom valve of choice

ASEPCO valves are designed for use in the most demanding high-purity fluid streams, including media preparation, fermentation, harvest, separation, refining and purification.

ASEPCO's patented valve architecture includes a unique radial diaphragm that forms three seals in one - at the inlet, on the compound shoulder and an O-ring at the bottom of the valve chamber. This architecture ensures:

- Self-draining with no entrapment areas
- No leakage
- No cross-contamination
- Easy to clean
- Extremely fast and easy maintenance

Delivering purity and reliability, ASEPCO tank bottom valves are preferred over weir style valves which can introduce product entrapment, leakage and be high maintenance.

Lowest lifetime cost

ASEPCO valves have an easy diaphragm changeover principle – taking less than a minute to complete in most circumstances. Valve benefits include

- No tools needed and no special training required
- Integrated, non-adjustable travel stops
- Flush mount design and simple clamp assembly
- Simple four step procedure, as shown below

- 1 Remove Tri-clamp
- 2 Remove actuator and diaphragm assembly from valve body
- 3 Remove used diaphragm from actuator
- 4 Install new diaphragm on actuator

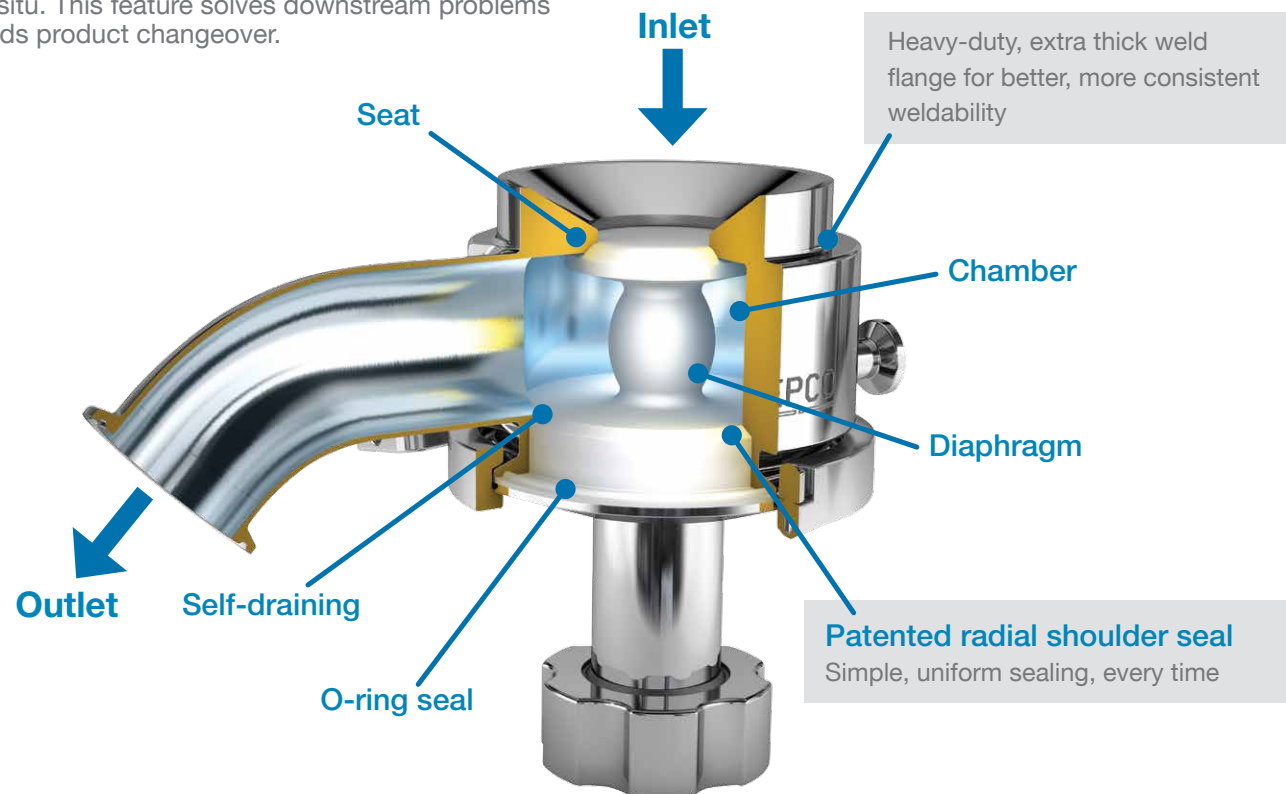
Extensive testing proves reliability

Diaphragms materials are USP Class VI and FDA CFR 177.300 tested and approved, with extensive steam and lifetime testing. This means they complete an impressive continuous 100-hour testing in 132-137C, with actuation every 20 minutes.

Impressive cost savings

Customer statements include "savings of up to 80% maintenance time".

A special steam port can be added to the ASEPCO radial diaphragm valves for steam-in-place or flush through, whilst in-situ. This feature solves downstream problems and speeds product changeover.



Radial diaphragm tank-bottom valves

- The only truly flush diaphragm tank valve
- No pocket, unlike other designs
- Completely drainable
- Welds flush to tank bottom—eliminates gaskets, bolts, and seams
- Meets ASME+ BPVC, ASME BPE, CE-PED, ATEX standards
- Standard 316L material dual certified to EN 1.4435/ASME SA479
- Delivered with material test reports (MTRs)
- Serialised and laser etched

Many valve body configurations are available, including custom machined flanges to fit your existing equipment.

Valve sizes: 0.5", 1.0", 1.5", 2.0", 2.5", 3.0", and 4.0"



ASEPCO Radial diaphragm tank-bottom valve

- ▲ Can be ordered with up to three ports to allow it to be CIP/SIP or flushed while closed



ASEPCO Radial diaphragm retrofit valve

- ▲ Use to add ASEPCO valves to existing tanks
- ▲ Many different designs to fit your specific situation



ASEPCO Radial diaphragm Sterillite valve

- ▲ A special steam port added to our standard tank-bottom valve
- ▲ Totally eliminates dead legs associated with steam or cleaning fluid ports on closed valves



ASEPCO Radial diaphragm insulate valve

- ▲ Use with freeze tanks or any tank that has a critical temperature control mission
- ▲ Extended body allows for direct welding of vessel jacket



ASEPCO Radial diaphragm tangential valve

- ▲ Use in situations where a tank valve needs to be mounted off-center
- ▲ Easy to clean and eliminates pooling in the tank

Actuators

A full range of actuation options available:

- Manual
- Pneumatic
- Automation with switches or controllers.

Work with all manufacturers linear switches and controllers (i.e. Westlock, Stonel, Burkert, etc.)



Diaphragms

Eight materials cope with virtually every pressure, temperature and chemical challenge in the food and biopharm industries.

Materials include:

- Silicone
- Silicone Plus
- EPDM
- EPDM Plus
- Viton A
- Viton A (steam resistant)
- Viton GF
- PTFE



All diaphragms are laser-etched with cure dates and batch numbers, ensuring that they are completely traceable.

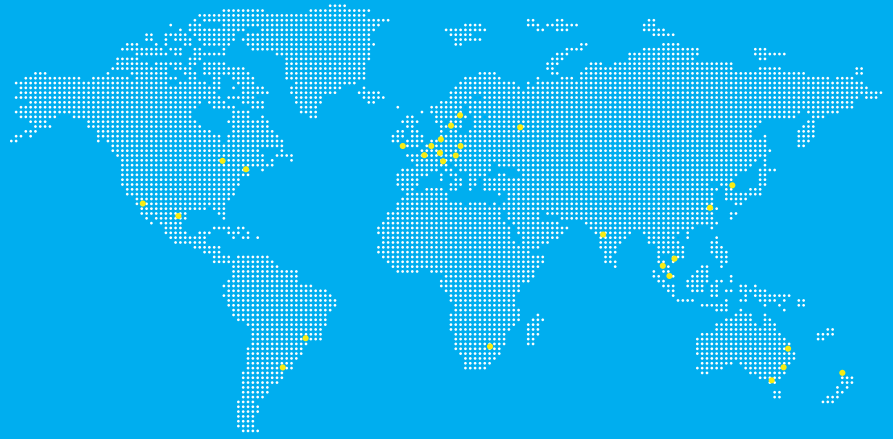


Fluid Technology Group

A Spirax-Sarco Engineering Company

Watson-Marlow Fluid Technology Group has eight world-class factories supported by direct sales operations in 28 countries and distributors in more than 50 countries. For contact details visit our website:

www.wmftg.com



Watson-Marlow Bredel Alitea Flexicon MasoSine BioPure Asepco



Watson-Marlow online

Our engineers around the world can help you choose the perfect pump, tubing, connector and valve for your needs.

More information? Our brochures are on our website: www.wmftg.com

Watson-Marlow... Innovation in Full Flow

Tel: (800) 882-3886
(650) 691-9500

ASEPCO Corporation 355 Pioneer Way
Mountain View, CA 94041
www.ASEPCO.com

Disclaimer: The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the users responsibility to ensure product suitability for use within their application. Watson-Marlow, Accusil, asepticaru, BioBarb, FlatBioEndCap, BioEndCap, Bio V, BioValve, BioClamp, Bioprene, PureWeld XL, Pumpsil and Marprene are trademarks of Watson-Marlow Limited. STA-PURE PFL® and STA-PURE PCS® are registered trademarks of WL Gore & Associates Inc.