

**ASEPCO Weirless
Radial diaphragm™ valves**

Save up to 80%
maintenance time



Contamination-free, radial diaphragm technology designed for bioprocessing applications

ASEPCO Weirless Radial diaphragm valves eliminate dead legs and cross-contamination and feature an easy-to-use clamp assembly to make inspection and diaphragm change a rapid process. No tools are required for maintenance.

- Valves reduce maintenance costs up to 80%
- Valves never need adjusting or re-tightening
- Simple Tri-clamp assembly
- Patented radial shoulder seal - simple, uniform sealing every time

Weirless Radial diaphragm valves have a number of advantages over standard diaphragm valves. They are contamination-free and have a 180° flow path, without leakage. Diaphragm change takes less than one minute and reduces maintenance costs by up to 80%. Machined from solid 316L stainless steel, with AL6XN and Hastelloy components, each valve is serialized and marked for full traceability.

Impressive cost savings

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

Lowest lifetime cost

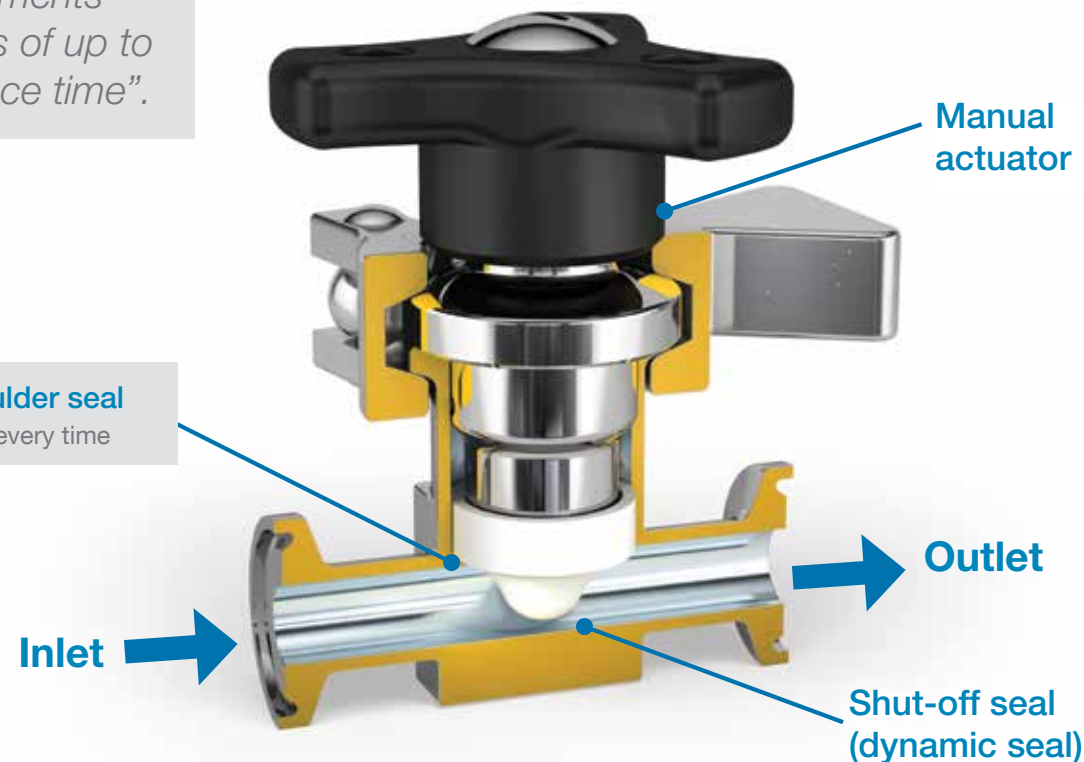
ASEPCO valves have an easy diaphragm changeover principle – taking less than a minute to complete in most circumstances. Valve benefits include

- 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 Integral non-adjustable travel stops increase diaphragm life
- 3 Remove used diaphragm from actuator
- 4 Install new diaphragm on actuator

Extensive testing proves reliability

Diaphragm 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 at 132-137C, with actuation every 20 minutes.



Weirless Radial diaphragm valves

- No weir - eliminates entrapment area
- Completely drainable
- 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)
- Serialized and laser etched

- *Integral travel stops*
- *Patented radial shoulder seal*
- *Complete isolation of process fluids*



ASEPCO Weirless Radial diaphragm in-line valve

- ▲ Our standard Weirless Radial diaphragm valve
- ▲ Featuring a 180° install angle with superior drainability in multiple orientations



ASEPCO Weirless Radial diaphragm block and bleed valve

- ▲ Two standard Weirless Radial valves machined together to shorten the area between the valve seats
- ▲ Excellent fluid isolation and the ability to bleed fluid downstream of the valve



ASEPCO Weirless Radial diaphragm sterile access valve

- ▲ Standard Weirless Radial diaphragm valve but providing two flow paths in one valve
- ▲ Eliminates several connection fittings to minimize hold up volumes

Actuators

A full range of actuation options available

- Manual
- Pneumatic
- Automation with switches or controllers

Works with all manufacturers of linear switches and controllers (e.g. Westlock, Stonel, Burkert, etc.)



Diaphragms

Available in EPDM and EPDM plus, Asepco diaphragms are extensively tested

100 thermal cycles (1 hour steam, 30 minutes cooling) according to the ASME BPE appendix J

100 hour constant steam exposure testing at according to ASME BPE SD-2.3.1.1





Fluid Technology Group

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