

# High Quality Replacement Parts for the Sanitary Processing Industries

Valve Stems

Rotors

Check Balls

Sanitary Gaskets

Sanitary O-Rings

Pump & Valve Kits



**FLOWTREN D**  
SMARTER, FASTER FLUID HANDLING SOLUTIONS

**DSO**  
Fluid Handling

# DSO Fluid Handling™

The Trusted Supplier of Sanitary Maintenance Parts and Products to the Food, Beverage, Dairy & Pharmaceutical Industries



## How do you become the preeminent leader for maintenance parts and products?

**By exceeding customers' expectations each and every day.**

Since 1993, DSO Fluid Handling Co. (DSO) has evolved into the after-market replacement parts industry leader by being recognized for its ability to supply quality components to the food, beverage and dairy markets. Valve stems and rotors, replacement parts and kits for all brands of sanitary pump and valves have been our focus. Brands serviced include:

Alfa Laval® - Pumps & Valves  
APV® - Pumps  
Evergreen® - Fillers  
Sudmo® - Valves  
Tri-Clover® - Pumps & Valves

Ampco® - Pumps  
Cherry Burrell® - Valves  
Fristam® - Pumps  
Tuchenhagen® - Valves  
Waukesha® - Pumps & Valves



As an innovator in the sanitary marketplace, DSO continues to expand its product offering to include a full line of sanitary Tri-Clamp® gaskets, orifice and perforated plates, screen gaskets, and PTFE envelope gaskets. Visit our web-site at [dso-fluid.com](http://dso-fluid.com) to see our full line of innovations.

## As a trusted supplier, DSO is compliant with and maintains the following industry certifications:

- USDA and 3-A Sanitary Standards
  - 3A Number 18-03 (Multiple Use Rubber and Rubber Like Material)
- U.S. Code of Federal Regulations Title 21, Paragraph 177.2600 and 177.1550
  - FDA CFR 177.2600 - Rubber and Rubber-Like Material for Repeated Use/Contact with Food.
  - FDA CFR 177.1550 - Fluorocarbon Resins for Repeated Use/Contact With Food, Dairy & Pharmaceutical Products.
- U.S. Pharmacopeia Class VI Certification
- ASME-BPE Standards
- ADI - Animal Derived Ingredient Free
- Phthalate free



# Valve Stems

## DSO™ offers a Variety of Rubber Coated, PTFE and Stainless Steel Replacement Valve Stems.

DSO's United States based manufacturing and distribution facility allows us to provide our customers with high quality, cost effective alternatives for sanitary valve stem replacement parts. Our extensive inventory enables DSO to offer quick shipments and short lead times to support UP TIME requirements of the Food & Beverage Process Industry.

Proprietary rubber molding techniques, including bonding the rubber to the 316L SS core, increases the life expectancy of valve stems by reducing the risk of ballooning and loosening of the rubber head from core. PTFE stem seats are available in traditional white color or blue for visual identification and detection. High temperature PEEK and metal detectable elastomers are also available.

## Three economical purchasing options through DSO™

**NEW** – High quality 316L stainless steel stem and core with molded 3-A 18-03 tested and certified Buna, EPDM & FKM rubber compounds.

**EXCHANGE** – Recycle existing stem and receive a NEW discounted replacement valve stem.

**RECONDITIONED** – Used stems are recycled, cleaned and inspected prior to being re-coated with new 3-A tested and certified rubber.



# Rubber Rotors

Proprietary rubber molding techniques, which include bonding the rubber to the metal core, increases life expectancy of DSO rotors.

DSO manufactures all new pump rotors using cast steel cores. The cast steel eliminates cracking at the core. The lobes beneath the rubber are either stainless steel or aluminum depending on the original OEM specifications.

New, exchange or reconditioned options are available to meet customer requirements.

Hot and cold service options are available.

Rubber rotors are available in Buna, EPDM, FKM and metal detectable compounds.

3-A number 18-03 tested and certified.

## Three economical purchasing options through DSO™

**NEW** – New cast steel cores and steel or aluminum bodies with rubber bonded to the metal.

**EXCHANGE** – Recycle existing rotors and receive a NEW discounted replacement rotor.

**RECONDITIONED** – Used rotors are recycled, cleaned and inspected prior to being re-coated with new 3-A tested and certified rubber.



# Sanitary Gaskets and O-Rings

To enhance our product offering, DSO has expanded it's line of Sanitary Gaskets and O-Rings to service the food, beverage, dairy, and pharmaceutical markets. DSO elastomers conform to the U.S. Code of Federal Regulations 21, Parts 177.2600 and 177.1550. DSO parts are manufactured to meet FDA, 3-A Sanitary Standards, and USP Class VI.

**All DSO™ elastomer materials are also available in Metal Detectable and X-Ray Inspectable compounds.**

## Available Gasket Styles:

- APC
- Bevel Seat
- Camlock
- DIN/ISO
- Flange Gaskets 150#, 300#
- I-Line
- John Perry
- Manway
- Orifice Plates
- O-Rings
- Perforated Plates
- Q-Line
- Quad Rings
- Schedule V
- Screen
- Tri-Clamp® Type I - Standard
- Tri-Clamp® Type II - Flanged
- Tri-Clamp® Type III - Envelope

## Available Materials:

- Tef-Steel®
- EPDM
- FKM
- PTFE
- Silicone
- Buna
- Metal Detectable
- X-Ray Inspectable



# Check Balls

DSO offers a wide variety of check valve balls. New check balls are available in Buna, EPDM, FKM and Nylon materials. All of DSO rubber coated check balls are manufactured using a stainless steel insert. The stainless steel core ensures ball rigidity, strength, and concentricity.

All DSO check balls are bonded. By bonding the rubber to the stainless core we increase the life expectancy of the check balls and prevent catastrophic ball failures.



# Replacement Kits & Components

Our replacement kits, for scheduled maintenance or repair, have been developed to minimize downtime and help make changeouts in as little time as possible. They include what is required for every specific service and the most up-to-date replacement parts in order to extend your equipment and ensure it is running on the latest technology.

Replacement kits are available for a wide range of equipment, including pumps, valves, and homogenizers. All parts are specifically designed to match your equipment and operating conditions – the perfect fit and compatibility.

Replacement kits are sent in one shipment. You can be assured of the right parts in the right packaging with the right fit.



## Parts for:

- Alfa Laval®
  - Tri-Clover®
  - AMPCO®
  - APV®
  - Cherry Burrell®
  - Evergreen®
  - Fristam®
  - G&H®
  - SUDMO®
  - Tuchenhagen®
  - Waukesha®
  - Wright®
- ...and many more.



## Additional DSO Services and Products:

- Private labeling
- Custom CNC machining and fabricating
  - Pump shafts
  - Wear rings
  - Seal rings
  - Seal bearings
  - Impellers
  - Sleeves
  - Back plates
- Hard to find legacy parts
- Metal detectable kits
- Kitting for specific customer needs
- Customer specific inventory

All custom  
CNC machining  
done in-house  
at our  
DSO facility



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# FLOWTREND.

SMARTER, FASTER FLUID HANDLING SOLUTIONS

## DSO

Fluid Handling

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