

# Pharmaceutical Family of Gaskets

Tri-Clamp® gaskets for applications requiring high temperature, chemical resistance, high resilience, SIP and CIP, and an extended product life



**DSO**  
Fluid Handling

**Class VI**  
**87 & 88**  
Tested and  
Certified

# Tef-Steel®, PTFE and Envelope Gaskets

Tri-Clamp® gaskets for applications requiring high temperature, chemical resistance, high resilience and an extended product life in many styles in sizes from 1/2" to 12".

**Tef-Steel:** a 50/50 blend of modified PTFE and 316L atomized and passivated stainless steel, Tef-Steel delivers leak-proof, perfect surface performance with outstanding durability in SIP (steam in place), CIP (clean in place), WFI (water for injection) and hot oil applications. Tef-Steel is ideal for sanitary steam pipe connections in extreme temperatures ranging from -300°F to 500°F. The superior strength of Tef-Steel provides extended uptime because it eliminates cold flow and creep preventing maintenance problems and downtime.

**PTFE:** whenever low temperature flexibility or seal memory is not required PTFE is the material of choice. PTFE has extremely low extractables, has a low absorption rate and excellent resistance to process fluids. It can remain in service for longer periods of time in both water and steam for continuous use.

**Envelope:** a PTFE envelope gasket provides the chemical resistance of PTFE with the elastomeric characteristics of EPDM or FKM Fluoroelastomer. Envelope gaskets offer consistent sealing in most applications, ranging from mild to severely corrosive environments. The PTFE component is USP Class VI certified with an FDA approved rubber insert.

**Tef-Flex:** Tef-Flex is specifically designed to meet critical requirements in pharmaceutical, biotechnology, ultrapure water, WFI (water-for-injection). Fully unitized gasket, with the PTFE bonded to an EPDM liner. -20°F to 300°F

**Silicone:** High purity platinum cured silicone gaskets are the ideal choice for use in production facilities of fine pharmaceutical, biotechnology, high-purity water & injectables. -40F to 450F

## Available Pharma Gaskets

- Tef-Steel®
- PTFE
- PTFE Envelope
- Tef-Flex
- Silicone
- Gauge Safe Guard
- EPDM
- FKM

## Available Gasket Styles

- Tri-Clamp® Type I - Standard
- Tri-Clamp® Type II - Flanged
- Tri-Clamp® Type III - Envelope
- Orifice Plates
- Perforated Plates
- Screens

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

- Class VI Sections 87 and 88
- USDA
- U.S. Code of Federal Regulations Title 21, Paragraph 177.2600 and 177.1550
- ASME-BPE Standards
- ADI - Animal Derived Ingredient Free
- Phthalate free

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Tri-Clamp® is a registered trademark of The Ladish Company.

## How to Order

Contact your local distributor to order any DSO product or replacement part, or reach out to DSO at 800-527-6867 or at sales@dso-fluid.com so we can assist in setting you up with your local distributor.

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Fluid Handling

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