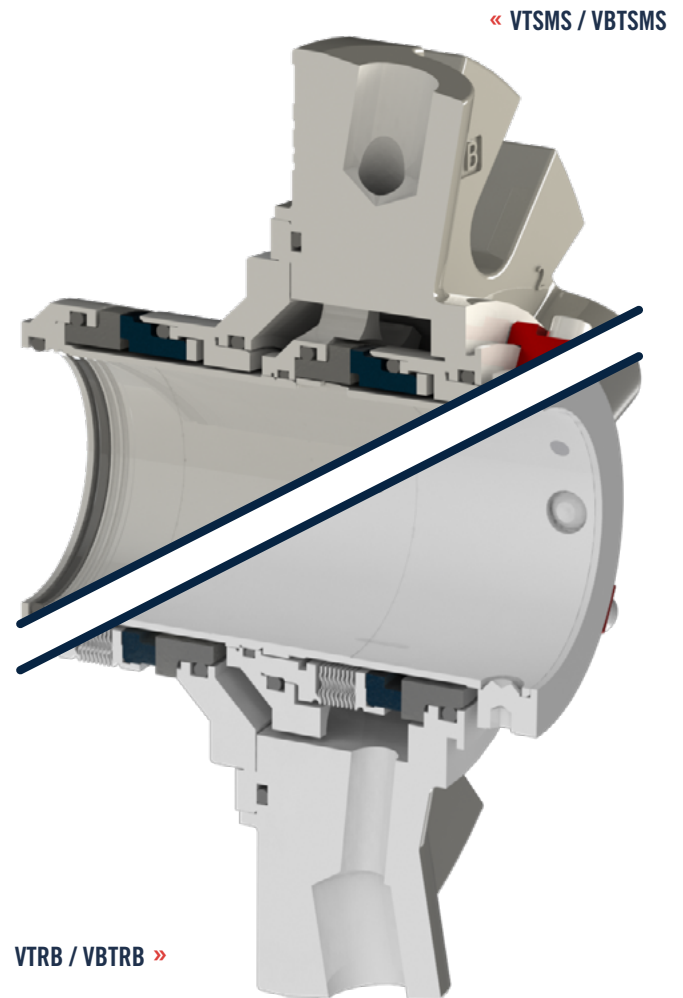


VANTAGE DUAL TANDEM CARTRIDGE SEAL FEATURES

ANSI MULTI-SPRING AND WELDED METAL BELLOWS MECHANICAL SEAL

PRODUCT LINE FEATURES

- Simple cartridge seal installation
- Sleeve is isolated from process fluid
- 3/8" NPT barrier connection allows for cooling.
- Vantage tandem seal glands include four (4) barrier in and out connections for maximum piping flexibility.
- Angled gland connections allow for easier pipe fitting.
- Setting clips provide positive axial and radial setting of the Vantage cartridge seal to ensure proper seal installation. The Vantage setting clips are easy to access for simple removal.
- Only one Allen wrench required to tighten screws and remove the setting clips.
- Convertible gland design to accept over twelve (12) design configurations

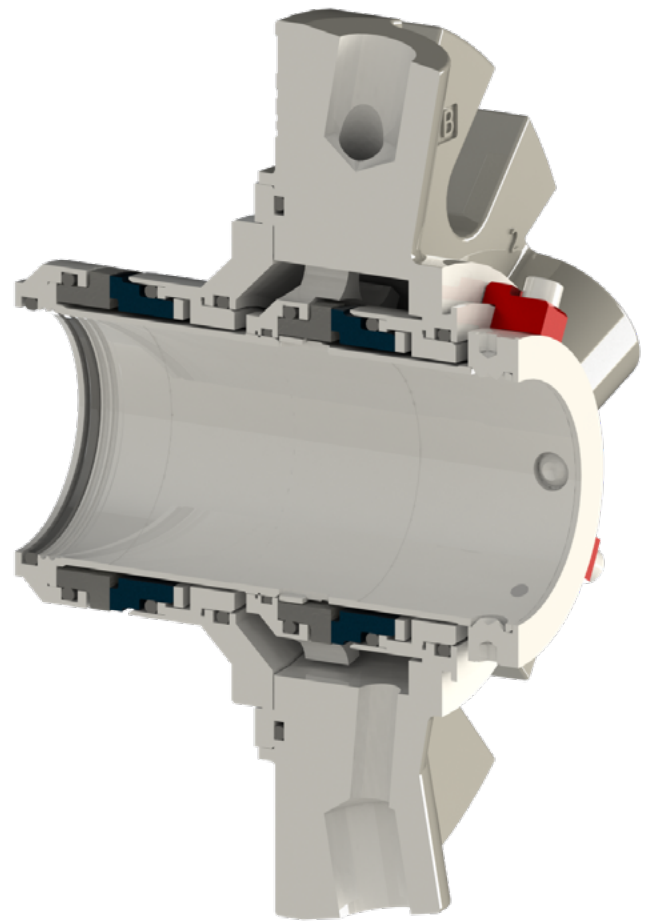


VTSMS / VBTSMS

ANSI DUAL TANDEM STATIONARY MULTI-SPRING CARTRIDGE MECHANICAL SEAL

FEATURES

- Stationary springs and drive pin mechanism isolated from process fluids to minimize corrosion, clogging, and stress-related failures
- Dynamic Drive Ring eliminates primary face hang up and reduces face to pin fretting
- Flat Drive System eliminates face drive pins enhancing face stability and reducing face fractures
- Dynamic elastomer moves on non-metallic, smooth surface eliminating fretting
- Stationary design for optimal face alignment
- Pumping ring included as standard
- Available in ANSI Big/Taper and Standard Bore



Materials of Construction

Rotating Seal Face	Sintered Silicon Carbide
Stationary Seal Face	Carbon, Sintered Silicon Carbide
Springs	Hastelloy® C276
Metallurgy	316 SS
Elastomers	Viton®, Ethylene Propylene, Aflas®, Buna, Neoprene, Perfluorelastomer
Gland Gasket	Glass-Filled Teflon™
Throttle Bushing	Glass-Filled Teflon™

Operating Parameters

Temperature	400° F (200°C)
Pressure	300 PSI (20 Bar)
Speed	4500 FPM

VANTAGE TANDEM CARTRIDGE FEATURES

DESIGN FEATURES & BENEFITS

Setting Clips provide positive axial and radial setting of the Vantage cartridge seal to ensure proper seal installation. The Vantage setting clips are easy to access for simple removal.

Stationary Design for optimal face alignment.

3/8" NPT Barrier Connections can be pumped at 12/16 o'clock or 3/9 o'clock positions.

Dynamic Drive Ring eliminates primary face hang up and reduces face to pin fretting

Stationary Springs isolated from process fluids to minimize corrosion, clogging

Stationary Design for optimal face alignment.

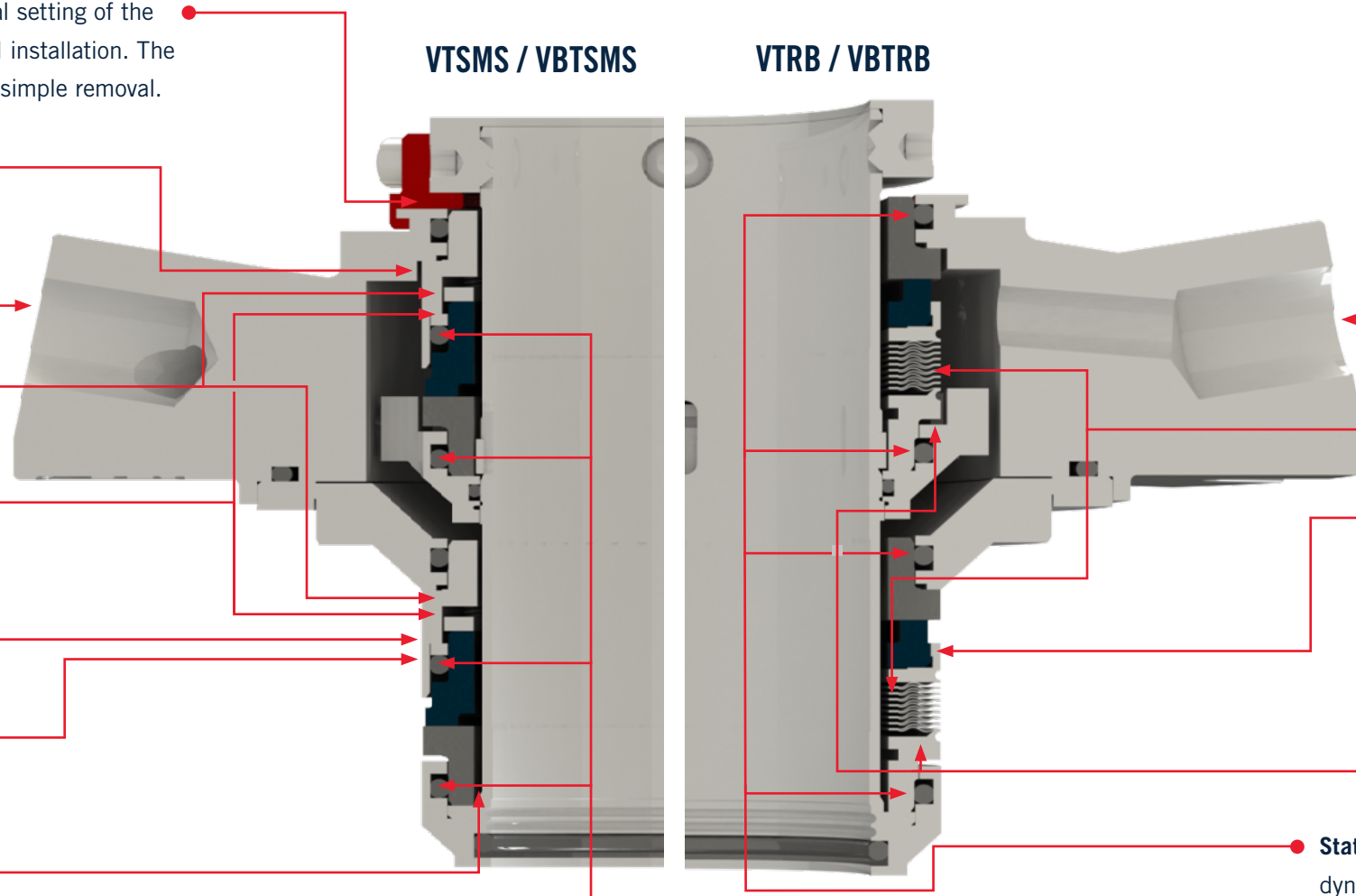
Dynamic Elastomer moves on non-metallic, smooth surface eliminating fretting

Sleeve is isolated from process fluid.

Unique Flat Drive System Seal faces are driven by large surface area drive flats in retainers to reduce stress and face fracture common with drive pins

VTSMS / VBTSMS

VTRB / VBTRB



• No fretting • No springs to clog or break.

• **Angled Gland Connections** allow for easier pipe fitting.

• **Welded Metal Bellows** replace the dynamic elastomer which can hang up the seal faces.

• Uniform 360° transfer of torque to the rotating face.

• **Rotating Design** uses centrifugal force for self-cleaning.

• **Static Elastomers** eliminate seal failures caused by dynamic O-ring "hang up" and offers cost savings when upgrading to Perfluorelastomers.