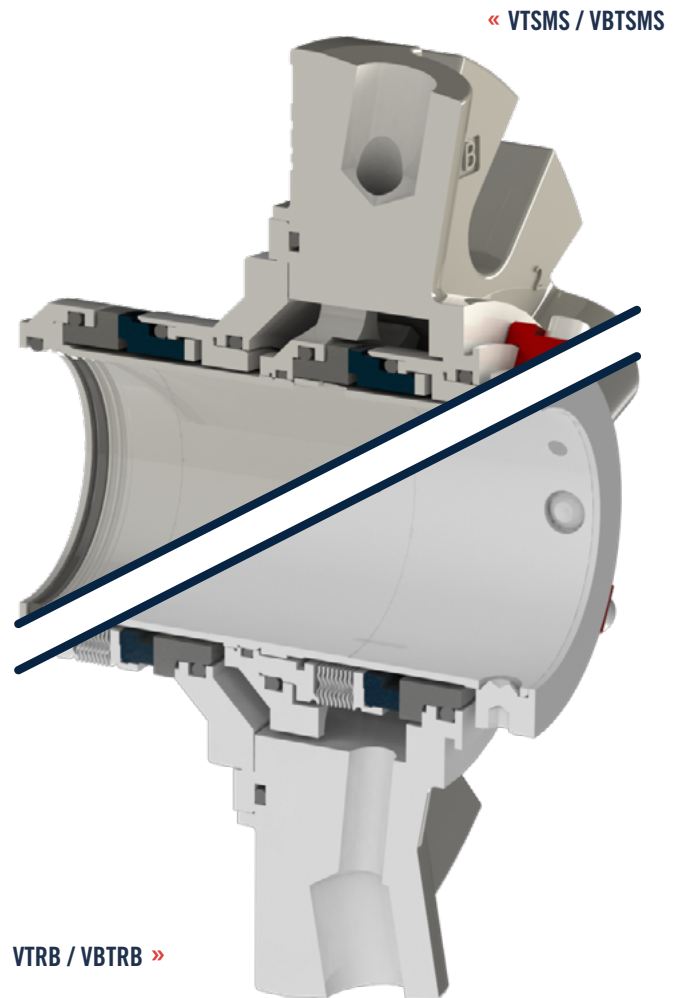


## VANTAGE DUAL TANDEM CARTRIDGE SEAL FEATURES

*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

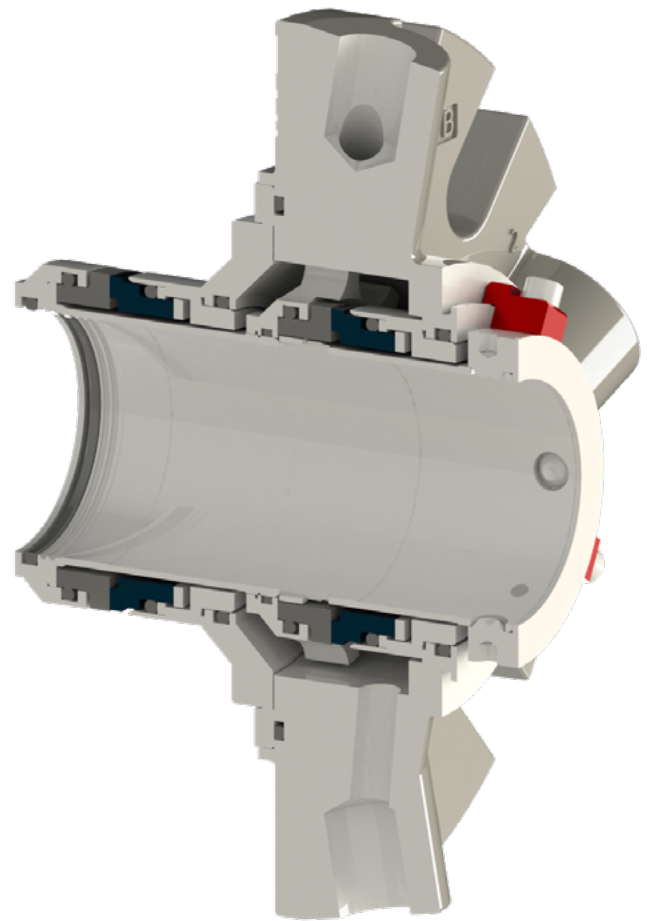


# VTSMS / VBTSMS

## 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.

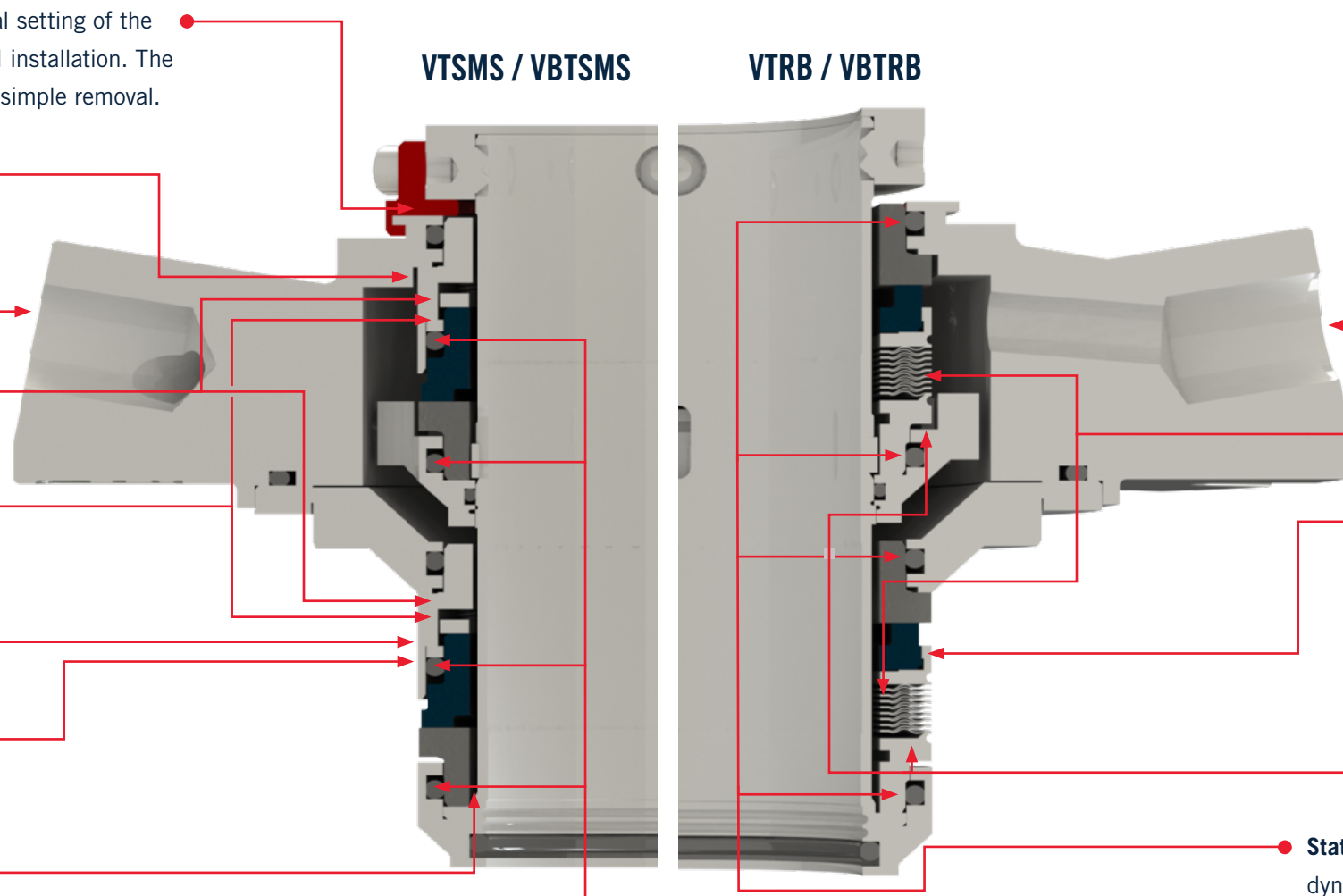
**Dynamic Elastomer** moves on non-metallic, smooth surface eliminating fretting

**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.