

Single Cartridge Type VN10



API 682 Mechanical Seals

API 682 Type C, Arrangement 1 metal bellows



PRODUCT DESCRIPTION

API 682 Type C, Arrangement 1

Type VN is a high-temperature, single cartridge metal bellows seal with a floating or segmented throttle bushing and a steam guide, independent of shaft rotation direction. The pressure-balanced bellows provide excellent angular and radial movement at high speeds. It is designed to seal fluids in most refinery applications, including hydrocarbons, crude oil products, aromatic fractions, and chemicals.

FEATURES

- API 682 Type C, Arrangement 1
- Easy-to-install single cartridge design
- Balanced
- Multiple springs
- Independent of shaft rotating direction
- Floating or segmented spring-loaded carbon throttle bushing
- With stream guide
- Integrated pumping ring available
- Elastomers free

APPLICATION

- Hydrocarbons
- Refinery & Petrochemical industry
- Oil & gas industry
- Chemical industry

MATERIALS

- Seal face: Carbon antimony impregnated, SiC, TC
- Stationary seat: SiC, TC
- Secondary seal: Flexible Graphite
- Metal Parts: 316L, Alloy 718, Carpenter 42
- Optional materials on request

LIMITING FACTORS

- Shaft diameter: $D1 = 30 \dots 120 \text{ mm}$
- Pressure: $p1 = \text{vacuum to } 25 \text{ bar}$
- Temperature: $t = -75^\circ\text{C} \dots +425^\circ\text{C}$
- Sliding velocity: $Vg = 50 \text{ m/s}$