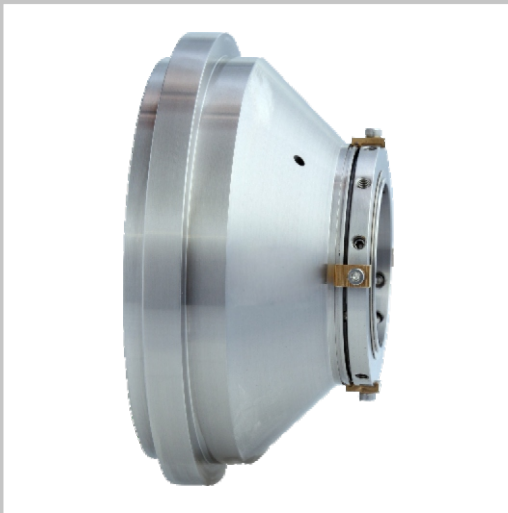


VTX Dual Seals

For Eccentric Screw Pumps - Standard Cartridge Seals

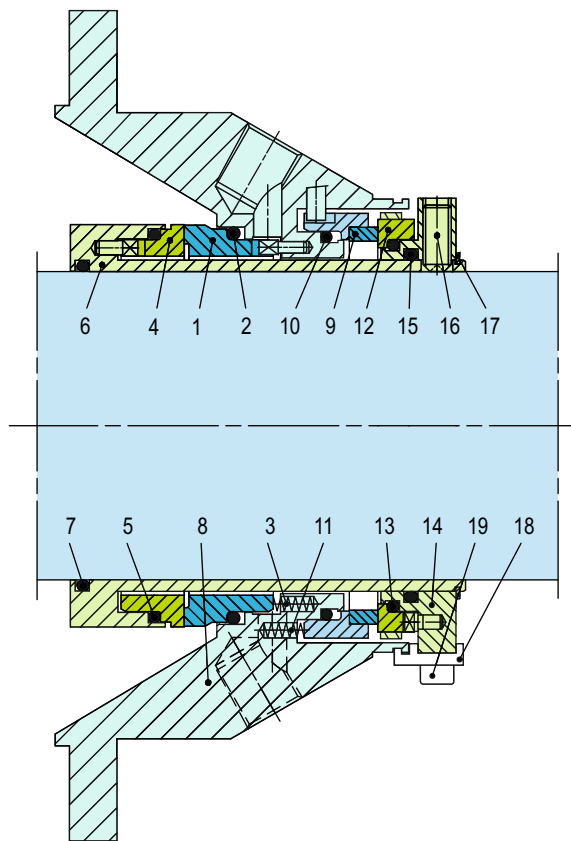


Product Description

1. Dual seal configuration
2. Balanced design
3. Independent of direction of rotation
4. Cartridge construction
5. Double pressure balanced
6. Designed with integrated pumping device for increased efficiency in circulation
7. Suitable for eccentric screw pumps

Technical Features

1. Ideal for use in process pump standardization
2. O-ring is dynamically loaded to prevent shaft damage.
3. Dimensional modification of the stuffing box chamber is not required due to short radial installation height
4. Ideal to convert and retrofit pumps with packings and large volume OEM production
5. Cartridge unit factory assembled for easy installation, which reduces down-time
6. Rugged design for long operating life



Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

| Item | Description |
|-----------------------|--------------|
| 1 | Seal face |
| 2, 5, 7 10, 13, 15 | O-ring |
| 3 | Spring |
| 4, 12 | Seat |
| 6 | Shaft sleeve |
| 8 | Cover |

| Item | Description |
|------|------------------|
| 9 | Seal Face |
| 11 | Spring |
| 14 | Driver |
| 16 | Set screw |
| 17 | Retaining Ring |
| 18 | Assembly Fixture |
| 19 | HSH Cap Screw |

VTX

CTX seals with modified cover for eccentric screw pumps.

Example Pumps: Seepex BN, Netzsch NM...S, NM...B, NE (P), Allweiler AE, AEB, AED, Robbins & Myers / Moyno 2000 CC, and Mono E-Range.

Typical Industrial Applications

Foodstuffs and animal feed industries
 Sweet cider pressing and beverage production
 Viticulture and wineries
 Spirit production and alcohol industry
 Breweries and malt houses
 Sugar industry
 Pharmaceuticals and cosmetics industry
 Oil and gas industry
 Pulp and paper production
 Paint and lacquer industry
 Chemicals industry
 Automobile industry
 Water and wastewater industry

Materials

Seal face: Silicon carbide (Q1), Carbon graphite resin impregnated (B), Tungsten carbide (U2)
 Seat: Silicon carbide (Q1)
 Secondary seals: FKM (V), EPDM (E), FFKM (K), Perfluorocarbon rubber/PTFE (U1)
 Springs: Hastelloy® C-4 (M)
 Metal parts: CrNiMo steel (G), CrNiMo cast steel (G)

Performance Capabilities

Sizes: Upto 140mm (Upto 5.500")
 Other sizes on request
 Temperature : t = -40 °C...+220 °C
 (-40 °F...+428 °F)
 (Check O-ring resistance)

Sliding face material combination BQ1

Pressure: $p_1 = 25$ bar (363 PSI)
 Speed = 16 m/s (52 ft/s)

Sliding face material combination Q1Q1 or U2Q1

Pressure: $p_1 = 12$ bar (175 PSI)
 Speed = 10 m/s (33 ft/s)
 Permissible axial movement: ± 1.0 mm,
 $d_1 \geq 75$ mm ± 1.5 mm