

VTX Single Seals

For Eccentric Screw Pumps - Standard Cartridge Seals

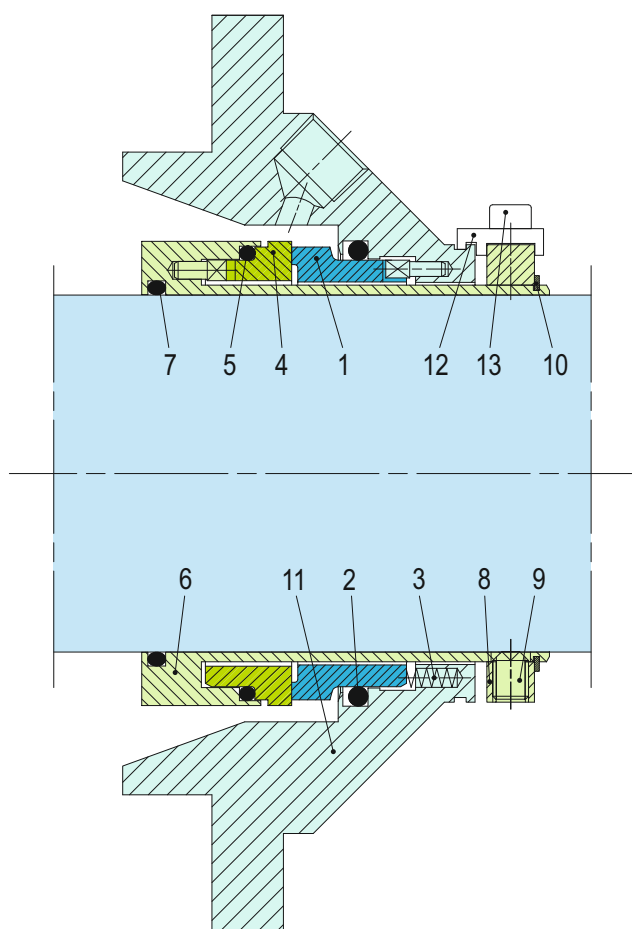


Product Description

1. Single seal configuration
2. Balanced design
3. Independent of direction of rotation
4. Cartridge construction

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	O-ring
3	Spring
4	Seat
6	Shaft sleeve
8	Drive collar
9	Set screw

Item	Description
10	Snap ring
11	Cover
12	Assembly fixture
13	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

VTX-SN, -SNO, -QN, -TN

Sizes: Upto 100 mm (Upto 4.000")

Other sizes on request

Temperature: $t = -40\text{ }^{\circ}\text{C} \dots +220\text{ }^{\circ}\text{C}$

($-40\text{ }^{\circ}\text{F} \dots +428\text{ }^{\circ}\text{F}$)

(Check O-ring resistance)

Sliding face material combination Bq1

Pressure: $p_s = 25\text{ bar}$ (363 PSI)

Speed = 16 m/s (52 ft/s)

Sliding face material combination Q1Q1 or U2Q1

Pressure: $p_s = 12\text{ bar}$ (175 PSI)

Speed = 10 m/s (33 ft/s)

Permissible axial movement: $\pm 1.0\text{ mm}$,

$d_i \geq 75\text{ mm} \pm 1.5\text{ mm}$