

# VTX Dual Seals

## For Eccentric Screw Pumps - Standard Cartridge Seals

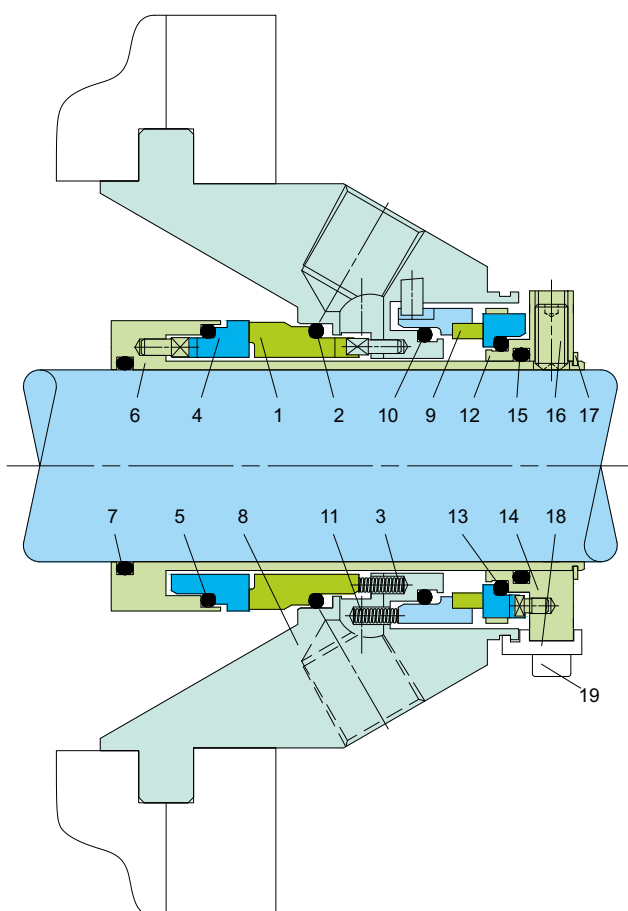


### Product Description

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<br>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

|                 |                     |
|-----------------|---------------------|
| Breweries       | Sugar production    |
| Chemical        | Water & waste water |
| Cosmetic        |                     |
| Fertiliser      |                     |
| Food & beverage |                     |
| Oil & gas       |                     |
| Paint           |                     |
| Pharmaceutical  |                     |
| Pulp & paper    |                     |

### 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 140 mm (Upto 5.500")                                           |
| Other sizes on request                                |                                                                     |
| Temperature:                                          | t = -40 °C...+220 °C (-40°F...+428 °F)<br>(Check O-ring resistance) |
| <b>Sliding face material combination Bq1</b>          |                                                                     |
| Pressure:                                             | p <sub>i</sub> = 25 bar (363 PSI)                                   |
| Speed:                                                | = 16 m/s (52 ft/s)                                                  |
| <b>Sliding face material combination Q1Q1 or U2Q1</b> |                                                                     |
| Pressure:                                             | p <sub>i</sub> = 12 bar (175 PSI)                                   |
| Speed:                                                | = 10 m/s (33 ft/s)                                                  |
| <b>Permissible Axial Movement</b>                     |                                                                     |
| ± 1.0 mm, d <sub>i</sub> ≥ 75 mm ± 1.5 mm             |                                                                     |

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.