

CTXAPI-SN

API 682 4th Edition Category 1
Seal Type A (Rotating)
Configuration 1CW-FX (Contacting Wet – FiXed throttle bushing)

Product Description

- 1. API 682 Category 1, Type A, Arrangement 1
- 2. Single seal configuration
- 3. Balanced design
- 4. Independent of direction of rotation
- 5. Cartridge construction
- 6. Robust construction with shrink-fitted seal face
- 7. Heavy duty solid seat design

Technical Features

- Designed to accommodate shaft deflections and process fluctuations
- 2. Efficient construction for heat dissipation
- 3. Compact installation design
- 4. Factory assembled cartridge unit for easy installation
- 5. Springs are product protected to avoid contamination
- 6. Can accommodate reverse pressure
- 7. Can handle extensive applications in various temperatures and pressures
- 8. Versatile in design to fit various seal chambers

Typical Industrial Applications

- Chemical industry
- · Petrochemical industry
- Oil and gas industry
- Highly volatile hydrocarbons
- Toxic and hazardous media
- Media with poor lubrication properties
- · Low solids content and low abrasive media
- Vertical and horizontal ANSI chemical standard pumps

Performance Capabilities

Shaft diameter: d1 = 20 ... 110 mm (0.79" ... 4.33") Pressure: p1 = 22 bar (319 PSI) Temperature: t = -40 °C ... +176 °C (-40 °F ... +349 °F) (>176 °C (349 °F) please enquire) Sliding velocity: vg = 23 m/s (75 ft/s)

Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q12)

Mating ring: Silicon carbide SSiC (Q1)

Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K) Springs: Hastelloy® C-4 (M)* and C-276 (M5)

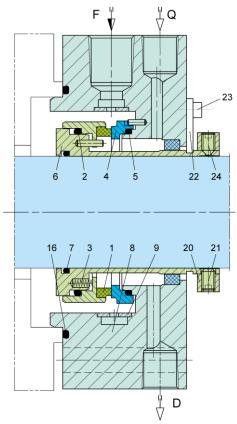
Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

* Sealmatic standard

Recommended piping plans

Process side:

01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 41, 32 Atmospheric side: 51, 61, 62, 65A, 65B, 66A, 66B



Item	Description
1	Seal ring
2, 5, 7, 16	O-ring
3	Spring
4	Mating ring
6	Shaft sleeve
8	Gland
9	Multi-flow distributor
20	Set ring
21, 24	Set screw
22	Setting plate
23	HSH cap screw
F	Flush
Q	Quench
D	Drain