



Product Description

1. Balanced
2. Double pressure balanced
3. Dual seal
4. Independent of direction of rotation
5. Internal barrier fluid circulation
6. No dynamic O-Ring on shaft
7. Shrink-fitted seal faces
8. Seal faces have a large clearance to the shaft
9. Semi cartridge unit
10. Static springs on both sides

Technical Features

1. Can be used with pressurized buffer fluid or with quench
2. No damage of the shaft by dynamically loaded O-Rings
3. Seal faces protected by strong steel parts and a large radial clearance
4. Static springs on both face sides reduces influence of misalignment
5. The dual seal can also be used as single seal by removing the atmospheric seal parts

Typical Industrial Applications

Pulp and paper industry
 Chemical industry
 Clean, abrasive or corrosive liquids
 Stocks of various kind
 Applications where crystallization is a problem

Performance Capabilities

Temperature: $t = -20\text{ °C} \dots +140\text{ °C}$ ($-4\text{ °F} \dots +284\text{ °F}$)
 (180 °C (356 °F) with FFKM elastomers)
 Pressure: $p_1 \dots 25\text{ bar}$ (363 PSI), p_3
 Sliding velocity: $v_g \dots 20\text{ m/s}$ (66 ft/s)
 Stock content:

Non-flow operation:

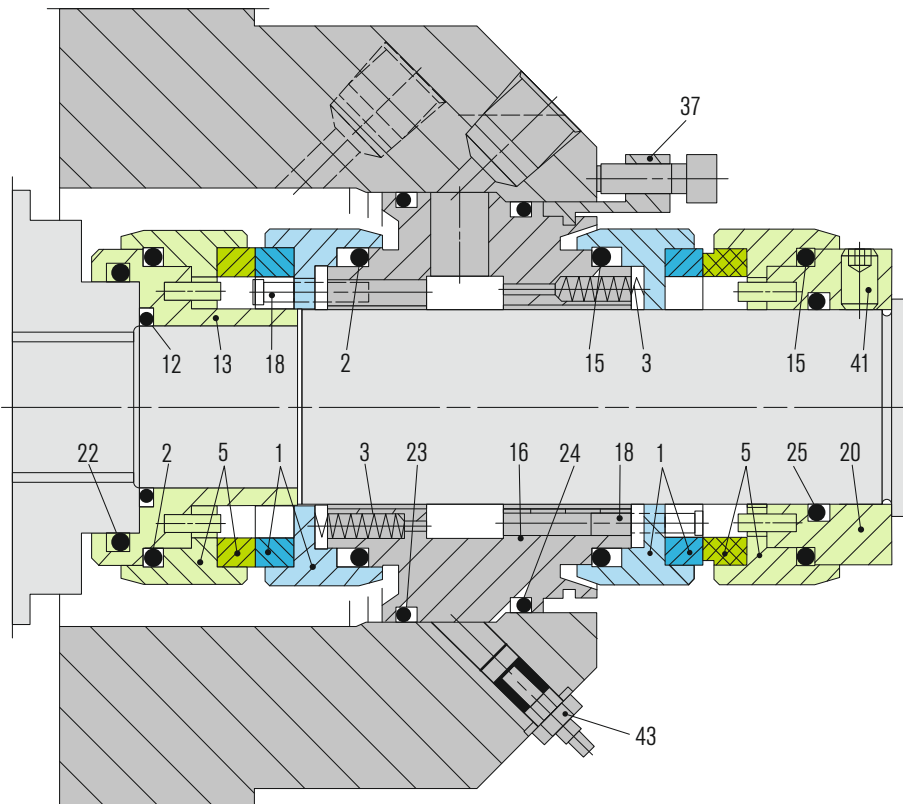
Temperature: $t = +5\text{ °C} \dots +100\text{ °C}$ ($+41\text{ °F} \dots +212\text{ °F}$)
 Pressure: p_1 max. 10 bar (145 PSI), $p_3 > p_1$
 Sliding velocity: $v_g \dots 20\text{m/s}$ (66 ft/s)

Materials

Seal face: Silicon carbide (Q12), Carbon (A)
 Secondary seals: FKM (V), EPDM (E), FFKM (K)
 Metal parts: CrNiMo steel (G), Grade 5A (4T), SMO 654 (4U)

Suitable for following equipments

Ahlstar UPAMS21 pumps
 Sulzer A, APP/APT pumps
 Sulzer SL mixers
 Metso conical refiners
 Stock pumps



Item	Description
1	Seal face
5	Seat
13	Sleeve
16	Housing
18	Pin
37	Assembly fixture
2, 12, 15, 22, 23, 24, 25	O-Ring
43	Plug