

UG100 Single Seals

Standard Mechanical Seals - Elastomer Bellows Seals

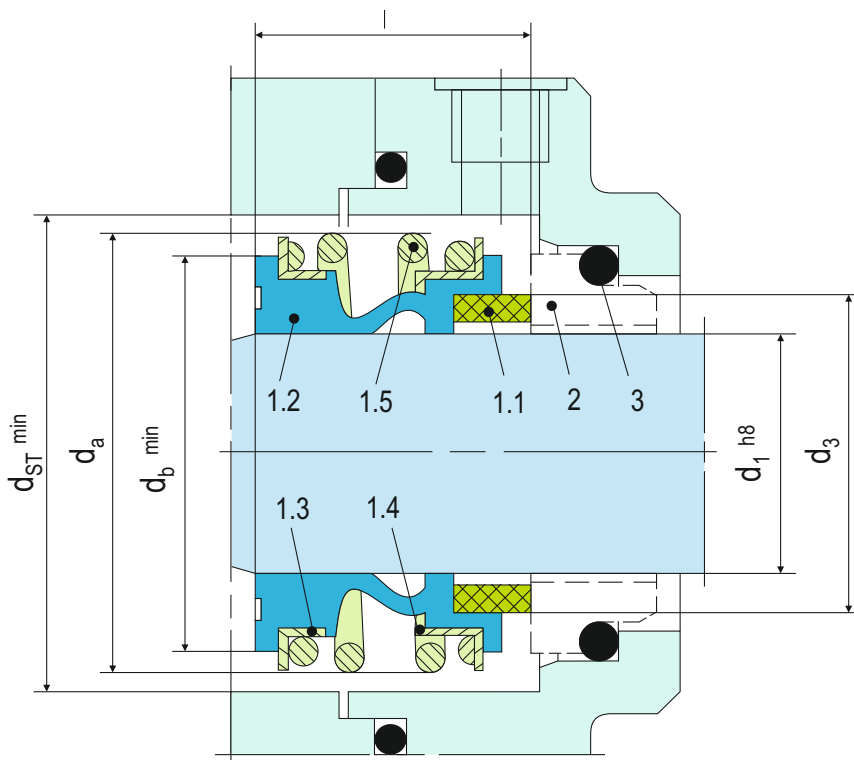


Product Description

1. Single seal configuration
2. Unbalanced design
3. Independent of direction of rotation
4. For plain shafts
5. Rotary elastomer bellows design

Technical Features

1. Low cost seal solution
2. Suitable for mild sterile applications
3. No damage to the shaft
4. Can be employed for low solids content
5. Multifaceted application usage



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.

Typical Industrial Applications

Chemical industry
 Food processing industry
 Pulp, paper & Latex
 Water, waste water and mild slurries
 Chemical standard pumps
 Helical screw pumps
 Submersible pumps

Performance Capabilities

Sizes: $d_1 =$ Up to 100 mm (Up to 4.000")
 Pressure: $p_1 =$ 16 bar (230 PSI)
 vacuum: 0.5 bar (7.25 PSI), up to 1 bar (14.5 PSI) with seat locking
 Temperature: $t = -20^{\circ}\text{C} \dots +140^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots +284^{\circ}\text{F}$)
 Speed: $= 10 \text{ m/s}$ (33 ft/s)
 Permissible axial movement: $\pm 2.0 \text{ mm}$

Notes

The UG100 can also be used as a multiple seal in tandem or in a back-to-back arrangement. Installation proposals can be supplied on request.

Dimension adaptations for specific conditions, e.g. shaft in inches or special seat dimensions are available on request.

Standards

EN 12756

Materials

Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1), Tungsten carbide (U3)
 Seat: Silicon carbide (Q1, Q2), Tungsten carbide (U3), Special cast CrMo steel (S), Aluminium oxide (V)
 Elastomer: NBR (P), EPDM (E), FKM (V),
 Metal parts: CrNiMo steel (G), Hastelloy® C-4 (M)

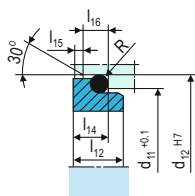
Item	Part no.	Description
1.1	472	Seal face
1.2	481	Bellows
1.3	484.2	L-ring (spring collar)
1.4	484.1	L-ring (spring collar)

DIN 24250

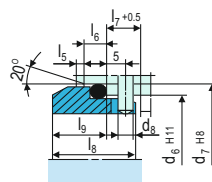
Item	Part no.	Description
1.5	477	Spring
2	475	Seat
3	412	O-ring or cup rubber

DIN 24250

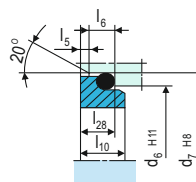
Stationary Seats



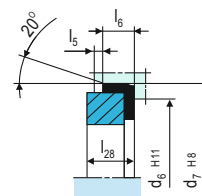
G4



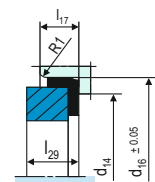
G9
EN 12756



G6
EN 12756



G60
EN 12756



G50
Euro standard

