

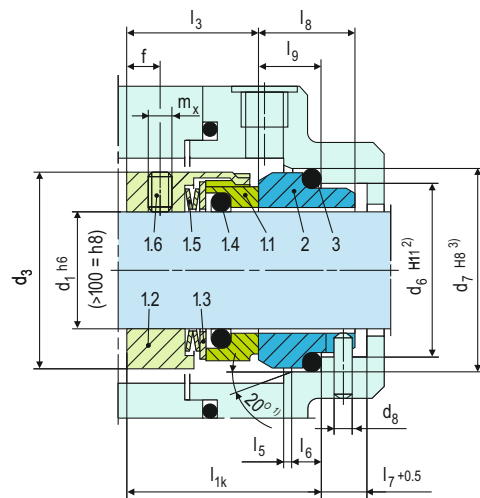


Product Description

1. Single seal configuration
2. Unbalanced design
3. Independent of direction of rotation
4. For plain shafts
5. Multiple or wave springs rotary construction
6. Pumping device available for increased efficiency in circulation
7. Sealing with FEP & Spring energized PTFE seals also available on request

Technical Features

1. Versatile torque transmission available
2. Pumping screw for media with higher viscosity also available
3. Capable of self-cleaning
4. Short installation length available on request
5. Can be employed for low solids content
6. 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.

Item	Part no.	Description
1.1	472	Seal face
1.2	485	Drive collar
1.3	474	Thrust ring
1.4	412.1	O-ring
1.5	477	Spring
1.6	904	Set screw
2	475	Seat (G9)
3	412.2	O-ring

DIN 24250

1) $d_1 > 100 \text{ mm}$: 30°
2) $d_1 > 100 \text{ mm}$: $+0.1$
3) $d_1 > 100 \text{ mm}$: H7

Typical Industrial Applications

Chemical industry
 Food and beverage industry
 Medias with low solid contents
 Marine applications
 Process industry
 Water and waste water technology
 Chemical standard pumps
 Gear wheel feed pumps
 Multistage pumps
 Vertical screw pumps

Performance Capabilities

Sizes: $d_1 = \text{Upto } 100 \text{ mm (Upto } 4.000\text{'')}$
 Pressure: $p_1 = 25 \text{ bar (363 PSI)}$
 Temperature: $t = -50 \text{ }^\circ\text{C} \dots +220 \text{ }^\circ\text{C}$
 ($-58 \text{ }^\circ\text{F} \dots +428 \text{ }^\circ\text{F}$)
 Speed = 20 m/s (66 ft/s)
 Permissible axial movement:
 $d_1 = \text{up to } 25 \text{ mm: } \pm 1.0 \text{ mm}$
 $d_1 = 28 \text{ up to } 63 \text{ mm: } \pm 1.5 \text{ mm}$
 $d_1 = \text{from } 65 \text{ mm: } \pm 2.0 \text{ mm}$

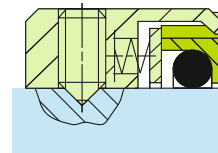
Standards

EN 12756

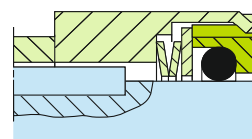
Materials

Seal face: Special cast CrMo steel (S), Silicon carbide (Q1, Q2), Aluminium oxide (V)
 Seat G9: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1*, Q2*)
 Seat G6: Silicon carbide (Q1*, Q2*)
 Seat G13: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
 Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)
 Springs: CrNiMo steel (G) Metal parts: CrNiMo steel (G), Duplex (G1)
 * Cannot be combined with seal face made of S

Torque Transmissions

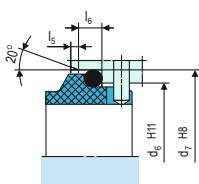


$d_1 > 100 \text{ mm (4.000'')}$
 Torque transmission by 4 set screws with cone points. Offset: 90°

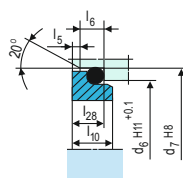


Drive key
 (U700S2 / U740S2)

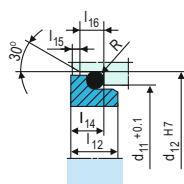
Stationary Seats



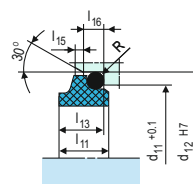
G9
 (EN 12756)



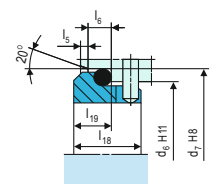
G6
 (EN 12756)



G4



G13



G16
 (EN 12756, but l_{1k} is shorter than specified)

