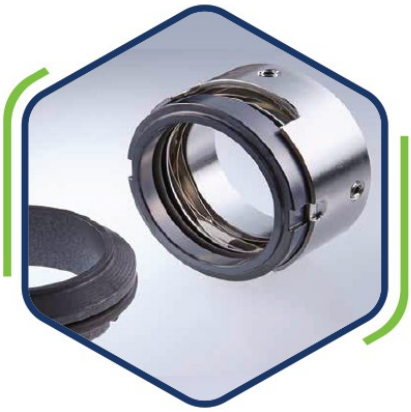
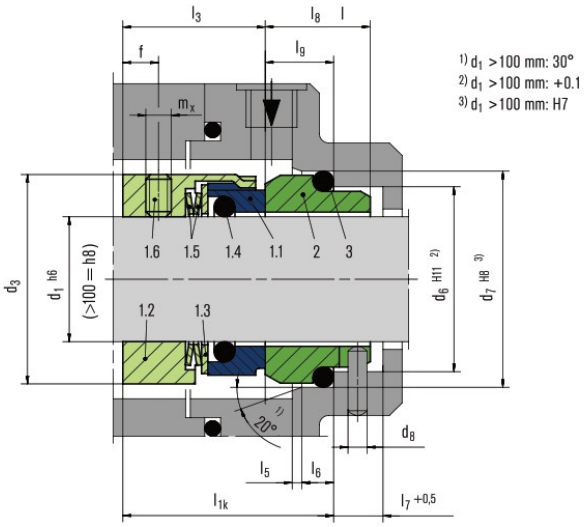
MSM 7N





Features

- For plain shafts
- Single seal
- Unbalanced
- Super-Sinus-spring or multiple springs rotating
- Independent of direction of rotation
- Pumping screw for media with higher viscosity (M7..F)
- Variant with PTFE secondary seals for high chemical resistance (M78N)

Advantages

- Universal application opportunities
- Efficient stock keeping
- due to easily interchangeable faces
- Extended selection of materials
- Insensitive to low solids contents
- Flexibility in torque transmissions
- Self cleaning effect
- Short installation length possible (G16)

Operating range (see note on page 1)

Shaft diameter: d_1 = 14 ... 100 mm (0.55" ... 3.94")
Pressure: p_1 = 25 bar (363 PSI)
Temperature: t = –50 °C ... +220 °C
(–58 °F ... +428 °F)
Sliding velocity: v_g = 20 m/s (66 ft/s)
Axial movement:
d_1 = ... 25 mm: ±1 mm
d_1 = 28 ... 63 mm: ±1.5 mm
d_1 = from 65 mm: ±2 mm

Materials

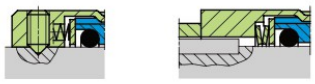
Seal face: Special cast CrMo steel (S), Silicon carbide (Q1, Q2), Aluminium Oxide (V)
Seat G9: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1*, Q2*)
Seat G4: Silicon carbide (Q1*, Q2*)
Seat G6: Silicon carbide (Q1*, Q2*)
Seat G13: Carbon graphite 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 in S

Standards and approvals

- EN 12756

Torque transmissions



d_1 >100 mm (3,94")
Torque transmission by
4 **set screws** with cone point. Offset: 90°

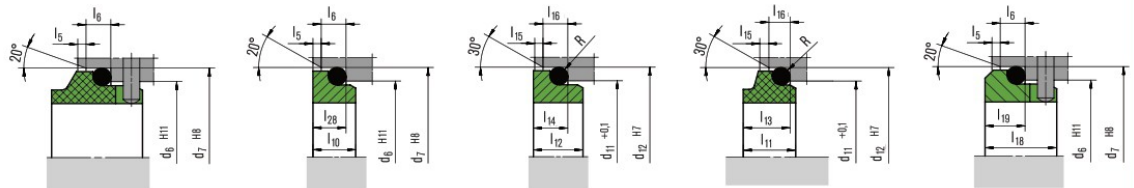
Drive key
(M7S2 / M74S2)

Item	Part no. to DIN 24250	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

Recommended applications

- Process industry
- Chemical industry
- Pulp and paper industry
- Water and waste water technology
- Shipbuilding
- Food and beverage industry
- Lube oils
- Low solids content media
- Water / sewage water pumps
- Chemical standard pumps
- Vertical screw pumps
- Gear wheel feed pumps
- Multistage pumps (drive side)
- Circulation of printing colors with viscosity
- 500 ... 15,000 mm²/s

Seat alternatives



G9 (EN 12756) | **G6** (EN 12756) | **G4** | **G13** | **G16** (EN 12756, but l_{1k} is shorter than specified)