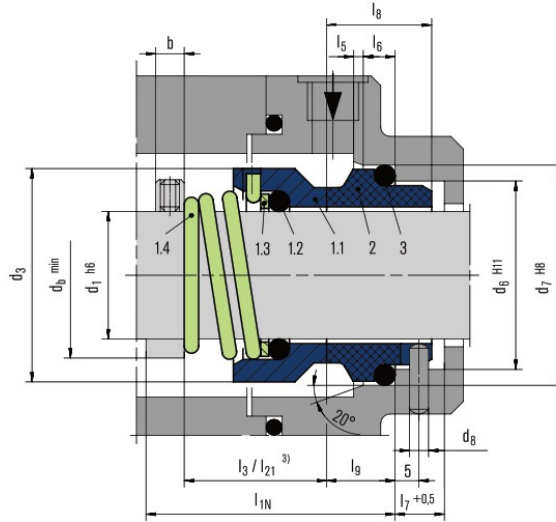


MSM3



Features

- For plain shafts
- Single seal
- Unbalanced
- Rotating conical spring
- Dependent on direction of rotation

Advantages

- Universal application opportunities
- Insensitive to low solids content
- No damage of the shaft by set screws
- Large choice of materials
- Short installation lengths possible (G16)
- Variants with shrink-fitted seal face available

Operating range (see note on page 1)

Shaft diameter: $d_1 = 6 \dots 80$ mm (0.24" ... 3.15")
 Pressure: $p_1 = 10$ bar (145 PSI)
 Temperature: $t = -20$ °C ... $+140$ °C (-4 °F ... $+355$ °F)
 Sliding velocity: $v_g = 15$ m/s (50 ft/s)
 Axial movement: ± 1.0 mm

Materials

Seal face: CrMo special cast steel (S)
 Seat G9: Carbon graphite antimony impregnated (A),
 Carbon graphite resin impregnated (B)

Standards and approvals

- EN 12756

Recommended applications

- Chemical industry
- Pulp and paper industry
- Water and waste water technology
- Building services industry
- Food and beverage industry
- Sugar industry
- Low solids content media
- Water and sewage water pumps
- Submersible pumps
- Chemical standard pumps
- Eccentric screw pumps
- Cooling water pumps
- Basic sterile applications

Item	Part no. to DIN 24250	Description
1.1	472	Seal face
1.2	412.1	O-Ring
1.3	474	Thrust ring
1.4	478	Righthand spring
1.4	479	Lefthand spring
2	475	Seat (G9)
3	412.2	O-Ring

Product variants

M3

Items and description as M3N.
 Seal face: Special cast CrMo steel (S)
 Seat G13: Carbon graphite antimony impregnated (A),
 Carbon graphite resin impregnated (B)

M32

Items and descriptions as for type M3N, but with carbon graphite seal face shrink-fitted into the seal face carrier (Item no. 1.1).

Seal face: Carbon graphite antimony impregnated (A),
 Carbon graphite resin impregnated (B)
 Seat G4: Special cast CrMo steel (S),
 Silicon carbide (Q1, Q2)
 Seat G6 (M32N4): Special cast CrMo steel (S),
 Silicon carbide (Q1, Q2)
 Seat G9 (M32N): Silicon carbide (Q1, Q2)

Seat G6 also available in A, B = G30 (longer installation length than G6)

M37G

Items and descriptions as for type M3N, but with shrink fitted silicon carbide seal face to the seal face carrier (Item no. 1.1)
 Shaft diameter: $d_1 = 16 \dots 80$ mm (0.63" ... 3.15")
 Temperature: $t = -20$ °C ... $+180$ °C (-4 °F ... $+355$ °F)
 Sliding velocity: $v_g = 10$ m/s (33 ft/s)

Seal face: Silicon carbide (Q12, Q22),
 Tungsten carbide (U22)
 Seat G4: Silicon carbide (Q1, Q2)
 Seat G13: Carbon graphite antimony impregnated (A),
 Carbon graphite resin impregnated (B)
 Seat G6 (M37GN4): Silicon carbide (Q1, Q2)
 Seat G9 (M37GN): Carbon graphite antimony impregnated (A),
 Carbon graphite resin impregnated (B),
 Silicon carbide (Q1, Q2)

Seat G6 also available in A, B = G30 (longer installation length than G6)

