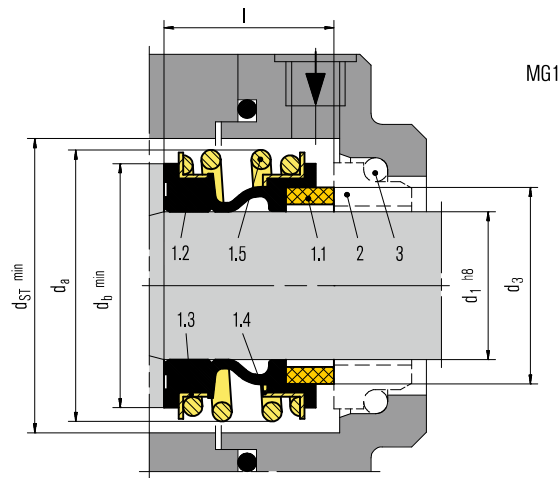


MG1



Features

- For plain shafts
- Single and dual seal
- Elastomer bellows rotating
- Unbalanced
- Independent of direction of rotation
- No torsion on bellows

Advantages

- Shaft protection over entire seal length
- Protection of seal face during installation due to special bellows design
- Insensitive to shaft deflections due to large axial movement ability
- Universal application opportunities
- Important material certifications available
- High flexibility due to wide offer on materials
- Suitable for low-end sterile applications
- Special design for hot water pumps (RMG12) available
- Dimension adaptations and additional seats available

Operating range (see note on page 1)

Shaft diameter: $d_1 = 10 \dots 100 \text{ mm}$ (0.39" ... 3.94")
 Pressure: $p_1 = 16 \text{ bar}$ (230 PSI),
 vacuum ... 0,5 bar (7.25 PSI), up to 1 bar (14.5 PSI)
 with seat locking
 Temperature: $t = -20 \text{ °C} \dots +140 \text{ °C}$ (-4 °F ... +284 °F)
 Sliding velocity: $v_g = 10 \text{ m/s}$ (33 ft/s)
 Axial movement: $\pm 2.0 \text{ mm}$

Recommended applications

- Process industry
- Chemical industry
- Pulp and paper industry
- Water and waste water technology
- Food and beverage industry
- Sugar industry
- Oil applications
- Water, waste water, slurries (up to 5 % by weight)
- Pulp (up to 4 % otro)
- Latex
- Dairies, beverages
- Sulfide slurries
- Chemicals
- Oils
- Chemical standard pumps
- Helical screw pumps
- Stock pumps
- Circulating pumps
- Submersible pumps
- Water and waste water pumps

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), HNBR (X4)
 Metal parts: CrNiMo steel (G), Hastelloy® C-4 (M)

Standards and approvals

- Various material approvals e.g. FDA, WRAS, KTW, ACS, W270, NSF available (depending on type and material combinations). Please inquire!
- EN 12756 (MG12, MG13)

Product variants

MG12

Dimensions, items and designations same as for MG1, but with an extended bellows tail to achieve the fitting length l_{1k} according to EN 12756 in combination with seat G6 or G60 (d_a exceeds EN 12756).

MG1S20

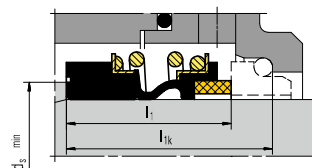
Dimensions, items and designations same as for MG1, but with an extended bellows tail to achieve the special fitting length l_{1s} in combination with seat G50.

MG13

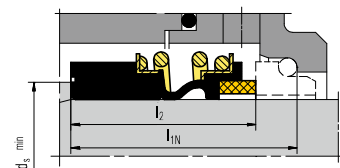
Dimensions, items and designations same as for MG1, but with an extended bellows tail to achieve the fitting length l_{1n} according to EN 12756 in combination with seat G6 or G60 (d_a exceeds EN 12756).

RMG12

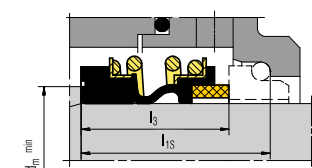
Identical to MG12, but with a special bellows surface on the shaft side. For use in hot water pumps up to 120 °C (248 °F) and 25 bar (363 ft/s) or 140 °C (284 °F) and 16 bar (232 PSI). Only in combination with seat G606 ($d_1 = 12 \dots 38 \text{ mm}$) (0.47" ... 1.50").
 Seal face: Tungsten Carbide (U3)
 Seat G606: Carbon graphite resin impregnated (B)



MG12

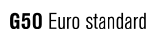
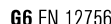


MG13



MG1S20

Seat alternatives



Dimensions in mm

* Minimum diameter of the mating collar