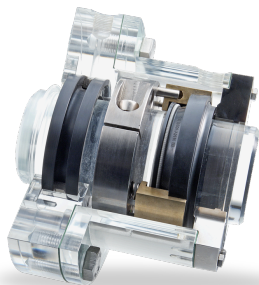


RELY ON EXCELLENCE

Type 4600

Mechanical seals | Marine seals | Stern tube seals



Features

The water-lubricated stern tube seals type 4600 from EagleBurgmann are not alone an environment-friendly solution. They meet all technical requirements of modern sealing technology: modular design, convenient installation, little maintenance, no adjustments.

Type 4600 water-lubricated stern tube seals are virtually leak-free and are leaving no oil or grease residues in the waterway.

And because they prevent getting water into the bilge, no elaborate actions are required for its disposal.

Please ask us for references.

Advantages

- Water-lubricated
- No oil or grease emissions to the environment
- Low power consumption
- Carbon seal face unsplit for first installation, split for repairs
- Version with split mating ring available

Operating range

Shaft diameter:
 $d_1 = 50 \dots 320 \text{ mm} (1.97 \dots 12.60 \text{")}$
 Pressure: $p = 2 \dots 7 \text{ bar} (29 \dots 102 \text{ PSI})$
 Temperature:
 $t = -5 \text{ °C} \dots 40 \text{ °C} (23 \text{ °F} \dots 104 \text{ °F})$
 Speed range: $n = \text{see diagram}$

Allowed shaft movements

Axial: $\pm 5 \text{ mm}$,
 Radial: Shaft diameter (d_1) up to 200 mm: $\pm 2 \text{ mm}$,
 $>200 \text{ mm}$: $\pm 3 \text{ mm}$

Flushing: approx. 1 l/h per Millimeter of shaft diameter (d_1)

Materials

Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
 Mating ring: Special cast CrNiMo steel
 Collar: Nitrile-butadiene rubber (P)
 Face housing: 1.4571 (G)
 Clamp ring: 1.4572
 Springs: Hastelloy® C-4 (M)
 Housing: Bronze / 1.4571
 Gasket Burasil® (Y)

Notes

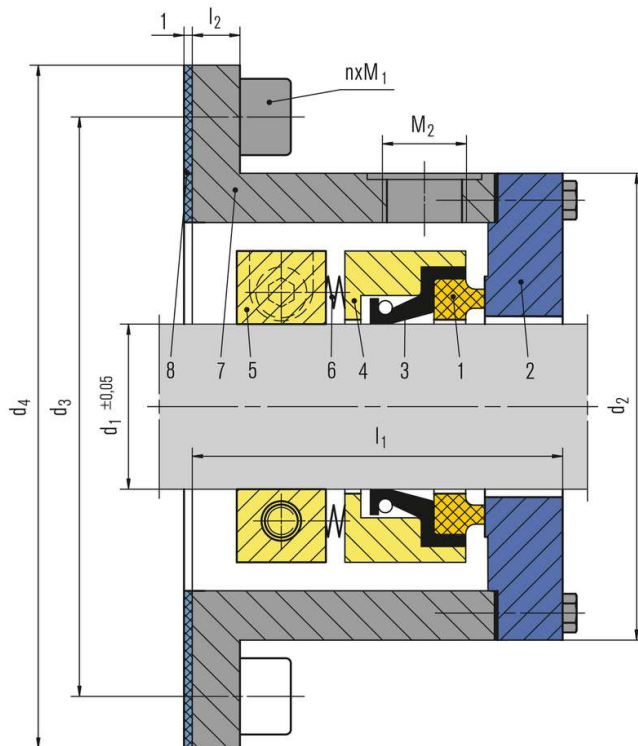
Special designs available:

- Split mating ring
- Amagnetic properties
- Shock resistance

Recommended applications

- Shipbuilding
- Sea water
- Fresh water

RELY ON EXCELLENCE

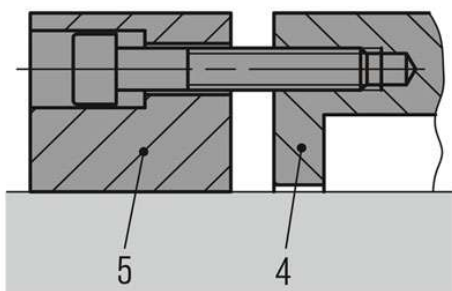
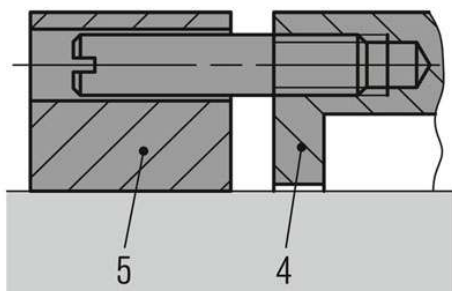


Item Description

- 1 Seal face
- 2 Mating ring
- 3 Collar
- 4 Face housing
- 5 Clamp ring
- 6 Springs
- 7 Housing
- 8 Gasket

RELY ON EXCELLENCE

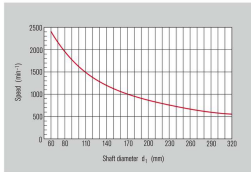
Clamp ring



RELY ON EXCELLENCE

Charts

Speed Characteristics



Dimensions

| d ₁ | d ₂ | d ₃ | d ₄ | l ₁ | l ₂ | M ₁ | M ₂ | n |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|
| 50 | 125 | 142 | 165 | 110 | 15 | M10 | G1/2" | 4 |
| 60 | 135 | 152 | 175 | 110 | 15 | M10 | G1/2" | 4 |
| 70 | 145 | 185 | 215 | 110 | 15 | M16 | G1/2" | 4 |
| 80 | 155 | 195 | 225 | 115 | 15 | M16 | G1/2" | 4 |
| 90 | 165 | 205 | 235 | 115 | 15 | M16 | G1/2" | 4 |
| 100 | 175 | 215 | 245 | 115 | 15 | M16 | G1/2" | 4 |
| 110 | 192 | 230 | 260 | 120 | 15 | M16 | G1/2" | 6 |
| 120 | 202 | 240 | 270 | 120 | 15 | M16 | G1/2" | 6 |
| 130 | 212 | 250 | 280 | 120 | 15 | M16 | G1/2" | 6 |
| 140 | 222 | 260 | 290 | 120 | 15 | M16 | G1/2" | 6 |
| 150 | 232 | 270 | 300 | 120 | 15 | M16 | G1/2" | 6 |
| 160 | 242 | 280 | 310 | 120 | 15 | M16 | G1/2" | 6 |
| 170 | 252 | 290 | 320 | 120 | 15 | M16 | G1/2" | 6 |
| 180 | 262 | 300 | 330 | 130 | 15 | M16 | G1/2" | 6 |
| 190 | 272 | 310 | 340 | 130 | 15 | M16 | G1/2" | 8 |
| 200 | 282 | 320 | 350 | 130 | 15 | M16 | G1/2" | 8 |
| 210 | 292 | 330 | 360 | 130 | 15 | M16 | G1/2" | 8 |
| 220 | 302 | 340 | 370 | 130 | 15 | M16 | G1/2" | 8 |
| 230 | 312 | 350 | 380 | 130 | 15 | M16 | G1/2" | 8 |
| 240 | 340 | 365 | 405 | 140 | 20 | M20 | G1/2" | 8 |
| 250 | 350 | 375 | 415 | 140 | 20 | M20 | G1/2" | 8 |
| 260 | 360 | 385 | 425 | 140 | 20 | M20 | G3/4" | 8 |
| 270 | 370 | 395 | 435 | 140 | 20 | M20 | G3/4" | 8 |
| 280 | 380 | 405 | 445 | 140 | 20 | M20 | G3/4" | 8 |
| 290 | 390 | 415 | 455 | 140 | 20 | M20 | G3/4" | 8 |
| 300 | 400 | 425 | 465 | 140 | 20 | M20 | G3/4" | 8 |
| 310 | 420 | 445 | 485 | 140 | 20 | M20 | G3/4" | 8 |
| 320 | 430 | 455 | 495 | 140 | 20 | M20 | G3/4" | 8 |

Dimensions in millimeter