

RELY ON EXCELLENCE

Type 4604

Mechanical seals | Marine seals | Stern tube seals

Features

The water-lubricated stern tube seals for closed systems Type 4604 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 4604 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

- For closed systems
- 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:

d1 = 50 ... 320 mm (1.97" ... 12.60")

Water pressure: p = max. 2 bar (29 PSI)

Barrier pressure: min. 0.2 bar (2.9 PSI) above water pressure

Temperature:

t = -5 °C ... 40 °C (23 °F ... 104 °F)

Speed range: n = see diagram

Allowed shaft movements

Axial: ±5 mm,

Radial: Shaft diameter (d1) up to 200 mm: ±2 mm,

>200 mm: ±3 mm

Flushing: approx. 1 l/h per Millimeter of shaft diameter (d1)

Materials

Seal face:

Carbon graphite antimony impregnated (A),

Carbon graphite resin impregnated (B)

Mating ring: Special cast CrNiMo steel (S) / 1.4462

Collar: Nitrile-butadiene rubber (P)

Face housing, clamp ring: CrNiMo steel (G)

Springs: Hastelloy® C-4 (M) / 1.4401

Housing: 1.4571 / Bronze

Gasket: Burasil® (Y)

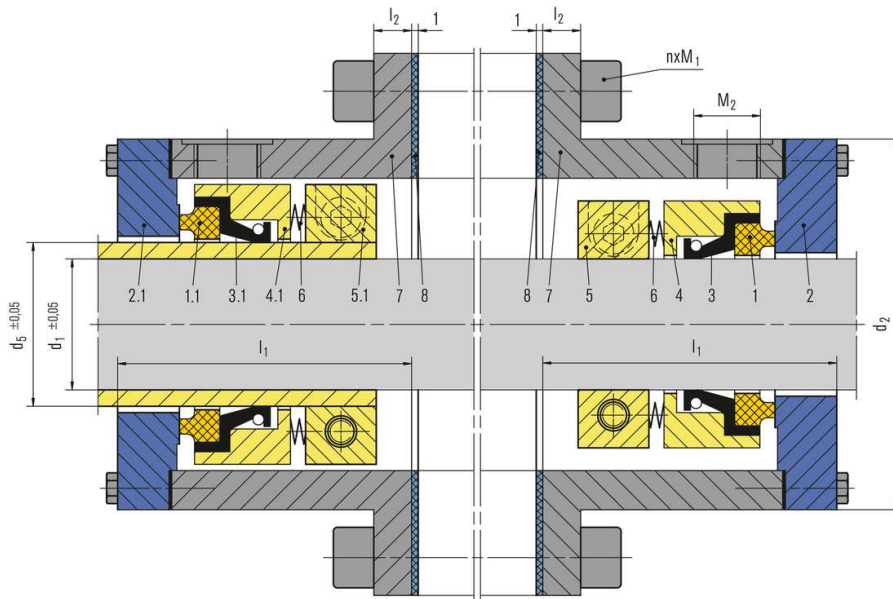
Notes

- Version with split mating ring available

Recommended applications

- Shipbuilding
- Sea water
- Fresh water

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Item Description

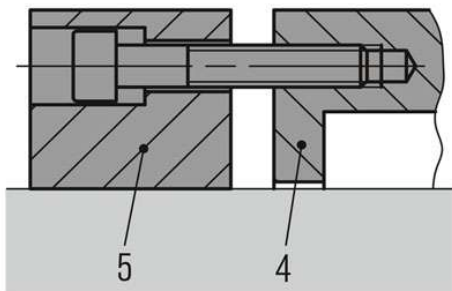
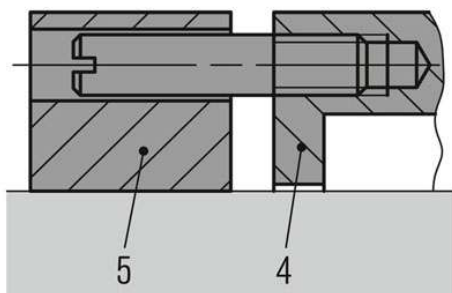
- 1/1.1 Seal face
- 2/2.1 Mating ring
- 3/3.1 Collar
- 4/4.1 Face housing
- 5/5.1 Clamp ring
- 6 Springs
- 7 Housing
- 8 Gasket

All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications, however, means that they can serve only as guide values.

We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.

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Axial stop



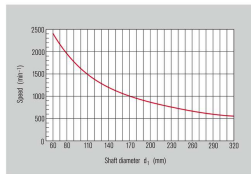
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Charts

Speed Characteristics



Dimensions

d ₁	d ₅	d ₂	d ₃	d ₄	l ₁	l ₂	M ₁	M ₂	n
50	60	135	152	175	110	15	M10	G1/2"	4
60	70	145	185	215	110	15	M10	G1/2"	4
70	80	155	195	225	110	15	M16	G1/2"	4
80	90	165	205	235	115	15	M16	G1/2"	4
90	100	175	215	245	115	15	M16	G1/2"	4
100	110	192	230	260	115	15	M16	G1/2"	4
110	120	202	240	270	120	15	M16	G1/2"	6
120	130	212	250	280	120	15	M16	G1/2"	6
130	140	222	260	290	120	15	M16	G1/2"	6
140	150	232	270	300	120	15	M16	G1/2"	6
150	160	242	280	310	120	15	M16	G1/2"	6
160	170	252	290	320	120	15	M16	G1/2"	6
170	180	262	300	330	120	15	M16	G1/2"	6
180	190	272	310	340	130	15	M16	G1/2"	6
190	200	282	320	350	130	15	M16	G1/2"	8
200	210	292	330	360	130	15	M16	G1/2"	8
210	220	302	340	370	130	15	M16	G1/2"	8
220	230	312	350	380	130	15	M16	G1/2"	8
230	240	340	365	405	130	15	M16	G1/2"	8
240	250	350	375	415	140	20	M20	G1/2"	8
250	260	360	385	425	140	20	M20	G1/2"	8
260	270	370	395	435	140	20	M20	G3/4"	8
270	280	380	405	445	140	20	M20	G3/4"	8

Dimensions in millimeter

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