EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

HGH201

Mechanical Seals | Mechanical seals for pumps | Split seals



Features

- For plain shafts (HGH201)
- Semi split single seal
- Multiple springs rotating
- Balanced
- Independent of direction of rotation
- Unsplit as original equipment (HGH200)
- Cartridge available (based on HGH210)
- Variant for stepped shafts available (HGH211)
- Splitted seal parts:
  sliding faces and O-rings

Advantages

- Economical: no complete dismantling of pump necessary
- Reduction of down-times and installation times
- Springs are protected from the product
- Rugged seal design
- Split seat can be used on both sides

Operating range

Shaft diameter:
d1 = 50 ... 310 mm (2" ... 12.20")
(larger diameters on request)
Pressure: p1 = 25 bar (363 PSI)
Temperature: t1 = 150 °C (302 °F)
Sliding velocity: vg = 20 m/s (66 ft/s)
Axial movement: ±2.0 mm

Materials

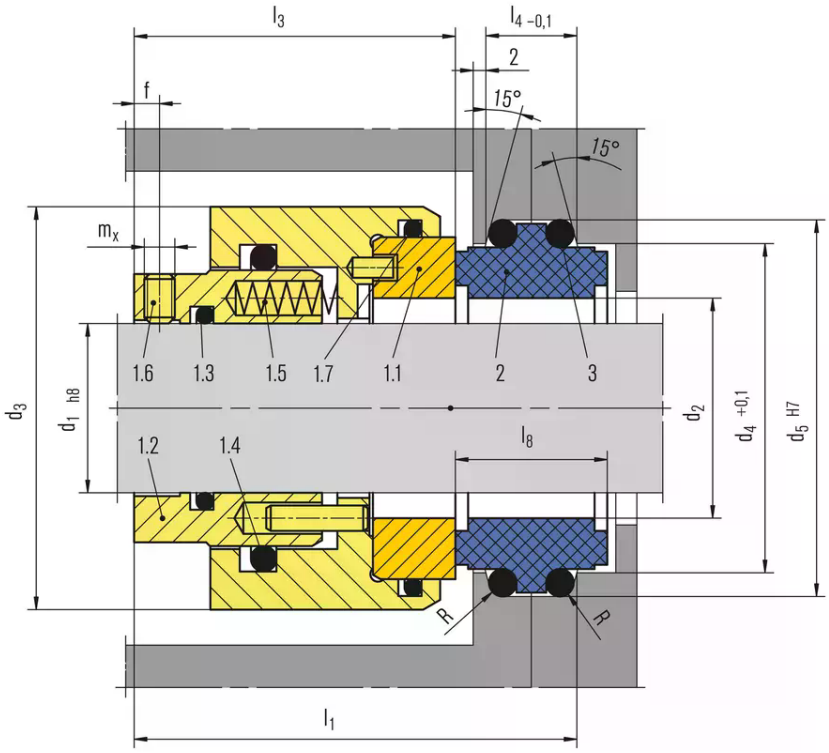
Seal face: Silicon carbide (Q1, Q2)
Seat: Silicon carbide (Q1, Q2), Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
Secondary seals:
FKM (V), EPDM (E), NBR (P)
Metal parts: CrNiMo steel (G)

Recommended applications

- Sea water desalination
- Pulp with up to 5 % fiber content
- Water and waste water technology
- Power plant technology
- Shipbuilding
- Pulp and paper industry
- CCUS
- Power generation
- Water turbines
- Chest agitators
- Stern tubes
- Cooling water pumps
- Gears
- Defibrators
- Storage pumps

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All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, 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. Subject to change.

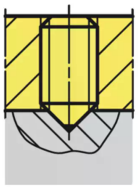


Item	Description
1.1	Seal face1)
1.2	Driver collar
1.3	O-Ring1)
1.4	O-Ring1)
1.5	Spring
1.6	Set screw
1.7	O-Ring1)
2	Stationary seat1)
3	O-Ring1)

1) For disassembly of unsplit seal faces, seats and O-Ring these should be broken or cut.

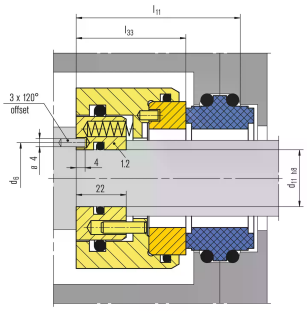
Torque transmissions

d1 ≥ 105 mm
Set screws with cone points 4 x offset by 90°

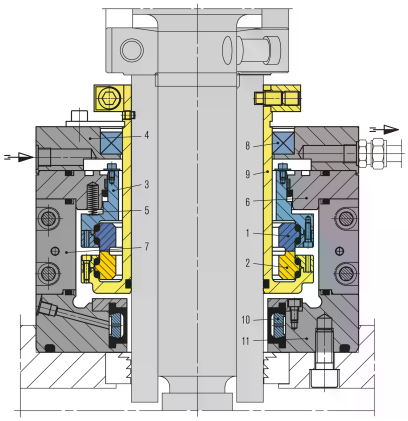


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Product variants



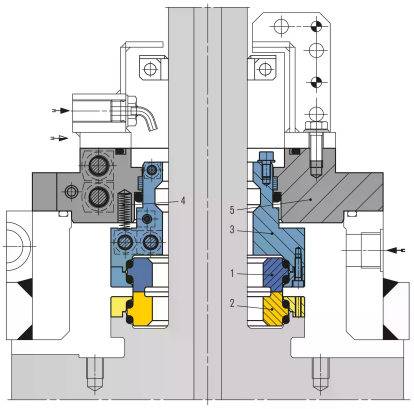
HGH211
Dimensions, items and descriptions as HGH201. Item 1.2 driver collar is modified for securing on stepped shafts.
For first fit the seal comes unsplit: Designation HGH210.



HGH300S1
Stationary design.
For first fit the seals come with unsplit sliding faces and O-rings. Seal face also available in carbon graphite resin impregnated (B).

Dimensions on request.

Item Description
1 Seal face
2 Seat
3, 4 Adapter
5 Spring
6 Cover
7 Housing
8 Packing
9 Shaft sleeve
10 Pneumostop
11 Flange



VGH300S1
Fully split seal based on HGH. Stationary design with rotating seat. To make a straightforward installation possible, all parts of the seal are split.

Item Description
1 Seal face
2 Seat
3 Adapter
4 Spring
5 Cover

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Dimensions

d_1	d_{11}	d_2	d_3	d_4	d_5	d_6	l_1	l_{11}	l_3	l_{33}	l_4	l_8	R	f	m_x
50	40	60	95	80.5	89.6	55	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
55	45	65	100	85.5	94.6	60	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
60	50	70	105	90.5	99.6	65	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
65	55	75	110	95.5	104.6	70	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
70	60	80	115	100.5	109.6	75	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
75	65	85	120	105.5	114.6	80	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
80	70	90	125	110.5	119.6	85	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
85	75	95	130	115.5	124.6	90	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
90	80	100	135	120.5	129.6	95	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
95	85	105	140	125.5	134.6	100	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
100	90	110	145	130.5	139.6	105	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
105	95	115	150	135.5	144.6	110	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
110	100	120	155	140.5	149.6	115	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
115	105	125	160	145.5	154.6	120	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
120	110	130	165	150.5	159.6	125	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
125	115	135	170	155.5	164.6	130	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
130	120	140	175	160.5	169.6	135	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
135	125	145	180	165.5	174.6	140	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
140	130	150	185	170.5	179.6	145	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
145	135	155	190	175.5	184.6	150	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
150	140	160	195	180.5	189.6	155	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
155	145	165	200	185.5	194.6	160	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
160	150	170	205	190.5	199.6	165	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
165	155	175	210	195.5	204.6	170	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
170	160	180	215	200.5	209.6	175	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
175	165	185	220	205.5	214.6	180	95.3	75.3	70	50	18.8	31.8	2.5	6	M8
180	170	192	225	212.5	224.6	185	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
185	175	197	230	217.5	229.6	190	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
190	180	202	235	222.5	234.6	195	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
195	185	207	240	227.5	239.6	200	104.2	84.2	72	52	26.4	38.0	3.5	6	M8
200	190	212	245	232.5	244.6	205	109.2	84.2	77	52	26.4	38.0	3.5	6	M10
205	195	217	255	237.5	249.6	210	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
210	200	222	260	242.5	254.6	215	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
220	210	232	270	252.5	264.6	225	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
230	220	242	280	262.5	274.6	235	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
240	230	252	290	272.5	284.6	245	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
250	240	262	300	282.5	294.6	255	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
260	250	272	310	295.5	307.6	265	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
270	260	282	320	305.5	317.6	275	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
280	270	292	330	315.5	327.6	285	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
290	280	302	340	325.5	337.6	295	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
300	290	312	350	335.5	347.6	305	109.2	84.2	77	52	26.4	38.0	3.5	8	M10
310	300	322	360	345.5	357.5	315	109.2	84.2	77	52	26.4	38.0	3.5	8	M10

Dimensions in Millimeter

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