HBrinker Mechanical Seal

Split seals

Mechanical Seal HBSplitex





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Operating range

Shaft diameter: d1 = 50 ... 150 mm (1.940" ... 6.000")

Pressure: p1 = 10 bar (145 PSI)

Temperature: $t = -40 \dots +150 \,^{\circ}\text{C} (-40 \dots +300 \,^{\circ}\text{F})$, above 80 °C (175 °F)

flush is recommended

Sliding velocity: vg = 10 m/s (33 ft/s)

Axial movement: ±1.5 mm (1/16")

Radial movement: ±0.8 mm (1/32")

Materials

- Seal face: Carbon graphite antimoniny impregnated (A), Silicon carbide (Q6)
- Seat: Silicon carbide (Q6)
- Secondary seals: FKM (V), EPDM (E), NBR
 (P)
- Springs: CrNiMo steel (G)
- Metal parts: CrNiMo steel (G)

Features

- Fully split single seal, 2 x 2 segments, pre-assembled
- Semi-cartridge
- Balanced
- Stationary springs
- Bi-directional
- External pressurization
- Built-in flushing connections
- Installation and wear control

Advantages

- Reduced repair and downtime: 2 x 2 preassembled design speeds up and simplifies installation installation because pump does not have to be disassembled.
- Long service life: precise pre-alignment because of pre-assembled segments. Stationary springs which are protected from the product prevent clogging.
- Greater flexibility during installation: no modification necessary because the seal is located outside of the stuffing box.
- Shaft protection: uniform torque transmission via clamping ring prevents damage caused by set screws.
- Dependable operation: mechanical decoupling of clamping ring (torque transmission) avoids distortion of the seat.
- Simple monitoring of the seal during operation because of mechanical wear indicator on the seal face.
- Low leakage: elimination of secondary seals eliminates leakage paths between split components.
- High tolerance to shaft deflections ensured by stationary design and elastic seat mounting (gasket).

Recommended applications

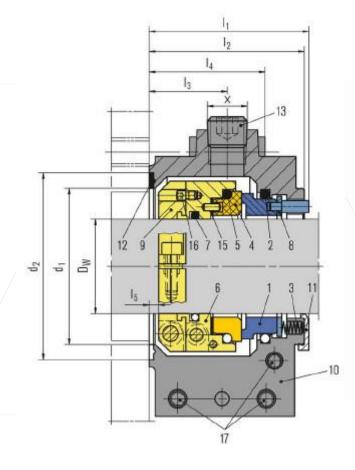
- Process industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- Pulp and paper industry
- Centrifugal pumps
- Agitators
- Displacement pumps
- Conveying pulp with stock pumps
- Conveying timber to refiners with pumping screws
- Circulation of pulp-and-water mixtures in
- storage vessels
- Pump stations for waste water treatment
- Cooling water pumps for energy generation

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Item	Description						
1	Seal face						
2,5,7	O-Ring						
3	Spring						
4	Seat						
6	Driver						
8	Thrust ring						
9	Clamp collar						
10	Housing						
11	Assembly fixture						
12,15	Gasket						
13	Head screw plug						
14	Mounting plate						
16	Set screw						
17	Socket head screw						



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Dimension Table in millimeter

$\mathbf{d}_{\mathbf{w}}$	$\mathbf{d}_{\mathbf{w}}$	\mathbf{d}_1	\mathbf{d}_2	$\mathbf{d}_{\mathbf{a}}$	a	S	l_1	l_2	l ₃	l 4	l 5	X
50	1.969	75	84	138	88	15	63	61	30	45	3	3/8 NPT
60	2.362	89	101	149	105	17,5	64	62	30	46	3	3/8 NPT
70	2.756	98	113	176	118	20	64	62	30	46	3	3/8 NPT
80	3.150	110	132	191	135	20	65	63	31	47	3	3/8 NPT
90 /	3.543	121	140	203	145	22	72.5	70.5	31.5	50.5	3	1/2 NPT
100	3.937	131	150	216	155	22	72.5	70.5	31.5	50.5	3	1/2 NPT
110	4.331	142	165	230	170	22	72.5	70.5	31.5	50.5	3	1/2 NPT
120	4.724	152	175	240	180	22	72.5	70.5	31.5	50.5	3	1/2 NPT
/ 125	4.921	162	185	268	190	26	89.5	87.5	43.5	62.5	4	1/2 NPT
140	5.512	175	200	303	205	26	89.5	87.5	43.5	62	4	1/2 NPT
150	5.906	188	215	308	220	26	89.5	87.5	43.5	62.5	4	1/2 NPT

V



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