HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBCartex Dual Seal







Materials

- Seal face: Silicon carbide (Q1), Carbon graphite resin impregnated (B), Tungsten carbide (U2)
- Seat: Silicon carbide (Q1)
- Secondary seals: FKM (V), EPDM (E), FFKM(K), Perfluorocarbon rubber/PTFE (U1)
- Springs: Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G), CrNiMo cast steel (G)

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Operating range

Shaft diameter: d1 = 25 ... 100 mm (1.000" ... 4.000"

Other sizes on request

Temperature: t= -40 °C ... 220 °C (-40 °F ... 428 °F) (Check O-Ring resistance)

Sliding face material combination BQ1

Pressure: p1 = 25 bar (363 PSI)

Sliding velocity: vg = 16 m/s (52 ft/s)

Sliding face material combination Q1Q1 or U2Q1

Pressure: p1 = 20 bar (290 PSI)

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

Barrier fluid circulation system:

p3max = 25 bar (363 PSI)

 $\Delta p (p3 - p1)ideal = 2 ... 3 bar (29 ... 44 PSI),$

7 bar (102 PSI) for barrier media with poor lubricating properties.

Pump startup:Δp (p3 - p1)max = 25 bar (363 PSI) allowed

Recommended supply medium: max. ISO VG 5

Axial movement:±1.0 mm, d1 ≥75 mm ±1.5 mm

Advantages

- Ideal seal for standardizations Universal applicable for packings conversions, retrofits or OEM
- No dimensional modification of the seal chamber (centrifugal pumps) necessary, small radial installation height
- No damage of the shaft by dynamically loaded O-Ring
- Extended service life
- No damage caused by dirt entered during assembly
- Straightforward and easy installation due to pre-assembled unit
- Individual adaptation to pump design possible
- Customer specific versions available

Recommended applications

- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Pulp and paper industry
- Mining industry
- Food and beverage industry
- Sugar industry
- Universally applicable
- Centrifugal pumps
- Eccentric screw pumps

Features

- Dual seal
- Cartridge
- Balanced
- Independent of direction of rotation
- Double pressure balanced
- Integrated pumping device
- Variants available: for eccentric screw pumps (-Vario) and gaslubricated version (-GSDN)

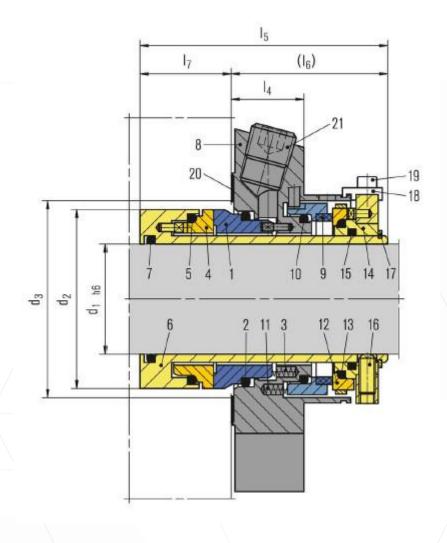
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Item	Description					
1	Seal face					
2,5,7,10,13,15	O-Ring					
3	Spring					
4	Seat					
6	Shaft sleeve					
8	Cover					
9	Seal face					
11	Spring					
12	Seat					
14	Drive collar					
16	Set screw					
17	Snap ring					
18	Assembly fixture					
19	Hex socket head screw					
20	Gasket					
21	Screw plug					
22	Gasket					

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d ₁	d ₂	d ₃ min.	d ₃ max.	14	l ₅	16	l ₇	a ₂	da	S 12.2
25	43.0	44.0	51.5	25.4	86.5	53.4	33.1	62	105	13.2
28	46.0	47.0	52.0	25.4	86.5	53.4	33.1	61	105	13.2
30	48.0	49.0	56.0	25.4	86.5	53.4	33.1	67	105	13.2
32	49.8	51.0	57.0	25.4	86.5	53.4	33.1	70	108	13.2
33 /	49.8	51.0	57.0	25.4	86.5	53.4	33.1	70	108	13.2
35	53.0	54.0	61.5	25.4	86.5	53.4	33.1	72	113	13.2
38	56.0	57.0	66.0	25.4	86.5	53.4	33.1	75	123	13.2
40	58.0	59.0	68.0	25.4	86.5	53.4	33.1	77	123	14.2
42	60.5	61.5	69.5	25.4	86.5	53.4	33.1	80	133	14.2
43	60.5	61.5	70.5	25.4	86.5	53.4	33.1	80	133	14.2
45	62.5	64.0	73.0	25.4	86.5	53.4	33.1	82	138	14.2
48	65.6	67.0	75.0	25.4	86.5	53.4	33.1	85	138	14.2
50	68.0	69.0	78.0	25.4	86.5	53.4	33.1	87	148	14.2
53	72.0	73.0	87.0	25.4	86.5	53.4	33.1	97	148	18.0
55	73.0	74.0	83.0	25.4	86.5	53.4	33.1	92	148	18.0
60	78.0	79.0	91.0	25.4	86.5	53.4	33.1	102	157	18.0
65	84.8	85.7	98.5	25.4	86.5	53.4	33.1	109	163	18.0
70	93.0	95.0	108.0	25.4	86.5	53.4	33.1	118	178	18.0
75	100.0	101.6	118.0	28.0	108.0	63.9	44.1	129	190	18.0
80	106.4	108.0	124.0	28.0	108.0	63.9	44.1	135	195	18.0
85	109.5	111.1	128.0	28.0	108.0	63.9	44.1	139	198	22.0
90	115.9	117.5	135.0	28.0	108.0	63.9	44.1	145	205	22.0
95	119.1	120.7	138.0	28.0	108.0	63.9	44.1	148	208	22.0
100	125.4	127.0	144.0	28.0	108.0	63.9	44.1	154	218	22.0

