HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBCartex ANSI 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)

Advantages

- Ideal for use in ANSI process pumps
- Universal applicable for packings conversions, retrofits or OEM
- Ideal seal for standardizations
- No dimensional modification of the seal chamber 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

Recommended applications

- Process industry
- Petrochemical industry

±1.0 mm, d1 ≥75 mm ±1.5 mm

- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Pulp and paper industry
- Water and waste water technology
- Mining industry
- Food and beverage industry
- Universally applicable
- ANSI process pumps

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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)Δp (p3 - p1)ideal = 2 ... 3 bar (29 ... 44 PSI), 7 bar (102 PSI) for barrier media with poor lubricating properties) Pump startup: $\Delta p (p3 - p1)max = 25 bar (363 PSI) allowed$ Recommended supply medium: max. ISO VG 5 Axial movement:

BH-Brinker

Features

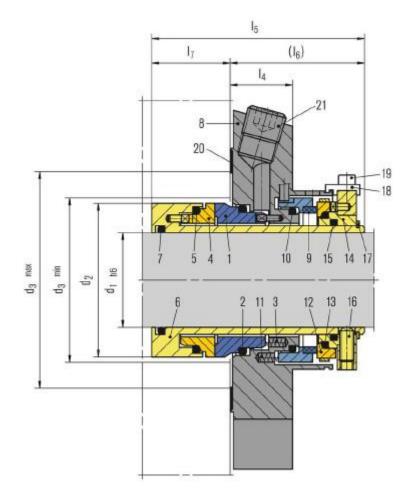
- Dual seal
- Available for standard (Cartex-ASDN) and big bore (Cartex-ABDN) seal chambers
- Cartridge
- Balanced
- Independent of direction of rotation
- Double pressure balanced
- Integrated pumping device

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ltem	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	d3 min	d _{3 max}	l 4	l 5	l6	l 7	a ₂	da	S	Connection
1.000	1.693	1.732	2.205	1.000	3.406	2.102	1.303	2.441	3.937	0.433	1/4 NPT
1.125	1.713	1.752	2.205	1.000	3.228	3.228	1.343	2.441	4.134	0.437	1/4 NPT
1.250	/1.969	2.008	2.402	1.000	3.406	2.102	1.303	2.756	4.252	0.433	1/4 NPT
1.375	1.961	2.000	2.402	1.000	3.406	2.083	1.303	2.756	4.213	0.437	1/4 NPT
1.500	2.200	2.244	2.717	1.000	3.406	2.102	1.303	2.953	4.488	0.551	3/8 NPT
1.625	2.340	2.421	2.795	1.000	3.406	2.102	1.303	3.091	4.921	0.551	3/8 NPT
1.750	2.461	2.500	2.953	1.000	3.406	2.102	1.303	3.228	5.118	0.559	3/8 NPT
1.875	2.583	2.661	3.070	1.000	3.406	2.102	1.303	3.307	5.118	0.551	3/8 NPT
2.000	2.677	2.756	3.189	1.000	3.406	2.102	1.303	3.425	5.472	0.630	3/8 NPT
2.125	2.834	2.913	3.583	1.000	3.406	2.102	1.303	3.819	5.512	0.650	3/8 NPT
2.250	2.960	3.039	3.583	1.000	3.406	2.102	1.303	3.858	5.866	0.650	3/8 NPT
2.375	3.070	3.125	3.590	1.000	_				6.181	0.709	3/8 NPT
2.500	3.212	3.291	/3.937	1.122	3.406	2.102	1.303	4.528	6.693	0.709	3/8 NPT
2.625	3.338	3.417	4.016	1.250	3.406	2.102	1.303	4.528	6.378	0.630	3/8 NPT
2.750	3.660	3.740	4.370	1.260	3.406	2.102	1.303	4.646	7.441	0.709	3/8 NPT
3.000	3.937	4.016	4.724	1.260	4.252	2.516	1.736	5.000	7.835	0.709	3/8 NPT
3.250	4.189	4,268	4.921	1.260	4.252	2.516	1.736	5.315	7.830	0.709	3/8 NPT
3.750	4.689	4.750	5.433	1.000	_	_	_	_	8.189	0.866	3/8 NPT

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