HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBCartex ANSI Single Seal







Mechanical Seal HBCartex ANSI Single Seal

Operating range

Shaft diameter: d1 = 1.000" ... 3.750"

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 = 12 bar (174 PSI) Sliding velocity: vg = 10 m/s (33 ft/s)

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



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), Perflourocarbon rubber/PTFE (U1)
- Springs: Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G)

Features

- Single seal
- Available for standard (Cartex-ASPN) and big bore (Cartex-ABPN) seal chambers
- Cartridge
 - Balanced
 - Independent of direction of rotation
 - Single seals with flush (-ASPN, -ABPN) and with quench combined with lip seal (-ASQN, -ABQN) or throttle ring (-ASTN,-ABTN)

Advantages

- Ideal for use in ANSI process pumps
- Universal applicable for packings conversions, retrofits or original equipment
- 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
- Installation faults are avoided, costeffective
- No damage caused by dirt entered during assembly
- Straightforward and easy installation due to preassembled unit (reduced downtimes)

Recommended applications

- Process industry
- Petrochemical industry
- 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

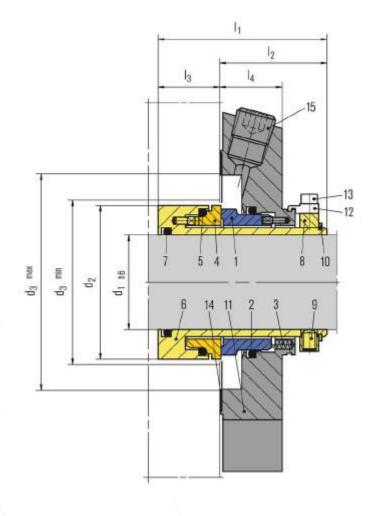
Telegram: +3197010281216 WhatsApp: +3197010281216 Email: Info@Hbrinker.com

HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBCartex ANSI Single Seal





Item	Description							
1	Seal face							
2,5,7	O-Ring							
3	Spring							
4	Seat							
6	Shaft sleeve							
8	Drive coller							
9	Set Screw							
10	Snap ring							
11	Cover							
12	Assembly fixture							
13	Screw							
14	Gasket							
15	Screw Plug							
16	Lip Seal							

Telegram: +3197010281216 WhatsApp: +3197010281216 Email: Info@Hbrinker.com

HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBCartex ANSI Single Seal



Dimension Table in millimeter

\mathbf{d}_1	d_2	d _{3 min}	d _{3 max}	l_1	l_2	l ₃	l 4	l ₁₅	l ₁₆	l ₁₇	\mathbf{a}_1	da	S	Connection
1.000	1.693	1.732	2.205	2.638	1.669	0.969	1.000	2.937	1.909	1.028	2.756	3.937	0.433	1/4 NPT
1.125	1.713	1.752	2.205	2.638	1.669	0.969	1.000	2.937	1.909	1.028	2.440	4.134	0.437	1/4 NPT
1.250	1.969	2.008	2.402	2.638	1.669	0.969	1.000	3.130	2.102	1.028	2.638	4.252	0.433	1/4 NPT
1.375	1.961	2.000	2.402	2.638	1.669	0.969	1.000	2.947	1.919	1.028	2.760	4.213	0.437	1/4 NPT
1.500	2.200	2.244	2.717	2.638	1.669	0.969	1.000	3.130	2.102	1.028	2.950	4.488	0.551	3/8 NPT
1.625	2.340	2.421	2.795	2.638	1.669	0.969	1.000	3.130	21.02	1.028	3.030	4.921	0.551	3/8 NPT
1.750	2.461	2.500	2.953	2.638	1.669	0.969	1.000	3.012	1.984	1.028	3.228	5.118	0.559	3/8 NPT
1.875	2.583	2.661	3.070	2.638	1.669	0.969	1.000	3.071	2.043	1.028	3.190	5.118	0.551	3/8 NPT
2.000	2.677	2.756	3.189	2.638	1.669	0.969	1.000	3.130	2.102	1.028	3.430	5.472	0.630	3/8 NPT
2.125	2.834	2.913	3.583	2.638	1.669	0.969	1.000	3.012	1.984	1.028	3.820	5.512	0.650	3/8 NPT
2.250	2.960	3.039	3.583	2.638	1.669	0.969	1.000	3.130	2.102	1.028	3.858	5.866	0.650	3/8 NPT
2.375	3.070	3.125	3.590	2.638	1.669	0.969	1.000	_	_	_	4.020	6.181	0.709	3/8 NPT
2.500	3.212	3.291	3.937	2.638	1.669	0.969	1.122	3.130	2.102	1.028	4.528	6.693	0.709	3/8 NPT
2.625	3.338	3.417	4.016	2.638	1.669	0.969	1.250	3.130	2.102	1.028	4.528	6.378	0.630	3/8 NPT
2.750	3.660	3.740	4.370	2.638	1.929	0.709	1.260	3.130	2.102	10.28	4.646	7.441	0.709	3/8 NPT
3.000	3.937	4.016	4.724	3.307	2.260	1.047	1.260	3.858	2.516	1.343	5.000	7.835	0.709	3/8 NPT
3.250	4.189	4.268	4.921	3.307	2.260	1.047	1.260	3.858	2.516	1.343	5.315	7.830	0.709	3/8 NPT
3.750	4.689	4.750	5.433	3.307	2.260	1.047	1.000	_	_	_	5.827	8.189	0.866	3/8 NPT

٧



Telegram: +3197010281216 WhatsApp: +3197010281216 Email: Info@Hbrinker.com