

BRC

A high temperature rotating bellows seal that features an encapsulated, graphite gasketed, silicon carbide rotating face to minimize face distortion throughout its full temperature range.

Features/Benefits

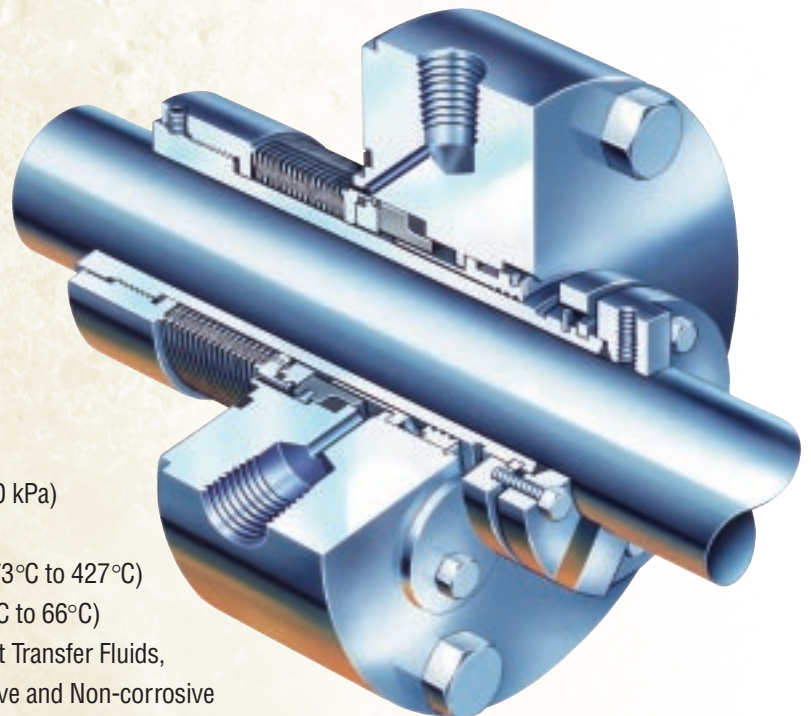
- **Standard Alloy 718 Bellows** - standardizes inventory on one material
- **100% Graphite Gasketed** - provides resilient corrosion and heat resistant sealing
- **Up to 12 Mil Bellows thickness** - most rugged bellows available
- **Contained Face Design** - minimizes face distortion throughout operating range
- **No Low Expansion Alloys Used** - only corrosion resistant materials for long life in corrosive service
- **Stationary Face Options in Silicon Carbide or Carbon** - long life in hot hydrocarbons ranging from abrasives to light products
- **Simple Design with Minimum Number of Parts** - reliable installation for consistent performance
- **Bellows Material Alloy 718** - complies with API 682, 610 and *NACE MR-01-75* requirements

Materials of Construction

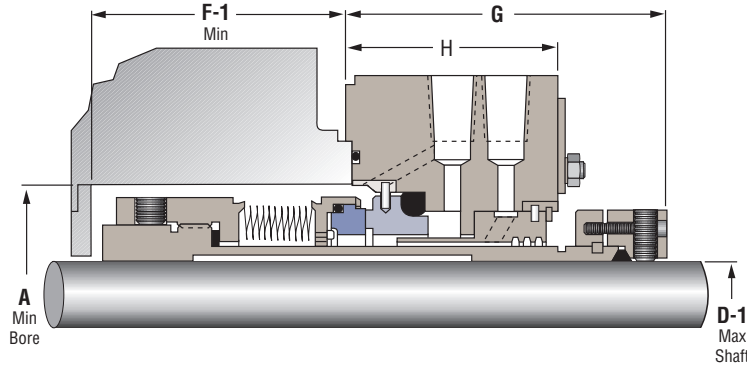
- Bellows: Alloy 718
- Rotating Face: Silicon Carbide
- Stationary Face: Carbon or Silicon Carbide
- Gasketing: Graphite
- Metal Parts: 316 Stainless Steel

Operating Parameters

- Maximum Pressure: Up to 300 psi (2070 kPa)
- Temperature:*
 - Hydrocarbons: -100°F to 800°F (-73°C to 427°C)
 - Water or Water Solutions: +32°F to 150°F (0°C to 66°C)
- Liquids: Hydrocarbons, Heat Transfer Fluids, Cryogenics Corrosive and Non-corrosive
- Shaft Size: .983" through 4.625" (25mm through 117.5mm)
- Surface Speeds: Up to 75 ft/sec. (23 m/sec.)



*Depending on materials selected



Dimensional Data

Seal Size	Inches					Metric (mm)					
	A	D-1	F-1	G	H	A	D-1	F-1	G	H	
1680	2.449	0.983	2.281	3.469	2.063	1680	62.2	25.0	57.9	88.1	52.4
1812	2.668	1.108	2.625	3.563	2.156	1812	67.8	28.1	66.7	90.5	54.8
2027	2.887	1.170	2.688	3.688	2.281	2027	73.3	29.7	68.3	93.7	57.9
2125	2.950	1.358	2.688	3.688	2.281	2125	74.9	34.5	68.3	93.7	57.9
2250	3.137	1.420	2.875	3.688	2.281	2250	79.7	36.1	73.0	93.7	57.9
2375	3.137	1.545	2.531	3.719	2.313	2375	79.7	39.2	64.3	94.5	58.7
2500	3.316	1.670	2.844	3.688	2.281	2500	84.2	42.4	72.2	93.7	57.9
2687	3.559	1.795	2.844	3.781	2.250	2687	90.4	45.6	72.2	96.0	57.2
2750	3.575	1.983	2.781	3.844	2.313	2750	90.8	50.4	70.6	97.6	58.7
3000	3.952	2.170	3.125	4.063	2.531	3000	100.4	55.1	79.4	103.2	64.3
3250	4.200	2.420	3.125	4.063	2.531	3250	106.7	61.5	79.4	103.2	64.3
3500	4.481	2.670	3.125	4.063	2.531	3500	113.8	67.8	79.4	103.2	64.3
3750	4.699	2.920	3.188	4.063	2.531	3750	119.4	74.2	81.0	103.2	64.3
4000	5.028	3.108	3.594	4.063	2.531	4000	127.7	78.9	91.3	103.2	64.3
4250	5.342	3.358	3.375	4.063	2.531	4250	135.7	85.3	85.7	103.2	64.3
4812	5.875	3.858	3.563	4.063	2.531	4812	149.2	98.0	90.5	103.2	64.3
5500	6.803	4.483	3.563	4.156	2.625	5500	172.8	113.9	90.5	105.6	66.7

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