

UC

The canned “UC” seal design incorporates all of the same rugged high pressure design features as our standard “U” seal while incorporating a state-of-the-art encapsulated graphite gasketed silicon carbide rotating face. The UC seal is designed for corrosive/non-corrosive high pressure services with a specific gravity of .45 or higher. The UC seal’s canned face design provides optimum low level emissions control.

Features/Benefits

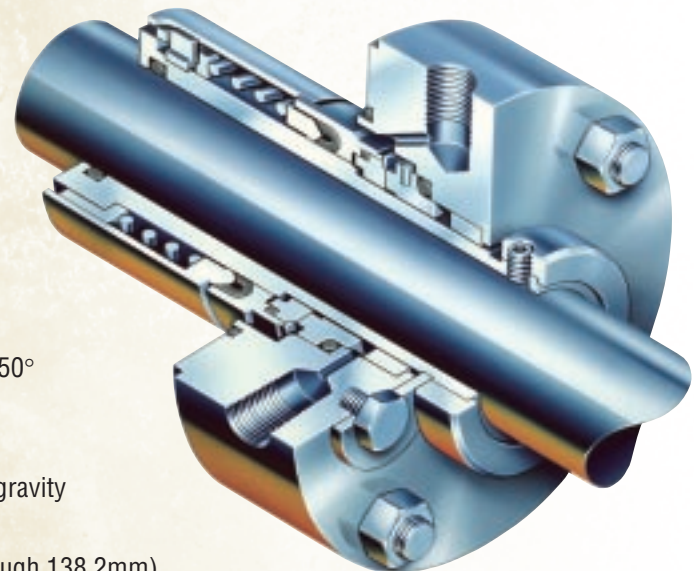
- Silicon Carbide Rotating Face is Standard-for improved low level emission control.
- Canned Design-eliminates shrink fit distortions, gives assurance of a leak tight assembly.
- Single Coil Spring Enclosed in Spring Holder-prevents flywheeling and spring is not required to transmit torque.
- Large Coil Spring with Low Spring Rate-allows greater tolerance in setting dimensions and reduces probability of hang-up from packed solids.
- U Cup-permits flexible mounting of rotating face and compensates for minor misalignment of shafts and bearings.
- Positive Drive-the drive keys form a positive drive from the shaft sleeve through the seal drive and spring holder to the rotating face.
- Service Ease-the entire rotating unit can be removed for inspection and repair without removing the shaft sleeve.
- Stationary Face Recessed in Flange-protects against damage during seal assembly.

Materials of Construction

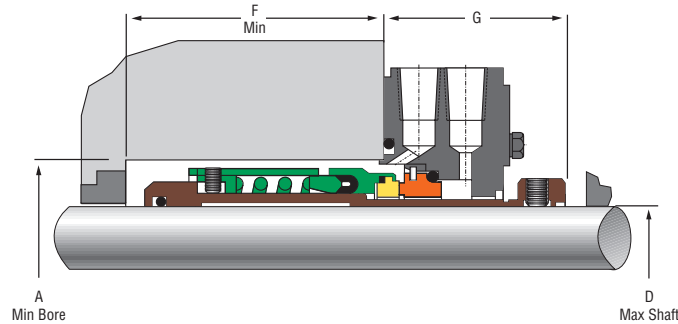
- Metal Parts: 316 Stainless Steel, Alloy 20, Alloy 400, Alloy C-276
- Rotating Face: Silicon Carbide w/graphite seal
- Stationary Face: Carbon, Silicon Carbide
- Gasketing: Nitrile, Fluoroelastomer, Ethylene-Propylene, PTFE, and Glass Filled PTFE

Operating Parameters

- Maximum Pressure: 1000 psig (6900 kPa)
1500 psig (10,300 kPa) with special design
- Temperature: * Water or Water Solution: 32° F to 150°
(0° C to 66° C)
- Other Liquids: -40° F to 400° F (-40° C to 204° C)
- Liquid: Corrosive and Non-corrosive with specific gravity above .45 at pumping temperature
- Shaft Sizes: 21/32” through 5-7/16” (16.7mm through 138.2mm)
- Surface Speed: Up to 75 ft/sec. (23m/sec.)



* Depending on materials selected.



Dimensional Data

Seal Size	Inches				Metric (mm)				Seal Size	Inches				Metric (mm)			
	A	D	F	G	A	D	F	G		A	D	F	G	A	D	F	G
1250	1.938	0.878	2.688	1.938	49.2	22.3	68.3	49.2	3000	4.250	2.503	4.188	3.000	108.0	63.6	106.4	76.2
1312	2.000	0.941	2.688	2.125	50.8	23.9	68.3	54.0	3125	4.313	2.628	4.188	3.125	109.6	66.8	106.4	79.4
1375	2.125	1.003	2.750	2.125	54.0	25.5	69.9	54.0	3250	4.313	2.753	4.125	3.125	109.6	69.9	104.8	79.4
1437	2.125	1.034	2.688	2.063	54.0	26.3	68.3	52.4	3375	4.625	2.878	4.250	3.250	117.5	73.1	108.0	82.6
1500	2.250	1.128	2.750	2.125	57.2	28.7	69.9	54.0	3500	4.688	3.003	4.063	3.188	119.1	76.3	103.2	81.0
1625	2.500	1.191	3.500	2.500	63.5	30.3	88.9	63.5	3625	4.688	3.128	4.125	3.188	119.1	79.5	104.8	81.0
1750	2.625	1.316	3.063	2.375	66.7	33.4	77.8	60.3	3750	4.938	3.253	4.375	3.188	125.4	82.6	111.1	81.0
1875	2.688	1.441	3.063	2.469	68.3	36.6	77.8	62.7	3813	5.188	3.316	4.500	3.188	135.0	84.2	114.3	81.0
2000	3.000	1.503	4.000	2.719	76.2	38.2	101.6	69.1	4000	5.125	3.503	4.250	3.188	130.2	89.0	108.0	81.0
2062	2.938	1.566	3.313	2.656	74.6	39.8	84.2	75.4	4250	5.469	3.753	4.438	3.188	138.9	95.3	112.7	81.0
2125	3.125	1.628	3.875	2.719	79.4	41.4	98.4	69.1	4312	5.563	3.753	4.313	3.188	141.3	95.3	109.6	81.0
2250	3.125	1.816	3.188	2.656	79.4	46.1	81.0	67.5	4500	5.750	4.003	4.375	3.250	146.1	101.7	111.1	82.6
2375	3.438	1.878	4.000	2.719	87.3	47.7	101.6	69.1	4875	6.125	4.316	4.563	3.188	155.6	109.6	115.9	81.0
2500	3.500	2.003	4.125	2.719	88.9	50.9	104.8	69.1	5125	6.500	4.566	5.063	3.313	165.1	116.0	128.6	84.2
2625	3.563	2.066	3.563	2.719	90.5	52.5	90.5	69.1	5500	6.938	4.941	5.063	3.563	176.2	125.5	128.6	90.5
2687	3.750	2.191	4.188	2.719	95.3	55.7	106.4	69.1	6000	7.750	5.441	5.313	4.188	196.9	138.2	135.0	106.4
2875	3.875	2.378	4.125	2.844	98.4	60.4	104.8	72.2									

A = Minimum Seal Chamber Bore D = Maximum Shaft Diameter F = Minimum Seal Chamber Depth G = Seal Extension

Note: For additional sizes and conditions not listed, contact your local Flowserve Representative.

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