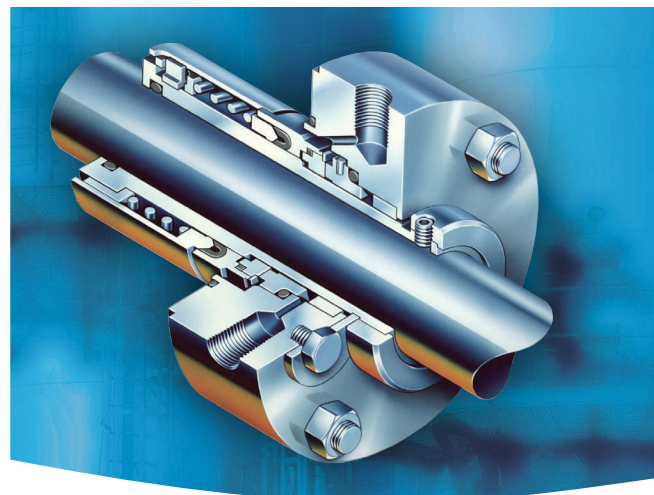


UC Series

Single spring pusher seals

UC Series seals are balanced pusher seals with a substantial single coil spring that provides exceptional performance in the most demanding services including refineries, pipelines, and petrochemical services. UC seals are fully compliant with API 682 / ISO 21049, Type A requirements.



Features and Benefits

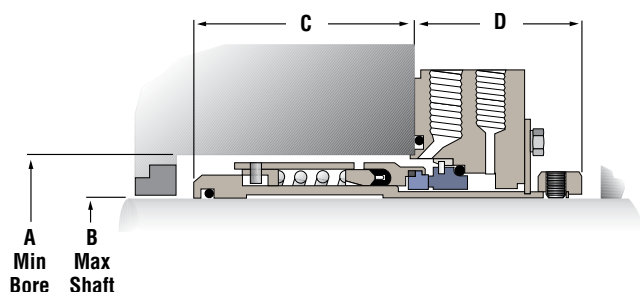
- Rugged single pusher seal is designed with thick cross section components and built for long-term, reliable operation in heavy duty services.
- Large, low spring rate single coil spring tolerates axial setting dimensions while reducing opportunity for clogging and hang-up from solids.
- Silicon carbide rotating face is mounted in a graphite ring to avoid shrink fit distortions and sustain a flat seal face for low emissions performance.
- Robust U-cup seal flexibly mounts the rotating seal face while compensating for minor misalignment of the shaft and maintaining consistent seal face contact.
- Spring holder enables a strong drive linkage from the sleeve to the seal face while isolating the spring from torque.
- Seal installation is simplified with a cartridge seal assembly or, as special equipment requirements demand, the seal can be installed by components.

Operating Parameters

Pressure	UC:	Up to 27.6 bar (400 psi)
	UO:	Up to 69.0 bar (1000 psi)
	UOP:	Up to 103.4 bar (1500 psi)
Temperature		-40 to 204°C (-40 to 400°F)
Specific Gravity		0.45 and higher
Shaft Speed		Up to 23 m/s (75 fps)
Shaft Size		14.12 to 148.29 mm (0.556 to 5.838 inch)

Materials of Construction

Metal Components	316 Stainless Steel, Alloy 20, Alloy 400, Alloy C-276
Rotating Face	Silicon Carbide, Tungsten Carbide
Stationary Face	Carbon, Silicon Carbide
Gaskets	Fluoroelastomer, Perfluoro-elastomer, Nitrile, EPDM
Spring	316 Stainless Steel



Specialized designs for specific applications

- UCQ High balance face for use in light hydrocarbon services.
- UO Multi-component rotating face for service pressures up to 69.0 bar (1000 psi).
- UOP Same UO rotating face with a custom designed stationary face for high pressure services up to 103.4 bar (1500 psi).
- UZ Short axial length design for short seal chambers.

Dimensional Data in millimeters

in inches

Seal Size	A	B	C	C(UZ)	D	Seal Size	A	B	C	C(UZ)	D
1062	49,61	14,12	45,64	26,59	50,42	1062	1.953	0.556	1.797	1.047	1.985
1125	51,18	14,91	36,34	26,19	51,61	1125	2.015	0.587	1.431	1.031	2.032
1187	53,57	18,11	45,62	25,81	55,96	1187	2.109	0.713	1.797	1.016	2.203
1250	57,15	19,69	54,37	30,56	54,38	1250	2.250	0.775	2.141	1.203	2.141
1312	58,75	21,29	59,53	34,14	52,15	1312	2.313	0.838	2.344	1.344	2.250
1375	60,71	22,86	58,34	33,73	59,94	1375	2.390	0.900	2.297	1.328	2.360
1437	61,93	24,43	54,77	32,54	58,75	1437	2.438	0.962	2.156	1.281	2.313
1500	63,88	26,04	55,17	32,16	59,94	1500	2.515	1.025	2.172	1.266	2.360
1625	71,44	27,64	81,36	44,04	62,31	1625	2.813	1.088	3.203	1.734	2.453
1750	73,44	30,81	60,33	33,35	67,49	1750	2.892	1.213	2.375	1.313	2.657
1875	76,21	33,99	63,69	38,51	66,27	1875	3.001	1.338	2.508	1.516	2.609
2000	84,92	35,56	92,87	51,59	67,46	2000	3.344	1.400	3.656	2.031	2.656
2062	81,78	37,16	67,07	41,68	71,83	2062	3.220	1.463	2.641	1.641	2.828
2125	87,31	38,74	76,99	46,50	76,10	2125	3.438	1.525	3.031	1.813	3.000
2250	86,17	43,51	61,12	44,45	73,02	2250	3.393	1.713	2.406	1.750	2.875
2375	95,26	45,09	91,28	52,40	72,24	2375	3.751	1.775	3.594	2.063	2.844
2500	96,85	48,26	90,09	53,57	73,43	2500	3.813	1.900	3.547	2.109	2.891
2625	98,45	49,86	71,83	47,22	75,01	2625	3.876	1.963	2.828	1.859	2.953
2687	103,20	53,04	91,29	57,15	72,24	2687	4.063	2.088	3.594	2.250	2.844
2875	106,38	57,79	80,57	52,78	78,18	2875	4.188	2.275	3.172	2.078	3.078
3000	112,73	60,96	84,15	57,15	82,55	3000	4.438	2.400	3.313	2.250	3.250
3125	115,90	64,14	86,13	59,13	82,14	3125	4.563	2.525	3.391	2.328	3.234
3250	115,90	67,31	84,53	62,31	82,14	3250	4.563	2.650	3.328	2.453	3.234
3375	123,85	70,49	84,15	54,76	88,09	3375	4.876	2.775	3.313	2.156	3.468
3500	125,43	73,66	77,80	55,58	88,09	3500	4.938	2.900	3.063	2.188	3.468
3625	125,43	76,84	78,59	56,36	88,90	3625	4.938	3.025	3.094	2.219	3.500
3750	131,78	80,01	90,88	73,43	83,72	3750	5.188	3.150	3.578	2.891	3.296
3813	138,13	81,61	94,06	63,09	82,14	3813	5.438	3.213	3.703	2.484	3.234
4000	136,55	86,36	88,11	-	86,51	4000	5.376	3.400	3.469	-	3.406
4250	144,48	92,71	84,53	-	89,28	4250	5.688	3.650	3.328	-	3.515
4312	149,23	92,71	85,73	-	88,09	4312	5.875	3.650	3.375	-	3.468
4500	154,00	99,06	84,53	-	89,28	4500	6.063	3.900	3.328	-	3.515
4875	161,93	107,01	92,86	-	87,30	4875	6.375	4.213	3.656	-	3.437
5125	171,45	113,36	103,99	-	91,26	5125	6.750	4.463	4.094	-	3.593
5500	182,58	122,89	107,16	-	90,05	5500	7.188	4.838	4.219	-	3.562
6000	200,03	137,16	109,55	-	103,96	6000	7.875	5.400	4.313	-	4.093
6500	212,73	148,29	116,69	-	107,95	6500	8.375	5.838	4.594	-	4.250

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

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