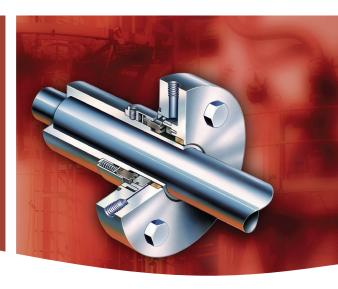


QBU Series Hot water seals

QBU Series seals are single pusher seals designed specifically for hot water services including moderate pressure boiler feed and circulation pumps. QBU Seals utilize Lube Groove face technology to increase reliability over conventional seals in services where cooling water is not available or when energy savings are desired.



Features and Benefits

- Lube Groove features in the carbon rotating face create a stable fluid condition on the seal faces that enables the QBU seal to operate at much higher temperatures than conventional flat-face seals.
- No external cooling is required at temperatures up to 170°C (340°F), thus saving energy, maintenance, and hardware costs associated with cooling water and support systems.
- Multiport flush in the seal gland improves heat dissipation for uniform seal face cooling and long seal life.
- Adding a Plan 21 cooling flush for services above 170°C (340°F) is straightforward and requires no seal hardware modifications.
- Compact design is furnished as a cartridge or component assembly for simple and reliable installation on hot water pumps.
- Part interchangeability between conventional QB seals minimizes inventory requirements and allows faster repair cycles.

Operating Parameters

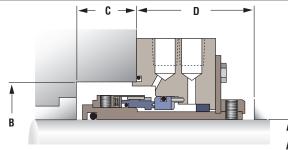
Pressure		Up to 17.6 bar (255 psi)			
Vapor Pressure	Margin	Minimum 2 bar (30 psi)			
Temperature		Up to 170°C (340°F) Up to 204°C (400°F)			
Shaft Speed		750 rpm to 20 m/s (65 fps)			
Shaft Size		12.7 to 139.7 mm (0.500 to 5.500 inch)			

Materials of Construction

Metal Components	316 Stainless Steel			
Rotating Face	Carbon			
Stationary Face	Silicon Carbide			
Gaskets	Fluoroelastomer, Perfluoroelastomer, EPR			
Springs	Alloy C-276			

Experience In Motion





							A		
Dime	nsiona	I Data i	n millimeters		in incl	hes			
Seal	Α	В	C	D	Seal	Α	В	C	D
Size	Max	Min	Min	Min	Size	Max	Min	Min	Min
0875	12.70	43.64	35.71	51.59	0875	0.500	1.718	1.406	2.031
0937 1000	14.30	44.45 46.81	35.71	51.59	0937	0.563 0.625	1.750 1.843	1.406 1.406	2.031 2.031
1125	15.88 19.05	46.81	35.71 37.29	51.59 51.59	1000 1125	0.625	1.843	1.406	2.031
1250	20.65	53.16	36.50	52.40	1250	0.813	2.093	1.437	2.063
1375	22.23	56.34	36.50	52.40	1375	0.875	2.218	1.437	2.063
1500	25.40	59.51	36.50	56.36	1500	1.000	2.343	1.437	2.219
1625	28.58	65.86	45.24	56.36	1625	1.125	2.593	1.781	2.219
1750 1875	31.75 34.93	69.04 72.21	45.24 43.64	56.36 60.33	1750 1875	1.250 1.375	2.718 2.843	1.781 1.718	2.219 2.375
2000	34.93	75.30	43.04	63.50	2000	1.500	2.043	1.937	2.570
2125	41.28	80.16	50.80	63.50	2125	1.625	3.156	2.000	2.500
2250	44.45	83.34	50.80	63.50	2250	1.750	3.281	2.000	2.500
2375	47.63	86.51	49.99	65.89	2375	1.875	3.406	1.968	2.594
2500	50.80	89.69 97.61	49.99	65.89	2500 2625	2.000 2.125	3.531 3.843	1.968 2.250	2.594 2.625
2625 2750	53.98 57.15	100.8	57.15 57.15	66.68 66.68	2625	2.125	3.968	2.250	2.625
2875	60.33	100.0	57.15	66.68	2875	2.375	4.093	2.250	2.625
3000	63.50	107.1	57.15	70.64	3000	2.500	4.218	2.250	2.781
3125	66.68	110.3	57.15	70.64	3125	2.625	4.343	2.250	2.781
3250	69.85	113.5 116.7	57.15	70.64	3250	2.750	4.468	2.250	2.781
3375 3500	73.03 76.10	116.7	57.15 54.76	73.81 76.20	3375 3500	2.875 3.000	4.593 4.687	2.250 2.156	2.906 3.000
3625	79.38	123.0	54.76	76.20	3625	3.125	4.843	2.156	3.000
3750	82.55	126.2	54.76	76.99	3750	3.250	4.968	2.125	3.031
3875	85.73	128.6	54.76	76.99	3875	3.375	5.062	2.125	3.031
4000 4125	88.90 92.08	131.7 141.3	54.76	76.99	4000	3.500	5.187	2.125	3.031
4125	92.08 95.25	141.3	56.34 56.34	80.98 80.98	4125 4250	3.625 3.750	5.562 5.687	2.218 2.218	3.188 3.188
4375	98.43	147.6	56.34	81.76	4375	3.875	5.812	2.218	3.219
4500	101.6	150.8	56.34	81.76	4500	4.000	5.937	2.218	3.219
4625	104.8	154.0	53.98	84.15	4625	4.125	6.062	2.125	3.313
4750	108.0	157.1	53.98	84.15	4750	4.250	6.187	2.125	3.313
4875 5000	111.1 114.3	160.3 163.5	53.98 53.98	84.15 84.15	4875 5000	4.375 4.500	6.312 6.437	2.125 2.125	3.313 3.313
5125	117.5	166.7	53.98	84.15	5125	4.625	6.562	2.125	3.313
5250	120.7	176.2	58.72	84.15	5250	4.750	6.937	2.312	3.313
5375	123.8	179.4	58.72	84.15	5375	4.875	7.062	2.312	3.313
5625	130.2	185.7	58.72	84.15	5625	5.125	7.312	2.312	3.313
5750 5875	133.4 136.5	188.9 192.1	58.72 61.90	84.15 90.50	5750 5875	5.250 5.375	7.437 7.562	2.312 2.437	3.313 3.563
6000	130.5	192.1	61.90	90.50	6000	5.500	7.687	2.437	3.563
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Note: For additional sizes and conditions not listed, contact your local Flowserve representative.

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