

Unbalanced Seal

Single Acting, Dependent of Direction of Rotation

Mechanical Seal

Series 2U

Standard Style

Face Materials:

Carbon, Ceramic,
Tungsten Carbide, Silicon Carbide, Lecrolloy

Metal Parts:

SS 316, SS 304

Secondary Seal:

Elastomers, PTFE



Seals are also available as per DIN 24960 standard.

Applications:

- Water Pumps
- Circulation Pumps for central heating
- Chemical Process Pumps
- Sewage & Submersible pumps

Seal Characteristics:

- Single acting
- Unbalanced
- Inside mounted
- Dependent of direction of rotation

Operating Limits:

Shaft Diameter d_1 : 12 ... 90 mm
Pressure p : 10 bar (max)
Temperature t : $-20 + 120^{\circ}\text{C}$
Velocity v : 20 m/sec

Shrink Fit Arrangement*

Temperature Limits:

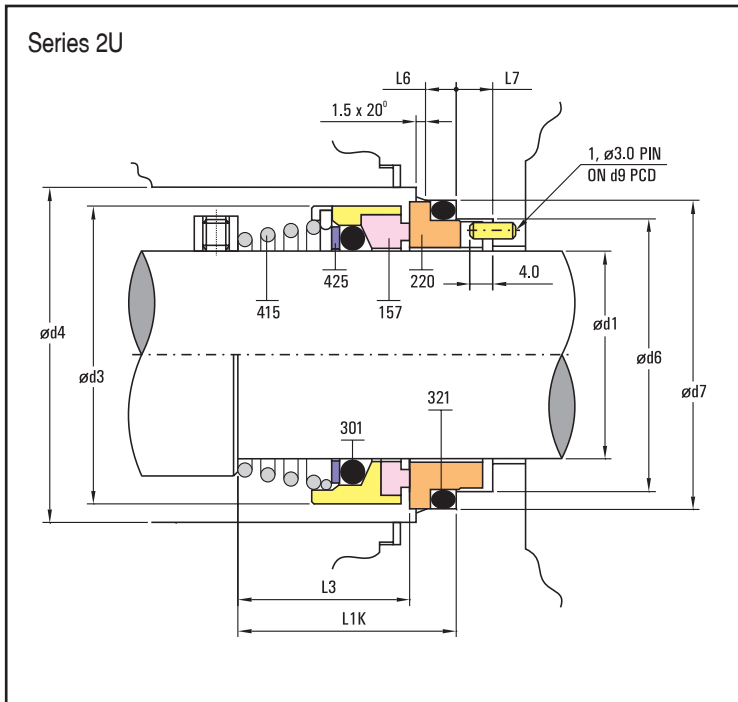
SS 304 110°C

SS 316 110°C

Hastelloy-C 175°C

Carpenter - 42 350°C

Series 2U is a single conical helical spring, unbalanced seal with 'O' ring as secondary sealing member. Various seal face materials and elastomers can be offered for wide service application. As the torque transmission is done by conical helical spring these seals are dependent of the direction of rotation. Direction of rotation is seen from the drive end of the shaft. Clockwise rotating shaft requires right handed spring and anticlockwise rotating shaft requires left-handed spring. For easier fitting, the conical helical spring should be pushed on the shaft with a twisting motion in the sense of the spring unwinding. This movement enlarges the diameter of the spring, enabling easy fitment.



Part No. Description

- 157 Seal Ring
- 220 Mating Ring
- 301 O - Ring
- 321 O - Ring
- 415 Spring
- 425 Thrust Ring

SEAL SIZE		d3	d4	d6 ^{+0.1 -0.0}	d7 ^{±0.05}	d9	L3 ^{±0.5}	L6	L7	L1K
d1 ^{+0.00 -0.05}										
inch	mm									
0.500	12.70	23.0	26.0	22.72	28.22	19.0	17.5	4.6	5.6	24.5
0.625	15.87	26.0	29.0	25.90	31.40	22.2	19.5	4.6	5.6	26.5
0.750	19.05	33.0	36.0	29.07	34.57	25.4	22.0	4.6	5.6	29.0
0.875	22.22	36.0	39.0	32.25	37.75	28.6	23.5	4.6	5.6	30.5
1.000	25.40	40.0	43.0	35.35	40.85	31.6	26.5	4.6	5.6	33.5
1.125	28.58	42.0	45.0	38.52	44.02	34.6	26.5	4.6	5.6	33.5
1.250	31.75	46.0	49.0	41.70	47.20	38.0	28.5	4.6	5.6	35.5
1.375	34.92	49.0	52.0	44.84	50.37	41.2	28.5	4.6	5.6	35.5
1.500	38.10	54.0	57.0	48.05	53.55	44.4	32.5	4.6	5.6	39.5
1.625	41.28	58.0	61.0	54.40	59.90	50.6	37.5	5.0	5.8	45.9
1.750	44.45	61.0	64.0	60.75	66.25	57.0	39.5	5.0	5.8	47.9
1.875	47.62	64.0	67.0	63.92	69.42	61.0	44.5	5.0	5.8	52.9
2.000	50.80	67.0	70.0	63.92	69.42	61.0	46.0	5.0	5.8	54.4
2.125	53.98	70.0	73.0	73.45	78.95	70.2	49.0	5.5	6.6	58.2
2.250	57.15	77.0	80.0	76.62	82.12	72.8	52.0	5.5	6.6	61.2
2.375	60.32	79.0	82.0	76.62	82.12	72.8	53.0	5.5	6.6	62.2
2.500	63.50	82.0	85.0	79.80	85.30	76.0	53.0	5.5	6.6	62.2
2.625	66.68	87.0	90.0	79.80	85.30	76.0	55.0	5.5	7.4	65.0
2.750	69.85	90.0	93.0	82.97	88.47	79.2	56.5	5.5	7.4	66.5
2.875	73.02	94.0	97.0	86.22	91.72	81.5	56.5	5.5	7.4	66.5
3.000	76.20	99.0	102.0	89.04	97.60	85.4	56.5	7.5	5.5	68.3
3.125	79.38	103.0	106.0	95.39	103.95	91.8	59.5	7.5	5.5	71.3
3.250	82.55	106.0	109.0	95.39	103.95	91.8	59.5	7.5	5.5	71.3
3.375	85.72	109.0	112.0	98.57	107.13	95.0	61.0	7.5	5.5	72.8
3.500	88.90	112.0	115.0	102.10	110.66	98.5	61.0	7.5	5.5	72.8