



Conical Spring Seal (CS 100 Series)

CS 100



Conical Spring Seal CS 100 Series is a conical helical spring, unbalanced seal with 'O' ring as secondary sealing member. Various seal face & elastomers can be offered for different service applications. As the torque transmission is done by the conical helical spring, these seals are dependent of direction of rotation. Direction of rotation is seen from the drive end of the shaft. Clockwise rotating shaft requires right handed spring and anti clockwise rotating shaft requires left handed spring.

Applications : Used in Water Pumps, Circulating Pumps for Central Heating, Chemical Pumps, Sewage & Submersible Pumps

Seal Components :

Seal Face :

Carbon / Lecrolloy
Carbon / Ceramic
Carbon / Silicon Carbide
Silicon Carbide / Silicon Carbide
Tungsten Carbide / Tungsten Carbide

Secondary Seal : Elastomers, PTFE

Metal Parts : SS 304, SS 316

Seal Characteristics :

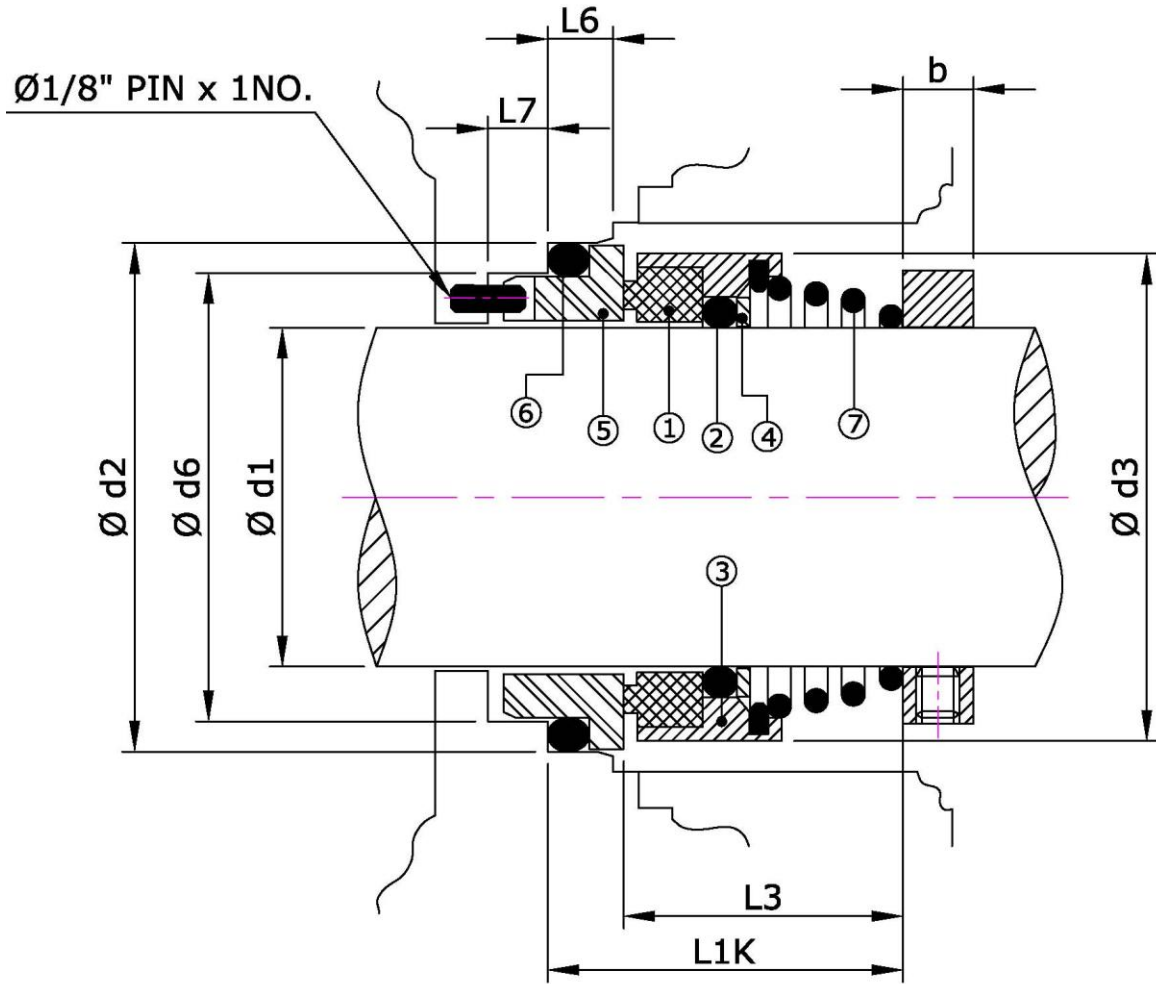
- Single Acting
- Unbalanced
- Inside Mounted
- Single Conical Helical Spring
- Dependent of Direction of Rotation
- Torque Transmission by Conical Helical Spring

Operating Parameters :

Shaft Dia : 10 to 90 mm
Pressure : 10 Bars (max)
Temperature : -20 to +160°C
Velocity : Up to 20 m/sec



CS 100



ITEM	DESCRIPTION
1	SEAL RING
2	O RING
3	SR SHELL
4	THRUST RING
5	MATING RING
6	O RING
7	SPRING



CS 100 DIMENSIONS IN MILLIMETER

SEAL SIZE								
d1	d2	d3	d6	L6	L7	L3	L1K	b
10	21	24	15.0	5.5	8.5	25.5	31.0	5
12	23	26	17.0	5.5	8.5	26.5	32.0	5
14	25	31	21	5.5	8.5	29.5	35.0	6
16	27	34	19.0	5.5	8.5	31.0	36.5	6
18	33	36	21.0	7.0	9.0	32.5	39.5	6
20	35	38	23.0	7.0	9.0	32.5	39.5	6
22	37	40	27.0	7.0	9.0	32.5	39.5	6
24	39	42	29.0	7.0	9.0	32.5	39.5	6
25	40	44	30.0	7.0	9.0	33.5	40.5	6
28	43	47	33.0	7.0	9.0	35.5	42.5	6
30	45	49	34.0	7.0	9.0	35.5	42.5	6
32	48	54	36.0	7.0	9.0	39.5	46.5	6
33	48	54	37.0	7.0	9.0	39.5	46.5	6
35	50	56	39.0	7.0	9.0	43.5	50.5	6
38	56	59	42.0	8.0	9.0	46.0	54.0	6
40	58	61	44.0	8.0	9.0	48.0	54.0	6
43	61	64	49.0	8.0	9.0	51.0	59.0	6
45	63	66	51.0	8.0	9.0	55.0	63.0	6
48	66	69	54.0	8.0	9.0	55.0	63.0	8
50	70	71	56.0	8.5	9.0	58.0	66.5	8
53	73	78	59.0	8.5	9.0	60.0	68.5	8
55	75	79	62.0	8.5	9.0	60.0	68.5	8
58	78	83	65.0	8.5	9.0	60.0	68.5	8
60	80	85	67.0	8.5	9.0	60.0	68.5	8
63	83	88	70.0	8.5	9.0	60.0	68.5	8
65	85	90	72.0	8.5	9.0	61.0	69.5	8
70	92	98	77.0	9.5	9.0	63.0	72.5	8
75	97	103	83.0	9.5	9.0	68.0	77.5	10
80	105	109	88.0	10.0	9.0	68.0	78.0	10
85	110	114	95.0	10.0	9.0	70.0	80.0	10
90	115	119	100.0	10.0	9.0	70.0	80.0	10