



Multi Spring Out Of Product Seal (MSOP/C 170 Series)

MSOP/C 170



Multi Spring Out Of Product Cartridge Seal MSOP/C 170 Series is a cartridge construction multiple spring balanced seal specially developed for equipments handling slurries, sludges, syrups and other fluids that polymerizes or solidify with change in temperature. The springs are isolated from the fluid being sealed by dynamic O-ring, which enhances the seal life. Seal requires tightening of studs, nuts and detaching of location plates before starting the equipment. No dimensional measurement at site is required. Seal can be installed by unskilled person.

Applications : Pulp Pumps, Sludge Pumps, Syrup Pumps, Slurry Pumps.

Seal Components :

Seal Face :

Carbon / Silicon Carbide
Carbon / Tungsten Carbide
Silicon Carbide / Silicon Carbide
Tungsten Carbide / Tungsten Carbide

Secondary Seal : Elastomers, TCV

Metal Parts : SS 304, SS 316, Hastelloy-C, Monel, Alloy-20

Seal Characteristics :

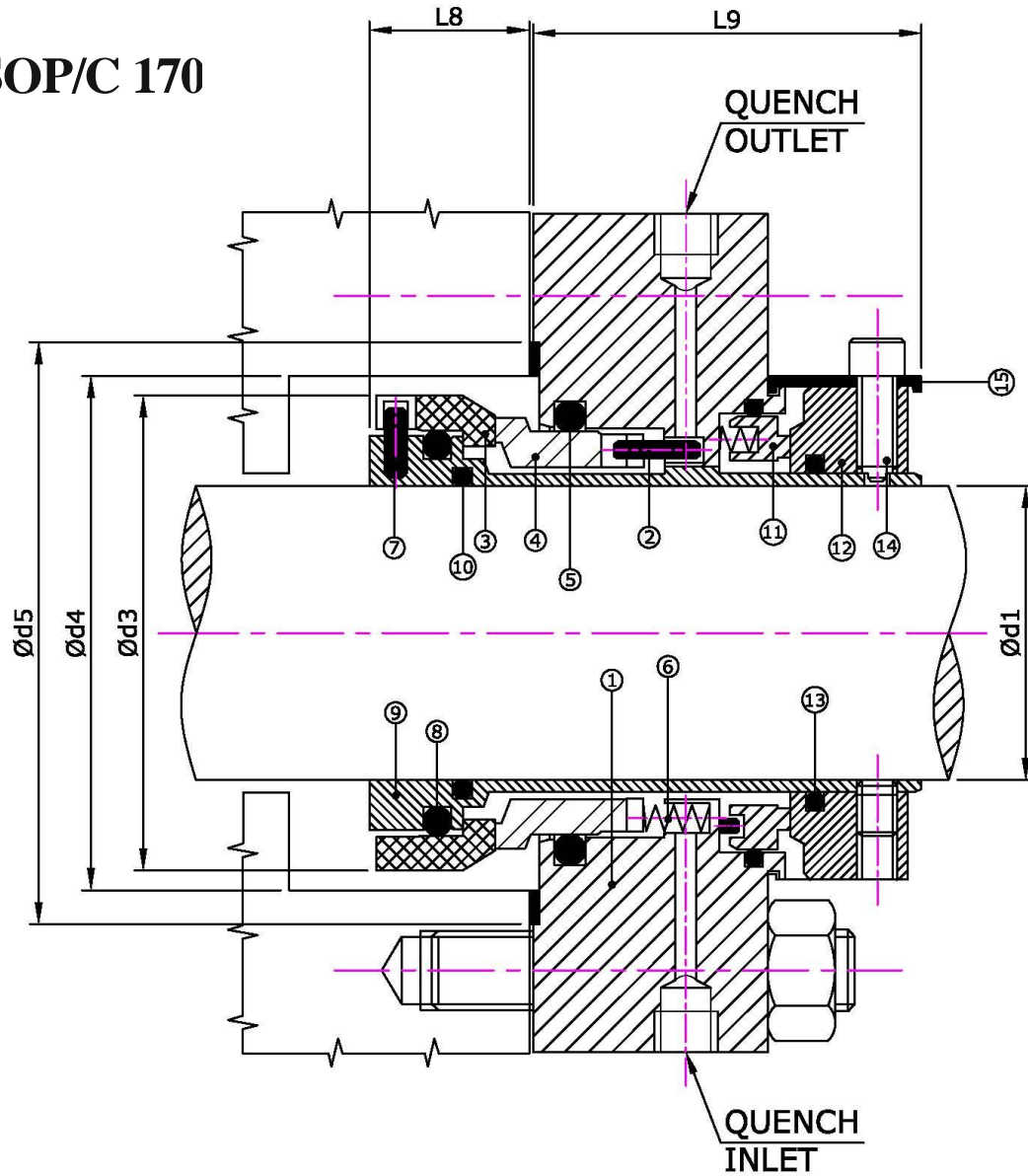
- Single Acting Balanced
- Inside Mounted
- Independent Of Direction Of Rotation
- Multiple Spring Design
- Compact Cartridge Unit

Operating Parameters :

Shaft Dia : 17 to 100 mm
Pressure : 25 Bars (max)
Temperature : -20 to +180°C
Velocity : Up to 20 m/sec



MSOP/C 170



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	GLAND	9	SLEEVE
2	PIN	10	O RING
3	SEAL RING	11	THROTTLE BUSH
4	MATING RING	12	DRIVE COLLAR
5	O RING	13	O RING
6	SPRING	14	SET SCREW
7	DRIVE PIN	15	LOCATION PLATE
8	O RING		



MSOP/C 170 DIMENIONS IN MILLIMETER

SHAFT SIZE +0.00 d1 -0.05	d3	d4	d5	L8	L9
17	43.0	49.0	60	38.5	58.0
18	43.0	49.0	60	38.5	58.0
20	46.0	52.0	60	38.5	58.0
23	49.0	55.0	65	38.5	58.0
26	52.0	58.0	70	38.5	58.0
30	56.0	62.0	70	38.5	58.0
33	60.0	66.0	75	38.5	58.0
35	63.0	69.0	80	38.5	58.0
38	66.0	72.0	80	38.5	58.0
43	73.0	79.0	90	38.5	58.0
46	76.0	82.0	90	38.5	63.0
49	79.0	85.0	95	38.5	63.0
51	82.0	88.0	100	38.5	63.0
54	86.0	92.0	100	40.5	63.0
56	89.0	95.0	105	40.5	63.0
59	92.0	98.0	110	40.5	63.0
62	95.0	101.0	110	40.5	63.0
65	98.0	104.0	115	40.5	65.0
68	102.0	108.0	120	40.5	65.0
70	105.0	111.0	120	40.5	65.0
71	109.0	115.0	125	40.5	65.0
75	112.0	118.0	130	40.5	65.0
78	115.0	121.0	130	40.5	65.0
81	118.0	124.0	135	40.5	65.0
84	121.0	127.0	135	40.5	65.0
87	124.0	130.0	140	40.5	65.0
90	127.0	133.0	140	40.5	65.0
93	131.0	137.0	145	40.5	65.0
97	134.0	140.0	150	40.5	65.0
100	137.0	143.0	155	40.5	65.0