



Multi Spring Out Of Product Seal (MSOP/C 160 Series)

MSOP/C 160



Multi Spring Out Of Product Cartridge Seal MSOP/C 160 Series is a multi spring cartridge construction factory assembled slide on seal specially designed and developed for slurry application. The springs are protected from the media by means of dynamic O ring. This seal requires tightening of stuffing box studs, nuts and detaching of location plate before starting the equipment. No dimensional measurement are to be done at site. Seal can be easily installed by a unskilled person.

Applications : Food Industry, Chemical Industry, Mining Industry, Water Treatment, Media Containing Slurry.

Seal Components :

Seal Face :

Carbon / Ceramic

Carbon / Silicon Carbide

Silicon Carbide / Silicon Carbide

Tungsten Carbide / Tungsten Carbide

Secondary Seal : Elastomers

Metal Parts : SS 304, SS 316, Hastelloy-C

Seal Characteristics :

- Single Acting Balanced
- Springs are Outside the Media
- Independent of Direction of Rotation
- Stable Drive-pins/Lugs
- No Shaft Fretting

Operating Parameters :

Shaft Dia : 22 to 90 mm

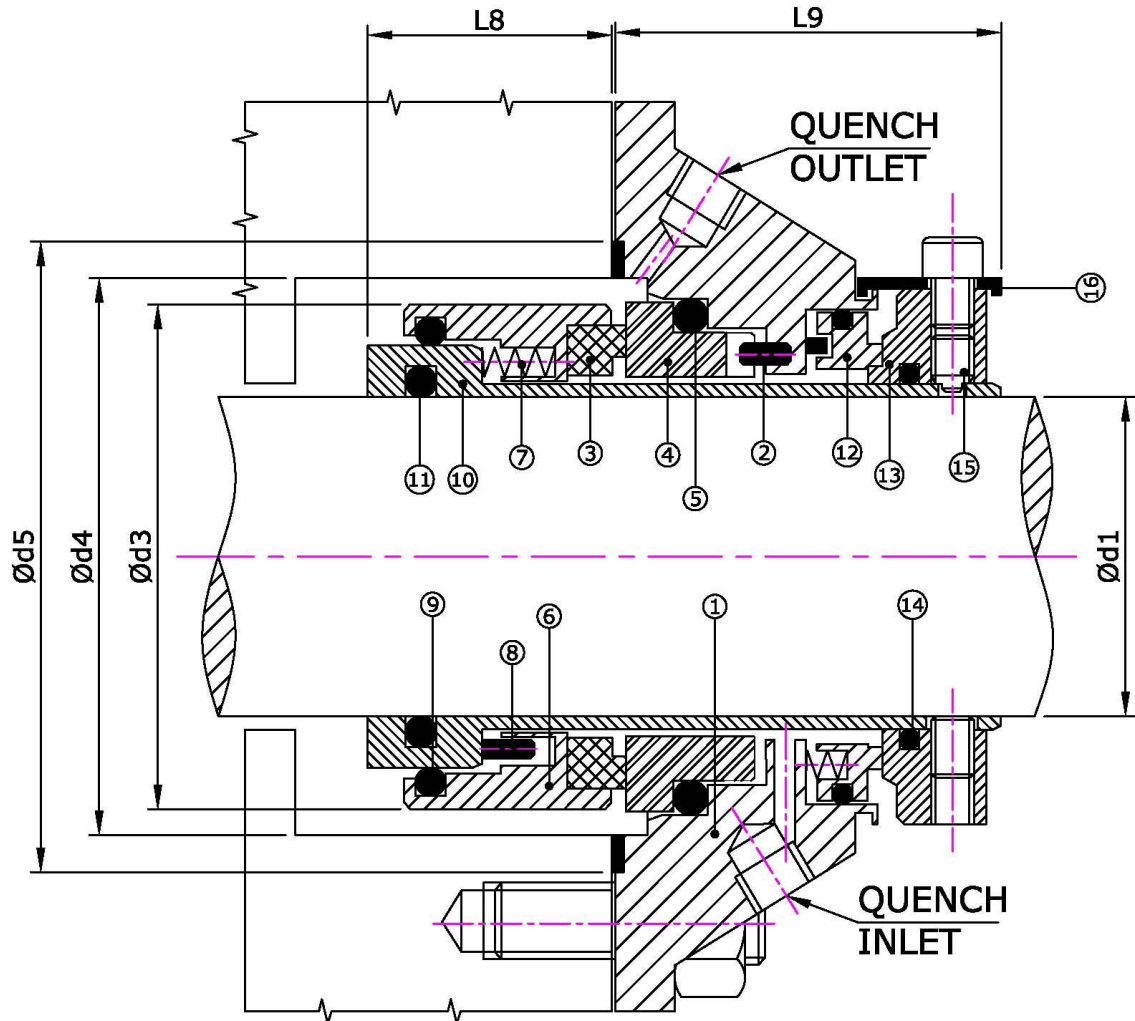
Pressure : 18 Bars (max)

Temperature : -20 to +180°C

Velocity : Up to 20 m/sec



MSOP/C 160



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	GLAND	9	O RING
2	PIN	10	SLEEVE
3	SEAL RING	11	O RING
4	MATING RING	12	THROTTLE BUSH
5	O RING	13	DRIVE COLLAR
6	SPRING HOLDER	14	O RING
7	SPRING	15	SET SCREW
8	PIN	16	LOCATION PLATE



MSOP/C 160 DIMENIONS IN MILLIMETER

SHAFT SIZE +0.00 d1 -0.05	d3	d4	d5	L8	L9
22	36.0	38.0	48.0	28.0	43.0
24	38.0	40.0	50.0	30.0	43.0
25	39.5	41.5	50.0	30.0	43.0
28	42.5	44.0	55.0	33.0	43.0
30	44.5	46.0	55.0	33.0	43.0
32	46.5	48.0	60.0	33.0	43.0
33	49.5	51.5	61.5	33.0	43.0
35	51.5	53.5	65.0	33.0	43.0
38	54.5	57.0	67.0	34.0	46.0
40	56.3	59.0	69.0	34.0	46.0
43	59.5	61.5	72.0	34.0	46.0
45	61.5	63.5	75.0	34.0	46.0
48	64.3	67.0	77.0	34.0	46.0
50	66.5	69.0	80.0	34.0	46.0
53	69.5	71.5	82.0	34.0	50.0
55	71.0	72.0	82.0	34.0	50.0
58	74.0	77.0	87.0	39.0	50.0
60	76.5	79.5	90.0	39.0	50.0
63	80.0	83.0	93.0	39.0	50.0
65	82.5	86.0	95.5	39.0	50.0
70	88.0	91.5	100.0	42.0	50.0
75	93.0	96.0	105.0	42.0	53.0
80	98.0	102.0	112.0	42.0	53.0
85	103.0	107.0	117.0	45.0	53.0
90	108.0	112.0	122.0	45.0	53.0