



Multi Spring Reverse Pressure Balanced Seal (MSRPB 50 Series)

MSRPB 50



Multi Spring Reverse Pressure Balanced Seal MSRPB 50 Series is a multiple spring externally mounted reverse balanced seal with O ring as elastomer. Various seal face materials and elastomers can be offered for wide service application. This seal can also be used for corrosive services as the metallic components do not come in contact with liquid to be sealed. This seal can also be installed in double back to back arrangement as an internal seal. Even if barrier fluid pressure goes down this seal will not allow process fluid to mix with barrier fluid.

Applications : Corrosive Chemicals, Hydrocarbons, General & Light Chemicals.

Seal Components :

Seal Face :

Carbon / Ceramic

Carbon / Silicon 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
- Reverse Balanced
- Outside Mounted
- Independent of Direction of Rotation

Operating Parameters :

Shaft Dia : 20 to 100 mm / 0.750 to 2.500 Inch

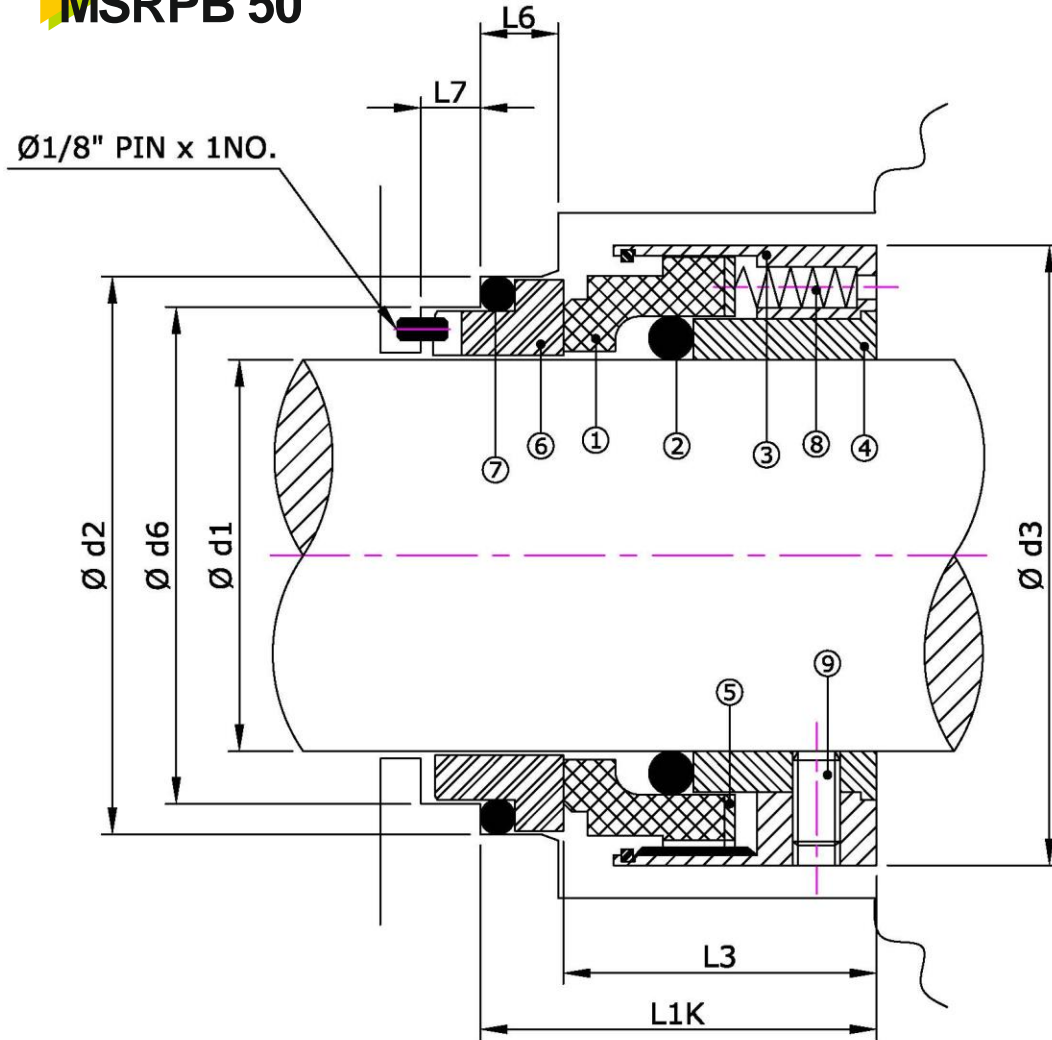
Pressure : 25 Bars (max)

Temperature : -45 to +180°C

Velocity : Up to 20 m/sec



MSRPB 50



ITEM	DESCRIPTION
1	SEAL RING
2	O RING
3	RETAINER
4	SLEEVE
5	THRUST RING
6	MATING RING
7	O RING
8	SPRING
9	SET SREW

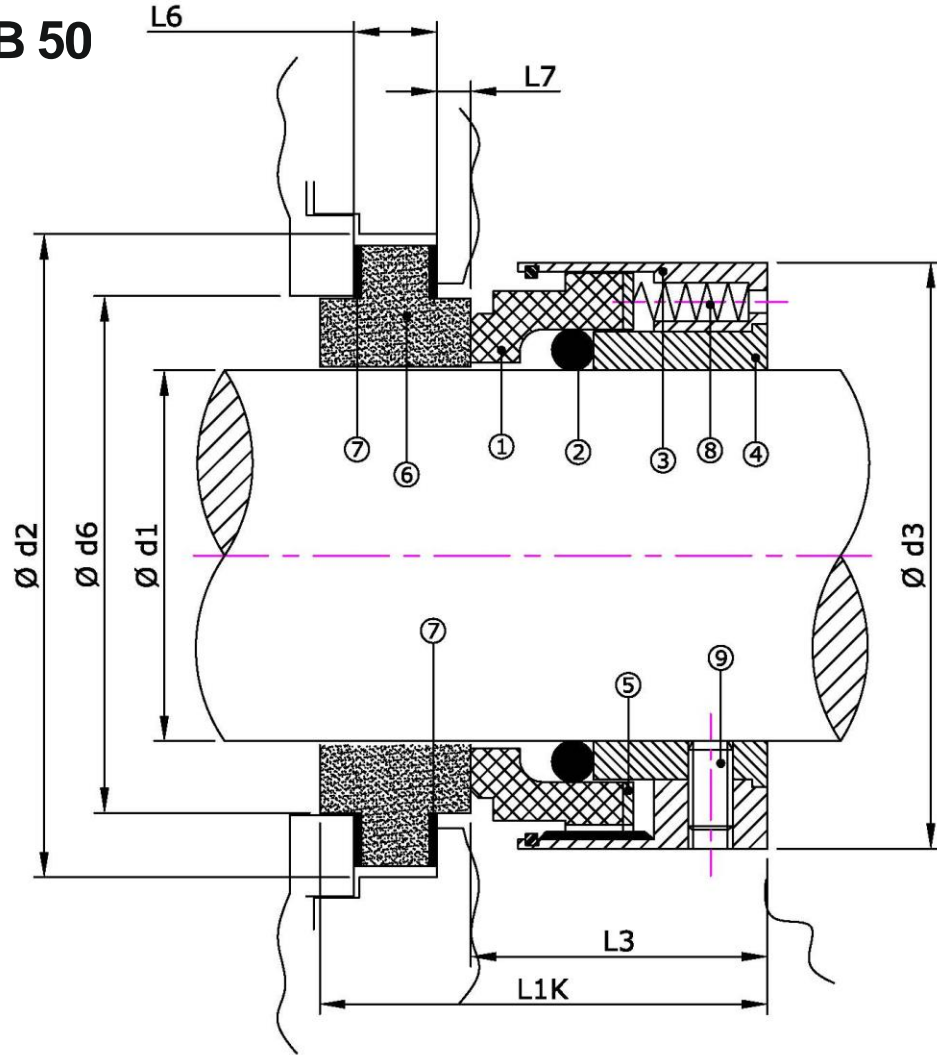


MSRPB 50 DIMENIONS IN MILLIMETER FOR “L” TYPE MATING RING

SEAL SIZE							
$d1$	$d2$	$d3$	$d6$	L6	L7	L3	L1K
20	27.0	38.0	23.0	5.5	8.5	22.5	28.0
22	33.0	41.0	27.0	7.0	9.0	22.5	29.5
24	35.0	49.0	29.0	7.0	9.0	29.0	36.0
26	37.0	50.0	31.0	7.0	9.0	29.0	36.0
28	39.0	51.0	33.0	7.0	9.0	30.5	37.5
30	40.0	53.5	34.0	7.0	9.0	30.5	37.5
33	43.0	57.0	37.0	7.0	9.0	30.5	37.5
35	45.0	59.0	39.0	7.0	9.0	36.0	43.0
38	48.0	63.0	42.0	7.0	9.0	36.0	43.0
40	50.0	55.0	44.0	7.0	9.0	36.0	43.0
43	56.0	68.0	49.0	8.0	9.0	36.0	44.0
45	58.0	70.0	51.0	8.0	9.0	36.0	44.0
48	61.0	73.5	54.0	8.0	9.0	36.0	44.0
50	63.0	76.0	56.0	8.0	9.0	36.0	44.0
53	66.0	81.0	59.0	8.0	9.0	38.5	46.5
55	70.0	83.0	62.0	8.5	9.0	40.5	49.0
58	73.0	86.0	65.0	8.5	9.0	40.5	49.0
60	75.0	88.0	67.0	8.5	9.0	40.5	49.0
63	78.0	91.0	70.0	8.5	9.0	40.5	49.0
65	80.0	93.0	72.0	8.5	9.0	42.5	51.0
68	83.0	96.0	75.0	8.5	9.0	42.5	51.0
70	85.0	98.0	77.0	8.5	9.0	42.5	51.0
75	92.0	103.0	83.0	9.5	9.0	45.0	54.5
80	97.0	108.0	88.0	9.5	9.0	45.0	54.5
85	105.0	113.0	95.0	9.5	9.0	48.0	57.5
90	110.0	118.0	100.0	9.5	9.0	48.0	57.5
95	115.0	123.0	105.0	9.5	9.0	50.5	60.0
100	120.0	128.0	110.0	9.5	9.0	50.5	60.0



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1	SEAL RING
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5	THRUST RING
6	MATING RING
7	GASKET
8	SPRING
9	SET SREW



MSRPB 50 DIMENIONS IN INCH FOR "T" TYPE MATING RING

SEAL SIZE		d2 ^{+0.00} -0.05	d3	d6 ^{+0.10} -0.00	L6	L7	L3	L1K
d1 ^{+0.00} -0.05								
Inch	mm							
0.750	19.050	46.5	38.0	36.0	11.0	3.5	22.5	40.5
0.875	22.225	50.2	40.7	39.5	11.0	3.5	22.5	40.5
1.000	25.400	53.5	50.0	42.5	11.0	3.5	29.0	47.0
1.125	28.575	59.5	51.5	46.0	14.0	6.5	30.5	57.5
1.250	31.750	64.0	55.0	50.8	14.0	6.5	30.5	57.5
1.375	34.925	67.0	59.0	54.0	14.0	6.5	30.5	57.5
1.500	38.100	69.5	63.0	57.0	14.0	6.5	30.5	57.5
1.625	41.275	75.5	64.0	61.5	14.0	6.5	30.5	57.5
1.750	44.450	76.5	70.5	64.0	14.0	6.5	36.0	63.0
1.875	47.625	83.5	73.5	70.0	14.0	6.5	36.0	63.0
2.000	50.800	90.5	77.0	76.0	14.0	6.5	36.0	63.0
2.125	53.975	93.5	81.5	78.0	18.0	8.5	40.5	75.5
2.250	57.150	93.5	84.2	76.0	18.0	8.5	40.5	75.5
2.375	60.325	98.5	87.5	80.0	18.0	8.5	40.5	75.5
2.500	63.500	100.5	91.0	85.5	18.0	8.5	40.5	75.5