



Metal Bellow Seal (MB 610 Series & MB 620 Series)

MB 610



MB 620

Metal Bellow Seal MB 610 Series & MB 620 Series are welded metal bellow seals used in chemical, petrochemical and refinery process pumps for moderate temperature and pressure application and for process services requiring corrosion resistance. These bellow seals are constructed by welding a series of diaphragms together at the edges to form a bellow unit. The bellow unit eliminates the need of spring, dynamic secondary seal and provides flexibility to the seal face in addition to compensating for seal face wear.

Applications : Chemicals, Petrochemicals, Refineries, Corrosive Chemicals.

Seal Components :

Seal Face :

Carbon / Silicon Carbide

Carbon / Tungsten Carbide

Silicon Carbide / Tungsten Carbide

Secondary Seal :

Elastomers, PTFE, GFT.

Metal Parts :

MB 610: SS304, SS316, Carpenter-42

MB 620: Hastelloy-C

Seal Characteristics :

- Single Acting
- Inherently Balanced
- Inside Mounted
- Independent of Direction of Rotation
- Welded Metal Bellows

Welded Bellows :

MB 610: AM 350

MB 620: Hastelloy-C

Operating Parameters :

Shaft Dia : 1.000 to 4.000 Inch

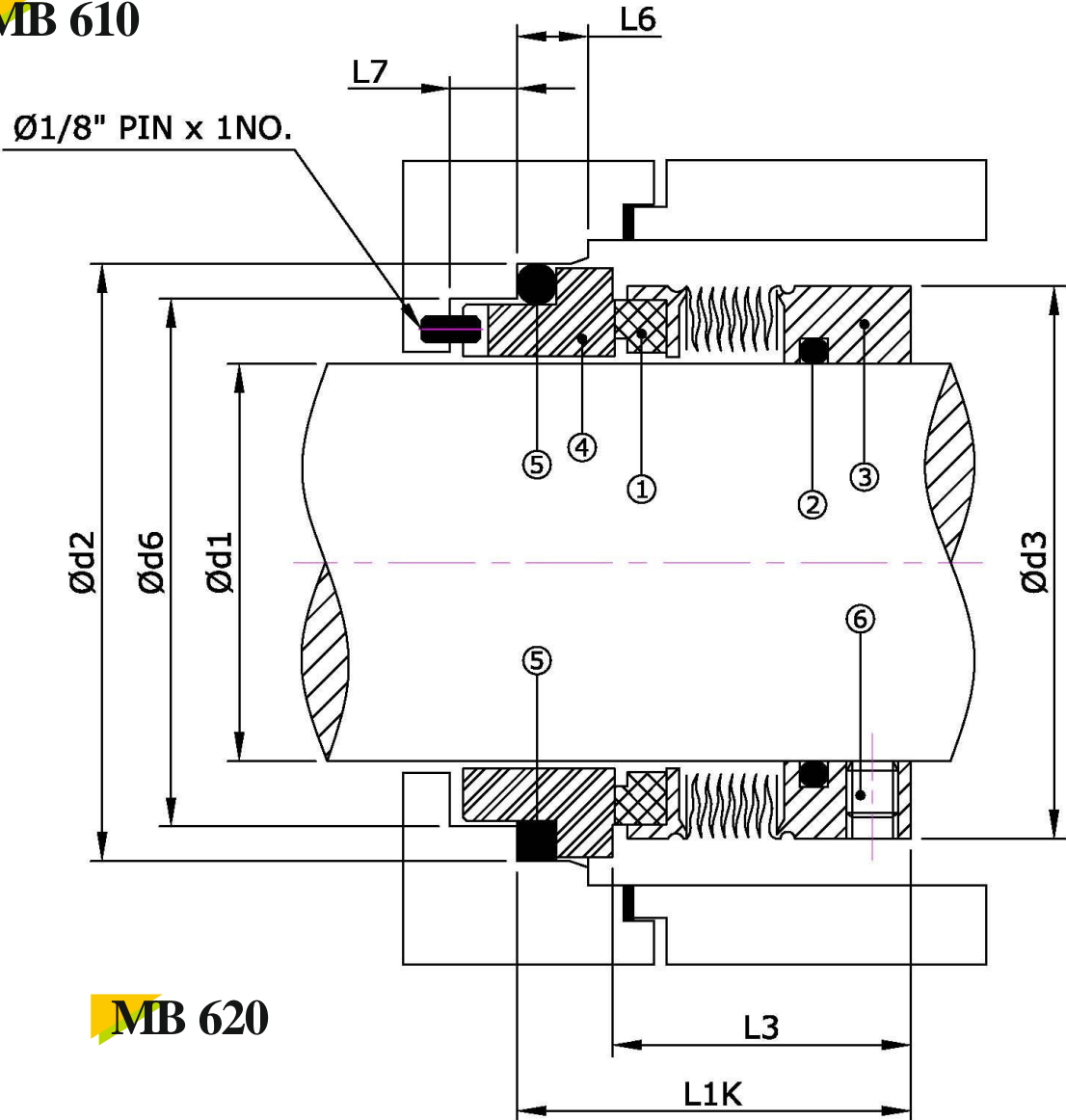
Pressure : 9 Bars (max)

Temperature : -20 to +200°C

Velocity : Up to 20 m/sec



MB 610



MB 620

ITEM	DESCRIPTION
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1	SEAL RING
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2	O RING
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3	WELDED BELLOW RETAINER
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4	MATING RING
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5	O RING / PTFE PACKING
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6	SET SREW
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MB 610 & MB 620 DIMENIONS IN INCH

SEAL SIZE								
d1 ^{+0.00} -0.05		d2 ^{+0.00} -0.05	d3	d6 ^{+0.10} -0.00	L6	L7	L3	L1K
Inch	mm							
1.000	25.40	41.15	39.70	35.20	7.00	8.50	31.75	38.75
1.125	28.58	44.32	42.85	38.30	7.00	8.50	31.75	38.75
1.250	31.75	47.50	46.00	41.60	7.00	8.50	33.30	40.30
1.375	34.92	50.67	49.20	44.70	7.00	9.00	36.50	43.50
1.500	38.10	53.85	52.40	47.90	7.00	9.00	36.50	43.50
1.625	41.28	60.20	55.50	54.30	7.00	9.00	36.50	43.50
1.750	44.45	63.35	58.70	57.50	7.00	9.0	36.50	43.50
1.875	47.62	66.55	62.00	60.60	7.00	9.00	38.10	45.10
2.000	50.80	69.72	65.00	63.80	7.00	9.00	38.10	45.10
2.125	53.98	76.05	68.20	70.10	7.00	9.00	38.10	45.10
2.250	57.15	79.24	71.40	73.30	7.00	9.00	39.70	46.70
2.375	60.32	82.42	74.60	76.50	7.00	9.00	39.70	46.70
2.500	63.50	85.60	81.00	79.65	7.00	9.00	39.70	46.70
2.625	66.68	85.60	84.10	79.65	7.00	9.00	41.30	48.30
2.750	69.85	88.77	87.30	82.80	7.00	9.00	41.30	48.30
2.875	73.02	91.66	92.10	85.70	9.50	9.00	42.85	52.35
3.000	76.20	94.84	95.20	88.90	9.50	9.00	42.85	52.35
3.125	79.38	98.00	98.40	92.10	9.50	9.00	44.45	53.95
3.250	82.55	101.16	101.60	95.30	9.50	9.00	44.45	53.95
3.375	85.72	104.36	104.80	98.40	9.50	9.00	44.45	53.95
3.500	88.90	107.54	108.00	101.60	9.50	9.00	47.62	57.12
3.625	92.08	110.70	111.10	104.75	9.50	9.00	47.62	57.12
3.750	95.25	113.88	114.30	108.00	9.50	9.00	47.62	57.12
3.875	98.42	117.56	117.50	111.10	9.50	9.00	47.62	57.12
4.000	101.60	120.22	120.60	114.30	9.50	9.00	47.62	57.12