

# MBO

## Metal Bellow Seals

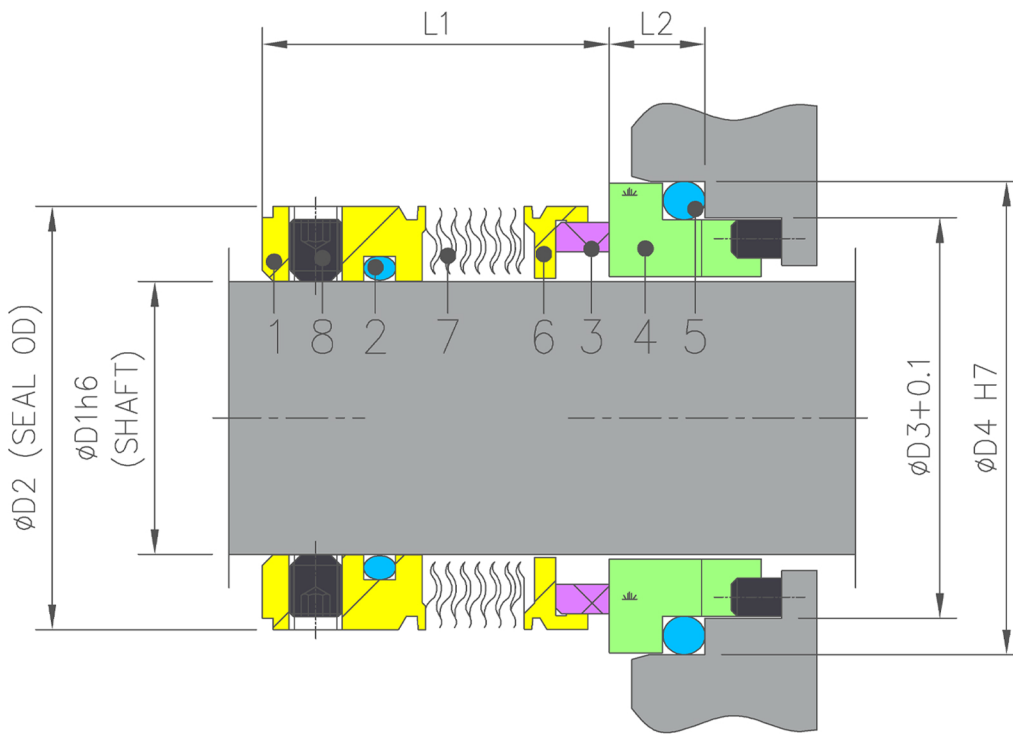


### Product Description

1. Edge Welded Metal Bellow Seals
2. Rotating Bellows
3. Hydraulically balanced
4. Single Seal
5. Independent of Direction of Rotation

### Technical Features

1. For unstopped Shafts
2. Suitable for Low End Sterile Applications
3. Self-Cleaning Effect
4. Dynamically Loaded O-ring
5. For Extreme Temperature Ranges



### Industrial Application

Refining Technology  
 Power Plant Technology  
 Cold Media  
 Highly Viscous Media  
 Chemical Industry  
 Hot Media  
 Food and Beverage Industry  
 Water and Waste Water Technology

### Material Of Construction

**Bellow** : Hastelloy C-276, Inconel, AM350  
**Seal Ring** : Carbon Graphite Antimony Impregnated/Carbon Graphite Resin Impregnated/Silicon -Carbide  
**Seat** : Silicon -Carbide /Tungsten Carbide  
**Metal Parts** : S.S.316/Alloy-20/Hast'C

### Available Sizes

20.0 to 100.0mm (0.75" to 4.000")

### Operating Limits

**Pressure** = 16kgs/cm<sup>2</sup> (Max)  
**Temperature** = -40° C to + 220°C  
**Speed** = 20m/s  
**Permissible Axial Movement**= ±0.5mm

Item	Description
1	Adapter
2,5	O Ring
3	Seal ring
4	Mating ring

Item	Description
6	Flange
7	Bellow
8	Screw

## Dimensional Data

D1 (INCH)	D2	D3	D4	L1	L2
1.000	39.67	35.20	41.27	31.75	6.63
1.125	42.85	38.30	44.45	31.75	6.63
1.250	46.02	41.50	47.63	33.32	6.63
1.375	49.20	44.70	50.80	36.50	6.63
1.500	52.37	47.90	53.98	36.50	6.63
1.625	55.55	54.20	60.33	36.50	7.98
1.750	58.72	57.40	63.50	36.50	7.98
1.875	61.90	60.66	66.68	38.10	7.98
2.000	65.07	63.70	69.85	38.10	7.98
2.125	68.25	70.10	76.20	38.10	8.79
2.250	71.42	73.30	79.38	39.67	8.79
2.375	74.60	76.40	82.55	39.67	8.79
2.500	80.95	79.60	85.73	39.67	8.79
2.625	84.12	79.60	85.73	41.28	9.63
2.750	87.30	82.80	88.90	41.28	9.63
2.875	92.08	85.80	95.25	42.85	11.43
3.000	95.25	89.00	98.43	42.85	11.43
3.125	98.43	92.20	101.60	44.45	11.43
3.250	101.60	95.30	104.78	44.45	11.43
3.375	104.78	98.50	107.95	44.45	11.43
3.500	107.95	101.70	111.13	47.63	11.43
3.625	111.13	104.90	114.30	47.63	12.50
3.750	114.30	108.10	117.48	47.63	12.50
3.875	117.48	111.20	120.65	47.63	12.50
4.000	120.65	114.40	123.83	48.34	12.50

D1	D2	D3	D4	L1	L2
16.00	30.00	23.00	27.00	32.50	10.00
18.00	32.00	27.00	33.00	30.50	7.00
20.00	33.50	29.00	35.00	30.50	7.00
22.00	36.50	31.00	37.00	30.50	7.00
24.00	39.00	33.00	39.00	28.50	11.50
25.00	39.60	34.00	40.00	28.50	11.50
28.00	42.80	37.00	43.00	31.00	11.50
30.00	45.00	39.00	45.00	31.00	11.50
32.00	46.00	42.00	48.00	31.00	11.50
33.00	48.00	42.00	48.00	31.00	11.50
35.00	49.20	44.00	50.00	31.00	11.50
38.00	52.30	49.00	56.00	31.00	14.00
40.00	55.50	51.00	58.00	31.00	14.00
43.00	57.50	54.00	61.00	31.00	14.00
45.00	58.70	56.00	63.00	31.00	14.00
48.00	61.90	59.00	66.00	31.00	14.00
50.00	65.50	62.00	70.00	32.50	15.00
53.00	68.60	65.00	73.00	32.50	15.00
55.00	70.00	67.00	75.00	32.50	15.00
58.00	71.70	70.00	78.00	37.50	15.00
60.00	74.60	72.00	80.00	37.50	15.00
63.00	79.00	75.00	83.00	37.50	15.00
65.00	84.10	77.00	85.00	37.50	15.00
68.00	87.30	81.00	90.00	34.50	18.00
70.00	87.30	83.00	92.00	42.00	18.00
75.00	95.00	88.00	97.00	42.00	18.00
80.00	98.40	95.00	105.00	41.80	18.20
85.00	104.70	100.00	110.00	41.80	18.20
90.00	111.00	105.00	115.00	46.80	18.20
95.00	114.00	110.00	120.00	47.80	17.20
100.00	117.40	115.00	125.00	47.80	17.20

**Note:** Additional technical & dimensional information will be provided on request