

Application

The MBG metal bellow seals are widely utilized in applications involving High temperature oils and hydrocarbons. These seals offer several advantages in such environments. One notable feature of the MBG seal is its high degree of axial flexibility, which allows it to compensate for shaft misalignment or lack of concentricity. This flexibility enables the seal to maintain effective sealing performance even in situations where the shaft undergoes thrust movement. Additionally, the MBG seals are particularly well-suited for high-temperature applications commonly found in industries such as refineries, petrochemical plants, and the oil and gas sector. The seals are designed to withstand the extreme temperatures typically encountered in these environments. This makes them a reliable sealing solution for processes involving hot oils, hydrocarbons, and other high-temperature fluids. An important advantage of the MBG seals is that it incorporates Flexible Graphite as a secondary Seal which can withstand high temperatures. This makes MBG as an ideal solution for very high temperature thermic fluid sealing.

Operating Parameters

Shaft Dia.: 25 to 100mm
Pressure: up to 10 Bars
Temp.: -20 to 350°C
Speed: up to 25 m/s

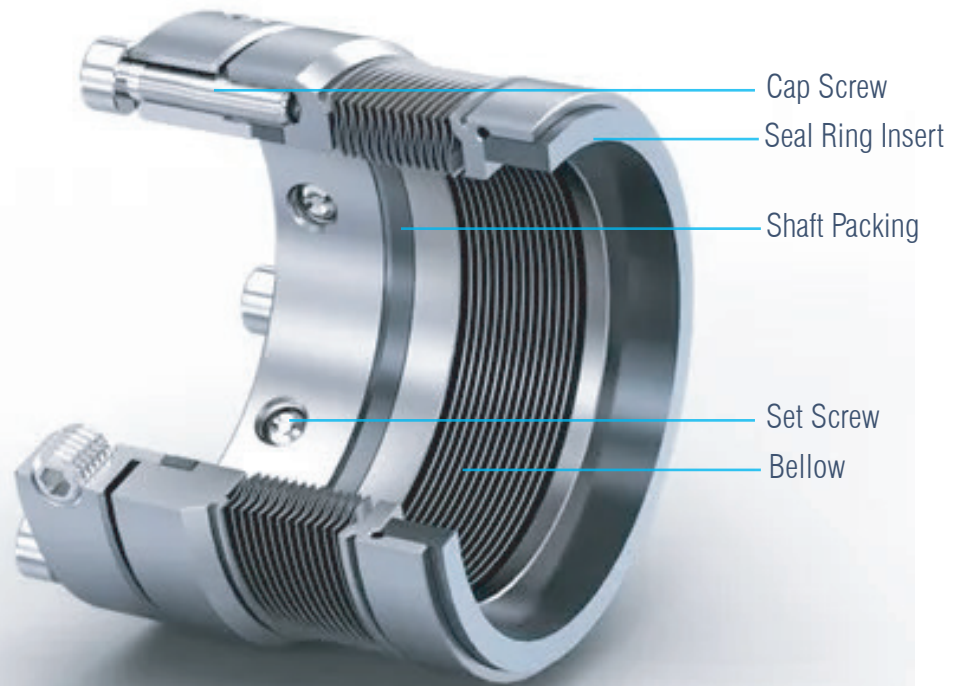
Materials

Seal Faces: Carbon/Sic/TC
Secondary Seals: FFKM/FKM/PTFE/Graphite
Metal Components: SS-316/Hast-C/Inconel-718
Bellows: Incone-718/Hast-C/AM-350



MBG

Metric



Features



Easy Installation



Inherently Balanced



Requires Minimum Axial & Radial Space for installation



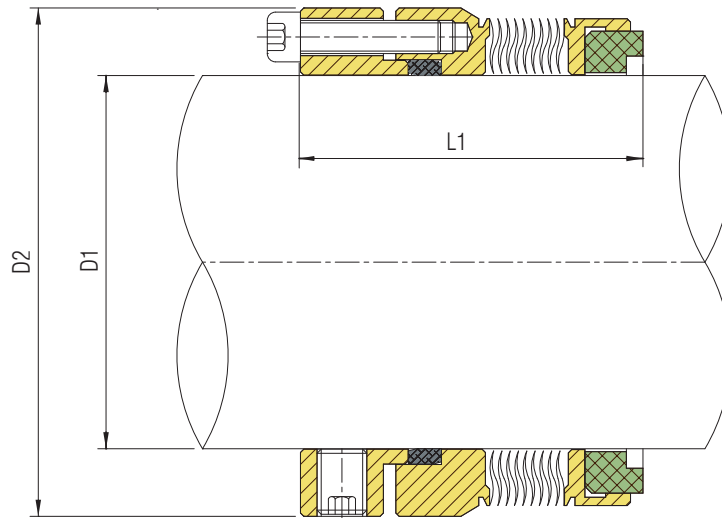
Minimum Parts



No Dynamic O Ring to Damage Shaft/Sleeve



Flexibel Graphite Packing as Secondary Sealing



MBG Dimensional Data

Dash Size	Inches			Metric		
	D1	D2	L1	D1	D2	L1
-16	1	1.625	1.531	25.4	41.28	38.89
-18	1.125	1.75	1.562	28.58	44.45	39.67
-20	1.25	1.875	1.593	31.75	47.63	40.46
-22	1.375	2	1.593	34.93	50.8	40.46
-24	1.5	2.125	1.593	38.1	53.98	40.46
-26	1.625	2.25	1.593	41.28	57.15	40.46
-28	1.75	2.375	1.625	44.45	60.33	41.28
-30	1.875	2.5	1.625	47.63	63.5	41.28
-32	2	2.625	1.656	50.8	66.68	42.06
-34	2.125	2.75	1.656	53.98	69.85	42.06
-36	2.25	2.875	1.719	57.15	73.03	43.66
-38	2.375	3	1.719	60.33	76.2	43.66
-40	2.5	3.25	1.75	63.5	82.55	44.45
-42	2.625	3.375	1.781	66.68	85.73	45.24
-44	2.75	3.5	1.781	69.85	88.9	45.24
-46	2.875	3.687	1.875	73.03	93.65	47.63
-48	3	3.812	1.875	76.2	96.82	47.63
-50	3.125	4	1.875	79.38	101.6	47.63
-52	3.25	4.125	1.875	82.55	104.78	47.63
-54	3.375	4.25	1.875	85.73	107.95	47.63
-56	3.5	4.375	1.875	88.9	111.13	47.63
-58	3.625	4.5	1.875	92.08	114.3	47.63
-60	3.75	4.625	1.875	95.25	117.48	47.63
-62	3.875	4.75	1.875	98.43	120.65	47.63
-64	4	4.875	1.875	101.6	123.83	47.63

Note: Contact Hydro-Serve Design team for special requirements and customization



HYDRO-SERVE TECHNOLOGIES

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NOTE: If the products featured are intended for use in a potentially dangerous or hazardous process, it is essential to consult with a Hydro-Serve representative before selecting and using those products. Hydro-Serve emphasizes the importance of obtaining expert guidance to ensure safety and proper product suitability.