



*Mechanical seal*

## 波纹管机械密封 Metal bellows seals range

### 金属波纹管机械密封简介:

金属波纹管机械密封分为焊接波纹管密封和压制成型波纹管密封。

金属波纹管密封无动态辅助密封，不会因为辅助密封与轴的磨损而导致密封失效。同时波纹管在旋转过程中因离心力作用可以实现自清洗。



我司在焊接金属波纹管密封领域具有多年设计和生产经验，产品广泛用于石化，电厂，化工等领域。可生产 AM350,SS316,Hastelloy-C Inconel 718 和 Titanium 等材料的焊接金属波纹管密封。产品大量出口伊朗，德国，印度尼西亚等市场。

### Introduction of metal bellows seal:

Metal bellows seal can be classified as welded metal bellows seal and formed metal bellows seal .

The welded metal bellows design doesn't contain dynamic o-ring , It will not lead to seal failure because of the wear between secondary seal and shaft. At the same time, Welded Bellows can achieve self-cleaning due to the centrifugal force during rotation

Our company has years of experience in designing and manufacturing welded metal bellows seals.They're widely used in the field of oil refinery,power stations,and chemical industry.Bellows material could be AM350,SS316,Hastelloy-C,Inconel 718 and Titanium.Each year,they're exported in big quantity to markets like Iran , Germany ,Indonesia and etc...

## CATALOG FOR CROSS REFERENCE

## Metal bellow seal

	AES	Chesterton	Burgmann	CRANE	Anga	Depac	Flowserve	Pages
AS-BM85			<u>MFL85N</u>					57
AS-BM80T			<u>MFLWT80</u>					58
AS-BJ80				<u>680</u>				59
AS-BJ09				<u>609</u>				60



Mechanical seal

焊接波纹管机械密封  
Metal bellow mechanical seals

	1	2	3	4	5	6	7	8
Size/Metric (d)	D3	D6	D7	L3	L8	L4		
A	16	30.0	23	27	32.5	17.5	10.0	
	18	32.0	27	33	30.5	14.0	11.5	
	20	33.5	29	35	30.5	14.0	11.5	
	22	36.5	31	37	30.5	14.0	11.5	
	24	39.0	33	39	28.5	19.5	11.5	
	25	39.6	34	40	28.5	19.5	11.5	
B	28	42.8	37	43	31.0	19.5	11.5	
	30	45.0	39	45	31.0	19.5	11.5	
	32	46.0	42	48	31.0	19.5	11.5	
	33	48.0	42	48	31.0	19.5	11.5	
	35	49.2	44	50	31.0	19.5	11.5	
	38	52.3	49	56	31.0	22.0	14.0	
	40	55.5	51	58	31.0	22.0	14.0	
C	43	57.5	54	61	31.0	22.0	14.0	
	45	58.7	56	63	31.0	22.0	14.0	
	48	61.9	59	66	31.0	22.0	14.0	
	50	65.0	62	70	32.5	23.0	15.0	
	53	68.2	65	73	32.5	23.0	15.0	
	55	70.0	67	75	32.5	23.0	15.0	
D	58	71.7	70	78	37.5	23.0	15.0	
	60	74.6	72	80	37.5	23.0	15.0	
	63	79.0	75	83	37.5	23.0	15.0	
	65	84.1	77	85	37.5	23.0	15.0	
	68	87.3	81	90	34.5	26.0	18.0	
E	70	87.3	83	92	42.0	26.0	18.0	
	75	95.0	88	97	42.0	26.0	18.0	
	80	98.4	95	105	41.8	26.2	18.2	
	85	104.7	100	110	41.8	26.2	18.2	
	90	111.0	105	115	46.8	26.2	18.2	
	95	114.0	110	120	47.8	25.2	17.2	
F	100	117.4	115	125	47.8	25.2	17.2	

**结构说明 (Structure Description):**  
Equivalent to Burgmann MPL85N  
焊接波纹管机械密封 (welded metal bellows design)

**运行参数 (Operating Limits):**  
温度 (Temperature): -20---220°C  
转速 (Speed): 20m/s  
压力 (Pressure): 25bar  
标准尺寸 (Standard size): 16 - 100mm

**常用材料组合 (Material):**  
密封环 (Seal ring): 石墨, 碳化硅, 氧化铝 (Car, Sic, Ssic, Tci)  
辅助密封 (Secondary seal): 丁腈橡胶, 乙丙橡胶, 氟橡胶, 全氟橡胶等 (NBREPM, Viton, Kalrez etc.)  
金属波纹管 (Spring and metal parts): 304, 316, AMS30, HAST, C, Inconel 718, Titanium

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CHECKED:		TYPE & SIZE:
APPV:		AS-BM85
SCALE:	DATE:	PAGE: X/X





焊接波纹管机械密封  
Metal bellow mechanical seals

	1	2	3	4	5	6	7	8
Size/Metric (d)	D3	D6	D7	L3	L5	L4		
A	16	38	29.0	35.0	46.5	19.5	11.5	
	18	40	31.0	37.0	46.5	19.5	11.5	
	20	42	34.0	40.0	46.5	19.5	11.5	
	22	44	37.0	43.0	46.5	19.5	11.5	
	24	46	37.0	43.0	46.5	19.5	11.5	
	25	47	39.0	45.0	46.5	19.5	11.5	
	28	50	42.0	48.0	46.5	19.5	11.5	
	30	52	44.0	50.0	46.5	19.5	11.5	
B	32	54	49.0	56.0	46.5	22.0	14.0	
	33	55	49.0	56.0	46.5	22.0	14.0	
	35	57	51.0	58.0	46.5	22.0	14.0	
	38	60	54.0	61.0	46.5	22.0	14.0	
C	40	66	56.0	63.0	47.5	22.0	14.0	
	43	69	59.0	66.0	47.5	22.0	14.0	
	45	71	62.0	70.0	47.5	23.0	15.0	
	48	74	65.0	73.0	47.5	23.0	15.0	
	50	76	67.0	75.0	47.5	23.0	15.0	
D	53	79	70.0	78.0	47.5	23.0	15.0	
	55	81	72.0	80.0	47.5	23.0	15.0	
	58	85	75.0	83.0	53.0	23.0	15.0	
	60	87	77.0	85.0	53.0	23.0	15.0	
	63	90	81.0	90.0	53.0	26.0	18.0	
	65	92	83.0	92.0	53.0	26.0	18.0	
	68	95	88.0	97.0	53.0	26.0	18.0	
E	70	97	88.0	97.0	53.0	26.0	18.0	
	75	102	95.0	105.0	52.8	26.2	18.2	
	80	107	100.0	110.0	52.8	26.2	18.2	
	85	112	105.0	115.0	52.8	26.2	18.2	
	90	117	110.0	120.0	53.8	25.2	17.2	
	95	122	115.0	125.0	53.8	25.2	17.2	
F	100	127	122.2	134.3	54.0	30.0	20.0	

**结构说明(Structure Description):**  
Equivalent to Burgmann metal bellow seal MFLWT80 type.  
焊接波纹管机械密封 (Welded metal bellows design. With torque transmission)

**运行参数(Operating Limits):**  
温度(Temperature): -20---400°C  
线速(Speed): 20m/s  
压力(Pressure): 25bar  
标准尺寸(Standard size): 16 - 100mm

**常用材料组合(Material):**  
密封环(Seal ring): 石墨, 碳化硅, 氧化铝 (Car, Sic, Ssic, Al<sub>2</sub>O<sub>3</sub>)  
辅助密封(Secundary seals): 聚四氟乙烯 (Carbon, graphite)  
金属波纹管(Spring and metal parts): 304, 316, A16550, HAST.C, Inconel 718, Titanium

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Mechanical seal

焊接波纹管机械密封  
Metal bellow mechanical seals

1	2	3	4	5	6	7	8
Size/Metric	d	DS	L1	Size/Inch	d	DS	L1
18	18	32.0	27.5	0.750	19.05	33.32	31.75
20	20	33.3	27.5	0.875	22.23	36.50	31.75
22	22	36.0	27.5	0.937	23.80	38.10	31.75
24	24	38.1	30.0	1.000	25.40	39.67	31.75
25	25	39.0	30.0	1.125	28.58	42.85	31.75
28	28	42.0	32.5	1.250	31.75	46.02	33.32
30	30	44.0	32.5	1.375	34.93	49.20	36.50
32	32	46.0	32.5	1.500	38.10	52.37	36.50
33	33	47.0	32.5	1.625	41.28	55.55	36.50
35	35	49.2	32.5	1.750	44.45	58.72	36.50
38	38	52.4	34.0	1.875	47.63	61.90	38.10
40	40	55.6	34.0	2.000	50.80	65.07	38.10
43	43	58.7	34.0	2.125	53.98	68.25	38.10
45	45	58.7	34.0	2.250	57.15	71.42	39.67
48	48	61.9	34.0	2.375	60.33	74.60	39.67
50	50	65.1	34.5	2.500	63.50	80.95	39.67
53	53	68.3	34.5	2.625	66.68	84.12	41.28
55	55	71.0	34.5	2.750	69.85	87.30	41.28
60	60	74.6	39.5	2.875	73.03	92.08	42.85
65	65	84.1	39.5	3.000	76.20	95.25	42.85
70	70	87.3	45.0	3.125	79.38	98.43	44.45
75	75	95.3	45.0	3.250	82.55	101.60	44.45
80	80	98.4	44.5	3.375	85.73	140.78	44.45
85	85	104.8	44.5	3.500	88.90	107.95	47.63
90	90	108.0	49.5	3.625	92.08	111.13	47.63
95	95	114.3	49.5	3.750	95.25	114.30	47.63
100	100	120.7	49.5	3.875	98.43	117.48	47.63
			4.000	101.60	120.65	47.63	

**结构说明:**  
Equivalent to Johncrane 680 seal  
焊接波纹管密封 (Welded metal bellows design)

**运行参数(Operating Limits):**  
温度/Temperature: -20---220°C  
转速/Speed: 20m/s  
压力/Pressure: 25bar  
标准尺寸(Standard size): 18 - 100mm or 0.75" - 4.0"

**常用材料组合(Material):**  
波纹管/Seal ring: 碳钢, 不锈钢 (Car: Ss, Ss1c, TC)  
辅助密封/Secondary seals: 丁腈橡胶, 乙丙橡胶, 氟橡胶, 全氟醚橡胶等 (NBR, EPDM, Viton, Kalrez etc.)  
金属焊丝/Spring and metal parts: 304, 316, AM350, HAST, C, Inconel, Ti18, Titanium

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		AS-BJ80





## 焊接波纹管机械密封 Metal bellow mechanical seals

