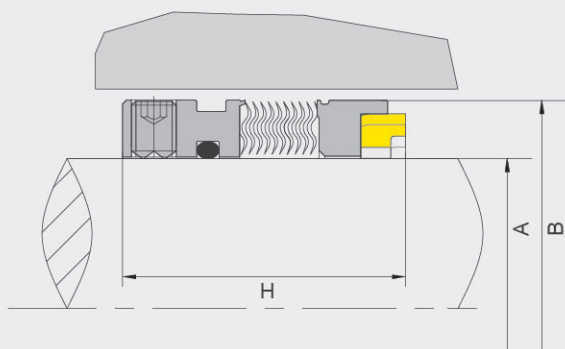


M100

金属波纹管 METAL BELLOWS



产品特征Key Features

- 单端面金属波纹管密封
- 和静组配合使用，为平衡式密封
- 双向旋转设计
- 工作高度短
- Single rotary bellows component seal.
- Hydraulically balanced seal faces for the product, when mated with a suitable stationary.
- Bi-directional rotation.
- Short internal working length.

材质Material Arrangement

密封环/Seal faces	SSIC/CARBON/TC
橡胶/Rubber	EPR/Viton®/Aflas®/Kalrez®
玻片/Bellows	AM 350/Alloy 276/Alloy 718
环座/Holder	316SS/Alloy 42/Alloy 276
尾座/End-Fittings	316SS/Alloy 276

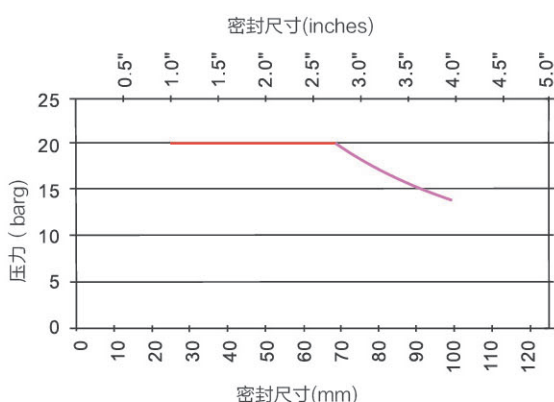
运行参数Operating Conditions

温度/Temperature	-20° C to +210° C [-68° F to +410° F]
压力/Pressure	0~20 Bar
线速度/On-wire speed	Up to 20 m/s
适用介质/Sealing product	各种酸性，碱性，低度浆液，水油等介质 Acid,alkaline, low percentage of pulp, water, oil and other similar media.

M100-尺寸信息(mm)

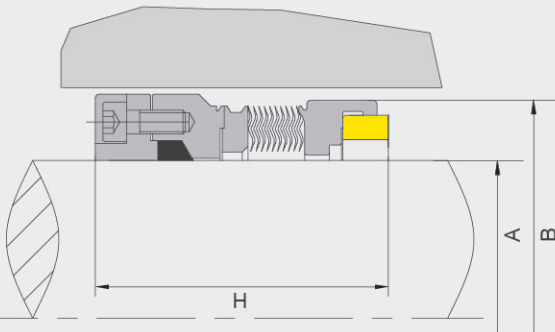
A轴径/Shaft Size	B	H
18.00	27.50	32.00
20.00	27.50	33.32
22.00	27.50	36.00
24.00	30.00	38.10
25.00	30.00	39.00
28.00	32.50	42.00
30.00	32.50	44.00
32.00	32.50	46.02
33.00	32.50	47.00
35.00	32.50	49.20
38.00	34.00	52.37
40.00	34.00	55.55
43.00	34.00	58.72
45.00	34.00	58.72
48.00	34.00	61.90
50.00	34.50	65.07
53.00	34.50	68.25
55.00	34.50	71.00
58.00	39.50	74.60
60.00	39.50	74.60
63.00	39.50	80.95
65.00	39.50	84.12
68.00	37.50	87.30
70.00	45.00	87.30
75.00	45.00	95.25

压力图Pressure Chart



M200

金属波纹管 METAL BELLOWS



产品特征Key Features

- 单端面金属波纹管密封
- 和静组配合使用，为平衡式密封
- 双向旋转设计
- 工作高度短
- Single rotary bellows component seal.
- Hydraulically balanced seal faces for the product, when mated with a suitable stationary.
- Bi-directional rotation.
- Short internal working length.

材质Material Arrangement

密封环/Seal faces	SSIC/CARBON/TC
辅助密封/Sec.seal	Carbon Graphit
玻片/Bellows	AM 350/Alloy 276/Alloy 718
环座/Holder	316SS/Alloy 42/Alloy 276
尾座/End-Fittings	316SS/Alloy 276

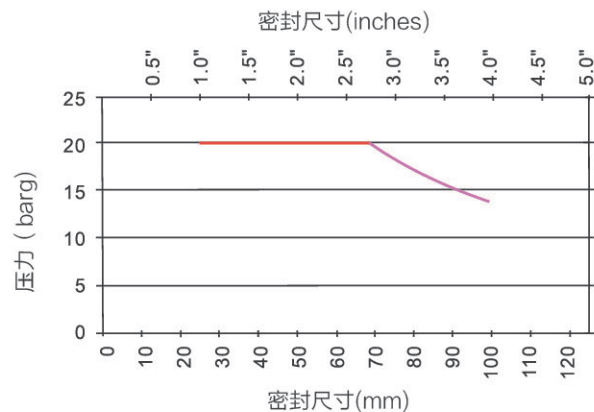
运行参数Operating Conditions

温度/Temperature	-40° C to +350° C [-40° F to +662° F]
压力/Pressure	0~20 Bar
线速度/On-wire speed	Up to 20 m/s
适用介质/Sealing product	各种酸性，碱性，低度浆液，制糖，水油等介质 Acid,alkaline, low percentage of pulp, sugar, water, oil and other similar media.

M200-尺寸信息(Inches)

A轴径/Shaft Size	B	H
1"	1.625	1.531
1 1/8"	1.750	1.562
1 1/4"	1.875	1.593
1 3/8"	2.000	1.593
1 1/2"	2.125	1.593
1 5/8"	2.250	1.593
1 3/4"	2.375	1.625
1 7/8"	2.500	1.625
2"	2.625	1.656
2 1/8"	2.750	1.656
2 1/4"	2.875	1.719
2 3/8"	3.000	1.719
2 1/2"	3.250	1.750
2 5/8"	3.375	1.781
2 3/4"	3.500	1.781
2 7/8"	3.687	1.875
3"	3.812	1.875
3 1/8"	4.000	1.875
3 1/4"	4.125	1.875
3 3/8"	4.250	1.875
3 5/8"	4.500	1.875
3 3/4"	4.625	1.875
4 7/8"	4.875	1.875

压力图Pressure Chart



METAL BELLOW SEALS

金属波纹管密封

Metal Bellows are recommended for hot & corrosive applications. The bellow seal doesn't have a semi dynamic elastomer, hence can be used in high temperature applications. High temperature resistant graphit is used as secondary seal. As metal bellows seals are pressure balanced they do not require a balance step on the shaft.

金属波纹管适用于高温腐蚀性工况。密封不含滑动密封圈设计，可以用于高温工况。可采用柔性石墨作为辅助密封。金属波纹管是平衡式密封，并不需要在水平方向上做轴台阶以达到平衡。

Bellows Material Selection for Hydrocarbon Duties Containing Sulphur

含硫烃介质用波纹管材质选择

Part Number	Material of construction	Sulphur content					
		< 0 °C		< / = 200 °C		> 200 °C	
		< 2 %	> 2 %	< 2 %	> 2 %	< 2 %	> 2 %
Ends	AM350	✓		✓		✓	
	Alloy 276	✓	✓	✓	✓		
	Alloy 718	✓	✓	✓	✓	✓	✓
	316SS	✓	✓	✓	✓		
	Alloy 42	✓		✓		✓	
	Alloy 276	✓	✓	✓	✓		
Sec.seal	Kalrez			✓	✓	✓	✓
	Graphit	✓	✓	✓	✓	✓	✓

Bellows/玻片材质

AM350 (热处理)	
Temperature 耐受温度	Up to 400°C (752 °F)
Use 工况	In mild chemical environment 一般化工工况
其他工况	Not recommended in cryogenic applications 不推荐使用在结晶工况
Alloy 718(Inconel718)	
Temperature 耐受温度	Up to 400°C (752 °F)
Use 工况	In corrosive environment 腐蚀性工况
Other information 其他工况	API recommended bellows API 标准推荐用材质 Best available bellows material 最好的材质
Alloy 276哈市合金276	
Temperature 耐受温度	Up to 400°C (752 °F)
Use 工况	In corrosive environment 腐蚀性工况
Other information 其他工况	API recommended bellows API 标准推荐用材质 Best available bellows material 较好的材质

Holder/镶嵌材质

Alloy42 (Carpenter 42)	
Temperature 耐受温度	Up to 400°C (752 °F)
Use 工况	In mild chemical environment 一般化工工况
Other information 其他工况	Low co-effecient of thermal expansion. high temp. 低热膨胀系数的金属材料 耐高温 Low corrosion resistance 抗腐蚀性不高

Standard Bellow Materials/标准材质配置推荐

尾座/End-Fittings		波片/Bellow		环座/Holder	材质编码/Code
Alloy 276	-	Alloy 276	-	Alloy 276	HHH
316SS	-	Alloy 276	-	316SS	SHS
316SS	-	AM 350	-	Alloy 42	SAC
316SS	-	Alloy 718	-	Alloy 42	S7C
316SS	-	AM 350	-	316SS	SAS