



Junming (Hebei) Machinery and Equipment Manufacturing Co., Ltd.

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# COMPANY BROCHURE



JUNMING SEAL

[www.junmingmeco.com](http://www.junmingmeco.com)



## About us

**Junming:** A specialist in the design and manufacture of mechanical seals and support system, magnetic pumps, bearing protector, etc.

We can offer popular mechanical seals as well as customized seals as per requirements.

The mechanical seals are widely applied in pumps and rotating equipment to prevent liquids and gases escaping into the environment.

Applied fields: power plants, chemical plants, refineries, pharmaceuticals, aviation, metallurgy and other fields at home and abroad.



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## JM 系列非集装机封 JM Series non-set installed capacity seal

### JM-MG1/MG12/MG13- (109/1092/1093)

#### 简介 Profile

单端面/非平衡型/任意旋向/橡胶波纹管

Single seal /Unbalanced/Independent of direction of rotation/Rubber bellows

MG1(109)系列是最常用的密封。橡胶波纹管不能承受扭应力。它设计精巧，具有多种功能，如：推动动环，既是次级密封件，又作为动环的驱动件。动环通过“L”环和弹簧传动，不用粘结。动环可更换成各种材料。可在含有颗粒的废水，污水中应用。

MG1(109)Mechanical seals of the MG series are amongst the most commonly used. The bellows is not subjected to any torsional stress and its ingenious design incorporates several functions, as seal face, it's not only a secondary sealing element, but also a drive element. The seal face is driven through the spring and "L" rings. There are no bonded joints and all the face materials are inter-changeable without having to modify any dimensions. Highly recommended for duties with medium containing solids in waste water and sewage applications.



#### 技术参数

规格:10~110 mm

压力:≤1.2Mpa

温度:-20℃~120℃

线速度:≤10m/s

轴向窜动量:±0.5 mm

#### Operating Limits

Specification:10~110 mm

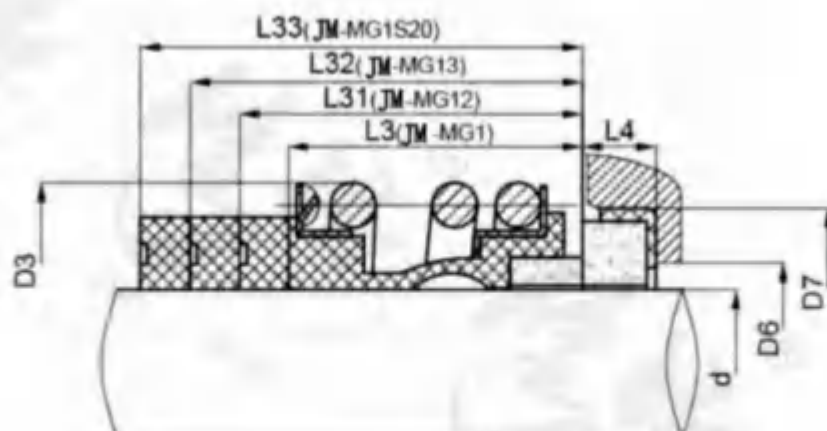
Pressure:≤1.2Mpa

Temperature:-20℃~120℃

Linear speed:≤10m/s

Axial movement:±0.5 mm

简图符合 JM-eMG 标准



Size	d	D3	D6	D7	L3	L31	L32	L33	L4
10	10	22.5	17	21	14.5	25.9	33.4	25.0	6.6
12	12	25	19	23	15.0	25.9	33.4	25.0	6.6
14	14	28.5	21	25	17.0	28.4	33.4	25.0	6.6
15	15	28.5	-	-	17.0	28.4	33.4	25.0	-
16	16	28.5	23	27	17.0	28.4	33.4	25.0	6.6
18	18	32	27	33	19.5	30.0	37.5	25.0	7.5
19	19	37	-	-	21.5	30.0	37.5	25.0	-
20	20	37	29	35	21.5	30.0	37.5	25.0	7.5
22	22	37	31	37	21.5	30.0	37.5	25.0	7.5
24	24	42.5	33	39	22.5	32.5	42.5	25.0	7.5
25	25	42.5	34	40	23.0	32.5	42.5	25.0	7.5
28	28	49	37	43	26.5	35.0	42.5	33.0	7.5
30	30	49	39	45	26.5	35.0	42.5	33.0	7.5
32	32	53.5	42	48	27.5	35.0	47.5	33.0	7.5
33	33	53.5	42	48	27.5	35.0	47.5	33.0	7.5
35	35	57	44	50	28.5	35.0	47.5	33.0	7.5
38	38	59	49	56	30.0	36.0	46.0	33.0	9.0
40	40	62	51	58	30.0	36.0	46.0	33.0	9.0
42	42	65.5	-	-	30.0	36.0	51.0	41.0	-
43	43	65.5	54	61	30.0	36.0	51.0	41.0	9.0
45	45	68	56	63	30.0	36.0	51.0	41.0	9.0
48	48	70.5	59	66	30.5	36.0	51.0	41.0	9.0
50	50	74	62	70	30.5	38.0	50.5	41.0	9.5
53	53	78.5	65	73	33.0	36.5	59.0	41.0	11.0
55	55	81	67	75	35.0	36.5	59.0	41.0	11.0
58	58	85.5	70	78	37.0	41.5	59.0	41.0	11.0
60	60	88.5	72	80	38.0	41.5	59.0	41.0	11.0
65	65	93.5	77	85	40.0	41.5	69.0	49.0	11.0
68	68	96.5	81	90	40.0	41.2	68.7	49.0	11.3
70	70	99.5	83	92	40.0	48.7	68.7	49.0	11.3
75	75	107	88	97	40.0	48.7	68.7	52.0	11.3
80	80	112	95	105	40.0	48.0	78.0	56.0	12.0
85	85	120	100	110	41.0	46.0	76.0	56.0	14.0
90	90	127	105	115	45.0	51.0	76.0	59.0	14.0
95	95	132	110	120	46.0	51.0	76.0	59.0	14.0
100	100	137	115	125	47.0	51.0	76.0	62.0	14.0



## JM-BIA

### 简介 Profile

单端面/非平衡型/任意旋向/橡胶波纹管

Single seal/Unbalanced/

Independent of direction of rotation/Rubber bellows



### 技术参数

密封腔温度:  $-20^{\circ}\text{C} + 120^{\circ}\text{C}$

线速度:  $\leq 15\text{m/s}$

密封腔压力:  $\leq 10\text{bar}$

轴径尺寸: 14-90 mm

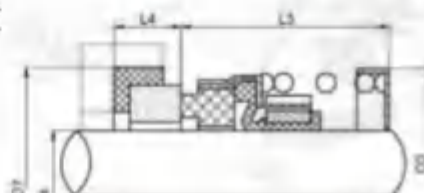
### Operating Limits

Temperature :  $-20^{\circ}\text{C} + 120^{\circ}\text{C}$

Speed:  $\leq 15\text{m/s}$

Pressure:  $\leq 10\text{bar}$

Standard size: 14-90 mm



Size	d	D3	D7	L3	L4
14	14	27.5	30	19.0	5.0
16	16	28.5	32	21.0	5.0
18	18	31.2	35	22.5	7.5
20	20	31.7	35	21.0	8.0
25	25	40.2	40	25.5	8.0
28	28	44.1	43	25.5	8.0
30	30	45.1	45	25.5	9.0
32	32	49.0	48	33.5	9.0
33	33	49.0	48	33.5	9.0
35	35	50.2	50	33.5	9.0
38	38	55.3	56	33.5	9.0
40	40	57.0	58	33.5	9.0
43	43	60.7	61	36.5	9.5
45	45	62.5	63	38.0	9.5
48	48	66.5	66	38.0	9.5
50	50	68.6	70	38.0	9.5
53	53	70.8	73	41.0	9.5
55	55	72.4	75	41.0	9.5
58	58	80.0	78	42.0	9.5
60	60	83.0	80	42.0	9.5
65	65	87.2	85	42.0	10.0
70	70	91.6	92	45.0	11.0
75	75	99.4	97	47.0	12.0
80	80	104.6	104	55.0	12.0
85	85	111.0	109	64.0	12.0
90	90	113.0	114	66.0	12.0

## JM-104

### 简介 Profile

该系列是典型的流程泵用单弹簧机械密封，该密封符合 DIN24960、ISO3069、GB6556 标准，是广泛使用的标准非平衡型机械密封，允许采用各种材料及端面组合，以满足广泛的工业要求。

This series of mechanical seal is a typical single spring, standards unbalanced mechanical seal with various kinds of materials and end face combination which is in conformity with DIN24960, ISO3069, GB6556 standards, typically used in process pumps in order to meet the requirements of industry.

### 技术参数

密封腔温度：-20℃+80℃

线速度：≤3000r/min

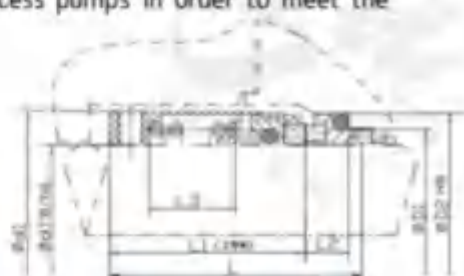
密封腔压力：P≤0.8MPa

### Operating Limits

Temperature:-20℃+80℃

Speed: ≤3000r/min

Pressure: P≤0.8MPa



Size	d	d1	D1	D2	L	L1	L2	L3
16	16	33	25.5	33	53	37	12	8
18	18	35	28.5	36	56	40	12	11
20	20	37	30.5	40	59	40	14	11
22	22	39	32.5	42	62	43	14	14
25	25	42	35.5	45	62	43	14	14
28	28	45	38.5	48	63	44	14	15
30	30	52	40.5	50	68	49	14	15
35	35	57	45.5	55	70	51	14	17
40	40	62	50.5	60	73	54	14	20
45	45	67	55.5	65	79	60	14	25
50	50	72	60.5	70	82	63	14	28
55	55	77	65.5	75	84	65	14	30
60	60	82	70.5	80	84	65	14	30
65	65	92	80.5	90	96	74	17	35
70	70	97	85.5	97	101	76	19	37
75	75	102	90.5	102	101	76	19	37
80	80	107	95.5	107	106	81	19	42
85	85	112	100.5	112	107	82	19	42
90	90	117	105.5	117	108	83	19	43
95	95	122	110.5	122	108	83	19	43
100	100	127	115.5	127	108	83	19	43
110	110	141	130.5	142	132	105	21	60
120	120	151	140.5	152	132	105	21	60



## JM-108

### 简介 Profile

单端面/非平衡型/任意旋向/橡胶波纹管

Single seal/Unbalanced/Independent of direction of rotation/Rubber bellows



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+150^{\circ}\text{C}$

线速度:  $\leq 3000\text{r/min}$

密封腔压力:  $\leq 0.8\text{bar}$

轴径尺寸:  $10-55\text{mm}$

轴向窜动量:  $\pm 1.0\text{mm}$

### Operating Limits

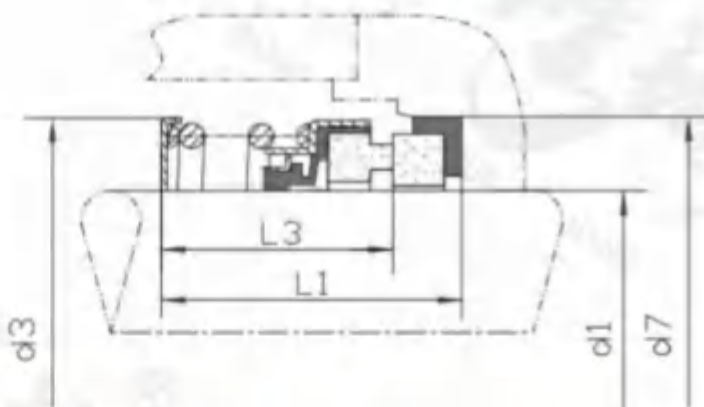
Temperature:  $-20^{\circ}\text{C}+150^{\circ}\text{C}$

Speed:  $\leq 3000\text{r/min}$

Pressure:  $\leq 0.8\text{bar}$

Standard size:  $10-55\text{mm}$

Axial movement:  $\pm 1.0\text{mm}$



型号 MODEL	d1 (G6)	d3 (max)	d7 (G8)	L1 ( $\pm 0.5$ )	L3
JM108-8	8	17	15	20	14.7
JM108-9	9	21	21	20	14.7
JM108-10	10	21	21	20	14.7
JM108-11	11	23	23	20	14.7
JM108-12	12	23	23	20	14.7
JM108-14	14	25.5	25	25	19.7
JM108-15	15	27.5	27	25	19.7
JM108-16	16	27.5	27	25	19.7
JM108-17	17	32.5	33	25	19.7
JM108-18	18	32.5	33	25	19.7
JM108-19	19	33	35	25	19.2
JM108-20	20	33	35	25	19.2
JM108-22	22	38	37	28	21.6
JM108-25	25	40	40	32.5	25
JM108-28	28	43	43	35	27
JM108-30	30	45.5	45	35	27
JM108-35	35	51	50	37	29
JM108-40	40	57.5	58	40	30.5
JM108-45	45	63	63	40	30.5
JM108-50	50	71	70	45	33.5
JM108-55	55	75.5	75	45	33.5

## JM-108U

### 简介 Profile

108U 型是内装式、非平衡型。108U 型的型式尺寸符合 ISO3069 标准。

该系列是典型的耐强腐蚀泵用单弹簧非平衡型机械密封，可采用各种材料及端面组合，满足强腐蚀工况的需求。

The type 108U is the internally mounted and unbalanced type. The style size of type 108U comply with the ISO3069 standard.

This series is a typical single-spring and unbalanced mechanical seal for anti-corrosive pump. It can adopt various materials and end combinations to meet demand of operating conditions of strong causticity.



### 技术参数

密封腔压力: 0~0.8Mpa Pressure: 0~0.8Mpa

密封腔温度: -10℃+150℃ Temperature: -10℃+150℃

最大转速: 3000r/min Linear speed: 3000r/min

介质: 硫酸、浓碱

### Operating limits

Pressure: 0~0.8Mpa

Temperature: -10℃+150℃

Linear speed: 3000r/min

Medium: Sulphuric acid, Concentrated base



Size	d	d1	d2	D	D1	D2	L	L1
18	18	32	3	34	27	33	32	13
20	20	34	3	36	29	35	32	13
22	22	36	3	38	31	37	32	13
24	24	38	3	40	33	39	37	13
25	25	39	3	41	34	40	37	13
28	28	42	3	44	37	43	37	13
30	30	44	3	46	39	45	37	13
32	32	46	3	48	42	48	37	13
33	33	47	3	49	42	48	42	13
35	35	49	3	51	44	50	42	13
38	38	54	4	58	49	56	42	13
40	40	56	4	60	51	58	42	13
43	43	59	4	63	54	61	47	13
45	45	61	4	65	56	63	47	13
48	48	64	4	68	59	66	47	13
50	50	66	4	70	62	70	47	13
53	53	69	4	73	65	73	57	13
55	55	71	4	75	67	75	57	13
58	58	78	4	83	70	78	55	15
60	60	80	4	85	72	80	55	15
63	63	83	4	88	75	83	55	15
65	65	85	4	90	77	85	65	15
68	68	88	4	93	81	90	65	15
70	70	90	4	95	83	92	65	15
75	75	99	4	104	88	97	63	17
80	80	104	4	109	95	105	73	17
85	85	109	4	114	100	110	73	17
90	90	114	4	119	105	115	72	18

## JM-112

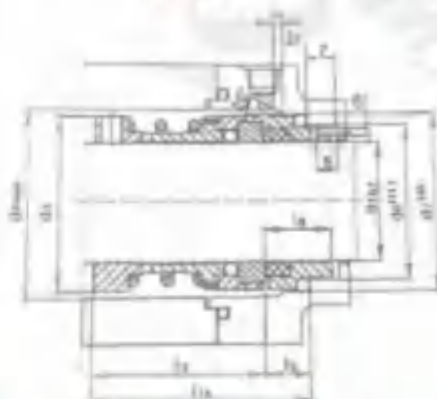
### 简介 Profile

单端面/非平衡型/任意旋向

Single seal/Unbalanced /Independent of direction of rotation

112 型密封采用叉口结构, 传动可靠, 辅助密封有“O”形圈和“V”形圈型式, 常用于污水, 油类及化工等弱腐蚀性介质中。

112 series of seal adopts crotch mechanism to achieve reliable drive. The secondary seal can use “O” ring and “V” ring. It is often used for oil, waste water, chemicals and other weak corrosive medium.



### 技术参数

规格: 25~80 mm

压力:  $\leq 1.2\text{Mpa}$

温度:  $-20^{\circ}\text{C} \sim 180^{\circ}\text{C}$

线速度:  $\leq 15\text{m/s}$

轴向窜动量:  $\pm 1.0\text{ mm}$

### Operating limits

Specification: 25~80 mm

Preessure:  $\leq 1.2\text{Mpa}$

Temperature:  $-20^{\circ}\text{C} \sim 180^{\circ}\text{C}$

Linear speed:  $\leq 15\text{m/s}$

Axial movement:  $\pm 1.0\text{ mm}$

Size	d1 (H8)	d3 (h9)	d4 (h9)	d5 (H11)	d7 (H8)	d8	L1 ( $\pm 0.5$ )	L3	L5	L6
25	25	39	41	34	40	3	50	39.5	2.0	5
28	28	42	44	37	43	3	55	43.5	2.0	5
30	30	44	46	39	45	3	55	43.5	2.0	5
35	35	49	51	44	50	3	55	43.5	2.0	5
40	40	56	60	51	58	4	65	52.0	2.0	6
45	45	61	65	56	63	4	65	52.0	2.0	6
50	50	66	70	62	70	4	70	56.0	2.5	6
55	55	71	75	67	75	4	70	56.0	2.5	6
60	60	80	85	72	80	4	75	61.0	2.5	6
65	65	85	90	77	85	4	75	61.0	2.5	6
70	70	90	95	83	92	4	80	63.5	2.5	7
75	75	99	104	88	97	4	80	63.5	2.5	7
80	80	104	109	95	105	4	85	68.5	3.0	7



## JM-120

### 简介 Profile

单端面/非平衡型/固定旋向/符合 EN12756(DIN24960)标准  
Single seal/Unbalanced/Dependent on direction of rotation/To EN12756(DIN24960)

120 系列是从 JM-M3N 系列演化而来, 依靠弹簧尾端钩钉传动, 结构简单, 安装方便, 但使用应注意旋转方向, 它常用于化工泵, 污水泵和潜水泵中。

120 series is derived from JF-M3N series. It is driven by hook nail on the end of the spring. It has a simple structure and is easy to install. Proper attention shall be paid on the direction of rotation while using. It is often used in chemical pumps, sewage pumps and submerged pumps.



### 技术参数

规格: 18~80 mm

压力:  $\leq 1.0\text{Mpa}$

温度:  $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

线速度:  $\leq 15\text{m/s}$

轴向窜动量:  $\pm 1.0\text{mm}$

### Operating limits

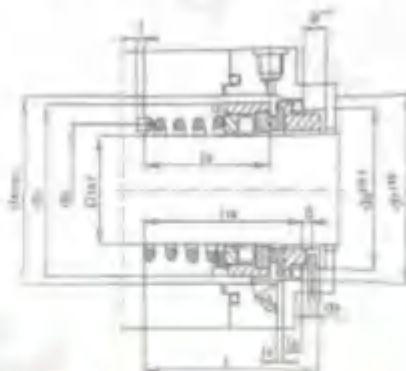
Specification: 18~80 mm

Pressure:  $\leq 1.0\text{Mpa}$

Temperature:  $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

Linear speed:  $\leq 15\text{m/s}$

Axial movement:  $\pm 1.0\text{mm}$



Size	d1 L6	d3 (max)	d4 (max)	d6 H11	d7 H8	L1 $\pm 0.5$	L3	L6	L8
18	18	32	34	27	33	36.0	26.0	5	17.0
20	20	34	36	29	35	36.5	26.5	5	17.0
22	22	36	38	31	37	38.0	27.5	5	17.5
25	25	39	41	34	40	40.0	29.5	5	17.5
28	28	42	44	37	43	40.0	28.5	5	18.5
30	30	44	46	39	45	43.0	31.5	5	18.5
35	35	49	51	44	50	46.0	34.5	5	18.5
40	40	56	60	51	58	50.0	37.0	6	20.0
45	45	61	65	56	63	54.0	41.0	6	20.0
50	50	66	70	62	70	55.0	41.0	6	21.0
55	55	71	75	67	75	57.0	43.0	6	21.0

## JM-208

### 简介 Profile

双端面/单弹簧/非平衡型密封/橡胶波纹管

Double Faces/Single Spring /Unbalanced Seal  
/Rubber Bellows



### 技术参数

介质压力:  $-0.05 \leq P \leq 0.16 \text{ MPa}$

密封腔温度:  $t = -20^\circ\text{C} \sim 80^\circ\text{C}$

转 速:  $n \leq 3000 \text{ r/min}$

介 质: 水、油及 PH 值为 6.5-8 的污水

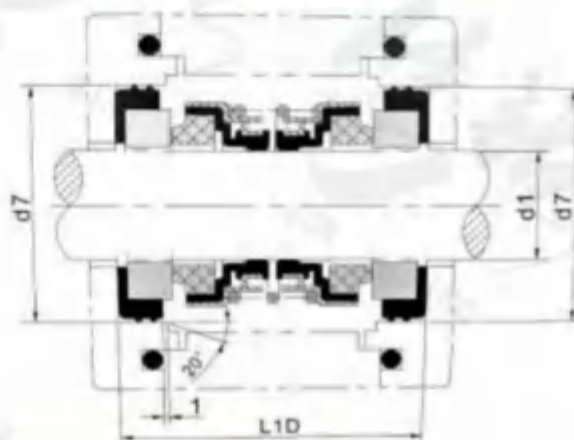
### Operating limits

Medium Pressure:  $-0.05 \leq P \leq 0.16 \text{ MPa}$

Annular Seal Temperature:  $t = -20^\circ\text{C} \sim 80^\circ\text{C}$

Rotation speed:  $n \leq 3000 \text{ r/min}$

Medium: Water、Oil and PH numerical  
value of waste water is 6.5~8



Size	d1 (h6)	d7 (H8)	L10 ( $\pm 0.5$ )
10	10	21	30.0
12	12	23/24/26	32.0
14	14	25/26/28	35/38
15	15	27/28/30	38.0
16	16	27/28/30	38.0
17	17	33/34/35	38/43/48
18	18	33/34/35	38/43/48
20	20	35/36	40/42/47
22	22	37/38	45.0
25	25	40/41	48.0
28	28	43	51.0
30	30	45	51.0
35	35	50	51.0
40	40	58	61.0
45	45	63	61.0

## JM-301

### 简介 Profile

单端面/非平衡型密封/橡胶波纹管

轴向尺寸短

Single Face/Unbalanced Seal/Rubber Bellows

Axial dimension is short

### 技术参数

密封腔压力:  $\leq 0.3\text{MPa}$

密封腔温度:  $-20^{\circ}\text{C}+100^{\circ}\text{C}$

线速度:  $\leq 10\text{m/Sec}$

介质: 水、油类、弱腐蚀性介质

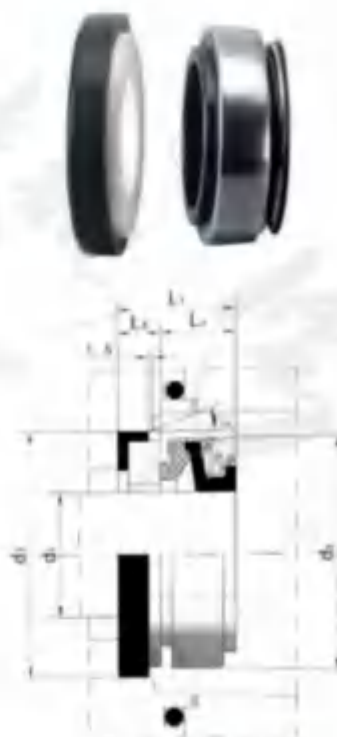
### Operating limits

Pressure in the sealed chamber:  $\leq 0.3\text{MPa}$

Temperature in the sealed chamber:  $-20^{\circ}\text{C}+100^{\circ}\text{C}$

Linear velocity:  $\leq 10\text{m/Sec}$

Medium: water, oils, weak corrosive



Size	d1	d3	d7	L1	L3	L4
6	6	18	18	14	10	4
8	8	18	22	15	11	4
10	10	24	26	19	11	8
11	11	24	26	21	13	8
12	12	24	26	21	13	8
13	12	24	26	8	12.8	6
14	13	24	26	18.5	13	5.5
15	15	32	29.5	21	13	8
16	16	32	29.5	21	13	8
17	17	39	42	21	13	8
18	18	39	42	21	13	8
19	19	39	42	21	13	8
20	20	39	42	21	13	8
22	22	42	45	23	13	10
23	23	47	50	23.5	13.5	10
24	24	47	50	23.5	13.5	10

Size	d1	d3	d7	L1	L3	L4
25	25	47	50	23.5	13.5	10
26	26	47	50	23.5	13.5	10
27	27	47	50	23.5	13.5	10
28	28	54	57	25	15	10
30	30	54	57	25	15	10
32	32	54	57	25	15	10
35	35	60	63	26	16	10
38	38	65	68	30	18	12
40	40	65	68	30	18	12
45	45	70	73	32	20	12
50	50	85	88	38	23	15
55	55	85	88	38	23	15
60	60	105	110	45	30	15
65	65	105	110	45	30	15
70	70	105	110	47	32	15



## JM-M3N/M32/M37/M37G

### 简介 Profile

单端面 / 非平衡型 / 锥形弹簧 / 固定旋向 / 符合 EN12756(DIN24960) 标准

Single seal/Unbalanced/Conical spring/Dependent on direction of rotation/To EN12756(DIN24960)

JM-M3N 系列的机械密封, 结构简单, 应用广泛, 可靠性好。适用于清水泵, 污水泵, 潜水泵以及化工流程泵等。

JM-M3N mechanical seal series is structural simple and reliable. It has a wide application scope. It is suitable for clean water pumps, sewage pumps, submerged pumps, process pumps, etc.



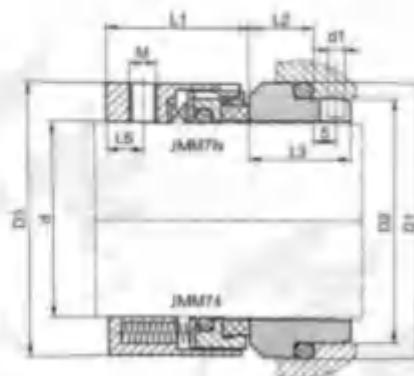
## JM-M7N/M74

### 简介 Profile

单端面/非平衡型/任意旋向/符合 DIN24960 标准  
Single seal/Unbalanced/Independent of direction of rotation/To DIN 24960\*

JM-M7N 系列应用广泛，互换性强，密封环非紧嵌入，替换方便。推环由传动搭子卡住，防止弹簧脱落。静环可以限位，弹簧行程受限制，避免碳环过度磨损。

The JM-M7N mechanical seal is widely used, and has strong interchangeability. The loosely inserted seal faces are easily exchanged. The thrust ring is retained by the drive lugs preventing the springs falling out. stationary ring has the function of limit, spring is limited, it's avoid excessive wear of carbon rings.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+220^{\circ}\text{C}$

线速度:  $\leq 20\text{m/s}$

密封腔压力:  $\leq 16\text{bar}$

轴径尺寸: 14-100 mm

### Operating Limits

Temperature:  $-20^{\circ}\text{C}+220^{\circ}\text{C}$

Speed:  $\leq 20\text{m/s}$

Pressure:  $\leq 16\text{bar}$

Standard Size: 14-100 mm

### 适用行业:

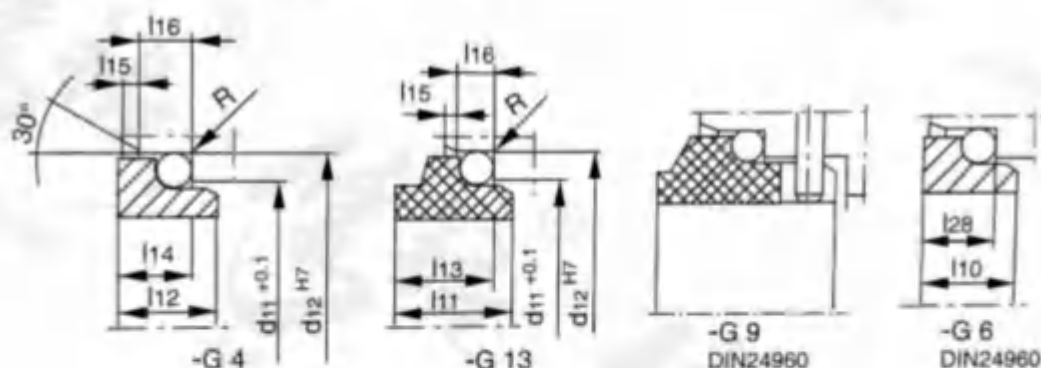
石油炼制、石油化工、电力、冶金、矿山、制药、食品等行业的转动设备，适用于各种低温洁净或含有颗粒的中低粘度介质，如轻质油、部分有机物料、水等。

### Applicable industry:

Petroleum refining, petrochemical, electric power, metallurgy, mining, pharmaceutical, food and other industries of rotating equipment, it is suitable for a variety of low temperature clean or low viscosity medium containing particles, such as light oil, some organic materials, water, etc.

### 静环形式

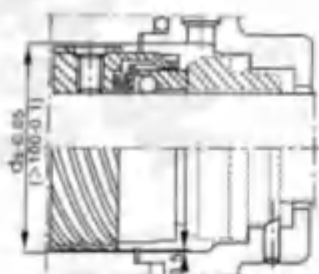
### Stationary ring type



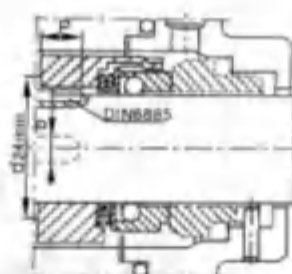
Size	d	D3	D2	D1	d1	L1	L2	L3	L5	B
14	14	25	21	25	3	25.0	10.0	17.5	6	M5
16	16	27	23	27	3	25.0	10.0	17.5	6	M5
18	18	33	27	33	3	26.0	11.5	19.5	7	M5
20	20	35	29	35	3	26.0	11.5	19.5	7	M5
22	22	37	31	37	3	26.0	11.5	19.5	7	M5
24	24	39	33	39	3	28.5	11.5	19.5	8	M5
25	25	40	34	40	3	28.5	11.5	19.5	8	M5
28	28	43	37	43	3	31.0	11.5	19.5	8	M6
30	30	45	39	45	3	31.0	11.5	19.5	8	M6
32	32	47	42	48	3	31.0	11.5	19.5	8	M6
33	33	48	42	48	3	31.0	11.5	19.5	8	M6
35	35	50	44	50	3	31.0	11.5	19.5	8	M6
38	38	55	49	56	4	31.0	14.0	22.0	8	M6
40	40	57	51	58	4	31.0	14.0	22.0	8	M6
43	43	60	54	61	4	31.0	14.0	22.0	8	M6
45	45	62	56	63	4	31.0	14.0	22.0	8	M6
48	48	65	59	66	4	31.0	14.0	22.0	8	M6
50	50	67	62	70	4	32.5	15.0	23.0	8	M6
53	53	70	65	73	4	32.5	15.0	23.0	8	M6
55	55	72	67	75	4	32.5	15.0	23.0	8	M6
58	58	79	70	78	4	37.5	15.0	23.0	9	M8
60	60	81	72	80	4	37.5	15.0	23.0	9	M8
63	63	84	75	83	4	37.5	15.0	23.0	9	M8
65	65	86	77	85	4	37.5	15.0	23.0	9	M8
68	68	89	81	90	4	34.5	18.0	26.0	9	M8
70	70	91	83	92	4	42.0	18.0	26.0	9	M8
75	75	99	88	97	4	42.0	18.0	26.0	10	M8
80	80	104	95	105	4	41.8	18.2	26.2	10	M8

## 衍生系列

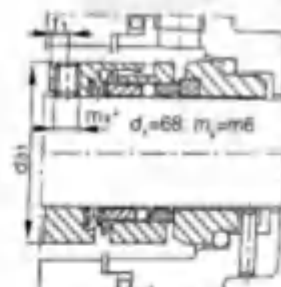
## Derivative series



M7F 带泵送



M7S2 键驱动



M78N 动环用镶嵌结构



## JM-H7N/H74

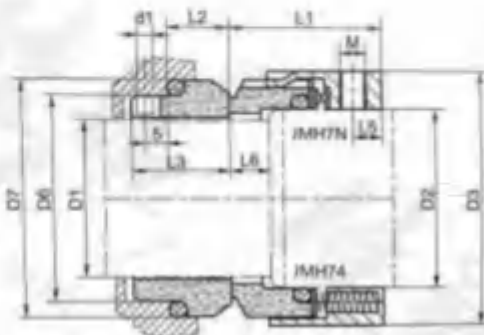
### 简介 Profile

单端面/平衡型/任意旋向/符合 DIN24960 标准

Single seal/Balanced/Independent of direction of rotation/To DIN24960\*

JM-H7N 系列密封应用广泛，互换性好。静环采用浮动式，安装方便，推环由传动搭子卡住，防止弹簧弹出。其它特殊的技术处理包括静环可限位及限制弹簧行程，避免碳环过度磨损。

The JM-H7N mechanical seal is widely used, and has strong interchangeability. stationary ring is floating type, it's easy to install. The thrust ring is retained by the drive lugs preventing the springs falling out. Other special technical treatment is the stationary ring has the function of limit, spring is limited, it's avoid excessive wear of carbon rings.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C} + 220^{\circ}\text{C}$

线速度:  $\leq 20\text{m/s}$

密封腔压力:  $\leq 25\text{bar}$

轴径尺寸: 14-100 mm

### Operating Limits

Temperature:  $-20^{\circ}\text{C} + 220^{\circ}\text{C}$

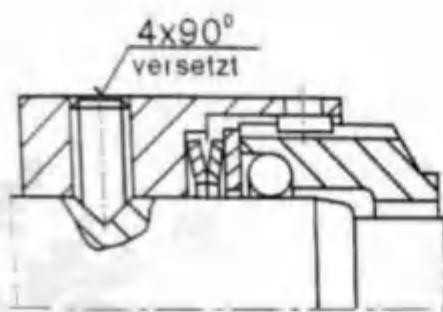
Speed:  $\leq 20\text{m/s}$

Pressure:  $\leq 25\text{bar}$

Standard Size: 14-100 mm

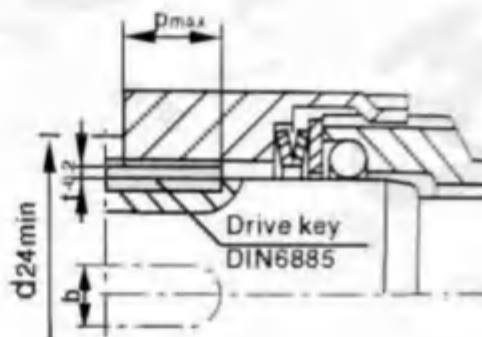
### 扭矩传递

### Torque transfer



当  $d_2 > 100\text{mm}$  时用四只螺钉拧入凹坑

For  $d_2 > 100\text{mm}$ : via 4 set screws with cone points (standard arrangement).

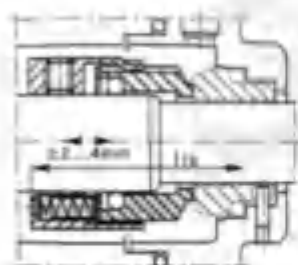


H7 系列的各类密封均可采用以键传递扭矩的方式。如 JM-H7S2/d。

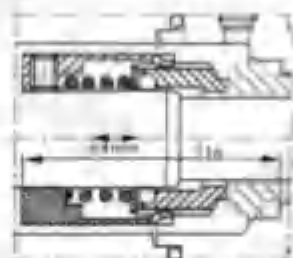
Torque transmission by key is possible for all types in the H7 range (no item no.1.6). Seal code e.g. H7S2/d1

Size	D1	D2	D3	D6	D7	d1	L1	L2	L3	L5	L6	H
14	14	18	33	21	25	3	32.5	10.0	17.5	6.0	8.0	M5
16	16	20	35	23	27	3	32.5	10.0	17.5	6.0	8.0	M5
18	18	22	37	27	33	3	33.5	11.5	19.5	7.0	8.5	M5
20	20	24	39	29	35	3	33.5	11.5	19.5	5.5	8.5	M5
22	22	26	41	31	37	3	33.5	11.5	19.5	8.0	8.5	M5
24	24	28	43	33	39	3	36.0	11.5	19.5	5.5	8.5	M6
25	25	30	45	34	40	3	36.0	11.5	19.5	5.5	8.5	M6
28	28	33	48	37	43	3	38.5	11.5	19.5	8.0	8.5	M6
30	30	35	50	39	45	3	38.5	11.5	19.5	8.0	8.5	M6
32	32	38	55	42	48	3	38.5	11.5	19.5	8.0	8.5	M5
33	33	38	55	42	48	3	38.5	11.5	19.5	8.0	8.5	M6
35	35	40	57	44	50	3	38.5	11.5	19.5	8.0	8.5	M6
38	38	43	60	49	56	4	38.5	14.0	22.0	8.0	9.0	M6
40	40	45	62	51	58	4	38.5	14.0	22.0	8.0	9.0	M6
43	43	48	65	54	61	4	38.5	14.0	22.0	8.0	9.0	M6
45	45	50	67	56	63	4	38.5	14.0	22.0	8.0	9.0	M6
48	48	53	70	59	66	4	38.5	14.0	22.0	8.0	9.0	M6
50	50	55	72	62	70	4	42.5	15.0	23.0	8.0	10.0	M6
53	53	58	79	65	73	4	42.5	15.0	23.0	9.0	10.0	M8
55	55	60	81	67	75	4	42.5	15.0	23.0	9.0	10.0	M8
58	58	63	84	70	78	4	47.5	15.0	23.0	9.0	10.0	M8
60	60	65	86	72	80	4	47.5	15.0	23.0	9.0	10.0	M8
63	63	68	89	75	83	4	47.5	15.0	23.0	9.0	10.0	M8
65	65	70	91	77	85	4	47.5	15.0	23.0	9.0	10.0	M8
70	70	75	99	83	92	4	52.0	18.0	26.0	10.0	10.0	M8
75	75	80	104	88	97	4	52.0	18.0	26.0	10.0	10.0	M8
80	80	85	109	95	105	4	51.8	18.2	26.2	10.0	9.8	M8
85	85	90	114	100	110	4	56.8	18.2	26.2	10.0	9.8	M8
90	90	95	119	105	115	4	56.8	18.2	26.2	10.0	9.8	M8
95	95	100	124	110	120	4	57.8	17.2	26.2	10.0	10.8	M8
100	100	105	129	115	125	4	57.8	17.2	26.2	10.0	10.8	M8

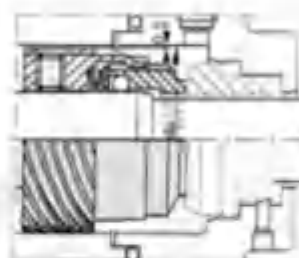
## 衍生系列 Derivative series



H75 多弹簧结构



H76 单弹簧结构



H7F 带螺纹泵/H75F

## JM-58U/59U

### 简介 Profile

单端面/非平衡型/任意旋向/符合 EN12765 (DIN24960) 标准  
Single seal/Unbalanced/Independent of direction of rotation/To  
EN12765 (DIN24960)

该系列机械密封为多弹簧结构，轴向尺寸小，结构紧凑，密封可靠，广泛应用于油、水、有机溶剂以及其它腐蚀性介质中。

This series of mechanical seal is designed with multi spring structure, and it is compact in structure. It has a small axial size and reliable tightness. It is widely used in oil, water, organic solvent, and other weak corrosive medium.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+250^{\circ}\text{C}$

线速度:  $\leq 15\text{m/s}$

密封腔压力:  $\leq 12\text{bar}$

轴径尺寸: 14-100 mm

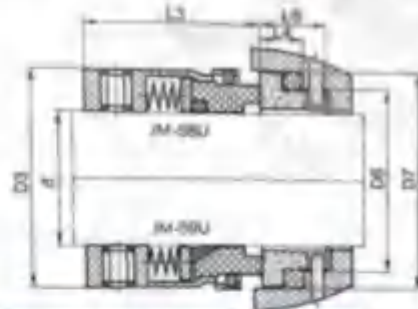
### Operating Limits

Temperature:  $-20^{\circ}\text{C}+250^{\circ}\text{C}$

Speed:  $\leq 15\text{m/s}$

Pressure:  $\leq 12\text{bar}$

Standard Size: 14-100 mm



Size	d	D3	D6	D7	L3	L4	L8
14	14	24	21	25	23.0	12.0	18.5
16	16	26	23	27	23.0	12.0	18.5
18	18	32	27	33	24.0	13.5	20.5
20	20	34	29	35	24.0	13.5	20.5
22	22	36	31	37	24.0	13.5	20.5
24	24	38	33	39	26.7	13.3	20.3
25	25	39	34	40	27.0	13.0	20.0
28	28	42	37	43	30.0	12.5	19.5
30	30	44	39	45	30.5	12.0	19.0
32	32	46	42	48	30.5	12.0	19.0
33	33	47	42	48	30.5	12.0	19.0
35	35	49	44	50	30.5	12.0	19.0
38	38	54	49	56	32.0	13.0	20.0
40	40	56	51	58	32.0	13.0	20.0
43	43	59	54	61	32.0	13.0	20.0
45	45	61	56	63	32.0	13.0	20.0
48	48	64	59	66	32.0	13.0	20.0
50	50	66	62	70	34.0	13.5	20.5
53	53	69	65	73	34.0	13.5	20.5
55	55	71	67	75	34.0	13.5	20.5
58	58	78	70	78	39.0	13.5	20.5
60	60	80	72	80	39.0	13.5	20.5
63	63	83	75	83	39.0	13.5	20.5
65	65	85	77	85	39.0	13.5	20.5
68	68	88	81	90	39.0	13.5	20.5
70	70	90	83	92	45.0	14.5	21.5
75	75	95	88	97	45.0	14.5	21.5
80	80	104	95	105	45.0	15.0	22.0
85	85	109	100	110	45.0	15.0	22.0
90	90	114	105	115	50.0	15.0	22.0
95	95	119	110	120	50.0	15.0	22.0
100	100	124	115	125	50.0	15.0	22.0



## JM-58B/59B

### 简介 Profile

单端面/平衡型/任意旋向/符合 EN12756 (DIN24960)

Single seal/Balanced type/Independent of direction of rotation/To EN12756 (DIN24960)

该系列密封为多弹簧结构，密封面受压均匀，安装方便，通用性好，广泛应用于油、水、有机溶剂以及其它腐蚀性介质中。

This series of seals is a multi-spring structure, the sealing face is evenly pressed, easy installation, good versatility, widely used in oil, water, organic solvents and other corrosive media.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+250^{\circ}\text{C}$

线速度:  $\leq 15\text{m/s}$

密封腔压力:  $\leq 25\text{bar}$

轴径尺寸: 14-100 mm

### Operating Limits

Temperature:  $-20^{\circ}\text{C}+250^{\circ}\text{C}$

Speed:  $\leq 15\text{m/s}$

Pressure:  $\leq 25\text{bar}$

Standard Size: 14-100 mm



Size	d	d1	D3	D6	D7	L7	L8	L9	L65
14	14	18	32	21	25	30.5	12.0	18.5	6.0
16	16	20	34	23	27	30.5	12.0	18.5	6.0
18	18	22	36	23	33	31.5	13.5	20.5	6.5
20	20	24	38	29	35	31.5	13.5	20.5	6.5
22	22	26	40	31	37	31.5	13.5	20.5	6.5
24	24	28	42	33	39	34.2	13.3	20.3	6.7
25	25	30	44	34	40	34.5	13.0	20.0	7.0
28	28	33	47	37	43	37.5	12.5	19.5	7.5
30	30	35	49	39	45	38.0	12.0	19.0	8.0
32	32	38	54	42	48	38.0	12.0	19.0	8.0
33	33	38	54	42	48	38.0	12.0	19.0	8.0
35	35	40	56	44	50	38.0	12.0	19.0	8.0
38	38	43	59	49	56	39.5	13.0	20.0	10.0
40	40	45	61	51	58	39.5	13.0	20.0	10.0
43	43	48	64	54	61	39.5	13.0	20.0	10.0
45	45	50	66	56	63	39.5	13.0	20.0	10.0
48	48	53	69	59	66	39.5	13.0	20.0	10.0
50	50	55	71	62	70	44.0	13.5	20.5	11.5
53	53	58	78	65	73	44.0	13.5	20.5	11.5
55	55	60	80	67	75	44.0	13.5	20.5	11.5
58	58	63	83	70	78	49.0	13.5	20.5	11.5
60	60	65	85	72	80	49.0	13.5	20.5	11.5
63	63	68	88	75	83	49.0	13.5	20.5	11.5
65	65	70	90	77	85	49.0	13.5	20.5	11.5
70	70	75	95	83	92	55.0	14.5	21.5	13.5
75	75	80	104	88	97	55.0	14.5	21.5	13.5
80	80	85	109	95	105	55.0	15.0	22.0	13.0
85	85	90	114	100	110	60.0	15.0	22.0	13.0
90	90	95	119	105	115	60.0	15.0	22.0	13.0
95	95	100	124	110	120	60.0	15.0	22.0	13.0
100	100	105	129	115	125	60.0	15.0	22.0	13.0

## JM-8

### 简介 Profile

经过优化设计的密封端面，具有综合性能高的优点，适合不同行业的需要，适用于水、烃、低黏度油、低浓度酸碱等。派生 JM-8BKC 密封系列，采用流体动压设计，尤其适合轻烃类 and 高压热水等工况。



The optimized design of the end surface of the seal, has the advantages of high comprehensive performance, suitable for the needs of different industries, suitable for water, hydrocarbon, low viscosity oil, low concentration of acid and alkali, etc. Derived JM-8BKC sealing series, using fluid dynamic pressure design, especially suitable for light hydrocarbon and high pressure hot water conditions.

### 技术参数

密封腔温度:  $-75^{\circ}\text{C}+200^{\circ}\text{C}$

线速度:  $<25\text{m/s}$  或  $<5000\text{r/min}$

密封腔压力:  $\leq 1.2\text{MPa}$

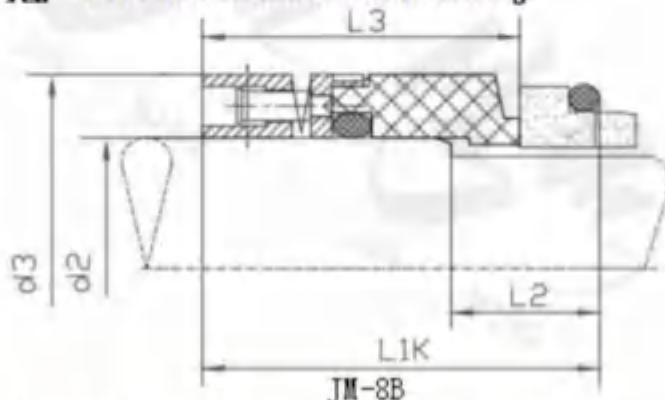
### Operating Limits

Temperature:  $-75^{\circ}\text{C}+200^{\circ}\text{C}$

Speed:  $<25\text{m/s}$  or  $<5000\text{r/min}$

Pressure:  $\leq 1.2\text{MPa}$

**JM-8B 安装尺寸图 JM-8B Installation dimension drawing**

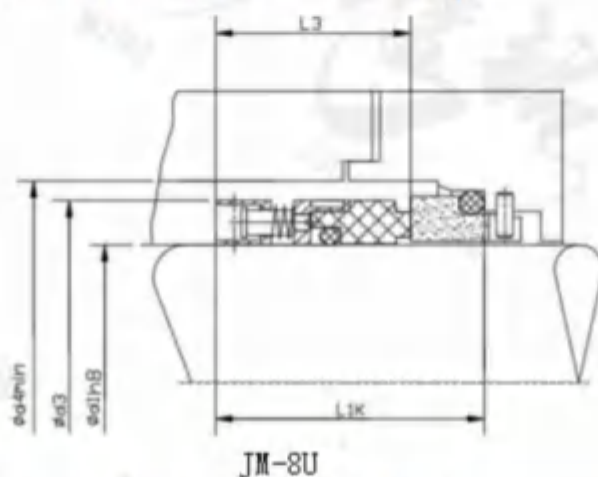


**JM-8B 安装尺寸表 (mm) JM-8B Installation size (mm)**

Size	d1	d2	d3	L1K	L2	L3
14	14	18	32	42.5	18	32.5
16	16	20	34	42.5	18	32.5
18	18	22	36	45	20	33
20	20	24	38	45	20	33
22	22	26	40	45	20	33
24	24	28	42	47.5	20	35.5
25	25	30	44	47.5	20	35.5
28	28	33	47	50	20	38
30	30	35	49	50	20	38
32	32	38	54	50	20	38
33	33	38	54	50	20	38

35	35	40	56	50	20	38
38	38	43	59	52.5	23	39.5
40	40	45	61	52.5	23	39.5
43	43	48	64	52.5	23	39.5
45	45	50	66	52.5	23	39.5
48	48	53	69	52.5	23	39.5
50	50	55	71	57.5	25	44
53	53	58	78	57.5	25	44
55	55	60	80	57.5	25	44
58	58	63	83	62.5	25	49
60	60	65	85	62.5	25	49
63	63	68	88	62.5	25	49
65	65	70	90	62.5	25	49
70	70	75	99	70	28	55.5
75	75	80	104	70	28	55.5
80	80	85	109	70	28	55
85	85	90	114	75	28	60
90	90	95	119	75	28	60
95	95	100	124	75	28	60
100	100	105	129	75	28	60

**JM-8U 安装尺寸图 JM-8U Installation dimension drawing**



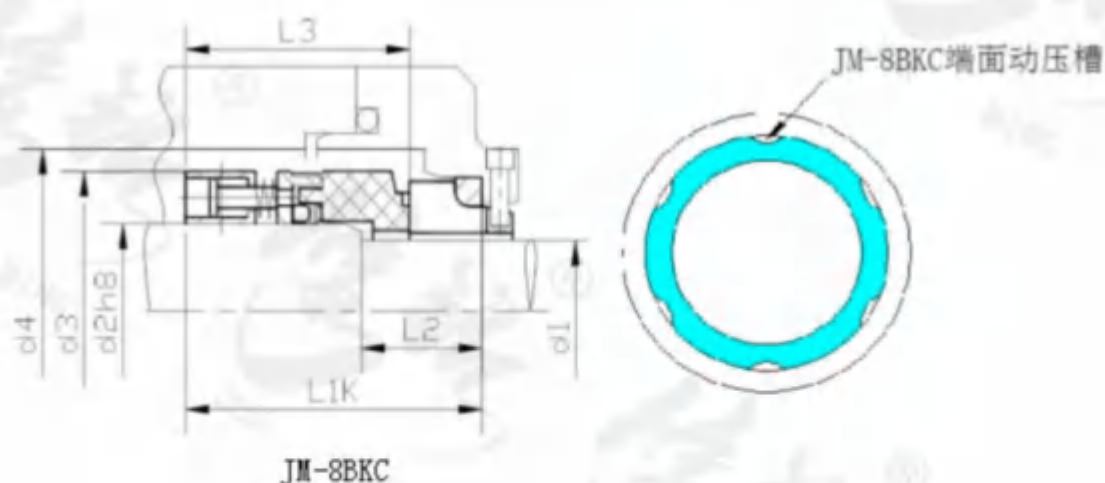
**JM-8U 安装尺寸表 (mm) JM-8U Installation size (mm)**

Size	d1	d3	d4	L1K	L3
14	14	24	26	35	25
16	16	26	28	35	25
18	18	32	34	37.5	25.5
20	20	34	36	37.5	25.5
22	22	36	38	37.5	25.5
24	24	38	40	40	28
25	25	39	41	40	28

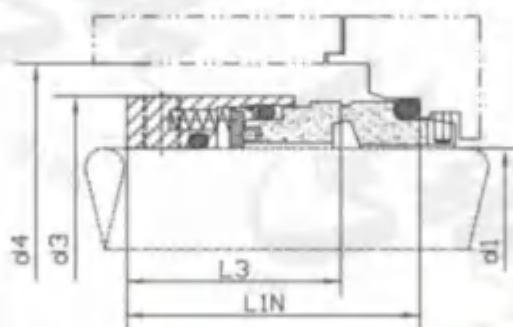


28	28	42	44	42.5	30.5
30	30	44	46	42.5	30.5
32	32	46	48	42.5	30.5
33	33	47	49	42.5	30.5
35	35	49	51	42.5	30.5
38	38	54	58	45	32
40	40	56	60	45	32
43	43	59	63	45	32
45	45	61	65	45	32
48	48	64	68	45	32
50	50	66	70	47.5	34
53	53	69	73	47.5	34
55	55	71	75	47.5	34
58	58	78	83	52.5	39
60	60	80	85	52.5	39
63	63	83	88	52.5	39
65	65	85	90	52.5	39
68	68	88	93	52.5	39
70	70	90	95	60	45.5
75	75	95	104	60	45.5
80	80	104	109	60	45
85	85	109	114	60	45
90	90	114	119	65	50
95	95	119	124	65	50
100	100	124	129	65	50

**JM-8BKC 安装尺寸图 JM-8BKC Installation dimension drawing**



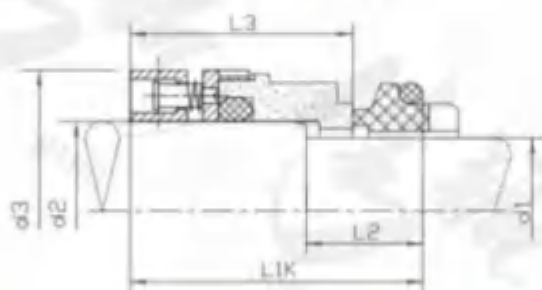
**JM-86 安装尺寸图 JM-86 Installation dimension drawing**



**JM-86 安装尺寸表 (mm) JM-86 Installation size (mm)**

Size	d1	d3	d4	L1N	L3
14	14	24	26	35	25
16	16	26	28	35	25
18	18	32	34	37.5	25.5
20	20	34	36	37.5	25.5
22	22	36	38	37.5	25.5
24	24	38	40	40	28
25	25	39	41	40	28
28	28	42	44	42.5	30.5
30	30	44	46	42.5	30.5
32	32	46	48	42.5	30.5
33	33	47	49	42.5	30.5
35	35	49	51	42.5	30.5
38	38	54	58	45	32
40	40	56	60	45	32
43	43	59	63	45	32
45	45	61	65	45	32
48	48	64	68	45	32
50	50	66	70	47.5	34
53	53	69	73	47.5	34
55	55	71	75	47.5	34
58	58	78	83	52.5	39
60	60	80	85	52.5	39
63	63	83	88	52.5	39
65	65	85	90	52.5	39
68	68	88	93	52.5	39
70	70	90	95	60	45.5
80	80	104	109	60	45.5
85	85	109	114	60	45
90	90	114	119	65	50
95	95	119	124	65	50
100	100	124	129	65	50

**JM-89B 安装尺寸图**      **Installation dimension drawing**



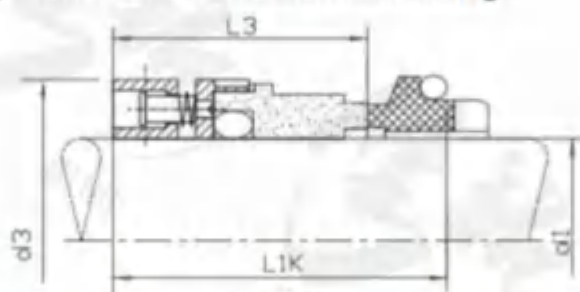
**JM-89B**

**JM-89B 安装尺寸表 (mm)**      **JM-89B Installation size (mm)**

Size	d1	d2	d3	L1K	L2	L3
14	14	18	32	42.5	18	32.5
16	16	20	34	42.5	18	32.5
18	18	22	36	45	20	33
20	20	24	38	45	20	33
22	22	26	40	45	20	33
24	24	28	42	47.5	20	35.5
25	25	30	44	47.5	20	35.5
28	28	33	47	50	20	38
30	30	35	49	50	20	38
32	32	38	54	50	20	38
33	33	38	54	50	20	38
35	35	40	56	50	20	38
38	38	43	59	52.5	23	39.5
40	40	45	61	52.5	23	39.5
43	43	48	64	52.5	23	39.5
45	45	50	66	52.5	23	39.5
48	48	53	69	52.5	23	39.5
50	50	55	71	57.5	25	44
53	53	58	78	57.5	25	44
55	55	60	80	57.5	25	44
60	60	65	85	62.5	25	49
63	63	68	88	62.5	25	49
65	65	70	90	62.5	25	49
70	70	75	95	70	28	55.5
75	75	80	104	70	28	55.5
80	80	85	109	70	28	55
85	85	90	114	75	28	60
90	90	95	119	75	28	60
95	95	100	124	75	28	60
100	100	105	129	75	28	60



**JM-89U 安装尺寸图 JM-89U Installation dimension drawing**



**JM-89U**

**JM-89U 安装尺寸表 (mm) JM-89U Installation size (mm)**

Size	d1	d3	L1K	L3
14.0	14.0	24.0	35.0	25.0
16.0	16.0	26.0	35.0	25.0
18.0	18.0	32.0	37.5	25.5
20.0	20.0	34.0	37.5	25.5
22.0	22.0	36.0	37.5	25.5
24.0	24.0	38.0	40.0	28.0
25.0	25.0	39.0	40.0	28.0
28.0	28.0	42.0	42.5	30.5
30.0	30.0	44.0	42.5	30.5
32.0	32.0	46.0	42.5	30.5
33.0	33.0	47.0	42.5	30.5
35.0	35.0	49.0	42.5	30.5
38.0	38.0	54.0	45.0	32.0
40.0	40.0	56.0	45.0	32.0
43.0	43.0	59.0	45.0	32.0
45.0	45.0	61.0	45.0	32.0
48.0	48.0	64.0	45.0	32.0
50.0	50.0	66.0	47.5	34.0
53.0	53.0	69.0	47.5	34.0
55.0	55.0	71.0	47.5	34.0
58.0	58.0	78.0	52.5	39.0
60.0	60.0	80.0	52.5	39.0
63.0	63.0	83.0	52.5	39.0
65.0	65.0	85.0	52.5	39.0
68.0	68.0	88.0	52.5	39.0
70.0	70.0	90.0	60.0	45.5
75.0	75.0	95.0	60.0	45.5
80.0	80.0	104.0	60.0	45.0
85.0	85.0	109.0	60.0	45.0
90.0	90.0	114.0	65.0	50.0
95.0	95.0	119.0	65.0	50.0
100.0	100.0	124.0	65.0	50.0

## JM-45

### 简介 Profile

推荐硬质端面材料组合，通用的“O”形圈配置和“V”形圈互换，适合于含有少量颗粒的中低黏度流体和较强腐蚀性流体。

Hard end surface material combination is recommended, the general duty "O" ring configuration and "V" ring exchange, suitable for low viscosity fluid containing small particles and strong corrosive fluid.



### 技术参数

密封腔温度:  $-50^{\circ}\text{C}+200^{\circ}\text{C}$

线速度:  $<25\text{m/s}$  或  $<5000\text{r/min}$

密封腔压力:  $\leq 4.5\text{MPa}$

轴径尺寸: 15-200 mm

### Operating Limits

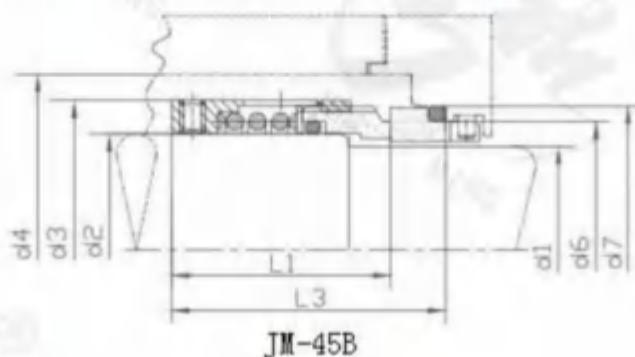
Temperature:  $-50^{\circ}\text{C}+200^{\circ}\text{C}$

Speed:  $<25\text{m/s}$  or  $<5000\text{r/min}$

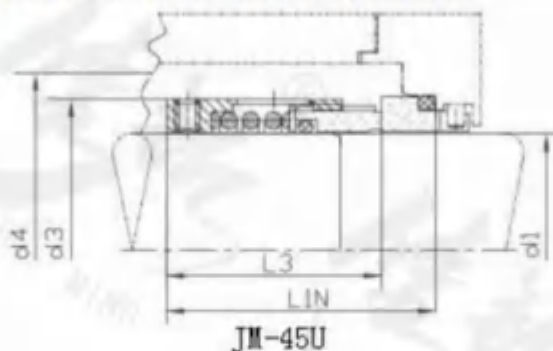
Pressure:  $\leq 4.5\text{MPa}$

Standard Size: 15-200 mm

### JM-45B 安装尺寸图 JM-45B Installation dimension drawing



### JM-45U 安装尺寸图 JM-45U Installation dimension drawing



**JM-45B 安装尺寸表 (mm)      JM-45B Installation size (mm)**

Size	41	42	43	44	L1	L3
14	14	18	32	34	40	50
16	16	20	34	38	40	50
18	18	22	36	38	40.5	52.5
20	20	24	38	40	43	55
22	22	26	40	42	43	55
24	24	28	42	44	43	55
25	25	30	44	46	43	55
28	28	33	47	49	50.5	62.5
30	30	35	49	51	50.5	62.5
32	32	38	54	58	48	60
33	33	38	54	58	48	60
35	35	40	56	60	48	60
38	38	43	59	63	54.5	67.5
40	40	45	61	65	54.5	67.5
43	43	48	64	68	54.5	67.5
45	45	50	66	70	52	65
48	48	53	69	73	62	75
50	50	55	71	75	66.5	80
53	53	58	78	83	61.5	75
55	55	60	80	85	61.5	75
58	58	63	83	88	66.5	80
60	60	65	85	90	76.5	90
63	63	68	88	93	76.5	90
65	65	70	90	95	69	82.5
70	70	75	99	104	75.5	90
75	75	80	104	109	85.5	100
80	80	85	109	114	85	100
85	85	90	114	119	85	100
90	90	95	119	124	85	100
95	95	100	124	129	85	100
100	100	105	129	134	85	100



**JM-45U 安装尺寸表 (mm)      JM-45U Installation size (mm)**

Size	d1	d3	d4	L1W	L3
14	14	24	26	40	30
16	16	26	28	40	30
18	18	32	34	45	33
20	20	34	36	45	33
22	22	36	38	45	33
24	24	38	40	50	38
25	25	39	41	50	38
28	28	42	44	50	38
30	30	44	46	50	38
32	32	46	48	55	43
33	33	47	49	55	43
35	35	49	51	55	43
38	38	54	58	55	42
40	40	56	60	55	42
43	43	59	63	60	47
45	45	61	65	60	47
48	48	64	68	60	47
50	50	66	70	60	46.5
53	53	69	73	70	56.5
55	55	71	75	70	56.5
58	58	78	83	70	56.5
60	60	80	85	70	56.5
63	63	83	88	70	56.5
65	65	85	90	80	66.5
68	68	88	93	80	66.5
70	70	90	99	80	65.5
75	75	95	104	80	65.5
80	80	104	109	90	75
85	85	109	114	90	75
90	90	114	119	90	75
95	95	119	124	90	75
100	100	124	129	90	75

## JM-65

### 概述:

旋转型波纹管，适用于高温环境，JM-65 系列密封优异的动态性能和广泛的环境适应能力源于先进的焊接波纹管技术。45°波形设计降低了应力峰值，同时分解内孔焊菇应力，防止出现早期失效。并使应力分布更合理、弹性更好，从而保证密封良好的追随性。



### Summary:

Rotary bellows suitable for high temperature environments. The excellent dynamic performance and extensive environmental adaptability of JM-65 series of seals are derived from advanced welded bellows technology. The 45° waveform design reduces stress peaks, and at the same time breaks down the stress of the inner hole welding mushroom to prevent early failure. And make the stress distribution more reasonable and better elasticity, so as to ensure good followability of the seal.

### 特点:

标准化设计	符合 DIN24960 及 GB6556
波纹管密封	动态性能好，环境适应能力强
柔性石墨密封圈	仅作为静密封，简单可靠
紧定螺钉定位	安装简单，调整方便
耐蚀设计	具有专用的耐腐蚀型密封

### Characteristic:

Standardized design:	Comply with DIN24960 and GB6556
Bellow seal:	Good dynamic performance and strong environmental adaptability
Flexible graphite seal ring:	Only as a static seal, simple and reliable
Set screw positioning:	Simple installation and easy adjustment
Corrosion-resistant design:	With dedicated corrosion-resistant seal

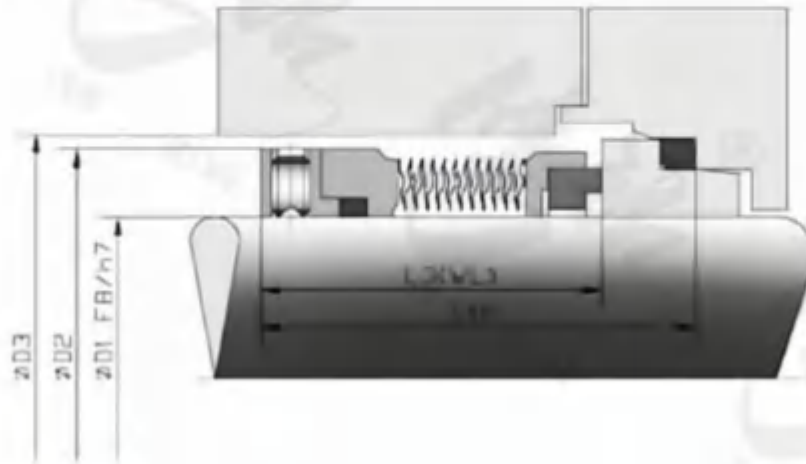
### 技术参数:

密封腔温度:  $-40^{\circ}\text{C}+260^{\circ}\text{C}$   
密封腔压力:  $-0.1-4.2\text{MPa}$   
轴径尺寸: 25-100mm, 超大尺寸可订制  
速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+260^{\circ}\text{C}$   
Pressure:  $-0.1-4.2\text{MPa}$   
Standard Size: 25-100mm, large size can be customized  
Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$

安装尺寸图 Installation dimension drawing



安装尺寸表 (mm) Installation size (mm)

Size	D1	D2	D3	L1K	L3
25	25	43	46	51	39
28	28	46	49	53	41
30	30	48	51	53	41
32	32	50	53	53	41
33	33	51	54	53	41
35	35	53	56	53	41
38	38	56	59	54	41
40	40	58	62	54	41
43	43	62	65	54	41
45	45	64	67	54	41
48	48	67	70	54	41
50	50	69	72	56.5	43
53	53	71	75	56.5	43
55	55	74	78	56.5	43
58	58	76	83	56.5	43
60	60	79	85	56.5	43
63	63	82	88	57.5	44
65	65	84	90	59.5	46
68	68	87	93	59.5	46
70	70	90	95	60.5	46
75	75	97	104	64.5	50
80	80	103	109	65	50
85	85	108	114	65	50
90	90	113	119	65	50
95	95	118	124	65	50
100	100	124	129	65	50



## **JBK-B-1**

### **简介 Profile**

符合 JM 系列安装尺寸，专为高低温介质而设计的典型密封，法兰、平密封垫片、螺钉连接结构，全部采用耐高低温材料制作，适用于各行业，尤其适用于石油炼制和化工行业的高温介质输送。

In line with the typical seal of JM series installation size. Flange, flat sealing gasket, screw connection structure is specially designed for high and low temperature medium. All made of high and low temperature resistance materials, suitable for various industries, especially for petroleum refining and high temperature medium in the chemical industry transportation.

### **设计特点:**

模块化设计:	组成密封的功能部件符合 JM 系列安装尺寸
多弹簧布置:	补偿性好，端面载荷均匀
“O”形圈结构:	典型传统辅助密封，简单实用
整体静止环端面:	优化端面设计，端面变形小
法兰、螺钉连接:	稳固可靠
平面密封垫片:	材料性能优良，密封可靠性高

### **Characteristic:**

Modular design:	the seal fits the JM series installation size
Multi-spring layout:	good compensation, uniform end surface load
The "O" ring structure:	a typical traditional auxiliary seal, simple and practical
Overall static ring end surface:	optimize the end surface design, small end surface deformation
Flange and screw connection:	stable and reliable
Planar sealing gasket:	excellent material performance, high sealing reliability

### **技术参数**

密封腔温度:  $-75^{\circ}\text{C}+400^{\circ}\text{C}$

线速度:  $<30\text{m/s}$  ( $<6000\text{rpm}$ )

密封腔压力:  $\leq 2.5\text{MPa}$ , 避免在负压或真空状态下工作

轴径尺寸: 30-100 mm

### **Operating Limits**

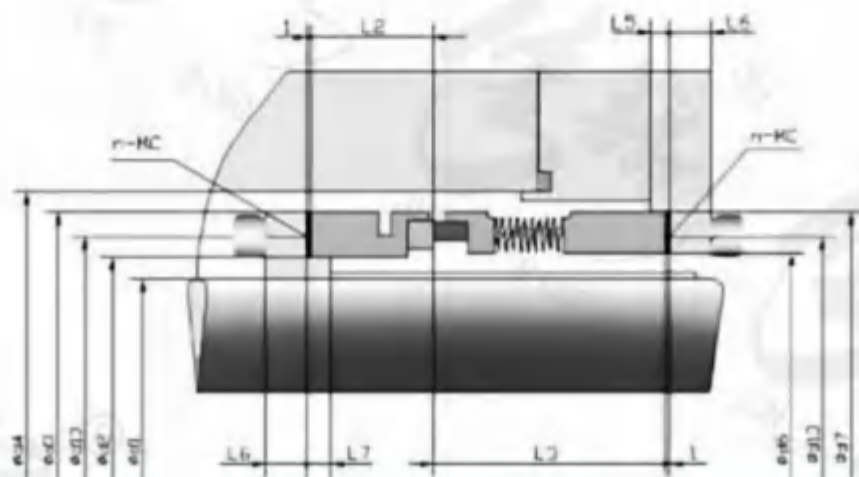
Temperature:  $-75^{\circ}\text{C}+400^{\circ}\text{C}$

Speed:  $<30\text{m/s}$  ( $<6000\text{rpm}$ )

Pressure:  $\leq 2.5\text{MPa}$ , Avoid working under negative pressure or vacuum conditions

Standard Size: 30-100 mm

安装尺寸图 Installation dimension drawing



安装尺寸表 (mm) Installation size (mm)

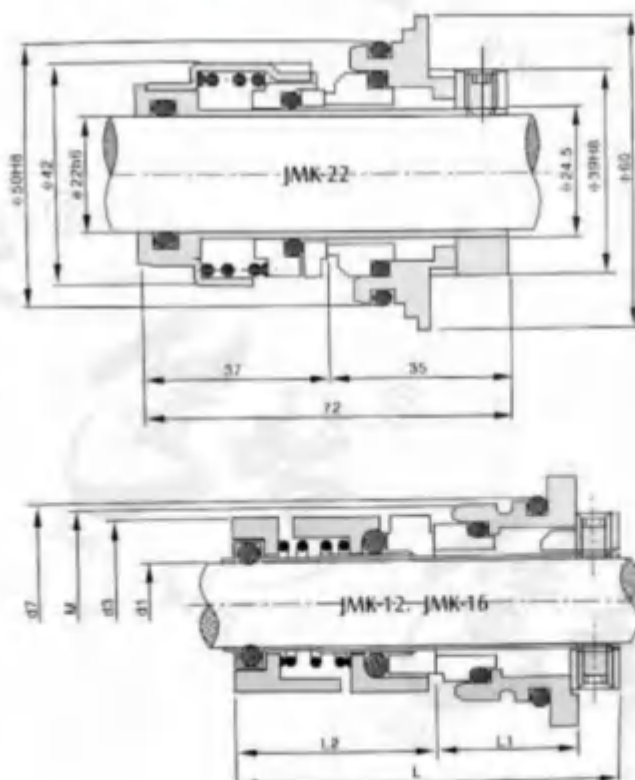
Size	d1	d2	d3	d4	d5	d7	d13	L2	n	MC	L3	L5	L6	L7
30	30	32.5	47	49	32.2	47	40	18	8	M4	30	5	6	5
35	35	36	51	53	35.7	51	44	20	8	M4	30	5	6	5
40	40	41.5	62	65	41.2	62	52	25	6	M6	40	5	8	6
45	45	46.5	67	70	46.2	67	56	25	6	M6	45 (52)	5	8	6
50	50	51.5	72	75	51.2	72	62	25	6	M6	45 (52)	5	8	6
55	55	56.5	78	80	56.2	78	67	30	6	M6	45 (55)	5	8	6
60	60	61	83	85	60.7	83	72	30	6	M6	45 (55)	5	8	6
65	65	66	88	90	67.5	88	76	30	6	M6	45 (55)	5	10	6
70	70	72.5	97	100	72.2	97	84	30	6	M6	50 (55)	8	10	6
75	75	77.5	98	100	77.2	98	88	30	6	M6	50	8	10	6
80	80	79.5	103	105	79.2	103	91	30	6	M6	50	8	10	6
85	85	85.5	108	110	85.2	108	97	30	6	M6	50	8	10	6
90	90	92.5	115	118	92.2	115	103	30	6	M6	50 (58)	10	10	6
95	95	97.5	121	124	97.2	121	110	30	8	M6	50	10	10	8
100	100	102.5	124	128	102.2	124	113	30	8	M6	50	10	10	8

## JM-NJK

### 简介 Profile

适用于格兰富 CR/CRN、南方泵 CDL/CDF 等其它品牌立式不锈钢多级泵。

Suitable for Grundfos CR / CRN, FCNP CDL / CDF and other brands of vertical stainless steel multipole pump.



偏差 Dev 规格 Speci	尺寸 Size		d1	d3	M	d7	L	L1	L3
			16			16			
12	12	25	M28x1.5	29	55	19	30		
16	16	30.5	M33x1.5	34	57.5	20	30.5		

适配于格兰富:CR1、3、5、10、15、20、32、45、64、90 水泵常规机封 JFQE, O 形圈式轴封(集装式)。最大温度范围:-30℃~180℃

CRN1、3、5、10、15、20、32、45、64、90 水泵常规机封 JFQV, O 形圈式轴封(集装式)。最大温度范围:-30℃~90℃

It is suitable to GRUNDFOS pumps: CR1、3、5、10、15、20、32、45、64、90 Ordinary mechanical seal of water pump, O ring type (assembly) shaft seal. Temperature:-30℃~180℃

CRN1、3、5、10、15、20、32、45、64、90 Ordinary mechanical seal of water pump, O ring type (assembly) shaft seal. Temperature:-30℃~90℃



## JM-WB2

### 简介 Profile

单端面/平衡型/任意旋向/四氟波纹管

Single seal /Balanced/Independent of direction of rotation/Tetrafluoroethylene bellows

该系列为四氟乙烯波纹管式,它采用多弹簧结构,其中 WB2 型的弹簧受四氟罩的保护。该类型机封是耐腐蚀泵中应用最广泛的一种。

This series adopts perfluoroethylene bellows. It is designed with multi-spring structure. The

spring of WB2 type is protected by a perfluoroethylene cover. This mechanical seal is one of the most commonly used seals for corrosion resistant pumps.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+120^{\circ}\text{C}$

线速度:  $\leq 10\text{m/s}$

密封腔压力:  $\leq 5\text{bar}$

轴径尺寸: 25-65 mm  
(1"2.375")

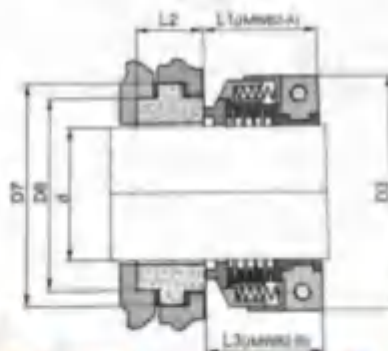
### Operating Limits

Temperature:  $-20^{\circ}\text{C}+120^{\circ}\text{C}$

Speed:  $\leq 10\text{m/s}$

Pressure:  $\leq 5\text{bar}$

Standard size: 25-65 mm  
(1"2.375")



Size	d/inches	D1	D2	D3	L1	L2	L3
1,000	1,000	60	42.86	54	42	45	17.5
1,125	1,125	67	46.03	60	42	45	27.0
1,25	1,25	69	50.80	65	42	45	27.0
1,375	1,375	72	53.98	68	42	45	27.0
1,5	1,5	76	57.15	71	42	45	27.0
1,625	1,625	80	63.50	78	42	45	27.0
1,75	1,75	84	66.68	81	44	46	27.0
1,875	1,875	86	69.85	84	44	46	27.0
2	2,000	90	73.03	87	46	46	27.0
2,125	2,125	95	79.38	97	46	46	33.5
2,25	2,25	98	82.55	100	46	46	33.5
2,375	2,375	100	85.73	103	46	46	33.5
25	25	60	47.0	60	42	45	27
30	30	67	53.0	67	42	45	27
32	32	69	50.7	64	42	45	27
35	35	72	57.0	70	42	45	27
40	40	78	62.0	76	42	45	26
45	45	84	67.0	82	44	46	27
50	50	88	72.0	86	46	46	27
55	55	95	77.0	90	46	46	27
60	60	100	82.0	95	46	46	27
65	65	105	87.0	100	46	46	27

## JM-M74D

### 简介 Profile

双端面/非平衡型/任意旋向/多弹簧结构

Double seal/Unbalanced/Independent of direction of rotation/Multiple springs

具有与“M7N”系列同样设计性能，除驱动座的安装长度外，其它安装尺寸( $d < 100\text{mm}$ )符合 DIN 24960 标准。

With the same design performance as the "M7N" series, the other installation dimensions ( $d < 100\text{mm}$ ) except for the installation length of the drive seat meet the DIN 24960 standard.



### 技术参数

密封腔温度:  $-20^{\circ}\text{C} + 220^{\circ}\text{C}$

线速度:  $\leq 20\text{m/s}$

密封腔压力:  $\leq 16\text{bar}$

轴径尺寸: 18-100 mm

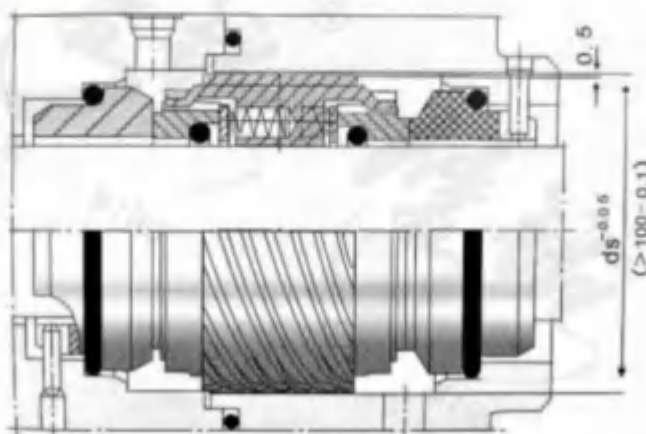
### Operating Limits

Temperature:  $-20^{\circ}\text{C} + 220^{\circ}\text{C}$

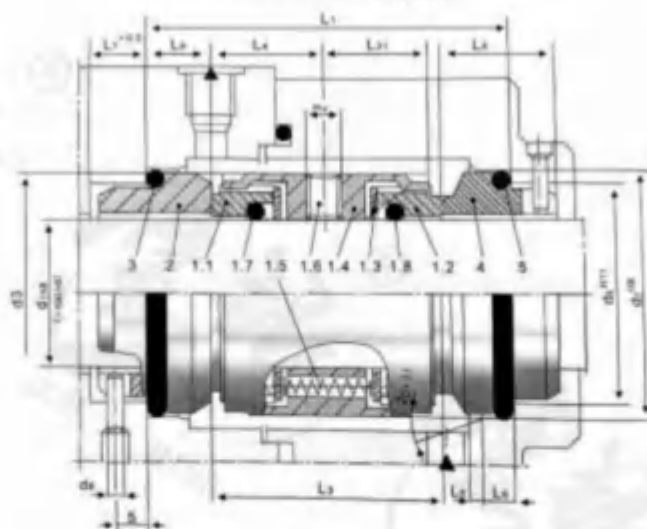
Speed:  $\leq 20\text{m/s}$

Pressure:  $\leq 16\text{bar}$

Standard Size: 18-100 mm



M74F-D 带螺纹泵



33	43	53	63	73	83	93	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
20	35	29.0	35.0	3	4	—	61.0	3	19.0	2.0	8	8	19.5	11.5	17	MS	3.5
25	40	34.0	40.0	3	4	45	61.0	3	19.0	2.0	8	8	19.5	11.5	17	MS	3.5
28	45	37.0	43.0	3	4	47	62.0	3	19.5	2.0	8	8	19.5	11.5	17.5	MS	3.5
30	45	38.0	45.0	3	4	49	62.0	3	19.5	2.0	8	8	19.5	11.5	17.5	MS	3.5
32	47	42.0	48.0	3	4	51	62.0	3	19.5	2.0	8	8	19.5	11.5	17.5	MS	3.5
33	48	42.0	48.0	3	4	51	62.0	3	19.5	2.0	8	8	19.5	11.5	17.5	MS	3.5
35	50	44.0	50.0	3	4	54	62.0	3	19.5	2.0	8	8	19.5	11.5	17.5	MS	3.5
38	55	49.0	56.0	4	4	59	69.0	4	20.5	2.0	6	8	22.0	14.0	18.5	MS	3.5
40	57	51.0	58.0	4	4	61	70.0	4	21.0	2.0	6	8	22.0	14.0	19.0	MS	3.5
43	60	54.0	61.0	4	4	65	70.0	4	21.0	2.0	6	8	22.0	14.0	19.0	MS	3.5
45	62	56.0	63.0	4	4	66	70.0	4	21.0	2.0	6	8	22.0	14.0	19.0	MS	3.5
48	65	59.0	66.0	4	4	69	70.0	4	21.0	2.0	6	8	22.0	14.0	19.0	MS	3.5
50	67	62.0	70.0	4	4	71	75.0	4	21.5	2.5	6	8	23.0	15.0	19.5	MS	3.5
53	70	65.0	73.0	4	4	75	73.0	4	21.5	2.5	6	8	23.0	15.0	19.5	MS	3.5
55	72	67.0	75.0	4	4	76	75.0	4	21.5	2.5	6	8	23.0	15.0	19.5	MS	3.5
58	79	70.0	78.0	4	5	83	86.0	5	28.0	2.5	6	8	23.0	15.0	23.2	MS	3.5
60	81	72.0	80.0	4	5	85	86.0	5	28.0	2.5	6	8	23.0	15.0	23.3	MS	3.5
63	84	75.0	83.0	4	5	88	85.0	5	27.5	2.5	6	8	23.0	15.0	24.3	MS	3.5
65	86	77.0	85.0	4	5	89	85.0	5	27.5	2.5	6	8	23.0	15.0	24.3	MS	3.5
68	89	81.0	90.0	4	5	93	91.0	5	27.5	2.5	7	8	24.0	15.0	24.3	MS	3.5
70	91	83.0	92.0	4	5	95	92.0	5	28.0	2.5	7	8	24.0	15.0	25.3	MS	3.5
75	99	88.0	97.0	4	5	105	92.0	5	28.0	2.5	7	8	24.0	15.0	25.3	MS	3.5
80	104	95.0	105.0	4	5	109	92.5	5	28.0	3.0	7	8	24.2	15.2	25.5	MS	3.5
85	109	100.0	110.0	4	5	114	92.5	5	28.0	3.0	7	8	24.2	15.2	25.0	MS	3.5
90	114	105.0	115.0	4	5	119	90.5	5	28.0	3.0	7	8	24.0	15.2	25.5	MS	3.5
95	119	110.0	120.0	4	5	124	90.5	5	28.0	3.0	7	8	24.2	17.2	29.0	MS	3.5
100	124	115.0	125.0	4	5	129	106.0	5	28.0	3.0	7	8	25.2	17.2	25.0	MS	3.5
105	138	122.2	134.3	5	7	143	110.0	6	34.0	2.0	10	8	30.0	20.0	30.3	MS	3.5
110	143	128.2	140.3	5	7	148	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
115	148	136.2	148.3	5	7	153	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
120	153	136.2	150.3	5	7	158	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
125	158	142.2	154.3	5	7	163	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
130	163	146.2	158.3	5	7	168	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
135	168	152.2	164.3	5	7	173	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
140	173	156.2	168.3	5	7	178	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
145	178	161.2	173.3	5	7	183	110.0	7	35.0	2.0	10	—	30.0	20.0	31.3	MS	3.5
150	183	168.2	180.3	5	7	188	114.0	7	35.0	2.0	10	—	32.0	22.0	31.3	MS	3.5
155	191	173.2	185.3	5	7	196	127.0	7	39.5	2.0	12	—	34.0	24.0	35.3	MS	3.5
160	196	178.2	190.3	5	7	201	127.0	7	39.5	2.0	12	—	34.0	24.0	35.3	MS	3.5
165	201	183.2	195.3	5	7	206	127.0	7	39.5	2.0	12	—	34.0	24.0	35.3	MS	3.5
170	206	188.2	200.3	5	7	211	127.0	7	39.5	2.0	12	—	34.0	24.0	35.3	MS	3.5
175	211	193.2	205.3	5	7	216	127.0	7	39.5	2.0	12	—	34.0	24.0	35.3	MS	3.5
180	216	207.5	219.3	5	7	221	133.0	7	39.5	2.0	12	—	38.0	26.0	35.3	MS	3.5
185	221	212.5	224.3	5	7	226	133.0	7	39.5	2.0	12	—	38.0	26.0	35.3	MS	3.5
190	226	217.5	229.3	5	7	231	133.0	7	39.5	2.0	12	—	38.0	26.0	35.3	MS	3.5
195	231	222.5	234.3	5	7	236	133.0	7	39.5	2.0	12	—	38.0	26.0	35.3	MS	3.5
200	236	227.5	239.3	5	7	241	133.0	7	39.5	2.0	12	—	38.0	26.0	35.3	MS	3.5



## JM-H74D

### 简介 Profile

双端面/平衡型/任意旋向/多弹簧结构

Double seal / Balanced / Independent of direction of rotation / Multiple springs



### 技术参数

密封腔温度:  $-20^{\circ}\text{C}+220^{\circ}\text{C}$

线速度:  $\leq 20\text{m/s}$

密封腔压力:  $\leq 25\text{bar}$

轴径尺寸: 14-100 mm

### Operating Limits

Temperature:  $-20^{\circ}\text{C}+220^{\circ}\text{C}$

Speed:  $\leq 20\text{m/s}$

Pressure:  $\leq 25\text{bar}$

Standard Size: 14-100 mm

Size	d	d1	D3	D6	D7	d1	L6	L1	L2	L3
14	14	18	33	21	25	3	18	53	10	17.5
16	16	20	35	23	27	3	18	53.0	10.0	17.5
18	18	22	37	27	33	3	20	53.0	11.5	19.5
20	20	24	39	29	35	3	20	53.0	11.5	19.5
22	22	26	41	31	37	3	20	53.0	11.5	19.5
24	24	28	43	33	39	3	20	54.0	11.5	19.5
25	25	30	45	34	40	3	20	54.0	11.5	19.5
28	28	33	48	37	43	3	20	54.0	11.5	19.5
30	30	35	50	39	45	3	20	54.0	11.5	19.5
32	32	38	55	42	48	3	20	56.0	11.5	19.5
33	33	38	55	42	48	3	20	56.0	11.5	19.5
35	35	40	57	44	50	3	20	57.0	11.5	19.5
38	38	43	60	49	56	4	23	57.0	14.0	22.0
40	40	45	62	51	58	4	23	57.0	14.0	22.0
43	43	48	65	54	61	4	23	57.0	14.0	22.0
45	45	50	67	56	63	4	23	58.0	14.0	22.0
48	48	53	70	59	66	4	23	58.0	14.0	22.0
50	50	55	72	62	70	4	25	63.0	15.0	23.0
53	53	58	79	65	73	4	25	67.0	15.0	23.0
55	55	60	81	67	75	4	25	67.0	15.0	23.0
58	58	63	84	70	78	4	25	74.0	15.0	23.0
60	60	65	86	72	80	4	25	74.0	15.0	23.0
63	63	68	89	75	83	4	25	79.0	15.0	23.0
65	65	70	91	77	85	4	25	68.0	15.0	23.0
70	70	75	99	83	92	4	28	76.4	18.0	26.0
75	75	80	104	88	97	4	28	76.4	18.0	26.0
80	80	85	109	95	105	4	28	76.0	18.2	26.2
25	85	90	114	100	110	4	28	76.0	18.2	26.2
95	95	100	124	110	120	4	28	76.0	17.2	25.2
100	100	105	129	115	125	4	28	76.0	17.2	25.2

## JM 系列集装机封

### JM Series set installation seal

**型号: JM-8(J)系列多弹簧机械密封**  
**Model JM-8(J) Multi-Spring Mechanical Seal**

#### 概述:

JM-8(J)系列为多弹簧机械密封结构,密封的连接尺寸符合 DIN24960 和 GB65556 标准  
适用于 DIN24960 和 GB6556 的离心泵和其他旋转轴设备  
该系列密封结构紧凑、采用整体环设计、使密封具有良好的抗压、抗热变形能力,保证在高压状态下端面变形最小化。本型号产品衍生出 JM-8U(J)、JM-8UV(J)、JM-8BKC(J)等多种系列产品,分别应用不同工况条件

#### Summary:

The JM-8(J) series is a multi-spring mechanical seal structure. The seal's connection dimensions comply with DIN24960 and GB65556 standards. It is suitable for DIN24960 and GB6556 centrifugal pumps and other rotating shaft equipment. This series of seals have a compact structure and an integrated ring design, which makes the seals have good resistance to compression a heat deformation, and ensures that the end face deformation is minimized under high pressure. This model of product derived JM-8U(J), JM-8UV(J), JM-8BKC(J) and other series products, which are respectively applied under different working conditions.

#### 特点:

标准化设计	符合 DIN24960 及 GB6556
多弹簧	补偿性能好,端面载荷均匀
整体端面	符合 DIN24960 及 GB6556 的最大端面端面
复合传动	摩擦阻尼更小,传动力更均匀
紧定螺钉定位	安装简单,调整方便

#### Characteristic:

Standardized design	Comply with DIN24960 and GB6556
Multi-spring	Good compensation performance. uniform end face load
Overall end face	Meet the maximum end face of DIN24960 and GB6556
Compound transmission	Less frictional damping and more uniform transmission
Set screw positioning	Simple installation and easy adjustment

#### 技术参数:

密封腔温度:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
密封腔压力:  $\leq 5.0\text{MPa}$ , 不适合负压及抽空状态下工作  
速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

#### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
Pressure:  $\leq 5.0\text{MPa}$ , not suitable for working under negative pressure and evacuation status  
Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$



## 型号: JM-86(J)系列弹簧外置机械密封

### Model JM-86(J) Spring Externally Mounted Mechanical Seal

#### 概述:

JM-86(J)系列为多弹簧机械密封结构,密封的连接尺寸符合 DIN24960 和 GB65556 标准,适用于 DIN24960 和 GB6556 的离心泵和其他旋转轴设备。JM-86(J)密封系列可用于常规工况,如油、冷热水、化工原料、食用油、饮料等,也可用于含有一定固体颗粒或较高粘度的介质。

该系列密封采用内侧套筒式结构,可为密封环提供有形的保护同时为 O 形圈提供光滑的移动表面。经过特殊设计的密封端面可在较高压力下保持平直接触。该系列机械密封是一种高性能密封,能够适用不同行业的使用要求。



#### Summary:

The JM-86(J) series is a multi-spring mechanical seal structure. The seal's connection dimensions comply with DIN24960 and GB65556 standards. It is suitable for DIN24960 and GB6556 centrifugal pumps and other rotating shaft equipment.

JM-86(J) seal series can be used in normal working conditions, such as oil, hot and cold water, chemical raw materials, edible oil, beverages, etc., and can also be used for medium containing certain solid particles or high viscosity.

This series of seals uses an inner sleeve structure to provide tangible protection for the seal ring and provide a smooth moving surface for the O-ring. Specially designed sealing end faces can maintain straight contact under high pressure. This series of mechanical seal is a high-performance seal that can apply to the requirements of different industries.

#### 特点:

标准化设计	符合 DIN24960 及 GB65556
多弹簧	补偿性能好, 端面载荷均匀
整体端面	符合 DIN24960 及 GB6556 的最大端面端面
复合传动	摩擦阻尼更小, 传动力更均匀
紧定螺钉定位	安装简单, 调整方便

#### Characteristic:

Standardized design	Comply with DIN24960 and GB65556
Multiple springs	Good compensation performance, uniform end face load
Overall end face	Maximum end face according to DIN24960 and GB6556
Compound transmission	Less frictional damping and more uniform transmission
Set screw positioning	Simple installation and easy adjustment

#### 技术参数:

密封腔温度:  $-30^{\circ}\text{C}+204^{\circ}\text{C}$   
密封腔压力:  $\leq 2.5\text{MPa}$   
(可承受反压至  $0.5\text{MPa}$ )  
轴径尺寸: 18-100mm  
速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

#### Operating parameter :

Temperature:  $-30^{\circ}\text{C}+204^{\circ}\text{C}$   
Pressure:  $\leq 2.5\text{MPa}$   
(can withstand back pressure to  $0.5\text{MPa}$ )  
Standard Size: 18-100 mm  
Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$



## 型号: JM-89(J)系列机械密封

Model: JM-89(J) Mechanical Seal

### 概述:

JM-89(J)系列机械密封属于 JM-8(J)系列的派生系列。密封的连接尺寸符合 DIN24960 和 GB65556 标准,适用于 DIN24960 和 GB65556 的离心泵和其他旋转轴设备。该系列密封结构紧凑,采用整体旋转端面与整体石墨静环配对结构,消除温度梯度影响,实现低泄漏排放。JM-89(J)系列密封是专为高粘度油类介质设计的形式,适用于润滑油、冷冻机油、透平油等各种油类介质。

### Summary:

The JM-89(J) series of mechanical seal belongs to the derivative series of the JM-8(J) series. The seal's connection size meets DIN24960 and GB65556 standards, and is suitable for centrifugal pumps and other rotating shaft equipment according to DIN24960 and GB65556.

This series of sealing structure is compact. It adopts the matching structure of the whole rotating end face and the whole graphite static ring to eliminate the effect of temperature gradient and achieve low leakage emissions.

JM-89(J) series of seal is a type specially designed for high viscosity oil medium, suitable for various oil medium such as lubricating oil, refrigerator oil, turbine oil, etc.



### 特点:

标准化设计	符合 DIN24960 及 GB65556 标准
多弹簧	补偿性能好, 端面载荷均匀
整体端面	优化端面设计, 端面变形小
紧定螺钉定位	安装简单, 调整方便

### Characteristic:

Standardized design	Meets DIN24960 and GB65556 standards
Multiple springs	good compensation, uniform end face load
Overall end face	Optimized end face design. small end face deformation
Set screw positioning	simple installation and easy adjustment

### 技术参数:

密封腔温度:  $-30^{\circ}\text{C}+180^{\circ}\text{C}$

密封腔压力:  $\leq 4.0\text{MPa}$ , 避免在负压及真空状态下工作

轴径尺寸: 14-100mm

速度:  $\leq 25\text{m/s}$

### Operating parameter:

Temperature:  $-30^{\circ}\text{C}+180^{\circ}\text{C}$

Pressure:  $\leq 4.0\text{MPa}$ , avoid working under negative pressure and vacuum status

Standard Size: 14-100mm

Speed:  $\leq 25\text{m/s}$

## 型号: JM-45(J)系列单弹簧机械密封 Model JM-45(J)Single Spring Mechanical Seal

### 概述:

JM-45(J)系列为单弹簧机械密封结构, 该系列密封具有良好的强抗腐蚀性能。该系列密封的连接尺寸符合 DIN24960 和 GB65556 标准。  
适用于 DIN24960 和 GB6556 的离心泵和其他旋转轴设备。

### Summary:

The JM-45(J) series is a single spring mechanical sealing structure, which has good strong corrosion resistance. The series of seals is connected in accordance with DIN24960 and GB65556 standards. For centrifugal pumps and other rotary shaft equipment for DIN24960 and GB6556.



### 特点:

标准化设计	符合 DIN24960 及 GB65556
单弹簧	结构简单, 环境适应能力强
紧定螺钉定位	简单可靠, 安装方便
防腐设计	具有专用的耐蚀型密封

### Characteristic:

Standardized design	Comply with DIN24960 and GB65556
Single spring	Simple structure and strong environmental adaptability
Set screw positioning	Simple and reliable, easy to install
Corrosion-resistant design	With dedicated corrosion-resistant seal

### 技术参数:

密封腔温度:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
密封腔压力:  $\leq 4.0\text{MPa}$ , 不适合负压及抽空状态下工作  
速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
Pressure:  $\leq 4.0\text{MPa}$ , not suitable for working under negative pressure and environment status  
Standard Size: 14-100mm  
Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$

## 型号: JM-550 系列重型渣浆型机械密封 Model: JM-550 Heavy-Duty Slurry Mechanical Seal

### 概述:

专为浆料配置的专用重型密封,采用静止性结构,有效降低料浆介质对密封表面的磨蚀,弹簧外置结构,保护弹性元件,不受料浆介质的影响,采用浮动动环结构,消除泵体振动对密封的损坏。典型应用在电力行业中的烟气脱硫装置中

### Summary:

The special heavy-duty seal specially configured for the slurry uses a static structure to effectively reduce the abrasion of the sealing surface by the slurry medium. The external structure of the spring protects the elastic components from the influence of the slurry medium. Eliminate the damage to the seal due to pump body vibration. Typical applications are in flue gas desulfurization plants in the power industry.



### 特点:

静止式端面结构

弹簧外置

优异的浮动型

集装箱式设计

有效地降低料浆介质对密封表面的磨蚀

不受料浆介质的影响

浮动动环消除泵体震动对密封的损坏

安装方便快捷

### Characteristic:

Static end face structure

External spring

Excellent floatability

Cartridge design

Effectively reduce the abrasion of the material to the sealing surface

Not affected by the material

Floating moving ring eliminates seal damage caused by pump body vibration

Easy and fast installation

### 技术参数:

密封腔温度:  $-30^{\circ}\text{C}+80^{\circ}\text{C}$

密封腔压力:  $\leq 1.6\text{MPa}$

速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

### Operating parameter:

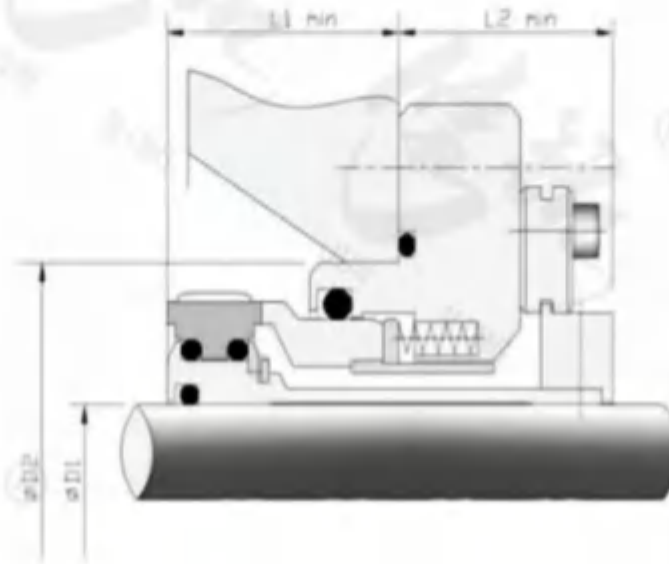
Temperature:  $-30^{\circ}\text{C}+80^{\circ}\text{C}$

Pressure:  $\leq 1.6\text{MPa}$

Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$



安装尺寸图 Installation dimension drawing



安装尺寸表 (mm) Installation size (mm)

Size	D1	D2	L1	L2	L3
45	22-28	70	45	90	105
50	28-32	85	50	90	108
60	32-40	95	50	90	108
70	40-50	105	50	90	108
80	50-60	115	52	90	108
90	60-70	130	55	90	108
100	70-80	140	55	93	113
110	80-90	155	60	93	115
125	90-100	165	60	116	138
130	100-110	175	60	116	138
135	110-115	190	62	116	138
140	115-120	200	62	116	138
145	120-125	210	62	116	138
150	125-130	210	62	116	141
160	130-140	220	65	116	141
170	140-150	230	65	116	141
180	150-160	240	65	116	141
190	160-170	250	65	116	141
200	170-180	260	65	116	141
210	180-190	270	65	134	159
220	190-200	285	65	134	159

## 型号: JM-K300 系列外置多弹簧集装式密封

### Model JM-K300 Multi-Spring Mounted Externally Cartridge Seal

#### 概述:

多弹簧外置式多弹簧集装式机械密封。安装尺寸符合 ANSI 及 DIN 工艺泵标准。符合欧美等英寸制标准密封系列。动环端面优化设计, 受力可靠, 稳定, 材料可选范围广, 适用于电力、冶金、水处理、化工等行业领域

#### Summary:

Multi-spring external multi-spring cartridge mechanical seal. Installation dimensions comply with ANSI and DIN process pump standards. Comply the European and American inch size standard seal series. Optimized design of the end face of the moving ring, reliable and stable force, wide range of material selection, suitable for power metallurgy, water treatment, chemical industry and other industries.



#### 技术参数:

密封腔温度:  $-30^{\circ}\text{C}+180^{\circ}\text{C}$

密封腔压力:  $\leq 2.5\text{MPa}$

轴径尺寸: 公制 24-100mm

英制 1"-4" 超大尺寸可订制

速度:  $\leq 25\text{m/s}$  ( $< 5000\text{rpm}$ )

#### Operating parameter:

Temperature:  $-30^{\circ}\text{C}+180^{\circ}\text{C}$

Pressure:  $\leq 2.5\text{MPa}$

Standard Size: 24-100mm

1"-4" inch, Superlarge size is customizable

Speed:  $\leq 25\text{m/s}$  ( $< 5000\text{rpm}$ )

#### 特点:

集装式设计

消除人为安装误差, 简单操作

标准化设计

安装尺寸符合 ANSI 及 DIN 工艺泵标准, 同时亦符合欧美等英寸制标准密封系列。具有很强的通用性

独特传动设计

快速定位销钉设计, 使传动更简易

耐反压设计

反向平衡型结构设计, 可以承受一定的瞬间反压, 防止意外失效。

设计优化

端面设计运用有限元力学分析, 并通过大量实验验证。机封工作时端面接触理想。可实现密封端面低排放量要求

平衡型设计

受腔压影响较小, 适用压力范围广

外置多弹簧

补偿性好, 端面载荷均匀, 减少黏附和阻塞

**Characteristic:**

Cartridge design:eliminates man-made installation errors and simple operation.

Standard design:The installation dimensions comply with ANSI and DIN process pump standards,  
and also comply with European and American inch size standard seal series.  
Has a strong versatility.

Unique transmission design:Quick positioning pin design makes transmission easier.

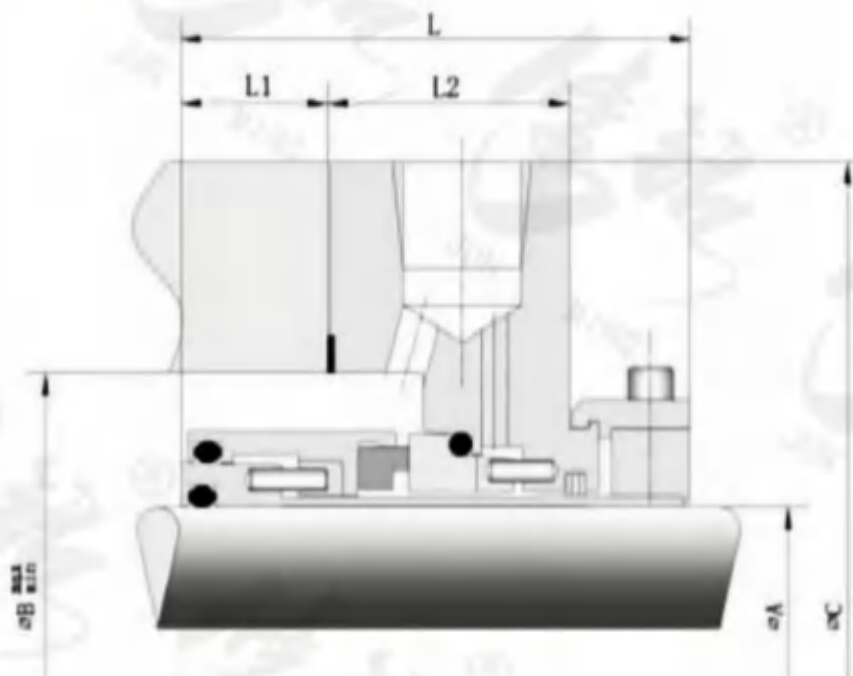
Back pressure resistant design:The reverse balanced structure design can withstand a certain  
momentary back pressure to prevent accidental failure.

Design optimization:The end face design uses finite element mechanical analysis and has been  
verified by a large number of experiments. The end contact is ideal when the  
mechanical seal is working. Achieve low emission requirements for sealed end  
faces.

Balanced design:less affected by cavity pressure, wide applicable pressure range.

External multiple springs:have good compensation. uniform end-face load, and reduce adhesion  
and blocking.

**安装尺寸图**    Installation dimension drawing





安装尺寸表 (mm)      Installation size (mm)

Size	Width	Depth	Height	C	Depth	L	U	W	H
24	—	42.0	49.0	102.0	72	61.5	19.0	25.0	14
25	—	43.5	49.0	102.0	72	61.5	19.0	25.0	14
—	1.000	44.5	49.0	102.0	72	61.5	19.0	25.0	14
28	—	46.0	52.0	105.0	75	61.5	19.0	25.0	14
—	1.125	47.6	52.0	105.0	75	61.5	19.0	25.0	14
30	—	48.5	57.0	108.0	78	61.5	19.0	25.0	14
32	1.250	51.0	59.0	112.0	82	61.5	19.0	25.0	14
33	—	51.0	59.0	112.0	82	61.5	19.0	25.0	14
35	1.375	54.0	62.0	112.0	85	61.5	19.0	25.0	14
38	1.500	57.0	66.0	124.0	90	61.5	19.0	25.0	14
40	—	60.5	70.0	127.0	94	64.5	20.5	26.5	14
42	1.625	60.5	70.0	127.0	94	64.5	20.5	26.5	14
43	—	63.5	74.0	135.0	98	64.5	20.5	26.5	14
45	1.750	63.5	74.0	135.0	98	64.5	20.5	26.5	14
48	1.875	67.0	74.0	138.0	100	64.5	20.5	26.5	14
50	2.000	70.0	78.0	142.0	102	64.5	20.5	26.5	14
53	2.125	74.0	84.5	150.0	112	67.5	21.0	29.0	17.5
55	—	74.0	84.5	150.0	112	67.5	21.0	29.0	17.5
58	2.250	77.0	88.5	165.0	116	67.5	21.0	29.0	17.5
60	2.375	80.0	92.5	165.0	120	67.5	21.0	29.0	17.5
63	2.500	86.0	99.5	172.0	127	72	20.5	32.0	17.5
65	—	86.0	99.5	172.0	127	72	20.5	32.0	17.5
68	2.625	90.0	104.5	175.0	132	78	27.5	32.0	17.5
70	2.750	92.5	104.5	175.0	132	78	27.5	32.0	17.5
—	2.875	98.0	108.5	188.0	135	79.5	27.0	33.5	17.5
75	3.000	102.0	115.0	192.0	145	79.5	27.0	33.5	20
80	3.125	105.0	115.0	192.0	145	79.5	27.0	33.5	20
—	3.250	107.0	118.0	196.0	148	79.5	27.0	33.5	20
85	3.375	112.0	125.0	205.0	155	79.5	27.0	33.5	20
—	3.500	115.0	128.0	208.0	158	81.5	27.5	35.0	20
90	3.625	118.0	132.0	215.0	162	81.5	27.5	35.0	20
95	3.625	121.0	142.0	218.0	172	81.5	27.5	35.0	20
—	3.875	124.0	146.0	225.0	176	81.5	27.5	35.0	20
100	4.000	127.0	146.0	225.0	176	81.5	27.5	35.0	20

## 型号: JM-156 系列机械密封

Model: JM-156 Series Mechanical Seal

### 简介 Profile

为浆液类介质配置的专用重型密封,辅助密封采用橡胶隔膜与“O”圈组合式结构,适用于密封污水,渣浆等含有固体颗粒或纤维状杂质的介质,满足电厂、石化、油田、冶炼等行业的要求。

Special heavy-duty seal configured for serous media,Auxiliary seal with rubber diaphragm and "O" ring combination structure,Suitable for sealed sewage,Medium containing solid particles or fibrous impurities,Meet the requirements of power plant, petrochemical, oil field, smelting and other industries.



### 特点:

- 整体硬端面: 优化整体密封环设计, 硬质材料耐磨蚀, 最大限度与介质接触, 优良散热效果
- 平衡型设计: 受腔压影响较小, 耐压能力高, 适用范围广
- 外置多点片弹簧: 轴向补偿范围宽, 端面载荷均匀, 无阻塞和黏附
- 组合式辅助密封: 橡胶隔膜与“O”形圈组合, 防止颗粒阻滞, 滑移灵活, 耐压更高
- 集装式设计: 保证密封工作状态的准确性, 安装方便快捷, 消除人为安装误差
- 耐反压设计: 独特的结构设计, 可以承受瞬间反压, 防止意外失效

### Characteristic:

- Overall hard end surface: Optimize the overall seal ring design, hard material abrasion resistance, maximum and medium Contact, excellent heat dissipation effect
- Balanced design: less affected by cavity pressure, high pressure resistance, a wide range of application
- External multi-point sheet spring: wide axial compensation range, uniform end surface load, no obstruction and adhesion
- Combined auxiliary seal: rubber diaphragm and "O" ring combination, to prevent particle block, flexible slip, and higher pressure resistance
- Assembly design: ensure the accuracy of sealing working state, convenient and fast installation, eliminate human installation error
- Backpressure resistance design: unique structural design, can withstand instantaneous backpressure, to prevent accidental failure

### 性能参数:

密封腔温度:  $-30^{\circ}\text{C}+220^{\circ}\text{C}$

密封腔压力:  $0\sim 2.5\text{MPa}$

速度:  $25\text{m/s}$

轴径尺寸: 公制  $45\sim 200\text{mm}$ ;

英制  $1.75\sim 8\text{''}$

### Operating Limits:

Temperature:  $-30^{\circ}\text{C}+220^{\circ}\text{C}$

Pressure :  $0\sim 2.5\text{MPa}$

Speed :  $25\text{m/s}$

Standard size : Metric system  $45\sim 200\text{mm}$ ;

British system  $1.75\sim 8\text{''}$

## 型号: JM-65(J)系列旋转型高温波纹管机械密封

### Model JM-65(J) High Temperature Rotary Bellows Mechanical Seal

#### 概述:

旋转型波纹管, 适用于高温环境, JM-65(J)系列密封优异的动态性能和广泛的环境适应能力源于先进的焊接波纹管技术。45° 波形的设计降低了应力峰值, 同时分解内孔焊菇应力, 防止出现早期失效。并使应力分布更合理、弹性更好, 从而保证密封良好的追随性

#### Summary:

Rotary bellows suitable for high temperature environments. The excellent dynamic performance and extensive environmental adaptability of JM-65(J) series of seals are derived from advanced welded bellows technology. The 45° waveform design reduces stress peaks, and at the same time breaks down the stress of the inner hole welding mushroom to prevent early failure. And make the stress distribution more reasonable and better elasticity, so as to ensure good followability of the seal.



#### 特点:

标准化设计	符合 DIN24960 及 GB6556
波纹管密封	动态性能好, 环境适应能力强
柔性石墨密封圈	仅作为静密封, 简单可靠
紧定螺钉定位	安装简单, 调整方便
耐蚀设计	具有专用的耐腐蚀型密封

#### Characteristic:

Standardized design:	Comply with DIN24960 and GB6556
Bellow seal:	Good dynamic performance and strong environmental adaptability
Flexible graphite seal ring:	Only as a static seal, simple and reliable
Set screw positioning:	Simple installation and easy adjustment
Corrosion-resistant design:	With dedicated corrosion-resistant seal

#### 技术参数:

密封腔温度:  $-40^{\circ}\text{C}+260^{\circ}\text{C}$   
密封腔压力:  $-0.1-4.2\text{MPa}$   
轴径尺寸: 25-100mm, 超大尺寸可订制  
速度:  $\leq 25\text{m/s}$  或  $\leq 5000\text{rpm}$

#### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+260^{\circ}\text{C}$   
Pressure:  $-0.1-4.2\text{MPa}$   
Standard Size: 25-100mm, large size can be customized  
Speed:  $\leq 25\text{m/s}$  or  $\leq 5000\text{rpm}$



## 型号: JBM-B-1(J)系列焊接金属波纹管机械密封 Model JBM-B-1(J) Welded Metal Bellows Mechanical Seal

### 概述:

波纹管机械密封是以环状金属薄片组焊作为弹性元件和隔离元件,从而实现密封的部件。适用高温的焊接波纹管机械密封,多种材料配置,在异常的工况下出色的具有良好的动态性能。静止型密封结构,消除离心力对弹性元件的影响,适用于高速工况。该系列密封适用于有较大密封腔的离心泵和类似旋转设备

### Summary:

Welded bellows mechanical seal's elastic element and isolation element are made by welded ring metal thin slice. Suitable for high temperature welded bellows mechanical seals. A variety of material configurations, and excellent dynamic performance under abnormal working conditions. The static seal structure eliminates the influence of centrifugal force on the elastic element and is suitable for high-speed working conditions. This series of seals are suitable for centrifugal pumps and similar rotating equipment with large sealed chambers.



### 特点:

焊接金属波纹管密封

模块化设计

法兰螺钉联接

强制内部冷却

静止型

高温下有优越的动态性能

相同的安装空间,相同的安装方式,不同的使用性能

简单的结构保证最高的安装精度

结构简单高效

消除离心力对弹性元件影响,适合更高转速要求

### Characteristic:

Welded metal bellows seal

Modular design

Flange screw connection

Forced internal cooling

Stationary

Excellent dynamic performance at high temperatures

Same installation space, same installation method, different operational performance

Simple structure guarantees highest installation accuracy

The structure is simple and efficient

Eliminate the impact of centrifugal force on elastic components, suitable for higher speed requirements

### 技术参数:

密封腔温度:  $-75^{\circ}\text{C}$ ~ $+400^{\circ}\text{C}$

密封腔压力:  $-0.1$ ~ $2.0\text{MPa}$

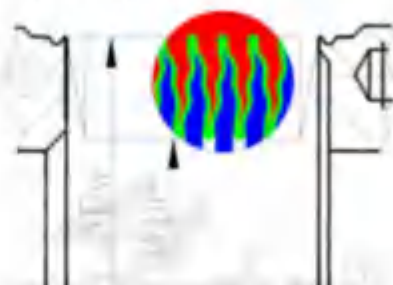
速度:  $\leq 50\text{m/s}$  或  $\leq 10000\text{rpm}$

### Operating parameter:

Temperature:  $-75^{\circ}\text{C}$ ~ $+400^{\circ}\text{C}$

Pressure:  $-0.1$ ~ $2.0\text{MPa}$

Speed:  $\leq 50\text{m/s}$  or  $\leq 10000\text{rpm}$



## 型号: JM-F10 系列釜用机械密封

Model: JM-F10 Mixer and Agitator Seal

### 概述:

JM-F10 系列密封是可用于顶入式、底入式、侧入式搅拌设备的  
集装式密封,主要分为二种结构形式:JM-F10D (双端面无轴承);  
JM-F10LD (双端面附轴承)

### Summary:

JM-F10 series seals are cartridge seals that can be used in  
top-entry, bottom-entry, and side-entry mixing equipment. They are mainly divided into two  
structural forms: JM-F10D double-end without bearing ; JM-F10LD double-end with bearing.



### 特点:

标准化设计	法兰联接部分的尺寸符合 DIN28138 标准,适用于大多标准连接尺寸
集装式结构	安装简单方便
多弹簧结构	弹簧与介质不接触,可适用于多种腐蚀性介质
可选轴承组件	根据需选择轴承组件,消除轴偏摆对密封的影响
冷却结构	使用温度较高时可选带密封冷却夹套或冷却压盖的降温结构
适用范围广	适用不同的化学介质,适用介质范围广

### Characteristic:

Standardized design	The size of the flange connection part conforms to DIN28138 standard, which is suitable for most standard connection sizes.
Integrated structure	Simple and convenient installation.
Multi-spring structure	The spring is not in contact with the medium and can be used for a variety of corrosive medium.
Optional bearing assembly	Select bearing components as needed to eliminate the impact of shaft deflection on seals.
Cooling structure:	When the temperature is high, a cooling structure with a sealed cooling jacket or cooling gland can be selected.
Wide range of applications	Applicable to different chemical medium and a wide range of medium.

### 技术参数:

密封腔温度:  $-40^{\circ}\text{C}+300^{\circ}\text{C}$

密封腔压力:  $\leq 2.5\text{MPa}$

轴径尺寸: 40-200mm

速度:  $\leq 3\text{m/s}$

注: 当温度超过  $80^{\circ}\text{C}$  时, 按需加冷却夹套或冷却压盖

### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+300^{\circ}\text{C}$

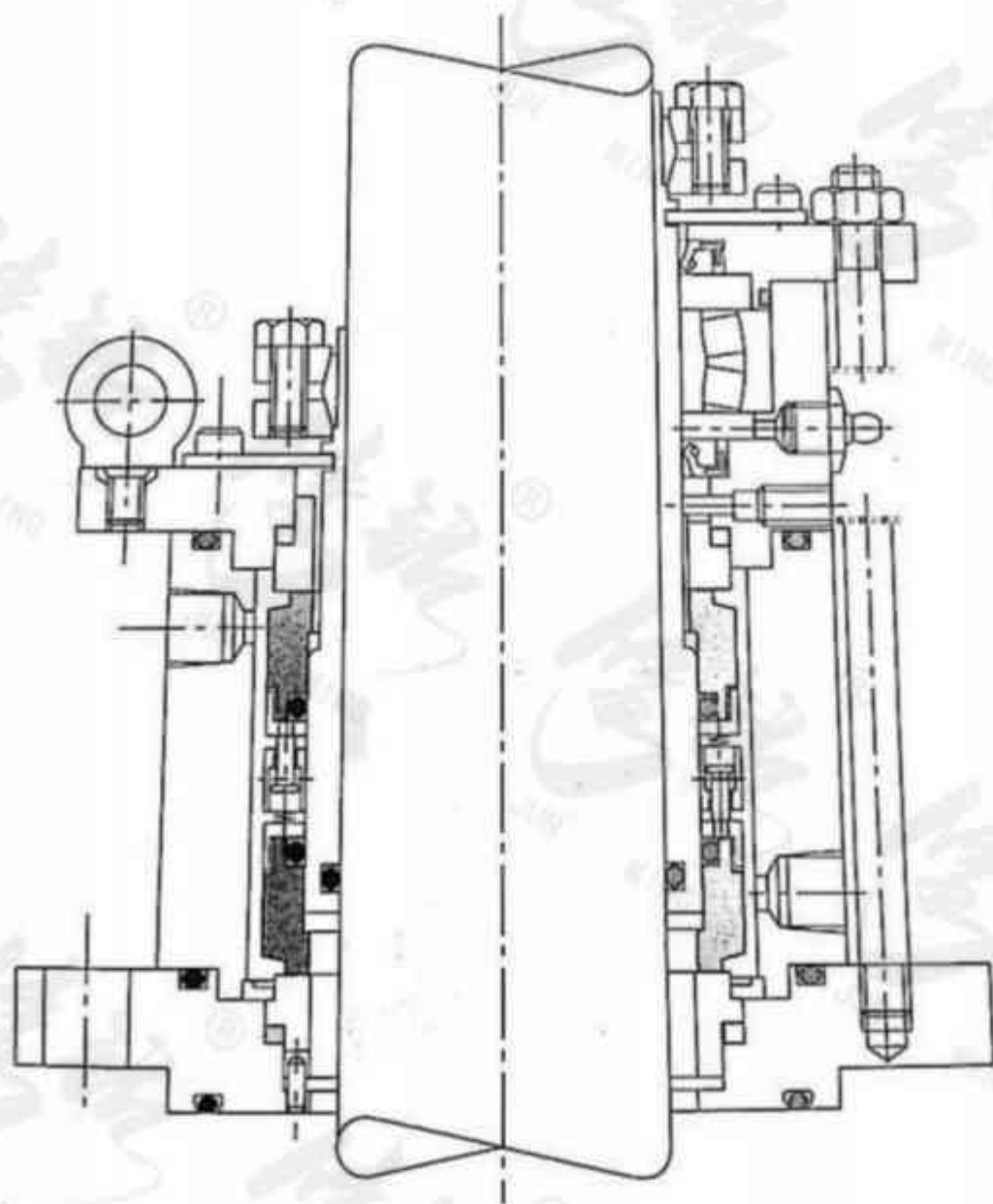
Pressure:  $\leq 2.5\text{MPa}$

Standard Size: 40-200mm

Speed:  $\leq 3\text{m/s}$

Note: When the temperature exceeds  $80^{\circ}\text{C}$ , add cooling jacket or cooling gland as required

安装尺寸图 Installation dimension drawing





## 型号: JM-F28 系列釜用机械密封

Model: JM-F28 Mixer and Agitator Seal

### 概述:

JM-F28 系列密封为适用于顶部驱动搅拌器的集装式密封。集成式结构, 安装简单便捷。集装密封法兰连接部分的尺寸符合 DIN28138 标准, 多弹簧结构, 包装端面载荷均匀, 轴向补偿性能好。该系列密封分为四种结构形式: JM-F28(单端面无轴承)、JM-F28L(单端面附轴承)、JM-F28D(双端面无轴承)、JM-F28LD(双端面附轴承)。适用于大多标准连接尺寸



### Summary:

JM-F28 series of seals are cartridge seals suitable for top-drive mixers. Integrated structure, simple and convenient installation. The size of the connection part of the cartridge sealing flange comply the DIN28138 standard. The multi-spring structure has uniform load on the end face of the package and good axial compensation performance. This series of seals are divided into four structural forms: JM-F28 single-end without bearing, JM-F28L single-end with bearing, JM-F28D double-end without bearing, JM-F28LD double end with bearing. Suitable for most standard connection sizes.

### 技术参数:

密封腔温度:  $-10^{\circ}\text{C}+150^{\circ}\text{C}$  (JM-F28, JM-F28L)

$-10^{\circ}\text{C}+200^{\circ}\text{C}$  (JM-F28D, JM-F28LD)

密封腔压力:  $\leq 0.6\text{MPa}$  (JM-F28, JM-F28L)

$\leq 1.6\text{MPa}$  (JM-F28D, JM-F28LD)

轴径尺寸: 40-200mm

速度:  $\leq 2\text{m/s}$

### Operating parameter:

Temperature:  $-10^{\circ}\text{C}+150^{\circ}\text{C}$  (JM-F28, JM-F28L)

$-10^{\circ}\text{C}+200^{\circ}\text{C}$  (JM-F28D, JM-F28LD)

Pressure:  $\leq 0.6\text{MPa}$  (JM-F28, JM-F28L)

$\leq 1.6\text{MPa}$  (JM-F28D, JM-F28LD)

Standard Size: 40-200mm

Speed:  $\leq 2\text{m/s}$

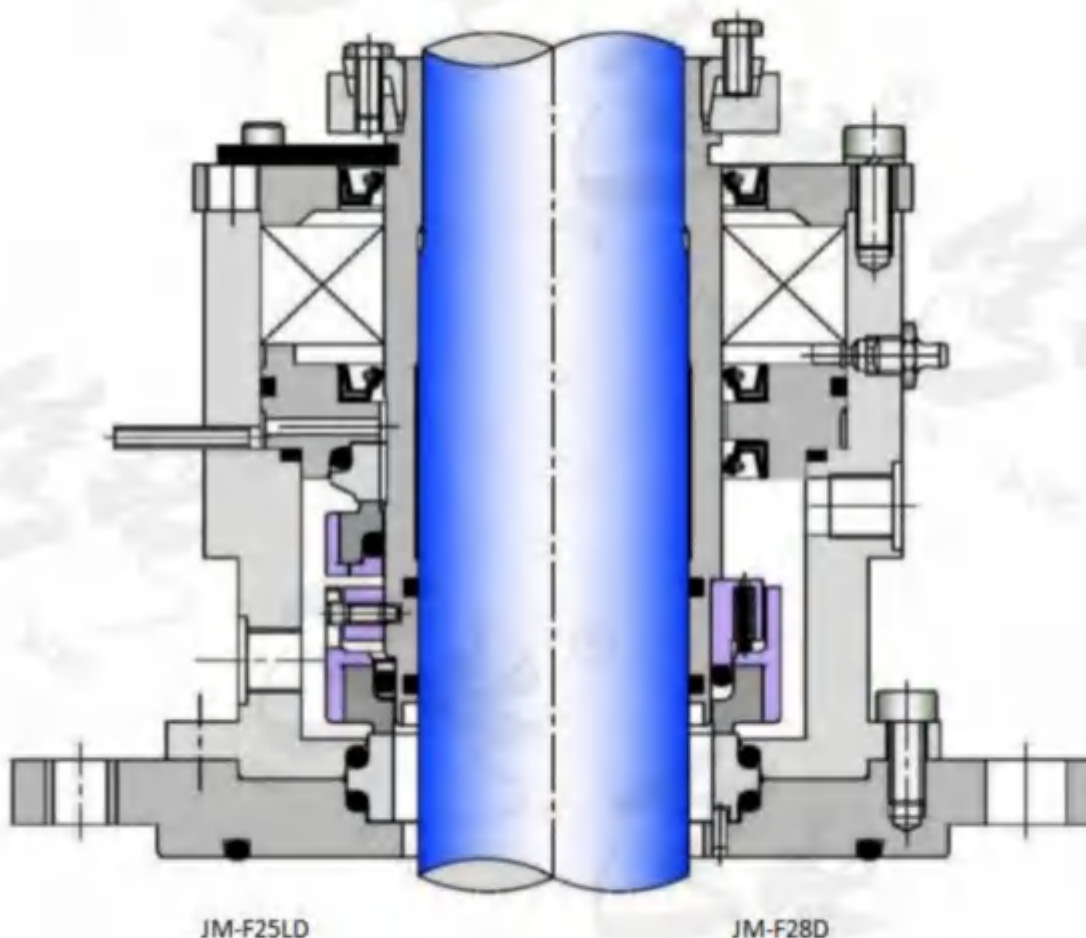
### 特点:

标准化设计	法兰联接部分的尺寸符合 DIN28138 标准, 与轴配合的轴套尺寸符合 DIN28154 标准
集成式结构	使安装更简单
多弹簧结构	使弹簧与介质不接触, 可适用于多种腐蚀性介质
可选轴承组件	根据需求选择轴承组件, 消除轴偏摆对密封的影响
冷却结构	可选带冷却法兰或冷却套
适用范围广	既保证耐腐蚀又保证密封性能。更换不同材质的辅助密封, 适用不同的化学介质
结构特点	非平衡结构设计允许在负压、反压及真空条件下很好的运行
组合式辅助密封	介质侧的辅助密封采用聚四氟乙烯与橡胶组合形式, 适用介质范围广

**Characteristic:**

- Standardized design: The dimensions of the flange connection part comply the DIN28138 standard, and the size of the shaft sleeve that matches the shaft comply the DIN28154 standard.
- Integrated structure : Makes installation easier.
- Multi-spring structure: Keeps the spring out of contact with the medium and can be applied to a variety of corrosive medium.
- Optional bearing assembly: Select bearing components as required to eliminate the effect of shaft deflection on seals. Cooling structure: Optional with cooling flange or cooling jacket.
- Wide range of application: It guarantees both corrosion resistance and sealing performance. Replace the auxiliary seal of different materials, suitable for different chemical medium.
- Structural features: Unbalanced structure design can working well under negative pressure, back pressure and vacuum conditions.
- Combined auxiliary seal: The auxiliary seal on the medium side uses a combination of polytetrafluoroethylene and rubber, which can be used in a wide range of medium.

**安装尺寸图**    Installation dimension drawing



## 型号: JM-F35 系列釜用机械密封

Model: JM-F35 Series Mixer Seal

### 概述:

JM-F35 系列釜用机械密封适用于 4MPa 以下顶部驱动搅拌器的集装式密封, 在聚丙烯装置中广泛应用。采用双端面集装式设计, 安装简单可靠。多弹簧结构, 保证端面载荷均匀, 轴向补偿性能好

### Summary:

JM-F35 series of mechanical seals for mixer are suitable for cartridge seals of top driven agitators below 4MPa, and are widely used in polypropylene plants. It adopts double-end cartridge design, which is simple and reliable to install. Multi-spring structure ensures uniform end-face load and good axial compensation performance.



### 特点:

多弹簧结构	保证密封端面受力均匀, 轴向补偿性能好, 弹簧与介质不接触, 可适用于多种腐蚀性介质
双端面结构	安装方便, 介质侧和大气侧采用相同结构的平衡型密封
标准调心滚子轴承	减少轴摆对密封影响, 必要时可采用双列圆锥滚子轴承, 作为轴的支撑点, 承受径向和轴向力

### Characteristic:

- Multi-spring structure: Guarantees uniform pressure on the sealing end face, good axial compensation performance, the spring does not contact the medium, and can be applied to a variety of corrosive medium.
- Double-end structure: Easy installation, balanced seals on the medium side and atmosphere side are the same structure.
- Standard spherical roller bearings: To reduce the impact of the shaft pendulum on the seal, double-row tapered roller bearings can be used as the bearing point of the shaft to support radial and axial forces.

### 技术参数:

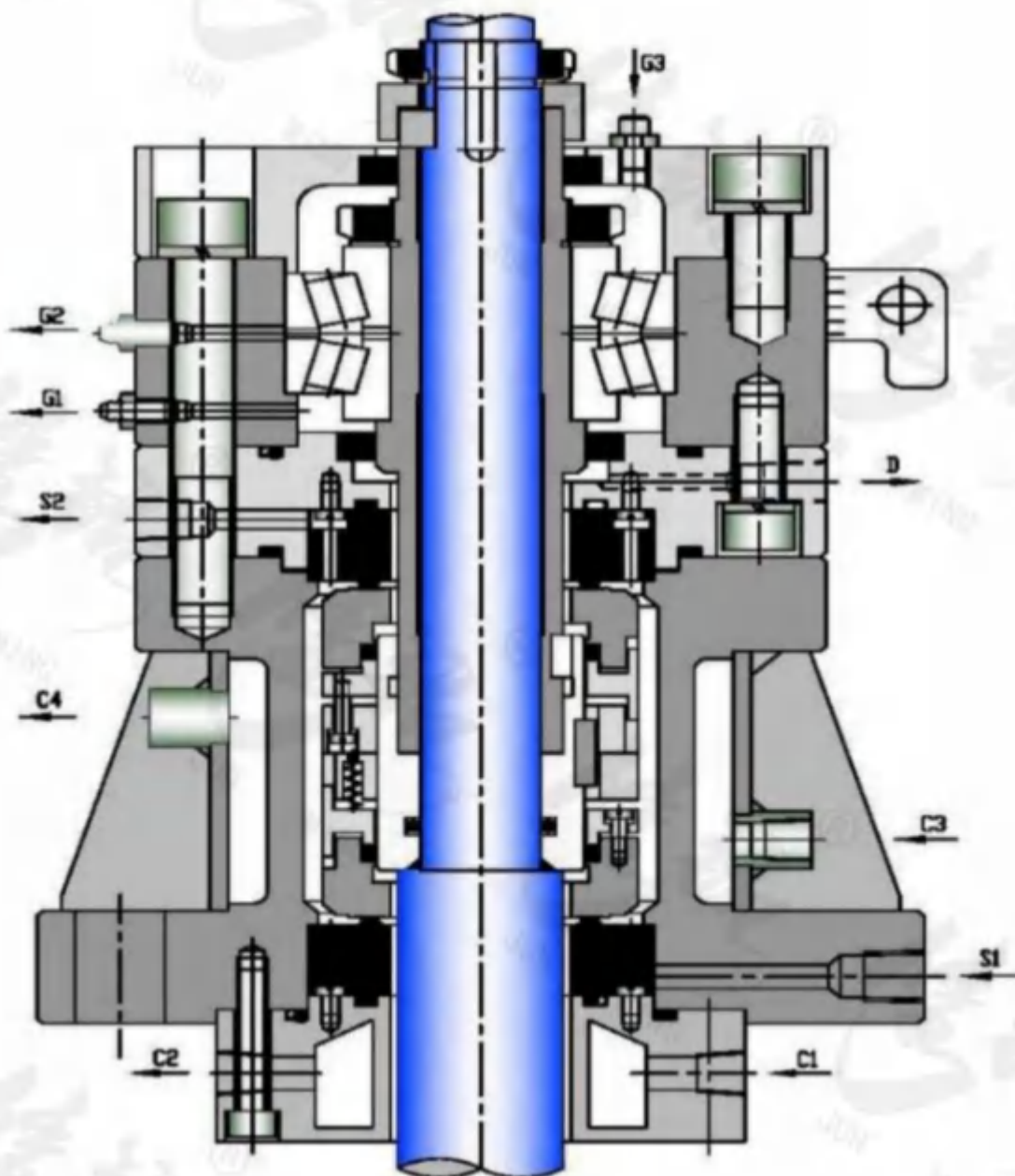
密封腔温度:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
密封腔压力: 2.5-4MPa (最大 6.3MPa)  
轴径尺寸: 40-160mm  
速度:  $\leq 2\text{m/s}$

### Operating parameter:

Temperature:  $-40^{\circ}\text{C}+180^{\circ}\text{C}$   
Pressure: 2.5-4MPa(maximum 6.3MPa)  
Standard Size: 40-160mm  
Speed:  $\leq 2\text{m/s}$



安装尺寸图 Installation dimension drawing



## JM 系列密封辅助系统 JM Series seal assist system

### 换热器

#### Heat exchanger

#### 产品说明

JM-H 系列机械密封辅助系统的换热器采用盘管结构，导热面积大，能更好的将热流体的部分热量传递给冷流体，对冷却液的降温冷却效果更为明显，为机械密封提供更好的工作环境。主要用于 API682 冲洗方案 PLAN21、23 等。广泛的应用于石油、化工、动力、轻工、机械、冶金、交通、制药等多种领域中。

#### Product description

The heat exchanger of the JM-H series mechanical seal auxiliary system adopts the coil structure, with a large thermal conduction area, which can better transfer part of the heat of the thermal fluid to the cold fluid, and the cooling effect of the coolant is more obvious, providing a better working environment for the mechanical seal. It was mainly used in the API682 washing protocol PLAN21, 23, etc. Widely used in petroleum, chemical industry, power, light industry, machinery, metallurgy, transportation, pharmaceutical and other fields.



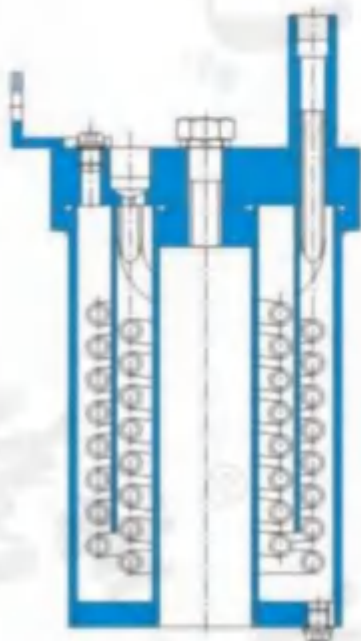
#### 设计特点

- 导热面积大：本冷却器的传热管采用盘管的设计，导热面积更大，传热冷却效果更好
- 良好的传热管材质：采用导热性良好的材料制作，导热冷却效率更高
- 防泄露：因盘管与壳体采用分离式设计，且每套设备在出厂前都进行气密检验，确定严密，故能达到防漏的目的
- 结构紧凑、冷却容量高、安装方便

#### Design feature

- Large heat conduction area: the heat transfer pipe of the cooler adopts the coil design, with a larger heat transfer area and a better heat transfer and cooling effect
- Good heat transfer pipe material: made of good thermal conductivity material, thermal conductivity and cooling efficiency are higher
- Leak prevention: because the coil and shell adopt separate design, and each set of equipment is inspected the air-tightness before leaving the factory, ensure it is closed, so can achieve the purpose of leakage prevention
- Compact structure, high cooling capacity, easy installation

## 极限性能参数 Extreme performance parameters



○ 使用温度: 200℃ (max)

Temperature: 200℃ (max)

○ 使用压力: 管程 6.0MPa (max)

壳程 0.8MPa (max)

Pressure: Pipe path: 6.0MPa (max)

Shell range 0.8MPa (max)

○ 换热面积: 0.3m<sup>2</sup>、0.4m<sup>2</sup> (可根据要求定制)

Heat exchange area: 0.3m<sup>2</sup>、0.4m<sup>2</sup>

(Available to be customized upon request)

## 现场应用 Field application





## 安装使用说明

- 1、本换热器可用于 API682 中 PLAN21 或 23 密封辅助系统方案中作为能量转换器部件。
- 2、为减少介质的流程的阻力，连接管路不宜过长。
- 3、管路内及壳体内部的气体应有效排出，以利于有效热交换。
- 4、工作开始时，先通入冷却液，再通入热介质，以免产生非常热应力。
- 5、冷却液通常用洁净软化水，避免水质太硬，以免换热器内部结垢，影响热交换。
- 6、随时观察流程介质和冷却液的进出温度，调节冷却液的流量，以达到合适的使用效果。
- 7、为防止水垢的形成，冷却水出水温度不可超过 50℃。
- 8、定期对换热器进行检查、清洗，去除油污、水垢，保证密封性和热传递效率。
- 9、冬季停止使用时，应将换热器内介质放尽，以防冻裂。
- 10、换热器需安装牢固。

常用材质的换热器只能用于一般腐蚀性的介质中，如果介质腐蚀性较强，请与本公司技术人员联系，以选用合适的材质适用相应的工况。

### Installation instructions

- 1.This heat exchanger can be used as an energy converter component in the PLAN21 or 23 sealing auxiliary system scheme in API682.
- 2.To reduce the resistance of the flow of the medium, the connection line should not be too long.
- 3.The gas in the pipeline and in the shell shall be effectively discharged, so as to facilitate the effective heat exchange.
- 4.At the beginning of the work, use the coolant and then access the heat medium to avoid unsteady thermal stress.
- 5.Coolant is usually clean and softened water to avoid too hard water to scale inside the heat exchanger and affect the heat exchange.
- 6.Observe the inlet and outlet temperature of the flow medium and the coolant at any time, and adjust the flow rate of the coolant to achieve the appropriate use effect.
- 7.To prevent the formation of scale, the outlet temperature of the cooling water shall not exceed 50℃.
- 8.Check and clean the heat exchanger regularly to remove oil and scale to ensure sealing and heat transfer efficiency.
- 9.When the use is stopped in winter, the medium in the heat exchanger should be exhausted to prevent freezing and cracking.
- 10.The heat exchanger shall be installed firmly.

The heat exchanger of common materials can only be used in the general corrosive medium. If the medium is highly corrosive, please contact the technical personnel of the company to choose the suitable material for the corresponding working conditions.

## 压力罐

### Overhead tank

#### 产品介绍

JM-G6310R 系列机械密封辅助系统(压力罐系统)多用于串联密封,为密封提供隔离缓冲液,控制密封正常工作所需的压力并带走热量,降低密封端面温度,改善密封润滑条件,给密封建立一个较理想的工作环境,从而大大提高机械密封工作的可靠性。

具备监测窗口和检测报警器件等接口,可根据不同要求提供手动补液泵、压力开关、压力报警和液位继电器等部件,确保防范介质不直接泄漏到大气中,以保护环境。

#### Product presentation

JM-G6310R series mechanical seal auxiliary system (pressure tank system) is mostly used in series sealing, provide isolation buffer, control sealing normal work pressure and remove heat, reduce the sealing end temperature, improve the seal lubrication conditions, establish an ideal working environment for sealing, thus greatly improve the reliability of mechanical seal work.

With monitoring window and detection alarm device interfaces, it can provide manual rehydration pump, pressure switch, pressure alarm and liquid level relay components according to different requirements to ensure that the prevention medium will not be directly leaked into the atmosphere to protect the environment.



#### 设计特点

- 标准化设计:符合 JB/T6630-1993 标准
- 耐高压:所有承压件焊接采用 MIG 工艺,经 8MPa 水压检验
- 换热冷却:加有换热管,冷却缓冲液
- 液位显示:配有耐温、耐压的石英晶体液位窗
- 多种用途:可用作平衡罐、加压罐,接口齐全,使用方便
- 采用缓冲或隔离液体的接触式湿式密封的布置方式

#### Design feature

- Standardized design: meet the JB / T6630-1993 standard
- High pressure resistance: all bearing parts are welded by MIG process, after 8MPa hydraulic test
- Heat transfer and cooling: add a heat transfer tube, cooling buffer
- Level display: equipped with a temperature-resistant, pressure-resistant quartz crystal level window
- Various uses: can be used as a balance tank, pressurized tank, complete interface, easy to use
- Layout of contact wet seals with buffered or isolated liquids

### 极限性能参数

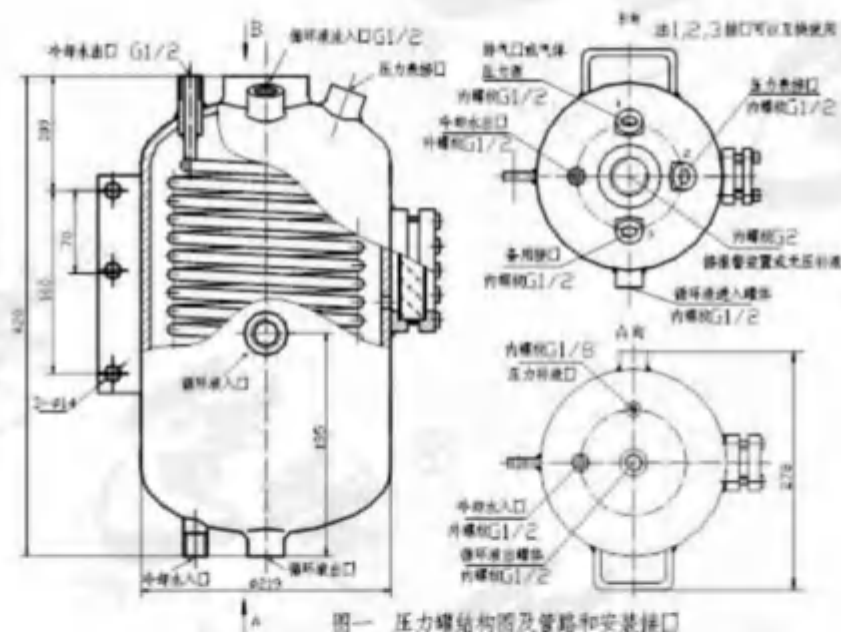
- 使用温度:最低-60℃, 最高 200℃  
○ 使用压力:最高 6.3MPa

### Extreme performance parameters

- Usage temperature: min -60℃, max 200℃
- Use pressure: up to 6.3MPa

- 容积: 10 L
- 换热面积: 0.3 m<sup>2</sup>

- Volume: 10 L  
○Heat exchange area: 0,3 m<sup>2</sup>



图一 压力罐结构图及管路和安装接口

JM-G6310R 系列压力罐系统,在有压使用时需外部提供气体压力源,在压力罐或系统管路上根据需要增加检测用仪表、传感器等部件,压力罐及接口图见图一。

For the JM-G6310R series pressure tank system, provide the gas pressure source externally, and add testing instruments, sensors and other components on the pressure tank or system pipeline as required. See Fig. 1 for the pressure tank and interface diagram.

## 现场应用 Field application





## 产品说明

JM-G6310R 型标准压力罐符合 JB/T 6630-1993 标准尺寸及安装、使用要求。

JM-G6310R 型标准压力罐按压力容器设计、制造，全部采用奥氏体不锈钢材料制造和 MIG 焊接工艺。出厂前经 8MPa 压力检验，安全可靠。内部加有换热管，换热效果良好。且设有视窗，观察方便。

JM-G6310R 型标准压力罐按标准设计管路接口和安装接口，通用性强，是 API610 方案 52 配置中的主要部件，也可以按 API610 方案 53A 配置（加压惰性气体可以与缓冲液接触）。用户可用此罐自行配置管路和其它附加装置，也可以选用本公司专门为此压力罐配置的各种系统。

### Product description

The JM-G6310R pressure tank meets JB/T 6630-1993.

The JM-G6310R type standard pressure tank is designed and manufactured as a pressure vessel, all adopt austenitic stainless steel material for manufacturing and MIG welding process. After 8MPa pressure inspection before delivery, safe and reliable. Internal is equipped with a heat exchange tube, the heat exchange effect is good. And equipped with a window, convenient observation.

JM-G6310R standard pressure tank design pipeline interface and installation interface according to the standard, which is the main component of API610 solution 52 configuration, and can also be configured in API610 scheme 53A (pressurized inert gas can contact with the buffer).

Users can configure the piping and other additional devices by themselves or select the various systems specially designed for the pressure tank.

## 典型系统配置

CY10 由 JM-G6310R 标准型压力罐、压力表、关闭阀等部件构成

CY11 由 JM-G6310R 标准型压力罐、压力表、关闭阀、手动补液泵等部件构成

CY15 由 JM-G6310R 标准型压力罐、压力表、关闭阀、液位继电器等部件构成

CY18 由 JM-G6310R 标准型压力罐、压力表、关闭阀、液位继电器和手动补液泵等部件构成

### Typical system configuration

CY10 consists of JM-G6310R standard pressure tank, pressure gauge, closing valve and other components

CY11 consists of JM-G6310R standard pressure tank, pressure gauge, pressure gauge, closing valve, manual fill pump and other components

CY15 consists of JM-G6310R standard pressure tank, pressure gauge, closing valve, liquid level relay and other components

CY18 consists of JM-G6310R standard pressure tank, pressure gauge, closing valve, level relay and manual fill pump

## 外部储液罐

### External storage tank

#### 产品介绍

JM-R 系列机械密封辅助系统(储液罐系统)适用于串联密封及双端面密封。作为缓冲液或隔离液的存储容器,主要由储液罐、测量单元、检测控制部件、管路及控制阀等部件构成,保证密封正常使用。

该系列密封辅助系统提供方便的目视观测窗口、液位报警开关接口及压力报警开关接口。

该系列符合 API682 方案 52(无压)或 53A(有压)系统。当机械密封轴径小于等于 60mm 时,可选用 JR5012 系列;当机械密封轴径大于等于 60mm 时,可选用 JR5020 系列。

#### Product presentation

The JM-R series of mechanical seal auxiliary system (liquid storage tank system) is suitable for series seals and double end seals. As a buffer or isolation liquid, the storage container is mainly composed of liquid storage tank, measuring unit, detection and control components, pipeline and control valve and other components to ensure the normal use of sealing.

This series of sealing auxiliary system provides convenient visual observation window, liquid level alarm switch interface and pressure alarm switch interface.

This series complies to API682 Scheme 52 (no pressure) or 53A (pressurized) systems. JR5012 series can be used when the mechanical seal shaft diameter is less than or equal to 60mm, and JR5020 series is greater than or equal to 60mm.

#### 设计特点

- 标准化设计: 符合 API682-2004《离心旋转泵用轴封系统》
- 换热冷却: 内装冷却换热管,采用缓冲或隔离液体的接触式密封的布置方式
- 液位显示: 采用压板式液位计,方便液位检查
- 配置多样: 可根据不同要求配备国内外检测仪表及变速器,实现远程控制
- 安装方便: 标准配置产品接口采用 ASME-B16.5 法兰标准(或根据特殊要求配置)方便配接工艺管线

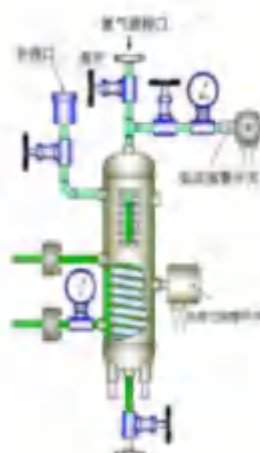
#### Design feature

- Standardized design: comply with API682-2004 Axial Seal System for Centrifugal Rotary Pump
- Heat transfer cooling: the internal cooling heat transfer pipe is arranged with the contact seal of buffering or isolating the liquid
- Solution level display: the pressure plate type liquid level meter is used to facilitate the liquid level inspection
- Various configuration: can be equipped with domestic and foreign testing instruments and transmission according to different requirements to achieve remote control
- Easy installation: the standard configuration product interface adopts the ASME-B16.5 flange standard (or configured according to the special requirements) to easily connect the process pipelines

#### 现场应用

#### Field application





## 执行标准 Operative norm

API 682-2004 《离心泵和转子泵用轴封系统》

GB 150-1998 《钢制压力容器》

ASME B16.5-2003 《管法兰和法兰管件》

## 极限性能参数 Extreme performance parameters

Model	Heat exchange area	Pressure	Temperature	Volume	Working volume
型号	换热面积 (m <sup>2</sup> )	使用压力 (MPa)	使用温度 (°C)	总容积 (L)	工作容积
JR5012	0.3	0~5.0	40~200	16.6	12L (3 美加仑)
JR5020	0.4	0~5.0	-40~200	27.8	20 (5 美加仑)

## 系统配置 System configuration

型号	罐体 ASG	测量 单元 ASI	放空 管线 ASL	压力源 管线 ASR	温度控 制管线 AST	压力控 制管线 ASP	补液 漏斗 ASD	手动补 液泵 ASB	压力 开关 ASY	液位 开关 ASW	控制阀 门组 ASF
JOG5210/A	10L	●	●				●				●
JOG5210/B	10L	●	●				●	●			●
YOG5310/C	10L	●	●				●			●	●
JOG5210/D	10L	●	●				●	●		●	●
JOG5210/E	10L	●	●				●		●	●	●
JOG5212/A	12L		●		●	●	●				●
JOG5212/B	12L		●		●	●	●	●			●
JOG5212/C	12L		●		●	●	●			●	●
JOG5212/D	12L		●		●	●	●	●		●	●
JOG5212/E	12L		●		●	●	●		●	●	●
JOG5220/A	20L		●		●	●	●				●
JOG5220/B	20L		●		●	●	●	●			●
JOG5220/C	20L		●		●	●	●			●	●
JOG5220/D	20L		●		●	●	●	●		●	●
JOG5220/E	20L		●		●	●	●		●	●	●
JOG5310/A	10L	●		●			●				●
JOG5310/B	10L	●		●			●	●			●
JOG5310/C	10L	●		●			●			●	●
JOG5310/D	10L	●		●			●	●		●	●
JOG5310/E	10L	●		●			●		●	●	●
JOG5312/A	12L			●	●	●	●				●
JOG5312/B	12L			●	●	●	●	●			●
YOG5312/C	12L			●	●	●	●			●	●
JOG5312/D	12L			●	●	●	●	●		●	●
JOG5312/E	12L			●	●	●	●		●	●	●
JOG5320/A	20L			●	●	●	●				●
JOG5320/B	20L			●	●	●	●	●			●
JOG5320/C	20L			●	●	●	●			●	●
JOG5320/D	20L			●	●	●	●	●		●	●
JOG5320/E	20L			●	●	●	●		●	●	●



## JM 型磁力驱动泵

### JM Type Magnetic Drive Pump

#### 产品简介

JM 系列磁力驱动离心泵一种高效节能无泄漏离心泵，在节能环保方面拥有巨大优势。符合 API610 标准 API685 部分标准，与国内石化、电力等企业现有设备兼容，可进行完全的互换。

#### Product profile

JM series of magnetic drive centrifugal pump is a high efficiency and energy saving leakage-free centrifugal pump, which has great advantages in energy saving and environmental protection. In line with the API610 standard and part of API685 standard, compatible with the existing equipment of domestic petrochemical, power and other enterprises, can be fully exchanged.



#### 产品特点

- 匠心 10 年，创新和先进的设计技术，执行美国石油协会《石油，重型化工和天然气工业用无泄漏离心泵》API685 标准。
- 个性化的私人定制，满足不同客户的现场需求。
- 以静密封取代动密封，使泵的过流部件处于完全密封状态，从而达到零泄露。
- 选用耐腐蚀、高强度的工程塑料、钢玉陶瓷、不锈钢等作为制造材料。
- 采用标准电极，电极效率要比屏蔽泵电极高 15%-30%。
- 磁场永不退磁，运转平稳，振动小、噪音低、整机使用寿命长。
- 维修率极低，永不返厂维修。

#### Product characteristics

- With 10 years of craftsmanship, innovative and advanced design technology, implementing the American Petroleum Association's Free Centrifuge Pumps for Oil, Heavy Chemical and Natural Gas Industry API685 standard.
- Personalized and personal customization, to meet the on-site needs of different customers.
- Replacing with static seal makes the overcurrent parts of the pump completely sealed to achieve zero leakage.
- Corrosion resistant, high strength engineering plastics, steel jade ceramics, stainless steel as manufacturing materials.
- Using the standard electrode, the electrode efficiency is 15% -30% higher than the shield pump electrode.
- Magnetic field never demagnetization, smooth operation, small vibration, low noise, long service life of the whole machine.
- Maintenance rate is very low, never return to the factory for repair.

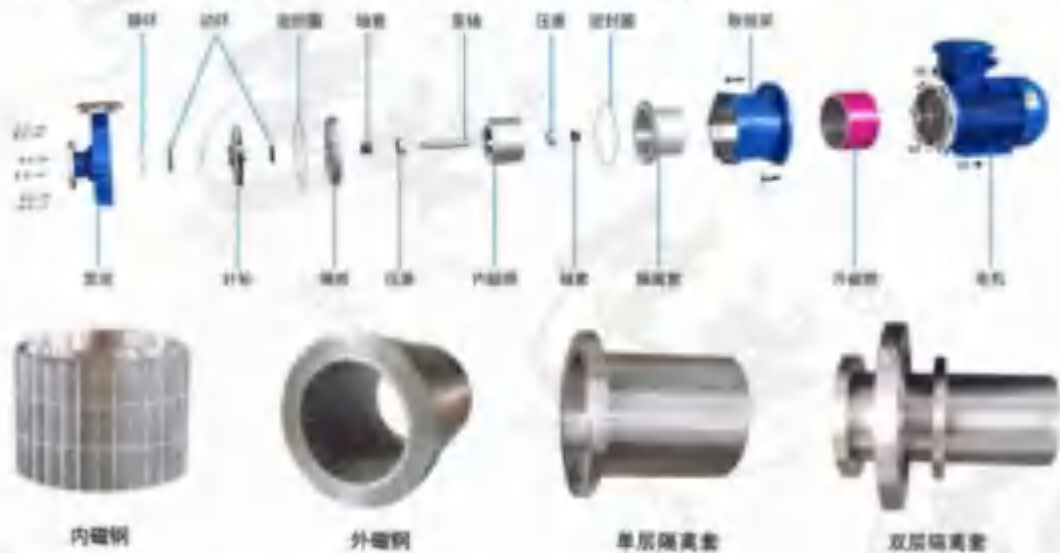
适用范围

- 广泛应用于化工、制药、石油、电镀、食品、电影照相洗印、科研机构、国防工业等领域。
- 单位抽送酸液、碱液、油液、毒液、稀有贵重液、挥发性液体，以及与循环水设备、过滤机设备配套。
- 特别是易漏、易燃、易爆、有毒、有害介质的输送，选用此卧式磁力泵更为理想。

Scope of application

- It is widely used in chemical industry, pharmaceutical, petroleum, electroplating, food, film photography and washing, scientific research institutions, national defense industry and other fields.
- Unit pumping liquid acid, alkali liquid, oil, venom, rare and precious liquid, volatile liquid, as well as with circulating water equipment, filter equipment supporting.
- Especially easy to leak, flammable, explosive, toxic, harmful medium transmission, the choice of this horizontal magnetic pump is more ideal.

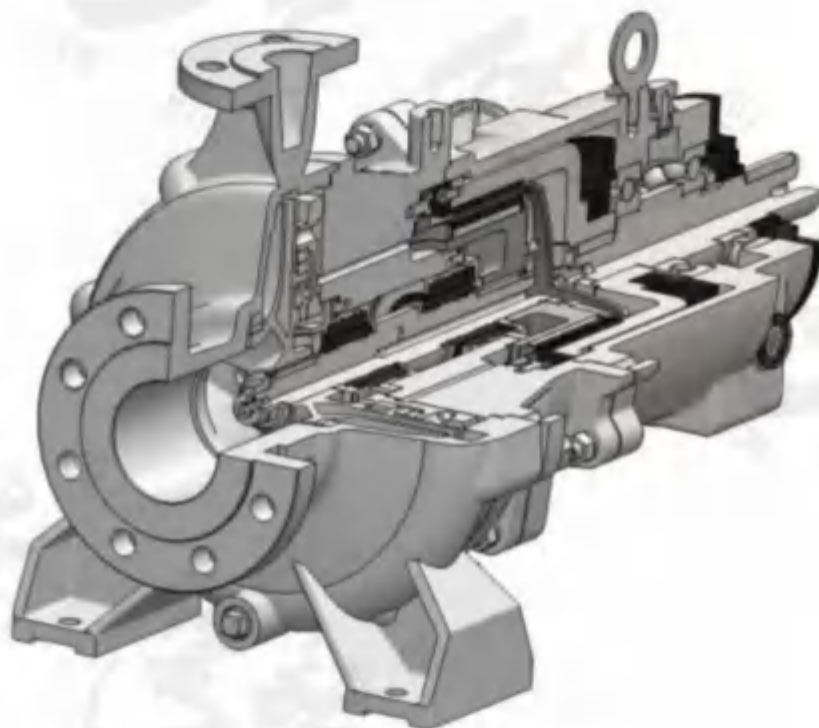
磁力泵分解图      Magnetic pump decomposition diagram



主要部件材质      Material of main components

主要零部件    Main parts	主要材质    Main material
泵体、叶轮    Pump body, impeller	ZG230-450/ZG304/ZG316/ZG316L 等
滑动轴承、轴套、止推盘 Slide bearing, shaft sleeve, thrust plate	SSiC/YWNB 等
隔离套    Isolation set	钛合金、哈氏合金、316L 等 Titanium alloy, Kazakh alloy, 316L, etc
磁块    Magnetic block	钕铁硼、钐钴等 Nodymium iron shed, samarium and cobalt, etc

剖面结构图 Section structure diagram



石油化工流程泵适合输送清洁或含有固体颗粒、温度不太高、中性或有腐蚀性介质，尤其适用于输送各种液态石油化工产品，各种温度和浓度的酸、碱、盐溶液和其它腐蚀性或非腐蚀性介质，该泵型适用于石油的炼制、石油化工产品的精制、化学工业工程、电力工程、环保工程、海上工程、输油工程、制药等部门。

Petrochemical process pump is suitable for conveying clean or containing solid particles, low temperature, neutral or corrosive medium, especially suitable for the delivery of various liquid petrochemical products, various temperature and concentration of acid, alkali, salt solution and other corrosive or non-corrosive medium, the pump type is suitable for petroleum refining, petrochemical products refining, chemical industrial engineering, power engineering, environmental protection engineering, offshore engineering, oil transmission engineering, pharmaceutical and other departments.



## 安装和使用

1. 磁力泵应水平安装，不宜竖立，塑料泵体不得承受管路重量，对于特殊要求垂直安装の場合，电机务必朝上。
2. 当抽吸液面高于泵轴心线时，起动前打开吸入管道阀门即可，若抽吸液面低于泵轴心线时，管道需配备底阀。
3. 泵使用前应进行检查，电机风叶转动要灵活，无卡住及异常声响，各紧固件要紧固。
4. 检查电机旋转方向是否与磁力泵转向标记一致。
5. 电机启动前，缓慢打开排出阀，待泵进入正常工作状态后，再将排出阀调到所需开度。
6. 泵停止工作前，应先关闭排出阀门，然后关闭吸入管阀门。泵用电机应由专业人员进行有效安全接地。为防止触电，维修或清理磁力泵前应切断电源。

## Installation and use

1. Magnetic pump should be installed horizontally, not be erected. The plastic pump body should not bear the weight of the pipe. For vertical installation with special requirements, the motor must be facing up.
2. When the suction liquid level is higher than the pump shaft line, the suction pipe valve can be opened before starting. If the suction liquid level is lower than the pump shaft line, the pipe should be equipped with a bottom valve.
3. The pump should be checked before use. The motor blade rotation should be flexible, without jamming and abnormal sound, and the fasteners should be tightened.
4. Check that the motor rotation direction is consistent with the magnetic pump steering mark.
5. Before the motor starts, slowly open the discharge valve, and then adjust the discharge valve to the required opening degree after the pump enters the normal working state.
6. Before the pump stops working, first close the discharge valve, and then close the suction pipe valve. The pump motor shall be effectively and safely grounded by professionals. To prevent electric shock, the power should be cut off before repairing or cleaning the magnetic pump.



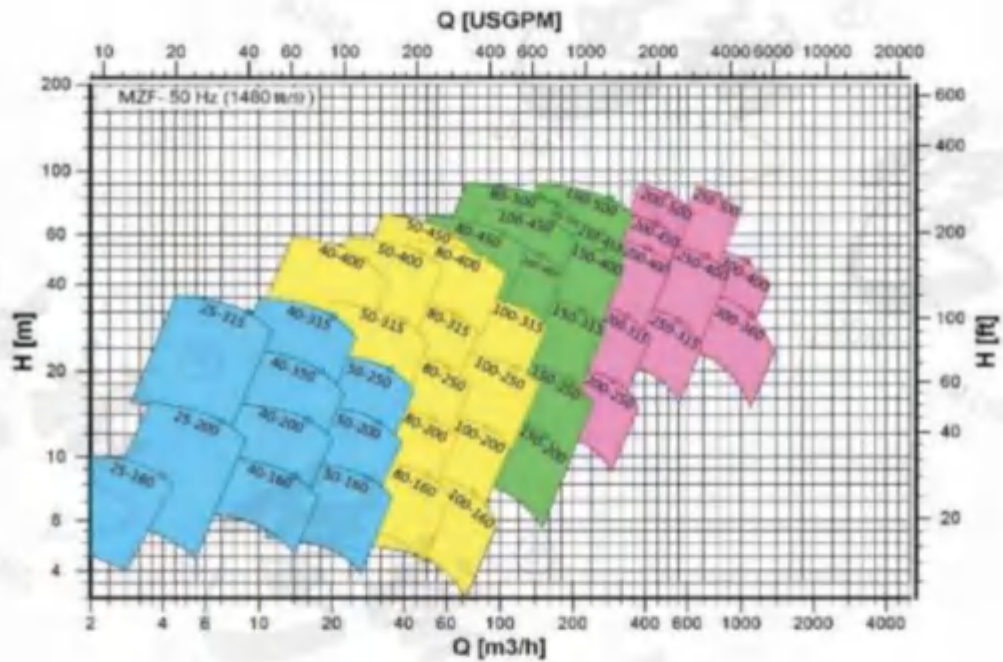
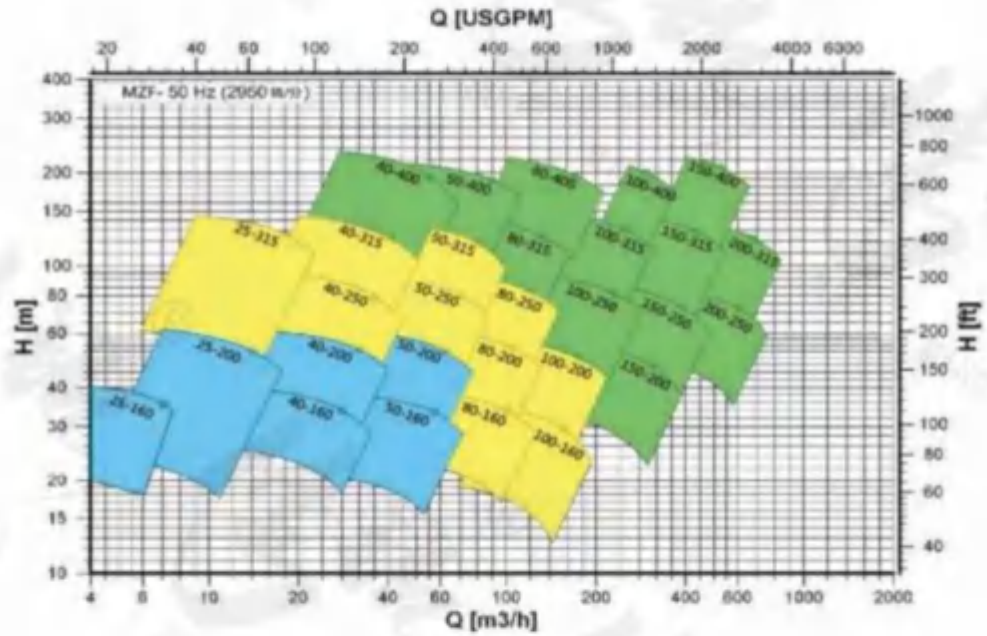
产品型号 Product type	性能范围 Performance range	结构特点与应用 Structural characteristics and applications	外形 Appearance
JMZF 标准型  JMZF Normalized form	口径 Calibre: DN25~DN300 流量 Rate of flow: 900m <sup>3</sup> /h 扬程 Head of delivery: 200m 温度 Temperature: -50~450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5~6.4MPa 功率 Power: 280kw	<b>结构特点</b> >单级、单吸、悬臂结构 >有底脚支撑和中心支撑两种结构 >根据工况需要增加冷却或保温夹套 >介质温度在 220℃以内不需要任何冷却措施, 高于 220℃需要增加冷却措施, 介质最高工作温度可以达到 450℃ >检修时不需要拆卸泵进出口法兰, 也不需要移动电机 <b>应用范围</b> >适用输送腐蚀性、易燃、易爆、有毒、易汽化以及昂贵的介质	
JMZF-K 高温型  JMZF-K High temperature modification	口径 Calibre: DN25~DN200 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 800m 温度 Temperature: 450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5MPa~10MPa 功率 Power: 280kw	<b>结构特点</b> >单级、多级、悬臂或双支撑结构 >泵头和磁性联轴器间设有加长热屏障 >采用中心支撑 >带换热器, 独立内循环冷却和润滑系统 <b>应用范围</b> >卧式安装, 适用于输送高温介质	
JMZF-D 多级磁力泵  JMZF-D Multistage magnetic force pump	口径 Calibre: DN25~DN250 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 800m 温度 Temperature: -50~450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5Mpa~10Mpa 功率 Power: 280kw	<b>结构特点</b> >多级、节段式、双支撑结构 >底脚支撑和中心支撑 >介质温度在 220℃以内不需要任何冷却措施, 高于 220℃需要增加冷却措施, 介质最高工作温度可以达到 450℃ >根据工况需要增加冷却或保温夹套 >适用于小流量、大流量、高扬程 <b>应用范围</b> >适合输送高扬程、腐蚀性、易燃、易爆、有毒、易汽化以及昂贵的介质	

产品型号 Product type	性能范围 Performance range	结构特点与应用 Structural characteristics and applications	外形 Appearance
JMEF-K-S 泥浆型 磁力泵  JMEF-K-S Mud type magnetic drive pump	口径 Calibre: DN25~DN300 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 200m 温度 Temperature: -70~450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5~10MPa 功率 Power: <280kw	<b>结构特点</b> >单级、单吸、悬臂结构 >有底脚支撑和中心支撑两种结构 >可采用闭式叶轮和开式叶轮 >根据工况带换热器、计量泵或外接清洗介质(对转子腔独立循环冷却)和润滑系统;避免杂质进入转子腔 >泵体壁厚加厚, 磨蚀余量大 <b>应用范围</b> >适用于输送小流量、大流量, 高扬程、易燃、易爆、有毒、贵重, 含有颗粒和磨蚀性大的介质	
JMZF-Z 自吸磁力泵  JMZF-Z Self-suction magnetic force pump	口径 Calibre: DN25-DN100 流量 Rate of flow: 200m <sup>3</sup> /h 扬程 Head of delivery: 100m 温度 Temperature: -50~220℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5~6.4MPa 功率 Power: 110kw	<b>结构特点</b> >具有自吸功能(第一次灌泵后, 无需再灌泵) >单级、自吸、悬臂结构 >最大允许介质温度 220℃ >最大吸程可达 6 米 <b>应用范围</b> >适用从地下或槽罐顶部抽取输送有危险、腐蚀性、有毒、易燃、易爆、不易汽化的介质	
JMZF-J 保温夹套 磁力泵  JMZF-J Thermal insulation jacket magnetic drive pump	口径 Calibre: DN25 - DN200 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 200m 温度 Temperature: <450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5MPa-10MPa 功率 Power: 280kw	<b>结构特点</b> >单级、底脚支撑和中心支撑结构 >轴向力水力自动平衡技术 >保温夹套结构设计 >适用于大流量、低扬程、高扬程 <b>应用范围</b> >适用于输送易结晶介质	



产品型号 Product type	性能范围 Performance range	结构特点与应用 Structural characteristics and applications	外形 Appearance
JMZF-V 立式多级 磁力泵  JMZF-V Vertical multi-level magnetic drive pump	口径 Calibre: DN25-DN100 流量 Rate of flow: 150m <sup>3</sup> /h 扬程 Head of delivery: 800m 温度 Temperature: -50~450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5~10MPa 功率 Power: 220kw	<b>结构特点</b> >多级、节段式、双支撑结构 >底部支撑立式安装 >介质温度在 220℃以内不需要任何冷却措施, 高于 220℃需要增加冷却措施, 介质最高工作温度可以达到 450℃ >泵体可以根据需要增加保温夹套结构 >小流量、大流量、高扬程, 完全无泄漏 <b>应用范围</b> 适合输送高扬程、有危险、腐蚀性、有毒、易燃、易爆、贵重和易汽化、易挥发的介质	
JMZF-G 管道磁力泵  JMZF-G Pipeline Magnetic pump	口径 Calibre: DN25-DN200 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 200m 温度 Temperature: -50~450℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5~6.4MPa 功率 Power: 220kw	<b>结构特点</b> >单级、单吸、立式管道磁力泵 >悬臂结构 >结构紧凑, 泵进出口在同一条直线上 >介质温度在 220℃以内不需要任何冷却措施, 高于 220℃需要增加冷却措施, 介质最高工作温度可以达到 450℃ <b>应用范围</b> >立式安装, 适合对管线内介质加压输送	
JMZF-T 型 长轴液下 磁力泵  JMZF-T type under the long axis fluid magnetic drive pump	口径 Calibre: DN25-DN250 流量 Rate of flow: 600m <sup>3</sup> /h 扬程 Head of delivery: 600m 温度 Temperature: -70~150℃ 转速 Speed: 1450/2900r/min 压力等级 Pressure rating: 2.5MPa~10MPa 功率 Power: 280kw	<b>结构特点</b> >单级、多级、单吸、立式长轴液下结构 >支撑管部件由密封垫片完全密封, 不与介质接触, 采用滚动轴承支撑 >当输送高度危险介质时, 可以采用双层隔离套结构, 实现双重安全保护 >最大液下插入深度可达 10 米 <b>应用范围</b> >将泵插入槽罐中抽取各种介质, 特别适合从密闭容器中抽取有毒、易燃易爆、易汽化的介质, 如: 无水氟化氢、液氯、液氨、液化气、丙烯、烷类、烃类、醇类、醚类、酯类、腈类介质等	

# Spectrum 型 谱



## 离心泵 Centrifugal Self-priming Pump

### 简介 Profile

离心自吸泵结构采用外混式自吸结构，卧式安装，全系产品配机械密封，电机和驱动轴通过膜片联轴器连接，适合输送清洁介质。

The centrifugal self-priming pump structure adopts the external mixing self-priming structure, horizontal installation, All the products are equipped with mechanical seal, The motor and the drive shaft are connected by the diaphragm couplings, Suitable for conveying the cleaning medium.



### 特点

- 自吸时间短：120 秒以内
- 结构简单：便于维修，在不动电机的情况下可以对泵机械密封进行更换或维修
- 效率高

#### Characteristic:

- Self-priming time is short: Within 120 seconds
- Simple structure: easy to repair, in the case of the pump mechanical seal can be replaced or repaired
- Efficient

### 操作参数:

流量最大: 200m<sup>3</sup> /h

扬程: 115m

自吸高度: ≤5m

温度: ≤80℃

### Operating parameters:

Maximum flow rate: 200m<sup>3</sup>/h

Pump head: 115m

Self-priming height: ≤5m

Temperature: ≤80℃

### 推荐应用:

石油石化、水处理

### Recommended application:

Petroleum, petrochemical industry, and water treatment



## 移动式潜水排污泵 Mobile Submersible Drain Pump

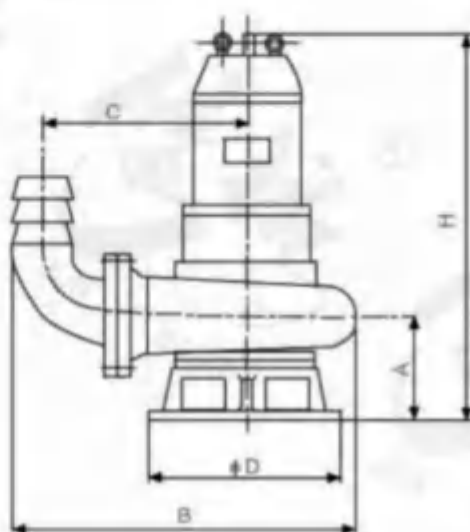
### 简介 Profile

本排污泵为基础款，无堵塞潜水排污泵具有节能效果优良、防缠绕、无堵塞、自动安装和自动控制等特点。

机械密封采用新型硬质耐腐的钨化钨材料，可使泵安全连续运行 8000 小时以上；整体结构紧凑、体积小、噪声小、节能效果显著，检修方便，无需建泵房，潜入水中即可工作，大大减少工程造价。根据用户需要配备双导轨自动耦合安装系统，安装维修方便简洁。

This sewage discharge pump is the basic section, Non-blockage submersible sewage pump has the characteristics of excellent energy saving effect, anti-winding, no blockage, automatic installation and automatic control.

The mechanical seal adopts a new hard and rot-resistant tungsten titanium material, Can make the pump safely and continuously run for more than 8000 hours, The overall structure is compact, small volume, small noise, energy-saving effect is significant, convenient maintenance, no need to build a pump room, dive into the water can work, greatly reduce the project cost. According to the user needs, equipped with dual guide rail automatic coupling installation system, installation and maintenance are convenient and simple.



## 油泵 Oil Pump

### 简介 Profile

自吸式离心油泵是根据国内外有关技术资料经消化、吸收、改进后研制而成的最新泵类产品。该泵是适用于石油行业，陆地油库、油罐车的理想产品，并适合于作船用货油泵、船底泵、消防泵和压载泵及机器冷却水循环等，分别输送汽油、煤油、柴油、航油等石油产品和海水、清水，介质温度 $-20^{\circ}\text{C}+80^{\circ}\text{C}$ ，如输送化工液体可改用耐腐蚀机械密封。



Self-priming centrifugal oil pump is the latest pump product developed after digesting, absorbing and improving relevant technical data at home and abroad. This pump is suitable for the petroleum industry, an ideal product for land oil depots and tank trucks, and it is suitable for marine cargo pumps, ship bilge pumps, fire pumps, ballast pumps, and machine cooling water circulation, etc. To transport gasoline, kerosene, diesel, diesel, jet fuel and other petroleum products and sea water, clean water respectively, the temperature of the medium is  $-20^{\circ}\text{C}+80^{\circ}\text{C}$ , if transporting chemical liquids, it can be changed to corrosion-resistant mechanical seals.

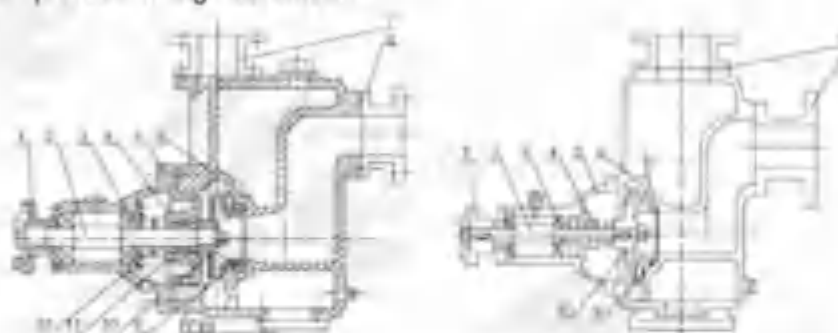
### 特点 Characteristic:

1. 该泵属自吸式离心泵，它具有结构简单、操作方便、运行平稳、维护容易、效率高、寿命长、具有较强的自吸能力等优点。管路中不需底阀，工作前只需保证泵体内储有定量引油即可。用于油轮或输水船舶上时，可兼作扫舱泵，扫舱效果良好。

2. 该泵是选用优质材料精制而成，密封采用硬质合金机械密封，经久耐用，吐出管路不需要安装安全阀，吸入管路不需安装底阀，因此简化了管路系统，又改善了劳动条件。

1. This pump is a self-priming centrifugal pump, which has the advantages of simple structure, convenient operation, stable operation, easy maintenance, high efficiency, long life, and strong self-priming ability. There is no need for a bottom valve in the pipeline and you only need to ensure that there is a quantitative oil in the pump body before work. When used on oil tankers or water delivery ships it can also be used as a stripping pump, and the stripping effect is good.

2. The pump is made of high-quality materials, and the seal adopts hard alloy mechanical seal, which is durable. The discharge pipeline does not need to install a safety valve, and the suction pipeline does not need to install a bottom valve, so the pipeline system is simplified and improved working conditions.



## 化工泵 Chemical Pump

### 简介 Profile

石化流程泵采用悬臂结构,电机和驱动轴通过膜片联轴器连接,全系列产品覆盖石化流程用泵所有领域,适合输送清洁介质。

The petrochemical process pump structure adopts the cantilever structure, The motor and the drive shaft are connected by the diaphragm couplings, The whole series of products cover all fields of petrochemical process pump, Suitable for conveying the cleaning medium.



### 特点:

- 通用标准性非常高,大大减少客户库存
- 水力性能稳定,行业认可度高
- 可按要求配备各种机封及系统
- 振动低,噪声小

### Characteristic:

- General standards level are very high, greatly reducing the customer inventory.
- Stable hydraulic performance, high industry recognition.
- Various machine seals and systems can be provided as required.
- Low vibration and low noise.

**推荐应用:** 石油石化、海上工程、环保工程、天然气冶金、水处理、输油工程、电力工程

**Recommended application:** Petroleum and petrochemical engineering, offshore engineering, environmental protection engineering, natural gas metallurgy, water treatment, oil transmission engineering, electric power engineering.

### 操作参数:

流量:  $350\text{m}^3/\text{h}$  (Max)

扬程: 200m

温度:  $\leq 300^\circ\text{C}$

### Operating parameters:

Flow rate:  $350\text{m}^3/\text{h}$  (Max)

Pump head: 200m

Temperature:  $\leq 300^\circ\text{C}$

### 产品主要部件的优选材质

主要零部件: 泵体、叶轮

主要材质: ZG230-450/ZG304/ZG316/ZG316L 等

### Preferred material for the main components of the product

Main parts: Pump body, impeller

Main material: ZG230-450/ZG304/ZG316/ZG316L etc.



## JM 系列轴承保护器

### JM Series Bearing Protector

#### 产品说明

该轴承保护器采用组合迷宫设计以防污染物进入和润滑物泄漏，有助于达到并提高维护周期的预期寿命。适用于石油化工、火力、水力、风力发电，以及食品、药品等行业。

#### Product description

The bearing protector adopts combined labyrinth design to prevent contaminants from entering and lubricant leakage, helps to achieve and improve the life expectancy of the maintenance cycle. Suitable for petrochemical, thermal, hydro, wind power generation, and food, medicine and other industries.



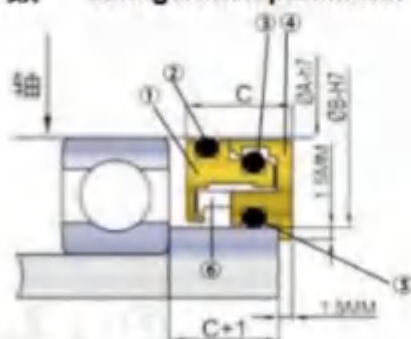
#### 技术参数

- 耐压性：常压
- 耐温性：-35℃ ~ 200℃
- 线速度：≤60m/s
- 轴向窜动量：≤0.3mm
- 轴向跳动量：≤0.5mm

#### Technical parameters

- Pressure resistance: normal pressure
- Temperature resistance: -35℃ ~ 200℃
- line speed: ≤60m / s
- Axial running momentum: ≤0.3mm
- Axial beating quantity: ≤0.5mm

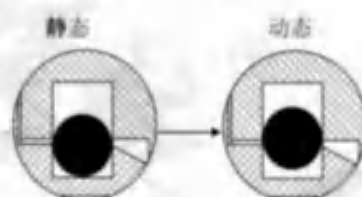
#### 结构参数 Configuration parameter



- ①动环 (seal head)
- ②密封圈 (lock ring)
- ③浮动密封圈 (蒸汽阻挡环)  
Floating seal ring (steam blocking ring)
- ④静环 (stationary seal ring)
- ⑤密封圈 (lock ring)
- ⑥回油槽 (return chute)

Static state

Dynamic state



蒸汽阻挡环功能示意

Functional function of steam blocking ring

## 产品特点

- 1.非接触式设计，杜绝轴面磨损，零能量损耗。
- 2.使用寿命可长达 40000 小时以上。
- 3.动环随轴转动，阻挡大部分介质，少量介质进入回油槽。
- 4.设计紧凑，安装方便，仅需替换原油封。
- 5.迷宫式设计能有效防止外界污染物进入轴承腔，并防止润滑物的泄漏。

## Product characteristics

- 1.Non-contact design to eliminate axial wear and zero energy loss.
- 2.The service life can be more than 40,000 hours.
- 3.The moving ring rotates with the shaft to block most of the medium, and a small amount of medium enters the return tank.
- 4.Compact design and easy to install, just replace the original oil seal.
- 5.The labyrinth design can effectively prevent external pollutants from entering the bearing cavity, and prevent the leakage of lubricant.

## 传统唇封的局限性

- 1.传统骨架油封在密封时，容易对轴面有磨损现象，大部分厂商在设计阶段都将配套一件轴套方便后期更换。
- 2.传统骨架油封的密封周期短，平均每三个月进行一次油封及轴套的更换。
- 3.传统骨架油封种类繁多，所适用的工况局限性大。厂商在配备油封时往往要配备种类齐全的产品。
- 4.传统骨架油封因使用寿命短，更换部件多，在更换成本上相对较高。
- 5.传统骨架油封不能有效阻止轴承腔受到外界环境的污染，不能有效保护轴承润滑油。

## Limitations of traditional lip seal

- 1.When the traditional skeleton oil seal was sealing, it is easy to wear the shaft surface. Most manufacturers will support a shaft sleeve in the design stage for the later replacement.
- 2.The sealing period of the traditional skeleton oil seal is short, and the oil seal and shaft sleeve are replaced once every three months on average.
- 3.There are many types of traditional skeleton oil seals, and the applicable working conditions are very limited. Manufacturers are equipped with oil seals are often equipped with a complete variety of products.
- 4.Because of the short service life, and many replacement parts, the replacement cost of traditional skeleton oil seal is relatively high.
- 5.Traditional skeleton oil seal can not effectively prevent the bearing cavity polluted by the external environment, and cannot effectively protect the bearing lubricating oil.



唇封造成的轴磨损  
Axft wear caused by lip seal



唇封使用造成泄漏  
lip seal use caused a leak



泄漏导致的轴承锈化  
Rust of the bearings caused by the

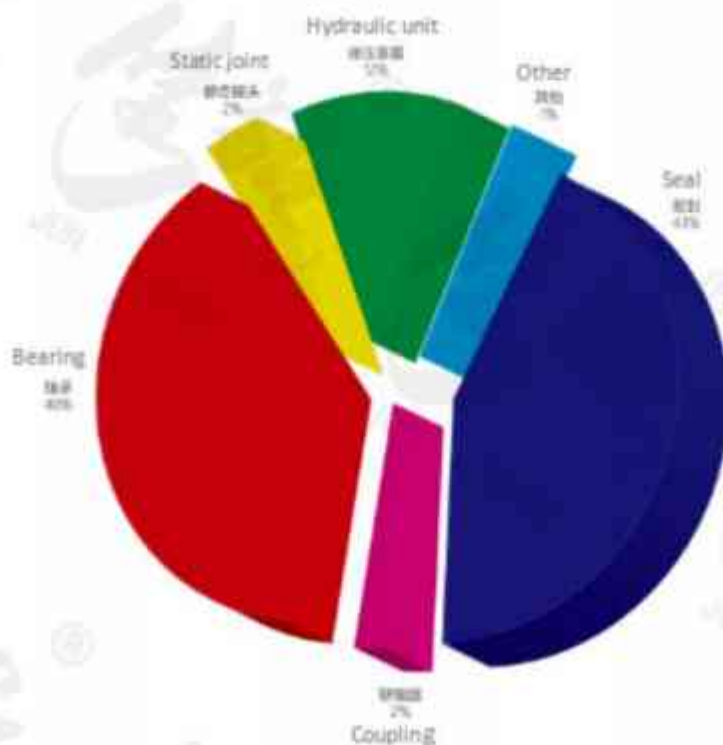
## 轴承失效研究

一家大型炼油厂开展了一项设备可靠性研究，并公布了设备故障原因的统计数据。他们得出的结论，所有旋转设备（泵，风机，减速机等）的故障原因中，轴承失效占 40%。他们进一步估算轴承失效原因，其中颗粒污染物占 48%，腐蚀占 4%（油中所含的液体引起）。即 52% 的污染物原因中有 40% 是轴承失效引起。

### Research on bearing failure

A large refinery conducted an equipment reliability study and published statistics on the causes of equipment failures. They concluded that bearing failure accounted for 40% of the causes of all rotating equipment (pumps, fans, reducer, etc.).

They further estimated the cause of bearing failure, including 48% of particles and 4% corrosion (caused by the liquid contained in the oil). That is, among 52% of the pollutant causes, bearing failure accounted for 40%.





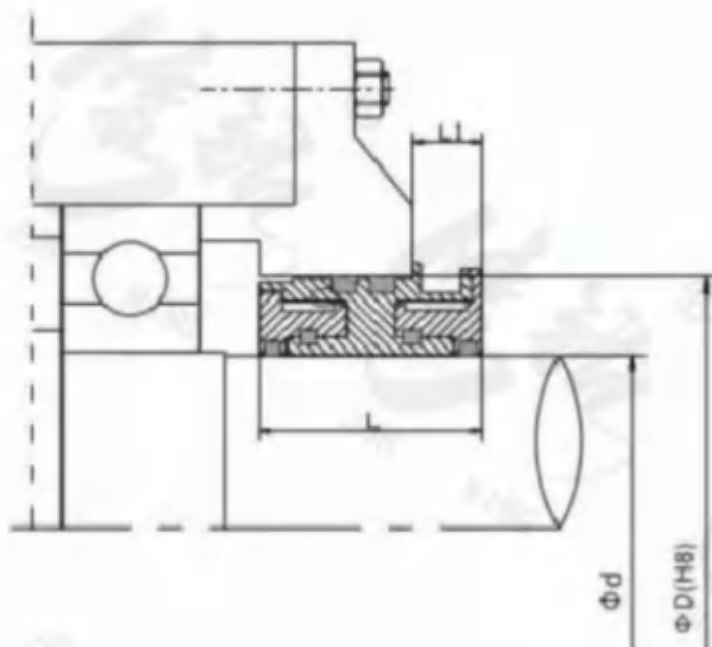
**型号: JMBS**  
**Model:JMBS**

**性能参数**

- 适用温度:  $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- 轴窜动量:  $\leq 0.5\text{mm}$
- 轴跳动量:  $\leq 0.25\text{mm}$
- 线速度:  $\leq 60\text{m/s}$
- 适用场合: 引风机、鼓风机等的轴承腔

**Performance parameter:**

- Applicable temperature:  $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- axis running momentum:  $\leq 0.5\text{mm}$
- axis beat volume:  $\leq 0.25\text{mm}$
- line speed:  $\leq 60\text{ m/s}$
- Application occasions: bearing cavity of induced draft fan, blower, etc



d	35	40	45	50	55	60	65	70	75	80	85	90	95	110	150	220
D(H8)	55	60	65	70	75	80	85	90	95	100	105	110	115	130	170	250
L	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	35
L1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

**型号: JMYW**  
**Model: JMYW**

**性能参数:**

- 适用温度:  $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- 轴窜动量:  $\leq 0.5\text{mm}$
- 轴跳动量:  $\leq 0.25\text{mm}$
- 线速度:  $\leq 60\text{m/s}$
- 适用压力:  $\leq 0.5\text{MPa}$
- 适用场合: 带压轴封部位, 尤其适用于油雾润滑的轴承腔

**Performance parameter:**

- Applicable temperature:  $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- Axis running momentum:  $\leq 0.5\text{mm}$
- Axis beat volume:  $\leq 0.25\text{mm}$
- line speed:  $\leq 60\text{ m/s}$
- Applicable pressure:  $\leq 0.5\text{MPa}$
- Application occasions: with the final seal part, especially suitable for oil fog lubrication bearing cavity



d	35	40	45	50	55	60	65	70	75	80	85	90	95	110	150	220
D(H8)	65	70	75	80	85	90	95	100	105	110	115	120	130	145	185	260
L	20	20	20	20	20	20	20	20	20	20	20	20	25	25	25	30

## JMBY 恒液位自动补油杯

JMBY constant liquid level automatic oil filling cup

### 产品概述:

恒液位自动补油器/油位计, 可分为四种规格: 125ml、250ml、500ml、1000ml, 设计用于在轴承箱、齿轮箱、曲轴箱或类似油浴的应用中实现最佳润滑油位的自动调整, 使润滑油保持在设计的恒定位置。在运行条件下有效解决油位的调整问题。此外, 本装置还可自动补偿漏油问题, 并且可目视检查油位。

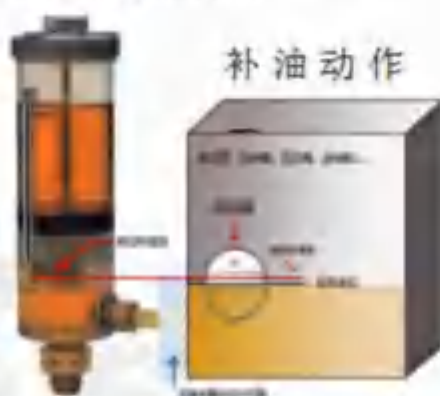
### Product Overview:

Constant liquid level automatic oil supplement / oil level gauge, can be divided into four specifications: 125ml, 250ml, 500ml, 1000ml, it's designed to achieve the automatic adjustment of the optimal lubricating oil level in the bearing box, gearbox, crankcase or similar oil bath applications, to keep the lubricating oil in the constant position of the design. Effectively solve the problem of oil level adjustment under operating conditions. Furthermore, the device can automatically compensate for the oil leakage problem, and can visually check the oil level.



### 工作原理:

### Operational principle:



该油位计大致由两个相互联通的油罐组成, 下方的油罐与润滑部位相连接, 因此其油位与润滑部位内部的油位相同。通过一套通风系统, 下方油罐可与空气直接接触。上方油罐是一个密封的容器, 其中储存补充用油。上方油罐的颈部向外伸出, 伸入下方油罐的油面以下。两个油罐相互直接接触。但是, 在下方油罐的油位低于预设值, 从而空气从延伸颈部进入上方油罐时, 润滑油只能从上方油罐流入下方油罐。

The oil level gauge is roughly composed of two interconnected oil tanks, and the lower oil tank is

connected to the lubrication site, so that the oil level is the same as the inside the lubrication site. The lower tank can contacts the air directly through a ventilation system. The upper oil tank is a sealed container in which supplementary oil is stored. The neck of the upper tank extends out below the oil surface of the lower tank. Both oil tanks are in direct contact with each other. However, when the oil level of the lower tank is below the preset value and the air passes from the extended neck into the upper tank, the lubricating oil can only flow from the upper tank into the lower tank.



### 安装简介:

首先在运行过程中确定所需的油位。然后确定支撑托架总成的安装位置，将上下油罐相互拆开，使用油位计底部的固定螺母，将下方油罐连接到支撑托架上，调整油位计高度，为管道两端准备转环连接器。滑动管道顶部的转环适配器。将铜套管插入管中，并将铜圈滑动至套管顶部。将两个连接联轴器 (G ¾) 旋入油位计和应用装置中，并连接管道。上紧转环适配器。



将应用装置中的油位调整至所需水平，并确保该油位对应于下方油罐上标明的两条线之间。并将防反转接头与轴承箱原油标连接螺纹孔连接，确认牢固，将接头另一端螺纹 (2G¾) 缠绕适量四氟带，旋开中间基体与下储油杯，将下储油杯与接头连接，当拧到紧度合适而且油杯竖直向上时，备紧锁紧螺母，防止补油器反转倾倒。最后现场将补油器其它部件组装完整，保证上储油杯密闭不漏气(为保证密封性能可为密封垫抹少量润滑油)，完成安装旧泵改造时，可拆掉原补油杯，并将其连接孔堵严，防止漏油。

### Installation profile:

The required oil level is first determined during the operation. Then determine the installation position of the support bracket assembly, separate the upper and lower tanks from each other, use the fixing nut at the bottom of the level gauge to connect the lower tank to the support bracket, adjust the level gauge height to prepare the ring connector for both ends of the pipe. Slide the ring adapter at the top of the pipe. Insert the copper sleeve into the tube and slide the copper ring to the top of the sleeve. Turn the two connecting coupling (G ¾) into the oil gauge and application device, and connect the pipe. Tighten turn ring adapter.

Adjust the oil level in the application device to the desired level and ensure that the oil level corresponds between the two lines indicated on the lower tank. And connect the anti-rotary joint and the bearing box crude oil standard thread hole connection, confirm the firmness, wrap the other end of the joint thread (2G¾) around the four fluorine belt, open the intermediate base and the lower oil storage cup, connect the lower oil storage cup and the joint, when the tightness is appropriate and the cup is vertical upward, tighten the locking nut, prevent the oil feeder from reversing and dumping.

Finally, other parts of the oil filling device will be assembled completely on site to ensure that the upper oil storage cup is sealed and not leaking air (in order to ensure the sealing performance, a small amount of lubricating oil can be applied to the sealing pad). When the transformation of the old pump is completed, the original oil filling cup can be removed, and the connection hole can be strictly blocked to prevent oil leakage.

### 化工厂用泵案例

### Chemical Plant Pump Case



**技术数据      Technical data**

代号 Code name	JMBY500/JMBY1000
油管容积 Tubing volume	
JMBY500	Φ91×290 mm
JMBY1000	Φ122×290 mm
油罐容量 Tank capacity	
JMBY500	500ml
JMBY1000	1000ml
容器材料	聚碳酸酯，铝等
Container material	Polycarbonate, aluminum, etc
温度范围 Temperature range	-20℃~70℃
允许湿度 Allow humidity	0 - 100 %
管道材料 Pipeline material	聚氨酯等 Polyurethane etc
O 形圈材料 O-ring material	NBR - 70 Shore 等
垫圈 Filler piece	NBR - 80 Shore 等
其他材料	铝，青铜，不锈钢等
Other materials	Aluminum, Bronze, stainless steel, etc
适用油类型	矿物油和合成油
Applicable oil type	Mineral oil and synthetic oils
连接方式 Attended mode	NPT 1/4" 3/8" 1/2" 3/4" 等

## “O”形圈

### "O" ring

#### 简介 Profile

“O”形圈是一种截面为圆环形的密封元件，主要材料为合成橡胶，在液压工程中是用的最多、最普遍的一种密封件，主要做静密封及滑动密封用。The "O" ring is a sealing element with a circular section, The main material is synthetic rubber. Most commonly used in hydraulic engineering, it is one of the most common seals, Mainly use for static seal and sliding seal.



#### 特点:

- 密封性好，寿命长。
- 单圈就可对两个方向起密封作用。
- 对油液、温度和压力的适应性好。
- 动摩擦阻力小。
- 体积小，重量轻，成本低
- 密封部位结构简单，拆装方便
- 既可做静密封也可做动密封。
- 尺寸和沟槽已被标准化，选用和外购方便。

#### Characteristic:

- Good sealing, long life
- A single loop can seal in both directions.
- Good adaptability to oil, temperature, and pressure.
- Dynamic friction resistance is small.
- Small in size, light in weight, and low in cost.
- The sealing part is simple in structure, easy for disassembly
- It can be used as both static and dynamic seals.
- Dimensions and grooves have been standardized and easy to select and purchase.

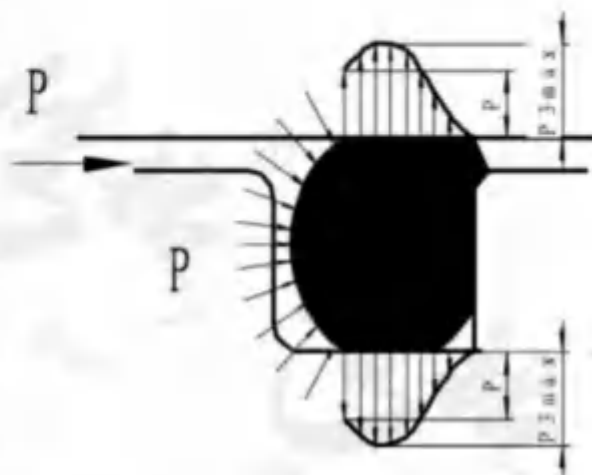




### “O”形圈的材料选用

- 1.“O”形圈的工作状态：指“O”形圈用于静密封、动密封还是滑动密封。
- 2.机器的工作状态：指机器处于连续工作还是断续工作，并考虑到每次断续时间的长短，是否有冲击载荷作用在密封部位。
- 3.工作介质的情况：工作介质是气体还是液体，并考虑其物理和化学性能。
- 4.工作压力：压力大小，波动幅度和频率以及瞬时出现的最大压力等。
- 5.工作温度：包括瞬时出现的温度以及冷热交替出现的温度。
- 6.价格与来源。

一般来说耐油用丁腈橡胶，耐候性和臭氧用氯丁橡胶，耐热用丙烯酸酯橡胶或氟橡胶，耐高压、耐磨用聚氨酯橡胶，耐寒同时又耐油用共聚氯醇橡胶等。



### Material selection of the "O" type circle:

1. Operating status of O "rings": O "rings" for static, moving or sliding seals.
2. Working state of the machine: refers to whether the machine is in continuous work or intermittent work, and considering the length of each intermittent time, whether there is an impact load acting on the sealing part.
3. Situation of the working medium: Whether the working medium is a gas or a liquid, and consider its physical and chemical properties.
4. Working pressure: pressure size, fluctuation amplitude and frequency, and instantaneous maximum pressure, etc.
5. Working temperature: including the instantaneous temperature and the alternating hot and cold temperature.
6. Price and source.

Generally speaking, Nitrile rubber is used for oil resistance. Neoprene is for weather resistance and ozone. Acrylate rubber or fluorine rubber is for thermal resistance. Polyurethane rubber is for high pressure and wear resistance. Co-polychlorol rubber is for cold resistance and oil resistance, etc.

材料 Material	适用介质 Applicable medium	使用温度/℃ Temperature		备注 Comments on a form
		滑动用 Sliding	静止用 Static	
丁腈橡胶 Acrylonitrile-butadiene rubber	矿物油, 汽油, 苯 Mineral oil, petrol, benzene	80	-30~120	-
氯丁橡胶 Chloroprene rubber	空气, 水, 氧 Air, water, oxygen	80	-40~120	滑动用应注意 Note the sliding
丁基橡胶 Butyl rubber	动、植物油, 弱酸, 弱碱 Movement, vegetable oil, weak acid, weak alkali	80	-30~110	永久变形大, 不适用矿物油 Permanent deformation is large, not applicable to
丁苯橡胶 Styrene-butadiene rubber	碱, 动物油, 植物油, 空气, 水 Alkali, animal oil, vegetable oil, air, water	80	-30~100	不适用矿物油 Mineral oil is not applicable
天然橡胶 Crude rubber	水, 弱酸, 弱碱 Water, weak acid, weak alkali	60	-30~90	不适用矿物油 Mineral oil is not applicable
硅橡胶 Silicon rubber	高、低温油, 矿物油, 动、植物油, 氧, 弱酸, 弱碱 High and low temperature oil, mineral oil, dynamic, vegetable oil, oxygen, weak acid, weak alkali	-60~260	-60~260	不适用蒸汽, 运动部位避免使用 Steam is not applicable, avoid moving parts
氟橡胶 Fluorine rubber	热油, 蒸汽, 空气, 无机酸, 卤素类溶剂 Hot oil, steam, air, inorganic acids, halogen solvents	150	-20~200	-
聚四氟乙烯 PTFE	酸, 碱, 各种溶剂 Acid, alkali, and various solvents	-	-100~260	不适用运动部位 Movement sites are not applicable
Kalrez®	酸, 碱, 油, 各种溶剂 Acid, alkali, oil, and various solvents			



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## JUNMING SEAL

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