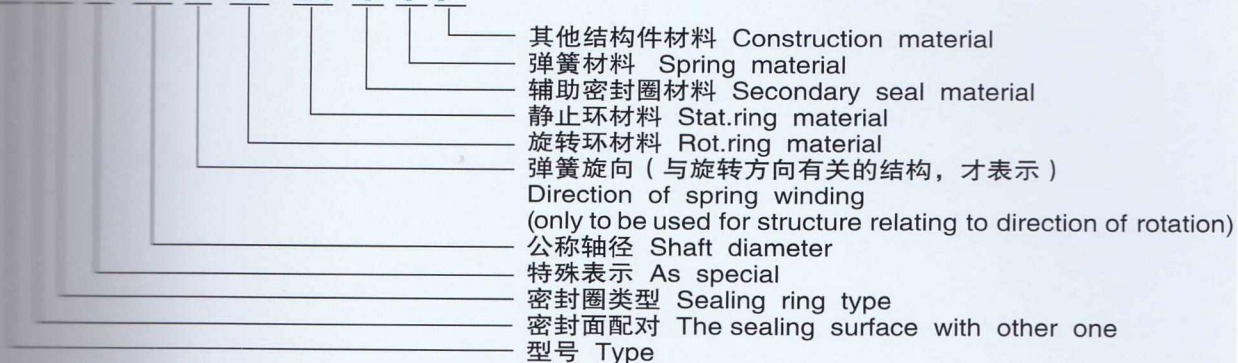


## Table of Mechanical Seal Materials 机械密封材料表

材料代号示例:

Example  
M24N D-80 R-U<sub>5</sub> B<sub>1</sub> V F F

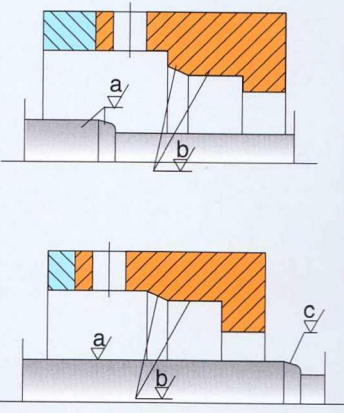


旋转环, 静止环材料 Rotary and Stationary Ring Materials
浸渍巴氏合金碳石墨 Carbon graphite, babbitt impregnated
浸渍锑碳石墨 Carbon graphite, antimony impregnated
浸渍铜合金碳石墨 Carbon graphite, cooper alloy impregnated
浸渍呋喃树脂碳石墨 Carbon graphite, Furan resin impregnated
浸渍环氧树脂碳石墨 Carbon graphite, epoxy resin impregnated
9Cr18 (淬火) (quenching)
0Cr13 堆焊钴铬钨合金 0Cr13/ stellite (head welding)
0Cr18Ni9Ti 堆焊钴铬钨合金 0Cr18Ni9Ti/ stellite (head welding)
0Cr18Ni12Mo2Ti 堆焊钴铬钨合金 0Cr18Ni12Mo2Ti/ stellite (head welding)
钴基碳化钨 (镶嵌) Tungsten carbide with Co-binder (shrunk-in)
镍基碳化钨 (镶嵌) Tungsten carbide with Ni-binder (shrunk-in)
钴基碳化钨 (整体) Tungsten carbide with Co-binder (solid)
镍基碳化钨 (整体) Tungsten carbide with Ni-binder (solid)
钛镶嵌钴基碳化钨 Tungsten carbide with Co-binder/Ti (shrunk-in)
钛镶嵌镍基碳化钨 Tungsten carbide with Ni-binder/Ti (shrunk-in)
碳化硅 (整体) Silicon carbide (solid)
氮化硅 (整体) Silicon nitride (solid)
氧化铝 Al-oxide 99%
氧化铝 Al-oxide 95%
聚四氟乙烯填充玻璃纤维 PTFE, glassfibre reinforced
聚四氟乙烯填充石墨 PTFE, carbongraphite reinforced

代号 Code	辅助密封圈材料 Secondary seal Materials
P	丁腈橡胶 -10~100℃ Nitrile
B	丁基橡胶 -30~150℃ Butyl
E	乙丙橡胶 -40~150℃ Etylene propylene rubber
S	硅橡胶 -70~200℃ Silicon rubber
V	氟橡胶 -10~200℃ Viton
T	聚四氟乙烯 -180~250℃ PTFE

代号 Code	弹簧, 其他结构件材料 Spring and construction Materials
D	碳素钢 C-steel
E	2Cr13, 1Cr17Ni2
F	4Cr13 (只限大弹簧) (Only big spring)
F <sub>1</sub>	1Cr18Ni9 1Cr18Ni9Ti
G	0Cr18Ni9
G <sub>1</sub>	1Cr18Ni12Mo2Ti
G <sub>2</sub>	0Cr17Ni14Mo3
T <sub>1</sub>	钛合金 Titanium alloy
T <sub>2</sub>	哈氏合金 Hastelloy
M <sub>1</sub>	蒙耐尔 Monel

### 轴和密封压盖表面粗糙度 Roughness of Shaft and Clamping Plate

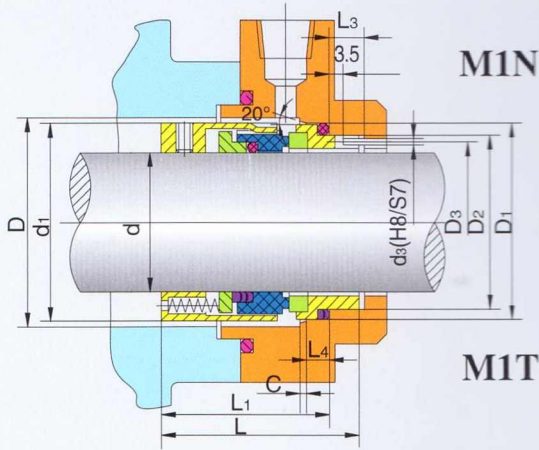


辅助密封圈材料 Secondary Seal Materials	表面粗糙度(Ra) Roughness	
	a	b
弹性材料 Elastomers	1.6um	3.2um
非弹性材料 Non-elastomers	0.8um	1.6um



# SEALING

## 产品介绍(M1) Product introduction (M1)



### 适用范围

介质: 油、水、非结晶性酸、碱、盐、有机溶剂等  
 温度: -20~220℃  
 压力: M1型 0~1MPa  
 MB1型 <4MPa

粘度: <300CP  
 密封端面材料请按表1选配。

### 结构特点

1. 多弹簧、套传动、密封端面受压均匀。使用时与旋转方向无关。弹簧座、弹簧、推环可预先组装为一体，安装方便。
2. 辅助密封圈根据不同情况，可选用橡胶O形圈(N)，聚四氟乙烯V形圈(T)，或聚四氟乙烯楔形圈(W)。
3. 符合ISO3069、DIN24960和GB6556标准，通用性强。
4. M1型和MB1型可自身或相互组成双端面密封。

### 标记示例

MB12W-45-B<sub>1</sub>U<sub>1</sub>TGG

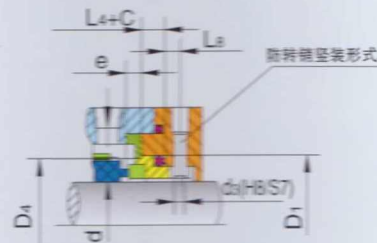
M 12 N D -50-B<sub>1</sub>V<sub>1</sub>E G G

表示静止环具备防轴向移动结构。

注: 本型除提供符合 DIN24960 标准尺寸的静止环外，还可提供世界流行的其他型式的静止环。

M1型尺寸表 Dimension Table

公称轴径	d (h7)	d <sub>1</sub>	D min	D <sub>1</sub> (H8)	D <sub>2</sub> (H11)	D <sub>3</sub>	d <sub>3</sub> (H8)	L (±0.5)	L <sub>1</sub> (±0.5)	L <sub>3</sub>	L <sub>4</sub>	C
18	18	32	34	33	27	23	3	44.5	37.5	9	5	2
20	20	34	36	35	29	25	3	44.5	37.5	9	5	2
22	22	36	38	37	31	27	3	44.5	37.5	9	5	2
24	24	38	40	39	33	29	3	45	38	9	5	2
25	25	39	41	40	34	30	3	45	38	9	5	2
28	28	42	44	43	37	33	3	47	40	9	5	2
30	30	44	46	45	39	35	3	47	40	9	5	2
32	32	46	48	48	42	38	3	48.5	41.5	9	5	2
33	33	47	49	48	42	38	3	48.5	41.5	9	5	2
35	35	49	51	50	44	40	3	48.5	41.5	9	5	2
38	38	54	58	56	49	44	4	52	45	9	6	2
40	40	56	60	58	51	46	4	52	45	9	6	2
43	43	59	63	61	54	49	4	52	45	9	6	2
45	45	61	65	63	56	51	4	52	45	9	6	2
48	48	64	68	66	59	54	4	52	45	9	6	2
50	50	66	70	70	62	57	4	53.5	46.5	9	6	2.5
53	53	69	73	73	65	60	4	53.5	46.5	9	6	2.5
55	55	71	75	75	67	62	4	54.5	47.5	9	6	2.5
58	58	78	83	78	70	65	4	57.5	50.5	9	6.5	2.5
60	60	80	85	80	72	67	4	57.5	50.5	9	6.5	2.5
63	63	83	88	83	75	70	4	59.5	52.5	9	6.5	2.5
65	65	85	90	85	77	72	4	59.5	52.5	9	6.5	2.5
68	68	88	93	90	81	75	4	59.5	52.5	9	7	2.5
70	70	90	95	92	83	77	4	62.6	55.5	9	7	2.5
75	75	99	104	97	88	82	4	65.5	58.5	9	7	2.5
80	80	104	109	105	95	88	4	67	60	9	7	3
85	85	109	114	110	100	93	4	67	60	9	7	3
90	90	114	119	115	105	98	4	67	60	9	7	3
95	95	119	124	120	110	103	4	68	61	9	7	3
100	100	124	129	125	115	108	4	69	62	9	7	3
105	105	133	139	130	120	113	4	70	63	9	7	3
110	110	138	144	136	125	118	4	71	64	9	8	3
115	115	143	149	141	130	123	4	71	64	9	8	3
120	120	148	154	146	135	128	4	71	64	9	8	3
125	125	153	159	152	141	134	5	74.5	66	10.5	10	3
130	130	159	165	158	146	139	5	82	73.5	10.5	10	3
135	135	164	170	163	151	144	5	82	73.5	10.5	10	3
140	140	172	180	173	161	152	5	83	74.5	10.5	10	3
145	145	177	185	178	166	157	5	84	75.5	10.5	10	3
150	150	182	190	183	171	162	5	84	75.5	10.5	10	3
155	155	187	195	188	176	167	6	90	80.5	11.5	12	3
160	160	193	200	193	181	172	6	90	80.5	11.5	12	3
165	165	198	205	198	186	177	6	90	80.5	11.5	12	3
170	170	207	215	203	191	182	6	90	80.5	11.5	12	3
175	175	212	220	213	201	190	6	92	82.5	11.5	12	3
180	180	217	225	218	206	195	6	92	82.5	11.5	12	3
185	185	222	230	223	211	200	6	92	82.5	11.5	12	3
190	190	227	235	228	216	205	6	92	82.5	11.5	12	3
195	195	232	240	233	221	210	6	92	82.5	11.5	12	3
200	200	240	250	238	226	215	6	92	82.5	11.5	12	3



d	e	D4 (B10)	L <sub>3</sub>
14~35	4	D <sub>1</sub> -1.5	5
38~95	6	D <sub>1</sub> -2	
100~120			D <sub>1</sub> -2.5
125~150	7	D <sub>1</sub> -3	
155~200	8	D <sub>1</sub> -4	

表1 密封端面材料选配 Table 1 Selection of Seal Face Materials

型号 Type	旋转环 材料代号 Material Code for Rot. Ring	静止环 材料代号 Material Code for Stat. Ring	线速度 Speed m/s	介质固体 含量 Solid Part wt%
M12 MB12	B <sub>1</sub> B <sub>2</sub> A <sub>1</sub> A <sub>2</sub>	U <sub>1</sub> U <sub>2</sub> U <sub>12</sub> U <sub>22</sub> U <sub>5</sub>	20	0.1
		V <sub>1</sub> V <sub>2</sub>	15	0.1
		J H K E	12	0.05
	Y <sub>1</sub> Y <sub>2</sub>	V <sub>1</sub> U <sub>5</sub>	10	0.03
M14 MB14	U <sub>12</sub> U <sub>22</sub> U <sub>5</sub>	U <sub>12</sub> U <sub>22</sub> U <sub>5</sub>	10	0.3
MB14	U <sub>1</sub> U <sub>2</sub> U <sub>14</sub> U <sub>24</sub>	U <sub>1</sub> U <sub>2</sub> U <sub>14</sub> U <sub>24</sub>	10	0.3









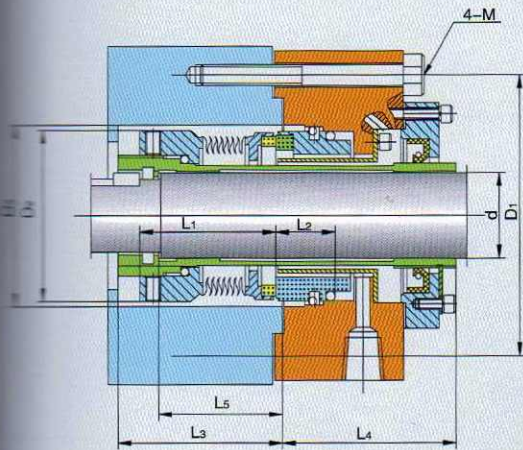


# 产品介绍(MJB2)

Product introduction (MJB2)

MJB2型尺寸表 Dimension Table

公称直径	d	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub> min	L <sub>4</sub> min	L <sub>5</sub>	Φ
45	35	110	67	70	64	25	76	70	99.5	10
50	40	125	72	75	64	25	76	70	99.5	12
55	45	130	78	80	64	30	85	70	100	12
60	50	140	83	85	64	30	85	70	100	12
65	55	155	88	90	64	30	85	70	110	12
70	60	160	97	100	64	30	85	76	131	12
80	65	165	103	105	64	30	90	80	131	12
85	75	170	108	110	64	30	90	80	131	16
90	80	175	115	120	63	30	90	80	131	16
95	85	180	120	125	63	30	90	85	131	16
100	90	180	125	130	63	30	96	100	131	18
110	95	190	135	142	63	30	96	100	140	18
120	105	200	145	150	63	30	96	100	140	18
130	115	210	155	160	63	30	98	100	140	20



### 适用范围

介质：高、低温油、水及其它溶液

温度：-210~450℃

压力：0~3 MPa

线速度：<15m/s

### 结构特点

集装式结构，密封面采用低膨胀系数不锈钢镶嵌硬质合金或SiC，辅助密封圈采用金属空心“O”形圈形式，耐高温、极低温、高压性能好，附加强制外循环冷却系统，该类型机封特别适用于采油厂极低温油、气泵等。

### Applications

Medium: high and low temperature oil, water and other solution agent

Temperature: -210~450℃

Pressure: 0~3MPa

Speed: <15 m/s

### Structure feature

Assembly structure, sealing surface is made of stainless steel embedded with low expansion SiC or hard alloy. Auxiliary sealing ring is made up of metal O ring with forced outside circulation cooling system, which is highly resistant against high temperature, low temperature and high pressure. This type of mechanical sealing is perfectly suitable for extremely low temperature application, pneumatic pumps in oil-making plant.

