宏腾机械密封
HONG TENG MECHANICAL SEAL CO.,LTD

汽车冷却泵密封件与叶轮

AUTOMOTIVE COOLING PUMP SEALS & IMPELLERS

PRODUCT CATALOG







HONG TENG SEALS

DongGuan Hong Teng Seals Co., LTD

Mechanical Seals | Cooling Pump Seals | Impellers

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企业简介

Company Indroduction









东莞宏腾密封件有限公司是一家专注于机械密封研发、制造、销售一体的公司，生产的产品包括:釜用机械密封、集装式机械密封、搅拌机机械密封、汽车冷却泵机械密封、金属波纹管机械密封，产品规格种类齐全。产品广泛应用于石油、化工、印染、泵阀、食品、制药、等行业。产品适用于连城、南方、苏尔寿、格兰富、凯士比、荏原、飞力、阿发拉阀、威乐、约翰克兰等知名水泵厂

Dongguan Hongteng Seal Co., Ltd. is a company specializing in the research and development, manufacturing, and sales of mechanical seals. Its products include kettle mechanical seals, containerized mechanical seals, mixer mechanical seals, automotive cooling pump mechanical seals, and metal bellows mechanical seals, with a complete range of product specifications. The product is widely used in industries such as petroleum, chemical, printing and dyeing, pump and valve, food, pharmaceuticals, etc.

The product is suitable for well-known water pump factories such as Liancheng, Nanfang, Sulzer, Grundfos, KSB, EBARA, FLYGT, Alfa Laval, Wilo, John Crane, etc

材料类型 *Material Type*

材料类型 Type	EN12756代号 Code	材料简写 Symbol	名称 Name	
密封面材料 / Seal ring material				
石墨类 Carbon	A	M106D	浸锑石墨	Antimony impreg.Carbon Graphite
	B	M188K	浸树脂石墨	Resin Impregnated Carbon Graphite
碳化硅类 Silicon Carbide	Q_1	SSiC	无压烧结碳化硅	Silicon Carbide,Sintered Pressureless
	Q_{12}		镶装无压烧结碳化硅	Silicon Carbide,Sintered Pressureless(shrunk-in)
	Q_2	SiC	反应烧结碳化硅	Silicon Carbide,Reaction bonded
	Q_{22}		镶装反应烧结碳化硅	Silicon Carbide,Reaction bonded(shrunk-in)
	Q_3		浸硅碳	Reaction Silicon Carbide with Graphite
	Q_{32}		镶装浸硅碳	Reaction Silicon Carbide with Graphite(shrunk-in)
	Q_4		表面渗硅碳	Sintered Silicon Carbide with SB
硬质合金类 Tungsten Carbide	U_1	YG6/YG8	钴基硬质合金	Co-binder Tungsten Carbide
	U_{12}		镶装钴基硬质合金	Co-binder Tungsten Carbide(shrunk-in)
	U_2	YWN8	镍基硬质合金	Ni-binder Tungsten Carbide
	U_{22}		镶装镍基硬质合金	Ni-binder Tungsten Carbide(shrunk-in)
	U_3	W7	镍钴钼基硬质合金	NiCrMo-binder Tungsten Carbide
	U_{32}		镶装镍钴钼基硬质合金	NiCrMo-binder Tungsten Carbide(shrunk-in)
陶瓷类 Ceramics	V	99.7%AL_2O_3	氧化铝99.7%	Ceramic(Al-Oxide) 99.7%
	V_2	97.5%AL_2O_3	氧化铝97.5%	Ceramic(Al-Oxide) 97.5%
塑料类 Plastic	Y_1		填充玻璃纤维PTFE	PTFE,Glassfibre Reinforced
	Y_2		填充石墨PTFE	PTFE,Carbon Reinforced
辅助密封类 / Secondary seal materials				
橡胶类弹性体 Rubber Elastomer	B	IIR	丁基橡胶	Butyl Rubber
	E	EPDM	三元乙丙橡胶	Ethylene Propylene
	K	FFKM	全氟橡胶	Perfluoroelastomer(Kalrez,Chemraz)
	N	CR	氯丁橡胶	Chloroprene Rubber
	P	NBR	丁腈橡胶	Nitrile
	S	MVQ	硅橡胶	Silicon Rubber
	V	FPM	氟橡胶	Fluorocarbon Rubber
	X	FEPM	四丙氟橡胶	Tetrapropyl Fluoro Elastomer
包覆弹性体 Coated Elastomer	M_1	PTFE+FPM	双层PTFE包覆的氟橡胶	FPM,with PTFE Wrapped
	M_2	PTFE+EPR	双层PTFE包覆的乙丙橡胶	EPR,with PTFE Wrapped
	M_3	PTFE+MVQ	双层PTFE包覆的硅橡胶	MVQ,with PTFE Wrapped
	M_4	PTFE+CR	双层PTFE包覆的氯丁橡胶	CR,with PTFE Wrapped
	M_5	FEP	聚全氟乙丙烯包覆的氟橡胶	Fluorocarbon Rubber with Poly Ethylene Propylene
非弹性体 Nonelastic	Y_1		非石棉密封垫	Non Asbestos Gasket
	G		柔性石墨	Expanded graphite
	T	PTFE	聚四氟乙烯	Polyfluortetraethylene
	T_2		填充玻璃纤维PTFE	PTFE,Glassfibre Reinforced
	T_3		填充石墨PTFE	PTFE,Carbon Reinforced
	T_{12}		填充碳石墨的PTFE	PTFE,Carbon Graphite
弹性及其他结构材料 / Spring and other metal materials				
弹性材料 Spring Material	G		316L	
	M		Hast.C4	
结构材料 Metal Material	F		304	
	F_1		2Cr13/3Cr13	
	G		316L	
	M		Hast.C4	
	M_1		Hast.B2	
	M_3		Carp.20	
	M_4		Monel.K50	
	M_5		Hast.c276	
	T_2		TA2	
	T_4		Carp.42	
	T_6		AM350	
	M_6		Incon.718	

宏腾机械密封
HONG TENG MECHANICAL SEAL CO.,LTD

冷却泵用密封件 Cooling Pump Mechanical Seal


HT F 01


HT FB 02


HT FB(Inch) 03


HT FBWE 04


HT FBM 05


HT FW 06


HT FBW 07


HT FBU 08


HT FBS 09


HT FBMT 10


HT FG 11


HT FH 12


HT FK 13


HT FT/SB 14


HT FTK 15


HT FTK2 16


HT FTS 17


HT FL 18


HT TB 19


HT K 20


HT T 21

HT F



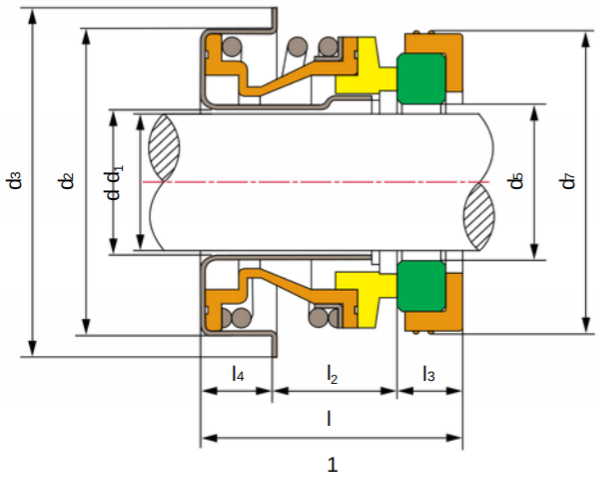
技术参数：
压力：≤0.3MPa
转速：≤5000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤5000r/min
Temperature: -30℃～+150℃ Medium: Clean water, seawater, gas engine antifreeze

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 辅助密封(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 弹簧及金属件(不锈钢)

- Rotary Ring(Ceramic/SiC)
- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring & Other Parts (SUS304/SUS316)



HT-F										
model	d(inch)	d1	d2	d3	d5	d7	l1	l2	l3	l4
HT-F-1/2"	12.700	14.2	30	35	13.5	25.4	119.2	5	6.2	8
HT-F-5/8"	15.875	18.2	36.5	41.5	17.5	31.75	25	6.7	10.3	8
HT-F-3/4"	19.050	21.2	40	43.8	20	34.925	25.8	5.5	10.3	10
HT-F-1"	25.400	26.4	47	51	27	41.275	29	5.9	11.1	12
model	d1(mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4
HT-F-10	10	11	24	29	12	23	17	6	4	
HT-F-12S	12	14.2	28.57	32	14	25	18.2	5.2	5	8
HT-F-12M	12	14.2	30	35	15	23/24	18	5	5	8
HT-F-12L	12	14.2	33.3	38	14	25	18	6.3	5	6.7
HT-F-16	16	18.2	36.5	41.5	18	31	19.8	6.8	5	8
HT-F-16L	16	18.2	38.1	43.5	18	31	19.8	6	5	8.8
HT-F-16LD	16	18.2	38.1	43.5	18	31	19.8	6	5	8.8
HT-F-20S	20	21.2	38	43.8	21	35	20.5	5.5	5	10
HT-F-20	20	21.2	40	43.8	21	35	20.5	5.5	5	10
HT-F-25S	25	26.4	46	51	26	44	25	8	7	10
HT-F-25	25	26.4	47	51	26	44	25	6	7	12
HT-F-25L	25	26.4	52	57	27	48	25	6	7	12
HT-F-30	30	31	52	57	32	48	27	8	8	11



16LD

HT FB

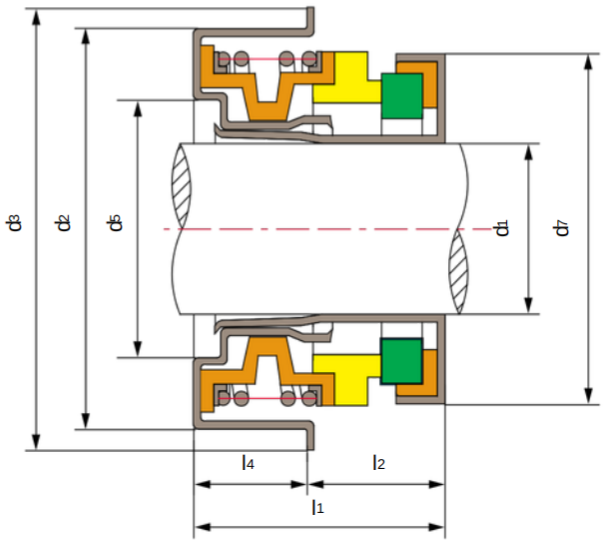
技术参数：

压力：≤0.3MPa

转速：≤9000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤9000r/min Temperature: -30℃～+150℃ Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 辅助密封(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 弹簧及金属件(不锈钢)

- Rotary Ring(Ceramic/SiC)
- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring & Other Parts (SUS304/SUS316)

HT-FB								
model	d1(mm)	d2	d3	d5	d7	l1	l2	l4
HT-FB-12S	12	28.57	32.0	18.5	25/26	18.2	10.2	8
HT-FB-12M	12	30.0	35.0	18.5	25/26	18.2	10.2	8
HT-FB-12L	12	33.3	38.0	18.5	25/26	18.2	11.5	6.7
HT-FB-13	13	30.0	35.0	18.5	25	18	10.0	8
HT-FB-15	15	36.5	41.5	22.5	30.5	20.5	12.0	8.5
HT-FB-16	16	36.5	41.5	22.5	30.5	20.5	12.0	8.5
HT-FB-16B	16	36.5	41.5	22.5	28	20.0	12.0	8.5
HT-FB-16T	16	36.5	41.5	19.3	31.5	20.5	11.5	9
HT-FB-16L	16	38.1	43.5	22.5	30.5	20.5	11.7	8.8
HT-FB-16LD	16	38.1	43.5	22.5	28.5	20.5	11.7	8.8
HT-FB-20	20	38/40	43.8	26.5	37	22.0	12.5	9.5
HT-FB-20T	20	40.0	43.8	28.0	37	22.0	12.5	9.5

HT FB(INCH)

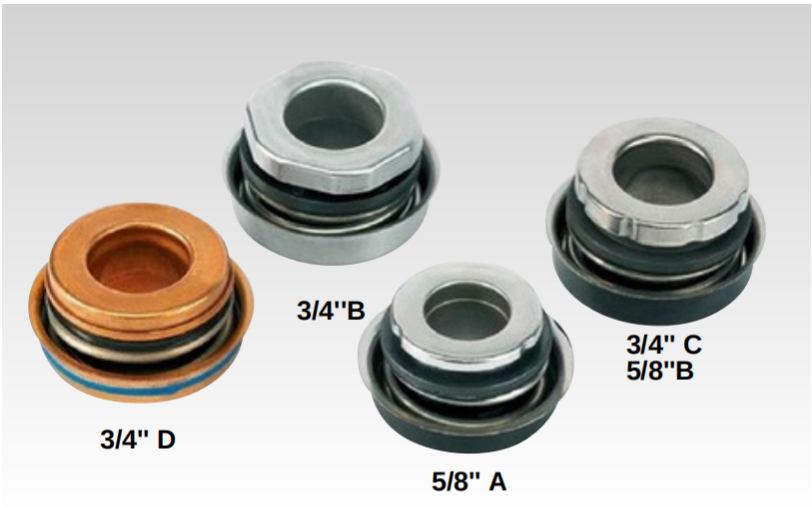
技术参数：

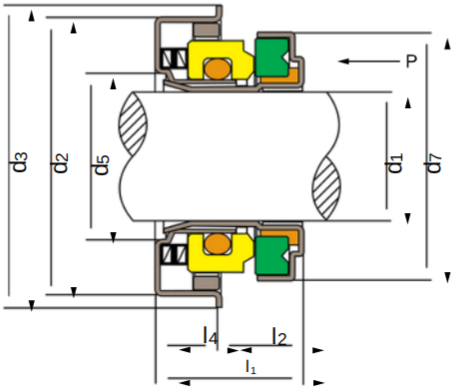
压力：≤0.3MPa

转速：≤9000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

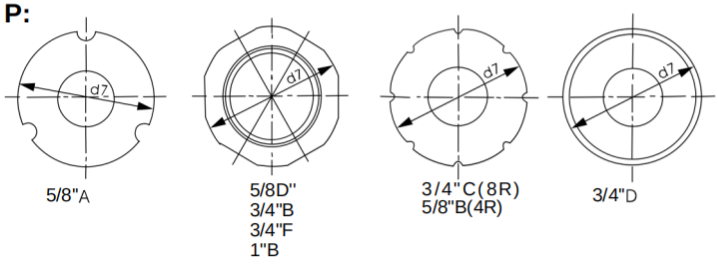
Operating Limits

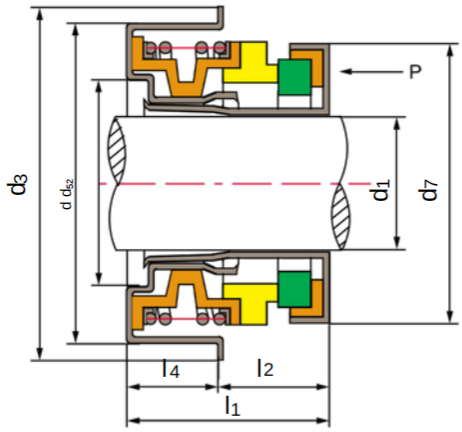
Pressure: ≤0.3MPa
Rotary Speed: ≤9000r/min Temperature: -30℃～+150℃ Medium: Clean water, seawater, gas engine antifreeze





View P:





动环(陶瓷/碳化硅)
静环(热压石墨/ 车制石墨 /碳化硅)
辅助密封(丁腈胶/ 三元乙丙胶 /氢化丁腈胶 /氟胶)
弹簧及金属件 (不锈钢/ 紫铜)

Rotary Ring(Ceramic/SiC)
Stationary Ring(Plastic Carbon/Carbon/SiC)
Secondary Seal (NBR/EPDM/HNBR/VITON)
Spring & Other Parts (SUS304/SUS316/Red Cooper)

HT-FB(inch)								
model	d1(mm)	d2	d3	d5	d7	l1	l2	l4
HT-FB-16E	16	36.5	41.5	22.5	28	20.5	12	8.5
model	d1(inch)	d2	d3	d5	d7	l1	l2	l4
HT-FB-1/2"S	12.7	28.57	32	18.5	25	17.5	9.5	8
HT-FB-1/2"M	12.7	30	35	18.5	25	17.5	9.5	8
HT-FB-5/8"	15.875	36.5	41.5	22.5	30.5	20.5	12	8.5
HT-FB-3/4"	19	40	13.8	26.5	37	22	12.5	9.5
HT-FB-5/8"A	15.875	36.5	41.5	22	29	20	11.5	8.5
HT-FB-5/8"B	15.875	36.5	41.8	22	28	21	12.5	8.5
HT-FB-5/8"D	15.875	36.5	41	20.8	32	20	11	9
HT-FB-3/4"B	19.05	40	43.8	23	35.8	22	12.8	9.2
HT-FB-3/4"C	19.05	40	43.8	23	34	22	12.8	9.2
HT-FB-3/4"D	19.05	40	44	22	36.5	19.5	10.9	8.6
HT-FB-3/4"F	19.05	40	43.8	24.2	36	20	11.1	8.9
HT-FB-1"A	25.4	50.8	55.6	30.2	42.3	28	15.2	12.8

HT FBWE

技术参数：

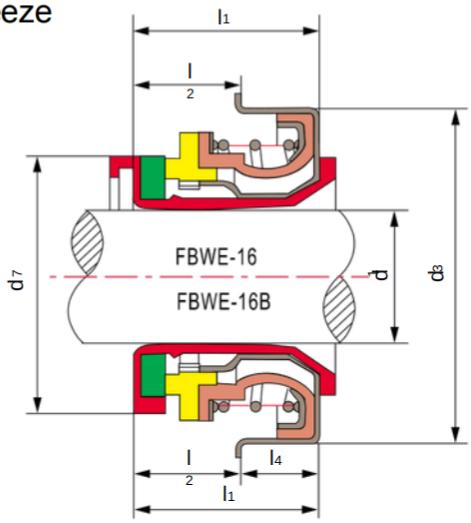
压力：≤0.3MPa

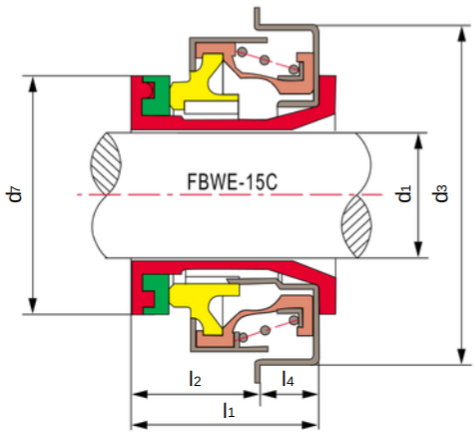
转速：≤7000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液



Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤7000r/min
Temperature: -30℃～+150℃ Medium: Clean water, seawater, gas engine antifreeze





- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(不锈钢)
- 轴套(丁腈胶/氢化丁腈胶/氟胶)
- 静环座(黄铜/不锈钢)
- 波纹管(丁腈胶/氢化丁腈胶/氟胶)
- 弹簧座(黄铜/不锈钢)
- 压圈(黄铜/不锈钢)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (SUS304/SUS316)
- Axial Pipe (NBR/HNBR/VITON)
- Stationary Seat (Brass/SUS304)
- Bellows (NBR/HNBR/VITON)
- Spring Holder (Brass/SUS304)
- Drive Ring (Brass/SUS304)

HT-FBWE						
model	d1(mm)	d2	d7	l1	l2	l4
HT-FBWE-16	16	16.5	28.65	19.5	12	7.5
HT-FBWE-16B	16	16.5	31.5	19.5	11.5	8
HT-FBWE-15C	15	16.5	28.5	18.5	11.5	7
HT-FBWE-16D	16	16.5	27	19.9	12.4	7.5

HT FBM

技术参数：

压力：≤0.3MPa

转速：≤9000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

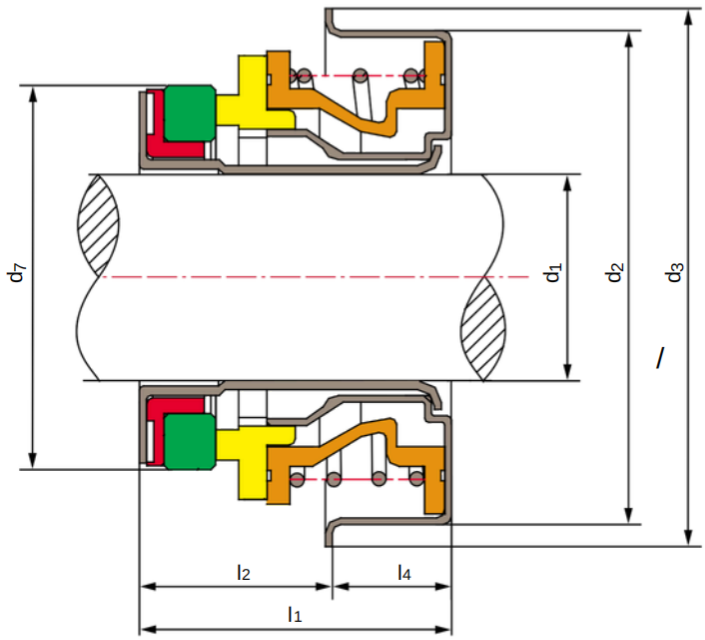


Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤9000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze

- 动环(陶瓷/ 碳化硅)
- 静环(热压石墨/ 车制石墨 /碳化硅)
- 弹簧(锰钢/ 不锈钢)
- 轴套(不锈钢)
- 静环座 (不锈钢)
- 波纹管 (丁腈胶/ 三元乙丙胶 /氢化丁腈胶 氟胶)
- 动环套 (丁腈胶/ 三元乙丙胶 /氟胶)

- *Rotary Ring (Ceramic/SiC)*
- *Stationary Ring (Plastic Carbon/Carbon/SiC)*
- *Spring (65Mn/SUS304/SUS316)*
- *Axial Pipe (SUS304/SUS316)*
- *Stationary Seat (SUS304/SUS316)*
- *Bellows (NBR/EPDM/HNBR/VITON)*
- *Cup Gasket (NBR/EPDM/VITON)*



HT-FBM							
model	d1(mm)	d2	d3	d7	l1	l2	l4
HT-FBM-12S	1612	28.57	32.0	24	18.5	10.5	8
HT-FBM-12M	12	30.00	35.0	24	18.5	10.5	8
HT-FBM-12L	12	33.40	38.0	24	18.5	11.8	6.7
HT-FBM-16	16	36.50	41.6	26	20.5	12	8.5
HT-FBM-16L	16	38.10	43.5	26	20.5	11.7	8.8
HT-FBM-16LX	16	39.30	43.6	26	20	11.3	8.7
HT-FBM-20	20	40.00	43.8	29.5	21.5	12	9.5

HT FW



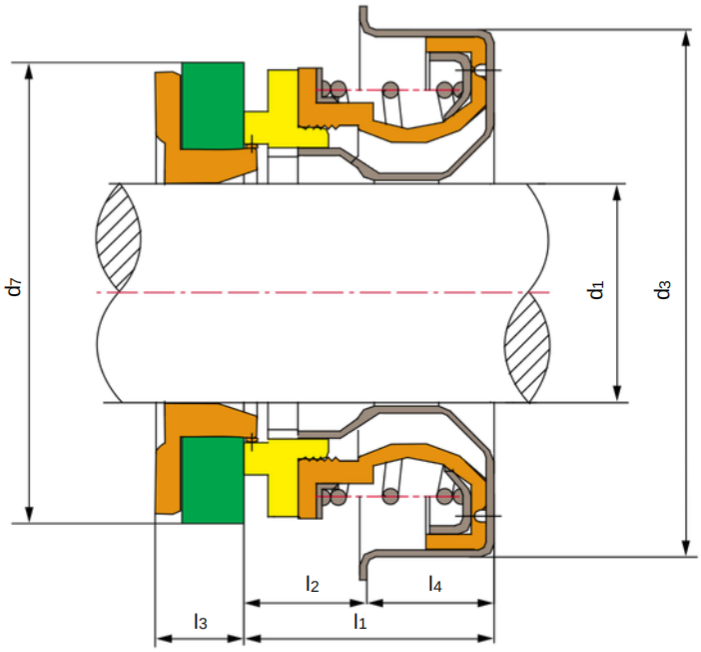
技术参数：

压力：≤0.3MPa

转速：≤5000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤5000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(锰钢/不锈钢)
- 静环座(不锈钢)
- 压圈(不锈钢)
- 波纹管(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 弹簧座(不锈钢)
- 动环套(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (65Mn/SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Drive Ring (SUS304/SUS316)
- Bellows (NBR/EPDM/HNBR/VITON)
- Spring Retainer (SUS304/SUS316)
- Cup Gasket (NBR/EPDM/HNBR/VITON)

HT-FW							
model	d1(mm)	d3	d7	l1	l2	l3	l4
HT-FW-12	12	30	24	14.5	6.5	5	8
HT-FW-15	15	36.5	28.4	15.7	7.7	5	8
HT-FW-16	16	36.5	28.4	15.7	7.7	5	8
HT-FW-16L	16	38.1	28.4	15.7	7	5	8.7
HT-FW-19	19	40	34	17.5	6.5	6	11
HT-FW-20	20	40	34	17.5	6.5	6	11

HT FBW

技术参数：

压力：≤0.3MPa

转速：≤9000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

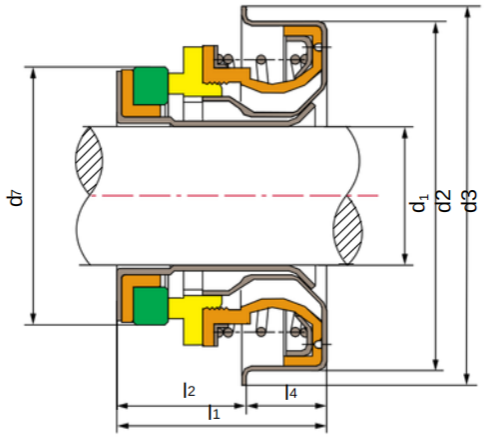


Operating Limits

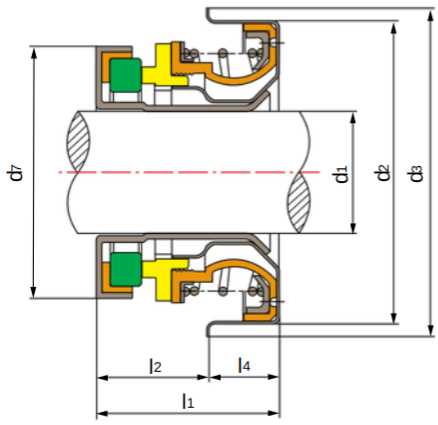
Pressure: ≤0.3MPa
Rotary Speed: ≤9000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater,
gas engine antifreeze

- 动环(陶瓷/ 碳化硅)
- 静环(热压石墨/ 车制石墨 /碳化硅)
- 辅助密封(丁腈胶/ 三元乙丙胶 氢化丁腈胶/氟胶)
- 弹簧及冲件(不锈钢)

- Rotary Ring(Ceramic/SiC)
- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring & Other Parts (SUS304/SUS316)



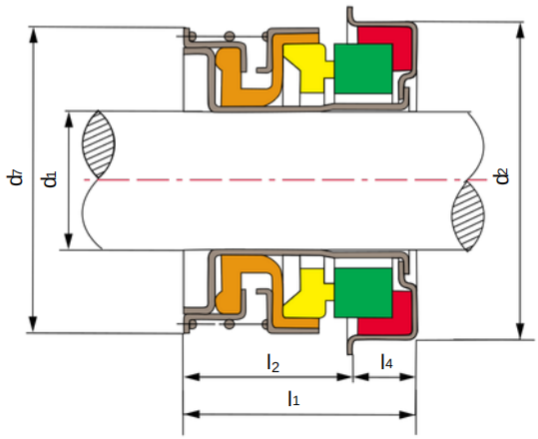
TYPE A



TYPE B

HT-FBW							
.	d1(mm)	d2	d3	d7	l2	l4	TYPE
HT-FBW-10	10	36.5	35	23.5	13	8	B
HT-FBW-12C	12	30	35	28.5	14.7	7	B
HT-FBW-12M	12	30	35	24	20	8	A
HT-FBW-15	15	30	41	29	19.9	8	A
HT-FBW-15A	15	36.5	41	32.5	19.3	8	B
HT-FBW-16	16	36.5	41	29	19.9	8	A
HT-FBW-16B	16	36.5	41	32.5	19.4	8.2	B
HT-FBW-16C	16	36.5	41	30.5	20.1	8.7	B
HT-FBW-16L	16	38.1	43.6	29	19.8	8.5	A
HT-FBW-20	20	40	43.8	34	20.0	9.5	A
model	d1(inch)	d2	d3	d7	l2	l4	TYPE
HT-FBW-1/2"A	12.7	30	35	28.5	25	7	B
HT-FBW-1/2"C	12.7	30	35	24.8	25	9.5	B





HT FBU

技术参数：

压力：≤0.3MPa

转速：≤7000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤7000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(锰钢/不锈钢)
- 轴套(不锈钢)
- 静环座(不锈钢)
- 压圈(不锈钢)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 弹簧座(不锈钢)
- 动环套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (65Mn/SUS304/SUS316)
- Axial Pipe (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Drive Ring (SUS304/SUS316)
- Bellows (NBR/EPDM/HNBR/VITON)
- Spring Holder (SUS304/SUS316)
- Cup Gasket (NBR/EPDM/HNBR/VITON)

HT-FBU						
model	d1(mm)	d2	d7	l1	l2	l4
HT-FBU-15	15	36.5	32.5	20.8	11.3	9.5
HT-FBU-16S	16	36.5	28/28.5	21	11.5	9.5
HT-FBU-16L	16	41.3	32.5	20.8	11.3	9.5
HT-FBU-25	25	36.5	40.8	30	21.2	9.8

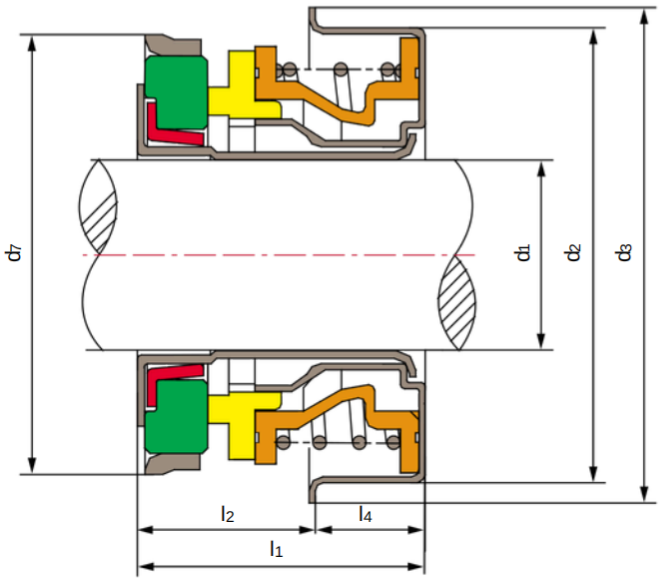


HT FBS

技术参数：

压力：≤0.3MPa

转速：≤6800r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液



Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤6800r/min
Temperature: -30℃ ～+150℃
Medium: Clean water, seawater, gas engine antifreeze

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(锰钢/不锈钢)
- 轴套(不锈钢)
- 静环座(不锈钢)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 动环外套(不锈钢)
- 动环内套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (65Mn/SUS304/SUS316)
- Axial Pipe (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Bellows (NBR/EPDM/HNBR/VITON)
- Outside Cup Gasket (SUS304/SUS316)
- Inside Cup Gasket (NBR/EPDM/HNBR/VITON)

HT-FBS							
model	d1(mm)	d2	d3	d7	l1	l2	l4
HT-FBS-16S	16	34.2	38.8	30.6	18	12.4	5.6
HT-FBS-16M	16	36.5	41.6	30.6	20.5	12	8.5
HT-FBS-16L	16	38.1	43.5	30.6	20.5	11.8	8.7
model	d1(inch)	d2	d3	d7	l1	l2	l4
HT-FBS-1/2"L	12.7	33.3	38.1	27.5	18	9.3	8.7

HT FBMT



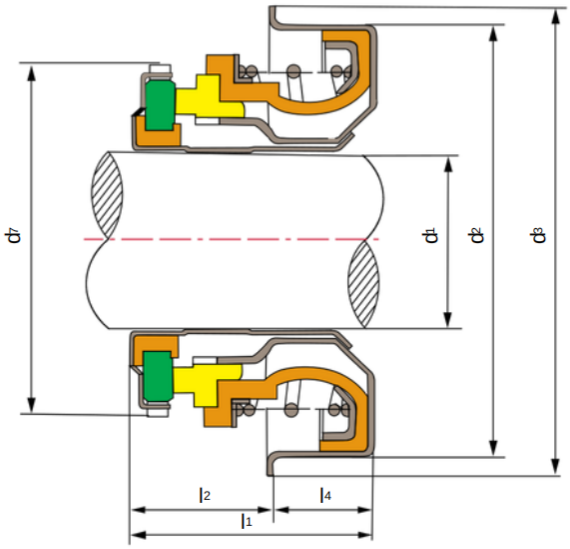
技术参数：

压力：≤0.3MPa

转速：≤9000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤9000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(不锈钢)
- 静环座(不锈钢/紫铜)
- 压圈A(不锈钢)
- 压圈B(不锈钢)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 动环套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 轴套(不锈钢)

- Rotary Ring(Ceramic/SIC)
- Stationary Ring(Plastic Carbon/Carbon/SIC)
- Spring(SUS304/SUS316)
- Stationary Seat(SUS304/SUS316/Red Cooper)
- Drive Ring A(SUS304/SUS316)
- Drive Ring B(SUS304/SUS316)
- Bellows(NBR/EPDM/HNBR/VITON)
- Cup Gasket(NBF/EPDM/HNBR/VITON)
- Axial Pipe(SUS304/SUS316)

HT-FBMT							
model	d1(mm)	d2	d3	d7	l1	l2	l4
HT-FBMT-12	12	30	35	26.5	17.6	9.6	8
HT-FBMT-12A	12	30	34	26.5	16.9	9.3	7.6
HT-FBMT-15	15	36.5	40	31.2	18.5	10.5	8
HT-FBMT-15A	15	36.5	42	31.2	18	10	8
model	d1(inch)	d2	d3	d7	l1	l2	l4
HT-FBMT-5/8"	15.875	36.5	40	31.2	18.5	10.5	8
HT-FBMT-5/8"A	15.875	36.5	42	31.2	18	10	8

HT FG

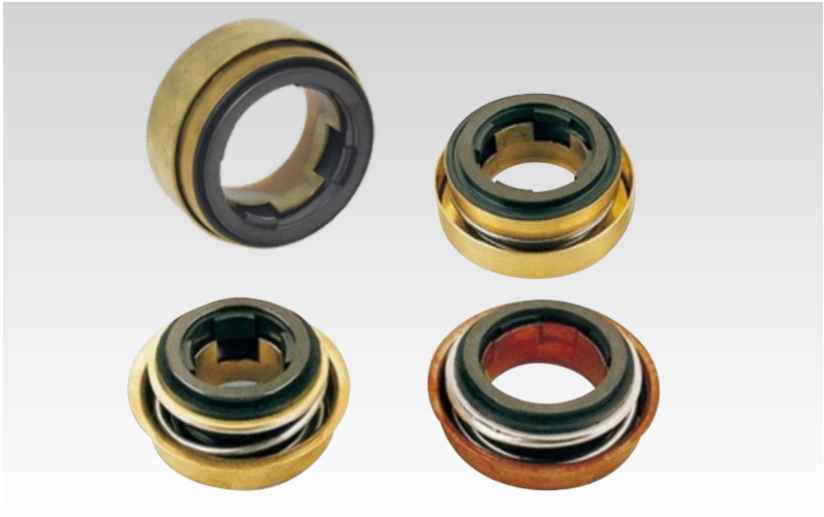
技术参数：

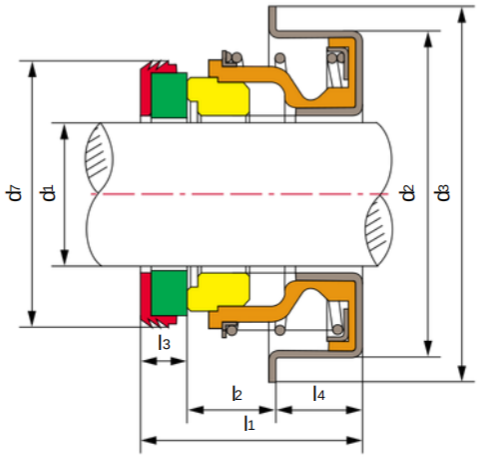
压力：≤0.3MPa

转速：≤4800r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

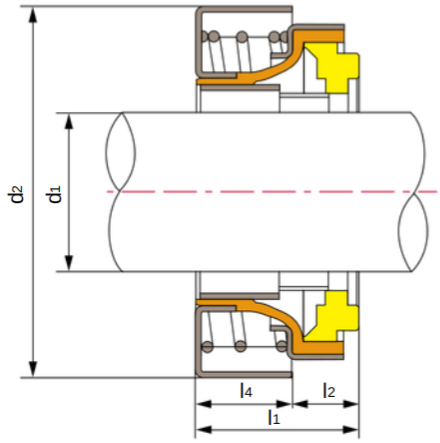
Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4800r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze





HT FG-16/20



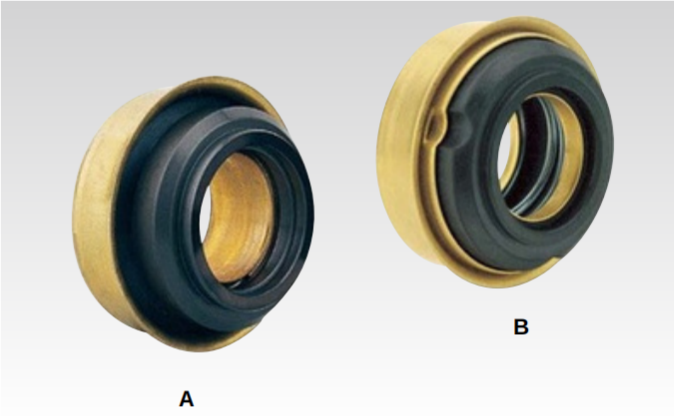
HT FG-25/25L/30

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(不锈钢)
- 静环座(不锈钢/黄铜/紫铜)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 动环套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316/Brass/Red Cooper)
- Bellows (NBR/EPDM/HNBR/VITON)
- Cup Gasket (NBR/EPDM/HNBR/VITON)

HT-FG								
model	d1(mm)	d2	d3	d7	l1	l2	l3	l4
HT-FG-15	15	36.5	40	28.4	20	6.5	5	8.5
HT-FG-16	16	36.5	42	29.5	22.8	7.8	5	10
HT-FG-16A	16	36.5	40	29.5	22.5	9	5	8.5
HT-FG-20	20	40	44	35	20.5	6.9	5	8.6
HT-FG-25	25	47	/	/	20.3	5.3	/	15
HT-FG-25L	25	52	/	/	22.8	10.8	/	12
HT-FG-30	30	52	/	/	22	6	/	16

HT FH



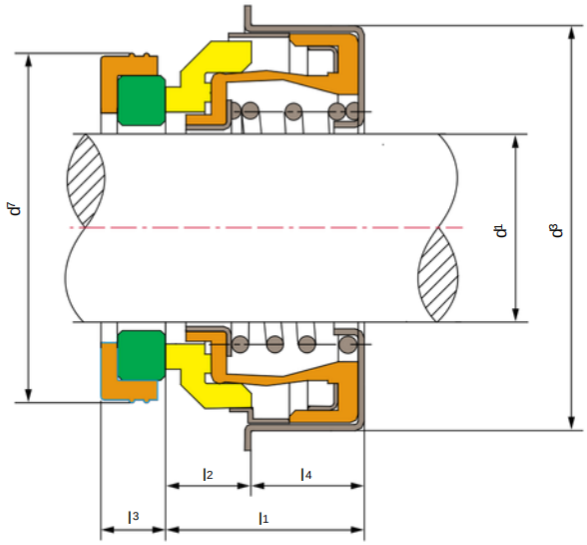
技术参数：

压力：≤0.3MPa

转速：≤4000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(锰钢/不锈钢)
- 弹簧座(黄铜)
- 传动套(黄铜)
- 压圈(黄铜)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 动环套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (65Mn/SUS304/SUS316)
- Spring Holder (Brass)
- Retainer (Brass)
- Drive Ring (Brass)
- Bellows (NBR/EPDM/HNBR/VITON)
- Cup Gasket (NBR/EPDM/HNBR/VITON)

HT-FH							
model	d1(mm)	d2	d7	l1	l3	l2	l4
HT-FH-20A	20	40	33/33.5	17.5	6.5/5.5	6.5	11
HT-FH-20B	20	40	33/33.5	17.5	6.5/5.5	6.5	11

HT FK

技术参数：

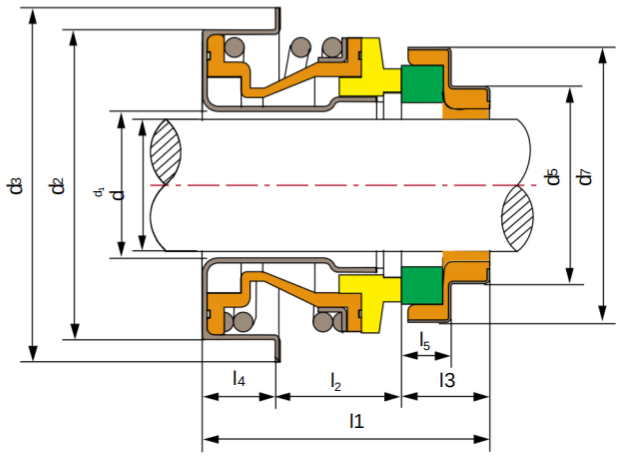
压力：≤0.3MPa

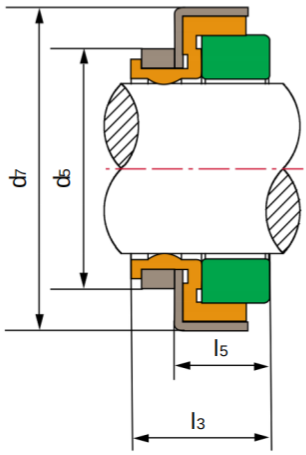
转速：≤4500r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液



Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4500r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze





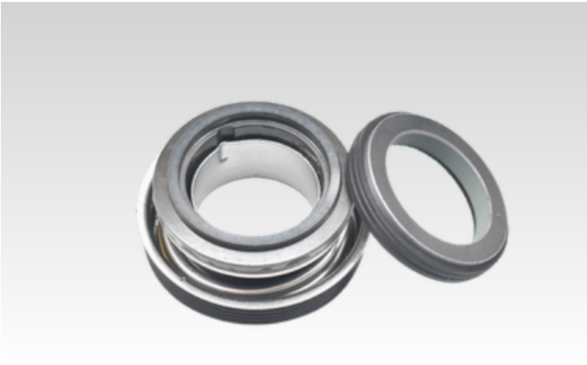
HT FK-30/40

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 弹簧(不锈钢)
- 静环座(不锈钢)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 动环骨架(不锈钢/Q235-A)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Bellows (NBR/EPDM/HNBR/VITON)
- Rotary Ring Holder (SUS304/SUS316/Q235-A)

HT-FK											
model	d(mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4	l5
HT-FK-16	16	18.2	36.5	41.5	23	33	24.8	6.8	10	8	5
HT-FK-16L	16	18.2	38.1	43.5	23	33	24.8	6.0	10	8.8	5
HT-FK-19	19	19.2	32.5	36.0	23	32	26.5	8.5	10	8	5.5
HT-FK-20S	20	21.2	38.1	43.8	32	37	28.0	8.5	11.5	8	5
HT-FK-20L	20	21.2	40	43.8	27	38	26.5	6.5	10	10	5
HT-FK-25S	25	26.4	46	51	30.5	47	31.8	8.8	13	10	8.5
HT-FK-25S	25	26.4	47	51	30.5	47	31.8	6.8	13	12	8.5
HT-FK-30	30	31	52	57	42.8	50	35.5	9.5	15	11	9.5
HT-FK-40	40	41.2	69	75	50.8	65	45.8	12.0	21	12.8	13

HT FT



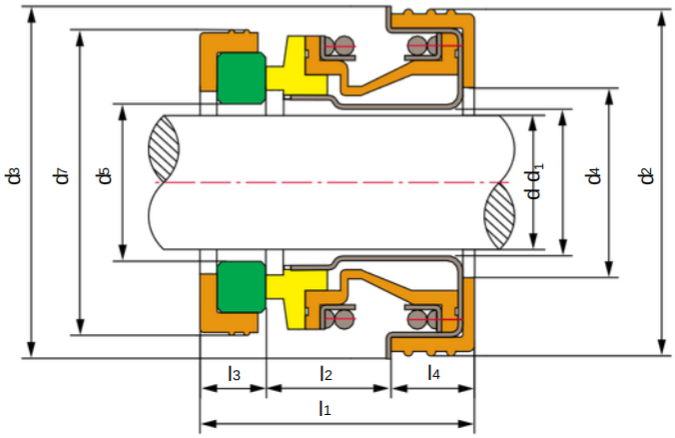
技术参数：

压力：≤0.3MPa

转速：≤5000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤5000r/min
Temperature: -30℃～ +150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/ 碳化硅)
- 静环(热压石墨/ 车制石墨 /碳化硅)
- 辅助密封(丁腈胶/ 三元乙丙胶 氢化丁腈胶/氟胶)
- 弹簧及冲件(不锈钢)

- Rotary Ring(Ceramic/SiC)
- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring & Other Parts (SUS304/SUS316)

HT-FT										
.	d1(mm)	d2	d3	d4	d5	d7	l1	l2	l3	l4
HT-FT-10	10	11	27	29	15	23	19	4.5	4	10.5
HT-FT-12	12	14.2	32	32	20	25	19.2	5.2	5	9
HT-FT-16	16	18.2	41	41.5	22	31	21.8	7.8	5	9
HT-FT-20	20	21.2	45	43.8	30	35	22.5	5.5	5	12
HT-FT-25	25	26.4	52	51	35	44	27	5.5	7	14.5
HT-FT-30	30	31	58	57	40	48	29	7.7	8	13.3

HT-SB								
model	d1(mm)	d2	d3	d7	l1	l2	l3	l4
HT-SB-20	20	40	43.8	36	29.5	12	7	10.5
HT-SB-25	25	50	51	42	31.5	10	8	13.5
HT-SB-28	28	54	57	45	31.5	9.5	7.5	14.5
HT-SB-30	30	54	57	45	32.2	9.5	8.2	14.5

注： FT与SB的外形一样，只有尺寸不同
Note : For FT and SB the appearance is same , the dimension is different

HT FTK

技术参数：

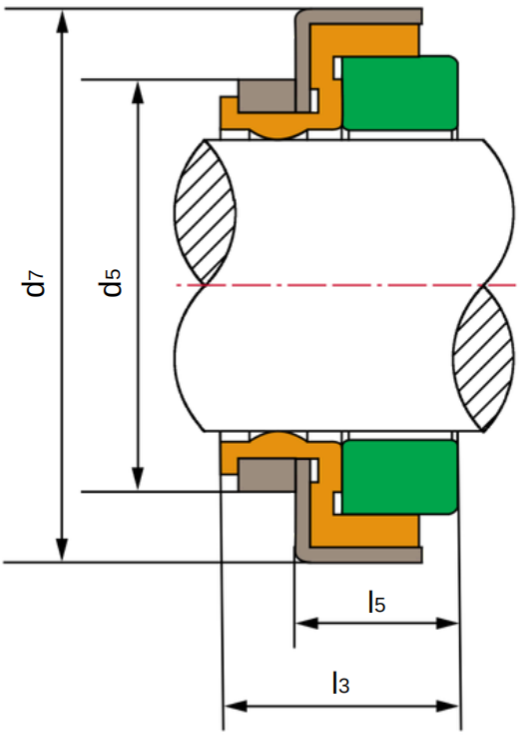
压力：≤0.3MPa

转速：≤4500r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液



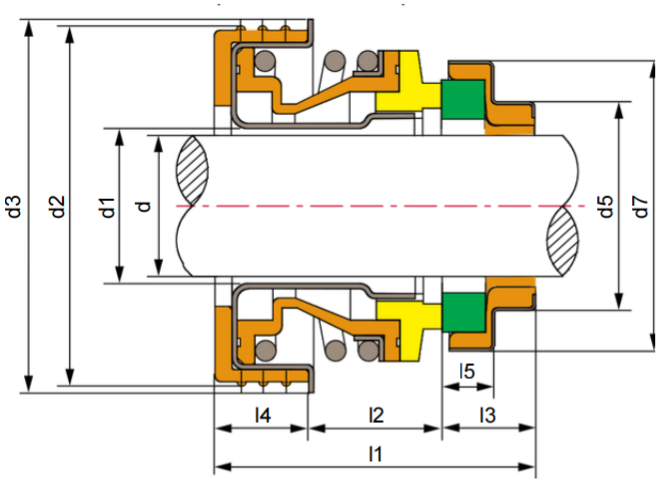
Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4500r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/ 碳化硅)
- 静环(热压石墨/ 车制石墨 /碳化硅)
- 弹簧(不锈钢)
- 静环座(不锈钢)
- 辅助密封(丁腈胶/ 三元乙丙胶 氢化丁腈胶/氟胶)
- 动环骨架(不锈钢/Q235-A)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Rotary Ring Holder (SUS304/SUS316/Q235-A)



HT-FTK											
model	d(mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4	l5
HT-FTK-16	16	18.2	41	41.5	23	33	26.5	7.5	10	9	5
HT-FTK-20	20	21.2	45	43.8	27	38	29	7.0	10	12	5.8
HT-FTK-25	25	26.4	52	51	30.5	47	34.5	7	13	14.5	8.5
HT-FTK-40	40	41.2	75	75	50.5	65	48.6	12	21	15.6	13
HT-FTK-45	45	46.3	80	80	55.5	73.8	53	16	21	16	13



HT FTK2

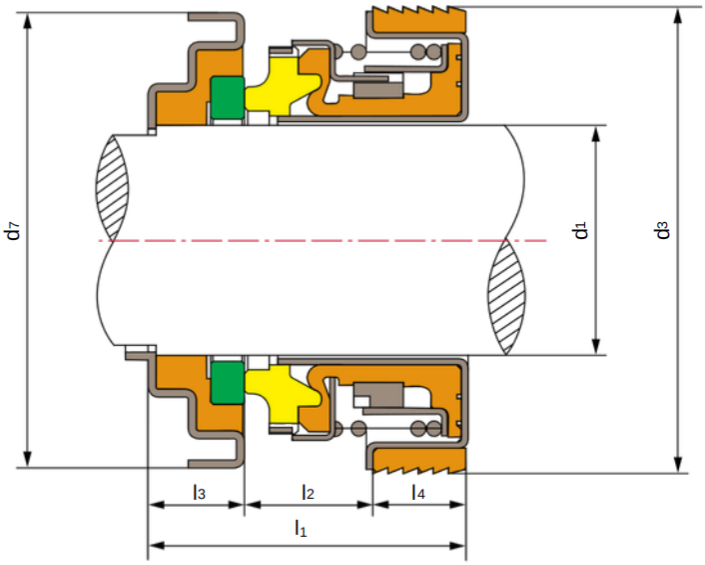
技术参数：

压力：≤0.3MPa

转速：≤4500r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4500r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(陶瓷/ 碳化硅)
- 静环(热压石墨/ 车制石墨 /碳化硅)
- 弹簧(不锈钢)
- 静环座(不锈钢)
- 辅助密封(丁腈胶/ 三元乙丙胶 氢化丁腈胶/氟胶)
- 动环骨架(不锈钢/Q235-A)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Spring (SUS304/SUS316)
- Stationary Seat (SUS304/SUS316)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Rotary Ring Holder (SUS304/SUS316/Q235-A)

HT-FTK2							
model	d1(mm)	d3	d7	l1	l2	l3	l4
HT-FTK2-15	15	41	41	26.5	8.9	10	7.6
HT-FTK2-16	16	41	41	26.5	8.9	10	7.6
HT-FTK2-20	20	45	45	30.5	9.5	11	10
HT-FTK2-25	25	52	52	36.5	12.6	13	10.9
HT-FTK2-35	35	66	66	40.5	13.7	14	12.8

HT FTS

技术参数：

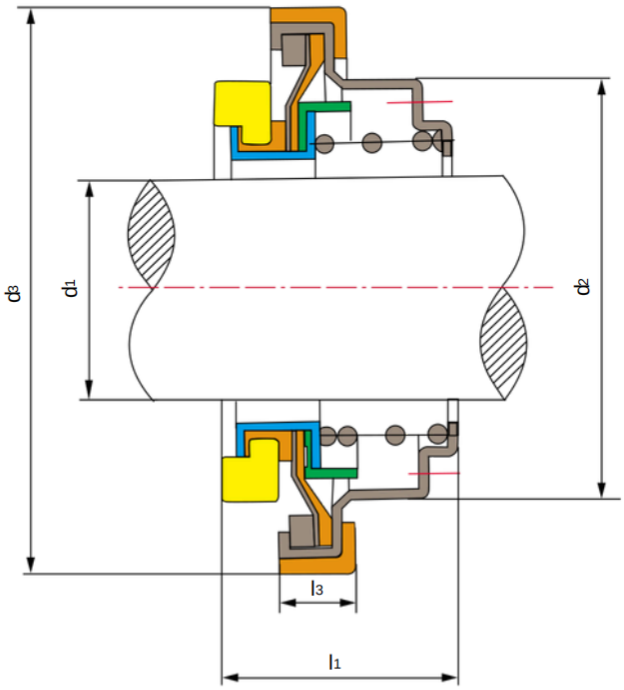
压力：≤0.3MPa

转速：≤3500r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤3500r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



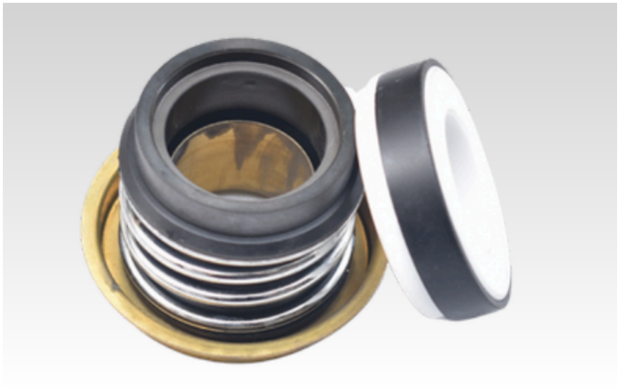


- 静环(热压石墨/车制石墨)
- 静环套(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 静环座(黄铜/不锈钢)
- 辅助密封(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 弹簧(不锈钢)
- 波纹管(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 挡圈(Q235-A)
- 弹性钢片(不锈钢)
- 紧圈(黄铜/不锈钢)

- Stationary Ring (Plastic Carbon/Carbon)
- Cup Gasket (NBR/EPDM/HNBR/VITON)
- Stationary Seat (Brass/SUS304)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring (SUS304/SUS316)
- Bellows (NBR/EPDM/HNBR/VITON)
- Halted Ring (Q235-A)
- Elastic Gasket (SUS304/SUS316)
- Retainer (Brass/SUS304)

Model	D1(mm)	D2	D3	L1	L3
HTFTS-25	25	43.6	58	21	6

HT FL



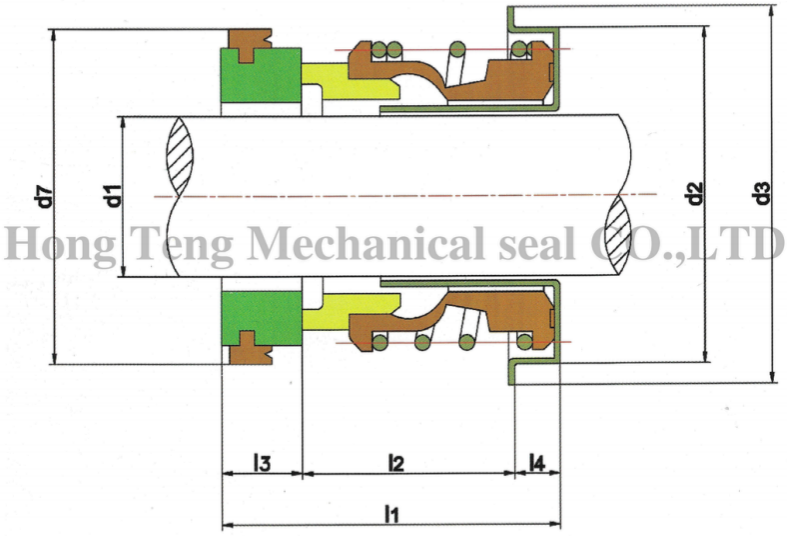
技术参数：

压力：≤0.3MPa

转速：≤3500r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤3500r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



Hong Teng Mechanical seal CO.,LTD

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 动环套(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)
- 静环座(黄铜/不锈钢)
- 弹簧(锰钢/不锈钢)
- 波纹管(丁青胶/三元乙丙胶/氢化丁青胶/氟胶)

- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Cup Gasket (NBR/EPDM/HNBR/VITON)
- Stationary Seat (Brass/SUS304/SUS316)
- Spring (65Mn/SUS304)
- Bellows (NBR/EPDM/HNBR/VITON)

HT-FL								
model	d1(mm)	d2	d3	d7	l1	l2	l3	l4
HT-FL-25S	25	47	53	47	44.5	24.5	14	6
HT-FL-25L	25	52	58	47	47.5	26.5	14	7

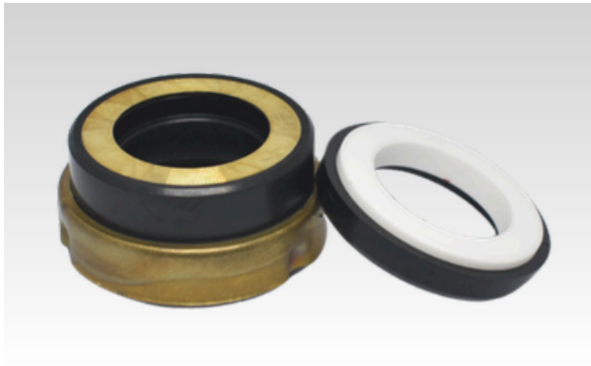
HT TB

技术参数：

压力： ≤0.3MPa

转速： ≤4500r/min

温度： -30℃~+150℃



Operating Limits

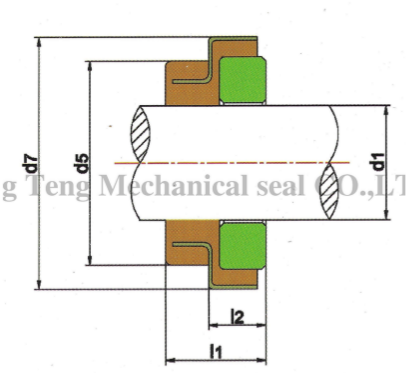
Pressure: ≤0.3MPa

Rotary Speed: ≤4500r/min

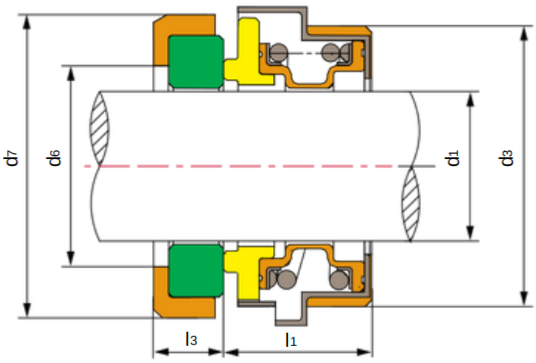
Temperature: -30℃～+150℃

- 动环(陶瓷/碳化硅)
- 静环(热压石墨/车制石墨/碳化硅)
- 动环套(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 波纹管(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 弹簧座(黄铜)
- 弹簧(不锈钢)
- 传动套(黄铜)

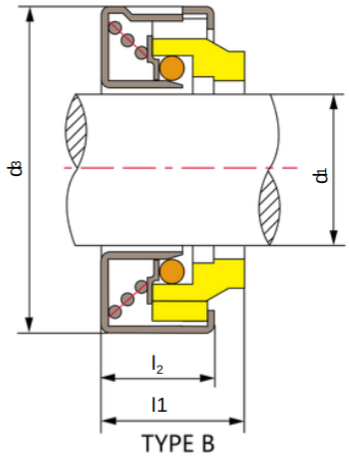
- Rotary Ring (Ceramic/SiC)
- Stationary Ring (Plastic Carbon/Carbon/SiC)
- Cup Gasket (NBR/EPDM/HNBR/VITON)
- Bellows (NBR/EPDM/HNBR/VITON)
- Spring Holder (Brass)
- Spring (SUS304/SUS316)
- Retainer (Brass)



g Teng Mechanical seal CO.,LT



TYPE A



TYPE B

HT-TB								
model	d1(mm)	d3	d5	d7	l1	l2	l3	TYPE
HT-TB-12	12	40	/	28.575	10.7	10.3	4.45	B
HT-TB-25	25	44	32	44	21.5	/	8.5	A
HT-TB-25A	25	44	35	41	21.5	5	10	A
HT-TB-25H	25	44	32	44	21.5	/	10	A
model	d1(inch)	d3	d5	d7	l1	l2	l3	TYPE
HT-TB-3/8"	9.525	20.6	/	/	8.5	7.5	/	B
HT-TB-3/8"A	9.525	20.6	/	/	6.5	5.9	/	B
HT-TB-5/8"	15.875	28.6	/	25.5	9.8	9.6	5.7	B
HT-TB-11/16"	17.5	30.1	/	/	9	8.4	/	B
HT-TB-1"	25.4	50.8	/	/	10.16	9.65	/	B



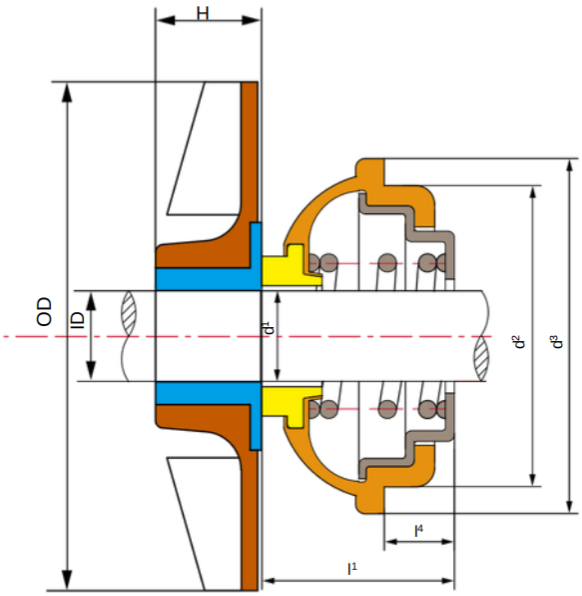
HT K

技术参数：

压力：≤0.1MPa
转速：≤5000r/min
温度：-30℃～+150℃
介质：清水、海水、内燃机防冻液

Operating Limits

Pressure: ≤0.1MPa
Rotary Speed: ≤5000r/min
Temperature: -30℃～+150℃
Medium: Clean water, seawater, gas engine antifreeze



- 动环(易切削铁) * 配PA66 叶轮
- 静环(热压石墨/车制石墨/碳化硅)
- 辅助密封(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 弹簧(不锈钢/锰钢)
- 冲件(不锈钢/Q235-A)

- Rotary Ring (Free-cutting Iron) * with PA66 impeller
- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring (SUS304/SUS316/65Mn)
- Other Parts (SUS304/SUS316/Q235-A)

HT-K						
model	d1(mm)	d2	d3	l1	l4	Equivalent
HT-K-12	12	29	36	14	8	/
HT-K-12(with impeller)	12	30	37	13.5	6	/
HT-K-14A	14	34	40.6	15.5	7	/
HT-K-14B	14	30	36	16.5	7	K-14D
HT-K-14C	14	35	40.6	15.5	7	/
HT-K-16A	16	38	43.6	16.5	8	/
HT-K-16B	16	37	42.5	16.5	8	K-16E
HT-K-16C	16	36	42	16.5	8	K-16F
HT-K-19	19	40	49	15.5	8	K-20
HT-K-28	28	49	56.5	27.5	9.5	/

HT T

技术参数：

压力： ≤0.3MPa
转速： ≤4500r/min
温度： -30℃~+150℃

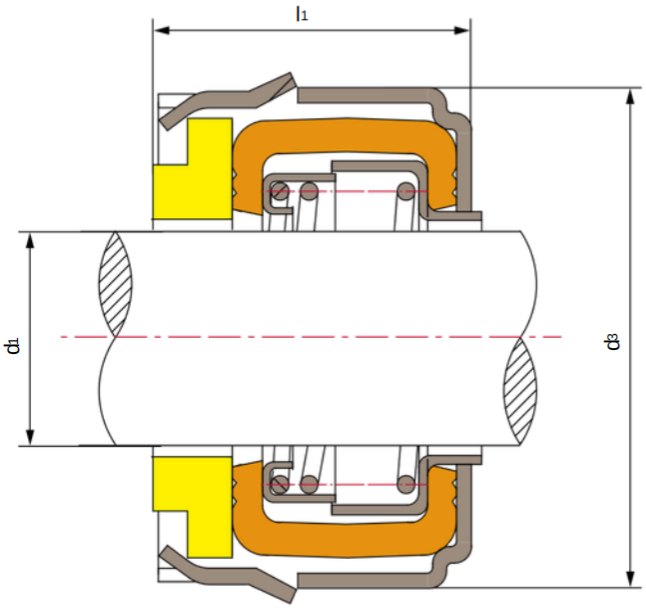
Operating Limits

Pressure: ≤0.3MPa
Rotary Speed: ≤4500r/min
Temperature: -30℃～+150℃



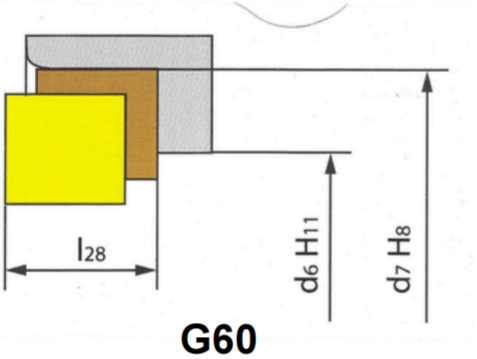
- 静环(热压石墨/车制石墨/碳化硅)
- 辅助密封(丁腈胶/三元乙丙胶/氢化丁腈胶/氟胶)
- 弹簧(锰钢/不锈钢)
- 冲件(黄铜/不锈钢/Q235-A)

- Stationary Ring(Plastic Carbon/Carbon/SiC)
- Secondary Seal (NBR/EPDM/HNBR/VITON)
- Spring (65Mn/SUS304)
- Other Parts (Brass/SUS304/Q235-A)

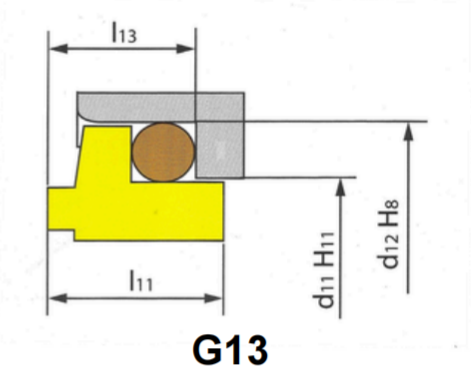


HT-T			
model	d1(mm)	d3	l1
HT-T-08	16	36.5	16.5
HT-T-08S	16	33.4	14.5
HT-T-04	20	43	18
HT-T-04H	20	40.8	22.5
HT-T-02S	25	51	25.5
HT-T-02M	25	52	20
HT-T-02L	25	52.5	22
HT-T-02LA	25	52	22

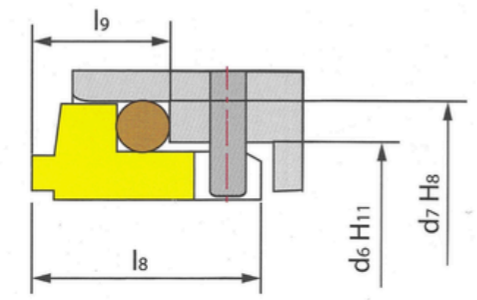
静环 Stationary ring



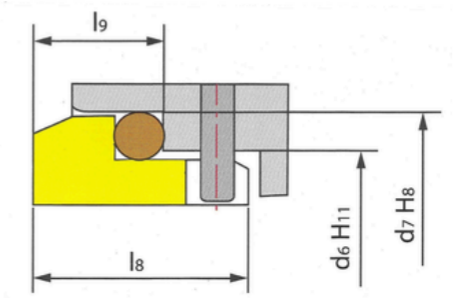
G60



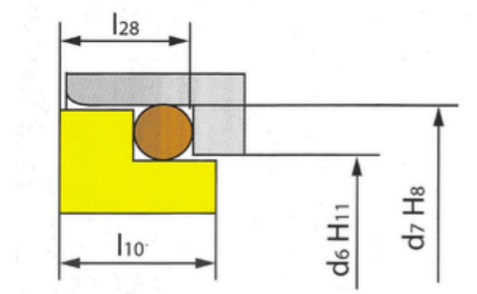
G13



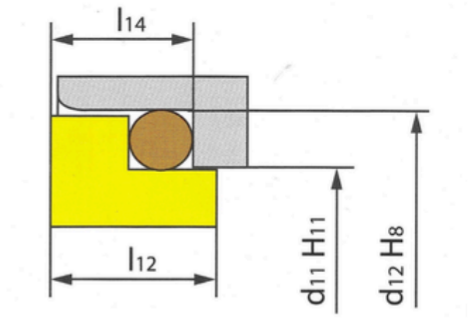
G9(Carbon)



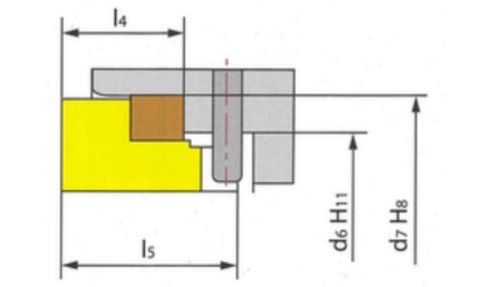
G9



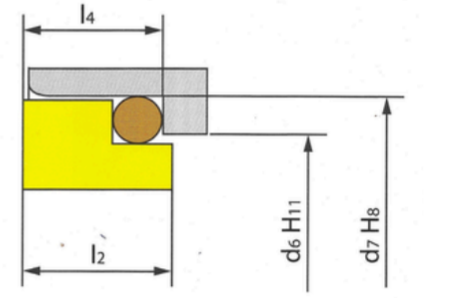
G6



G4



BP



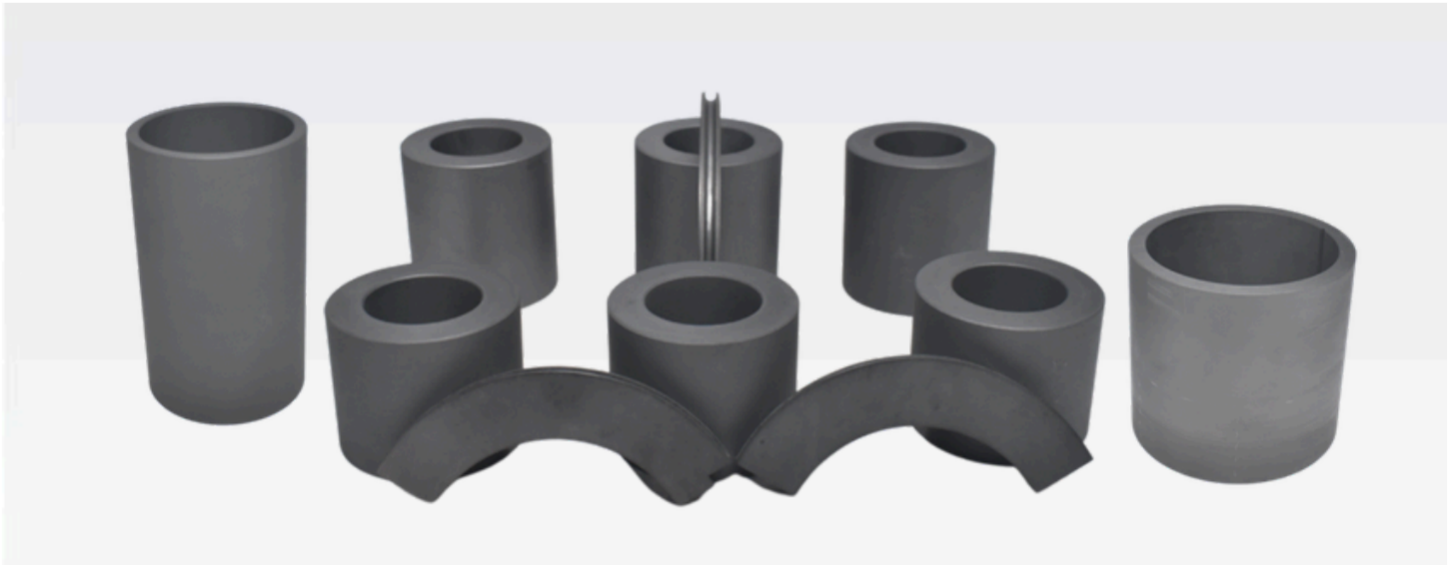
BO

静环尺寸表
Stationary Ring Dimension Data(mm)

Type Shaft	d_6	d_7	G4/G13		B0	B0/BP	BP	G4		G6/G60		G9		G13	
			d_{11}	d_{12}	l_2	l_4	l_5	l_{12}	l_{14}	l_{10}	l_{28}	l_8	l_9	l_{11}	l_{13}
10	17	21	15.5	19.2	\	\	\	7.5	6.6	7.5	6.6	17.5	10.0	9.0	7.1
12	19	23	17.5	21.6	\	\	\	6.5	5.6	7.5	6.6	17.5	10.0	10.0	7.6
14	21	25	20.5	24.6	12.8	12.0	18.5	6.5	5.6	7.5	6.6	17.5	10.0	10.0	7.6
15	\	\	20.5	24.6	\	12.0	\	7.5	6.6	7.5	\	17.5	10.0	11.0	8.6
16	23	27	22.0	28.0	12.8	12.0	18.5	8.5	7.5	7.5	6.6	17.5	10.0	11.5	9.0
18	27	33	24.0	30.0	14.5	13.5	20.5	9.0	8.0	8.5	7.5	19.5	11.5	12.5	10.0
20	29	35	29.5	35.0	14.5	13.5	20.5	8.5	7.5	8.5	7.5	19.5	11.5	12.5	9.5
22	31	37	29.5	35.0	14.5	13.5	20.5	8.5	7.5	8.5	7.5	19.5	11.5	12.5	9.5
24	33	39	32.0	38.0	14.3	13.3	20.3	8.5	7.5	8.5	7.5	19.5	11.5	12.5	9.5
25	34	40	32.0	38.0	14.0	13.0	20.0	8.5	7.5	8.5	7.5	19.5	11.5	12.5	9.5
26	\	\	34.0	40.0	\	\	\	9.0	8.0	8.5	7.5	19.5	11.5	13.0	10.0
28	37	43	36.0	42.0	13.5	12.5	19.5	10.0	9.0	8.5	7.5	19.5	11.5	14.0	11.0
30	39	45	39.2	45.0	13.0	12.0	19.0	11.5	10.5	8.5	7.5	19.5	11.5	14.0	11.0
32	42	48	42.2	48.0	13.0	12.0	19.0	11.5	10.5	8.5	7.5	19.5	11.5	14.0	11.0
33	42	48	44.2	50.0	13.0	12.0	19.0	12.0	10.5	8.5	7.5	19.5	11.5	14.5	11.5
35	44	50	46.2	52.0	13.0	12.0	19.0	12.0	11.0	8.5	7.5	19.5	11.5	14.5	11.5
38	49	56	49.2	55.0	14.0	13.0	20.0	11.3	10.3	10.0	9.0	22.0	14.0	14.5	11.5
40	51	58	52.2	58.0	14.0	13.0	20.0	11.8	10.8	10.0	9.0	22.0	14.0	14.5	11.5
42	\	\	53.3	62.0	14.0	13.0	\	13.2	12.0	10.0	9.0	22.0	14.0	17.0	14.3
43	54	61	53.3	62.0	14.0	13.0	20.0	13.2	12.0	10.0	9.0	22.0	14.0	17.0	14.3
45	56	63	55.3	64.0	14.0	13.0	20.0	12.8	11.6	10.0	9.0	22.0	14.0	17.0	14.3
48	59	66	59.7	68.4	14.0	13.0	20.0	12.8	11.6	10.0	9.0	22.0	14.0	17.0	14.3
50	62	70	60.8	69.3	14.5	13.5	20.5	12.8	11.6	10.5	9.5	23.0	15.0	17.0	14.3
53	65	73	63.8	72.3	14.5	13.5	20.5	13.5	12.3	12.0	11.0	23.0	15.0	17.0	14.3
55	67	75	66.5	75.4	14.5	13.5	20.5	14.5	13.3	12.0	11.0	23.0	15.0	18.0	15.3
58	70	78	69.5	78.4	14.2	13.5	20.5	14.5	13.3	12.0	11.0	23.0	15.0	18.0	15.3
60	72	80	71.5	80.4	14.2	13.5	20.5	14.5	13.3	12.0	11.0	23.0	15.0	18.0	15.3
63	75	83	74.5	83.4	14.2	13.5	20.5	14.2	13.3	12.0	11.0	23.0	15.0	18.0	15.3
65	77	85	76.5	85.4	14.2	13.5	20.5	14.2	13.0	12.0	11.0	23.0	15.0	18.0	15.3
68	81	90	82.7	91.5	14.2	13.5	20.5	14.9	13.7	12.5	11.3	26.0	18.0	19.0	16.0
70	83	92	83.0	92.0	15.2	14.5	21.5	14.2	13.0	12.5	11.3	26.0	18.0	18.0	15.3
75	88	97	90.2	99.0	15.7	14.5	21.5	15.2	14.0	12.5	11.3	26.0	18.0	18.0	15.3
80	95	105	95.2	104.0	15.7	15.0	22.0	16.2	15.0	13.0	12.0	26.2	18.2	19.0	16.3
85	100	110	100.2	109.0	15.7	15.0	22.0	16.0	14.8	15.0	14.0	26.2	18.2	19.0	16.3
90	105	115	105.2	114.0	15.7	15.0	22.0	16.0	14.8	15.0	14.0	26.2	18.2	19.0	16.3
95	110	120	111.6	120.3	15.7	15.0	22.0	17.0	15.8	15.0	14.0	25.2	17.2	20.0	17.3
100	115	125	114.5	123.3	15.7	15.0	22.0	17.0	15.8	15.0	14.0	25.2	17.2	20.0	17.3

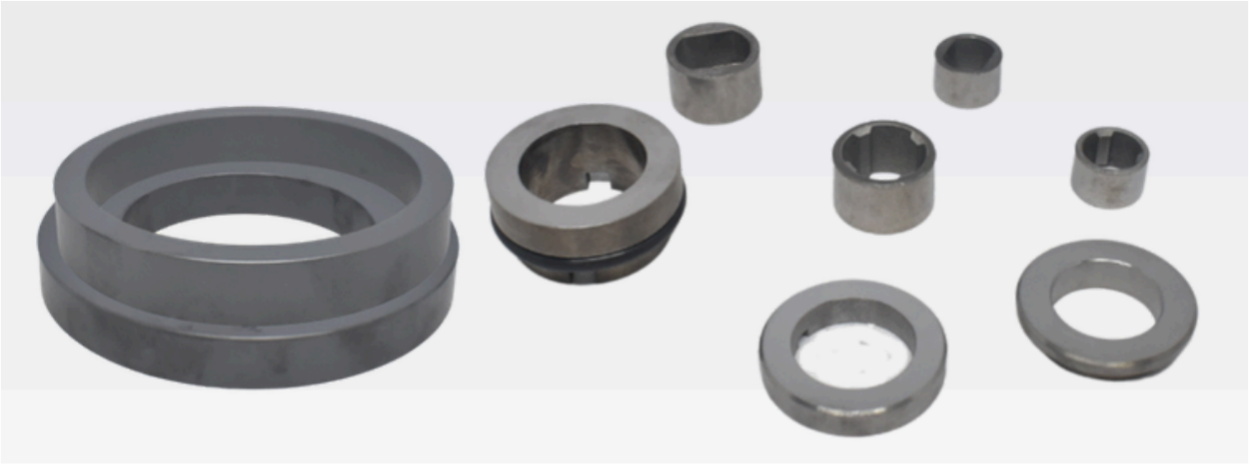
Size of Stationary

石墨 Carbon



类型 Type		牌号 Grade	浸渍材料 Impregnated Material	体积密度 Volume Density	抗折强度 Antiflexural Strength	抗压强度 Compression Strength	肖氏硬度 Shore Hardness	气孔率 Porosity	热膨胀系数 Thermal Expansion Coefficient	使用温度 Temperature	特性 Feature
				g/cm³	Mpa	Mpa	HS	%	10^{-6}/℃	℃	
石墨 Carbon	纯碳石墨 Pure Carbon	M191T	纯碳 Pure Carbon	1.8	100	250	92	1.2	5.5	600	耐酸碱，耐腐蚀，耐高温 Acid-resistant & alkali-resistant & Anti-corrosion and high
	浸渍树脂碳石墨 Impregnated resin carbon	M106K	呋喃树脂 Furane Resin	1.65	65	210	90	2.0	5.5	200	耐酸碱，使用广泛 Acid-resistant & alkali-resistant extensive use
		M120K		1.70	62	180	85	2.0	5.0	200	
		M180K		1.80	80	240	90	1.2	5.5	210	
		M200K		1.82	55	115	55	1.2	4.5	210	
		M106H	环氧树脂 Epoxide Resin	1.65	60	210	85	1.5	4.8	200	耐酸 Alkali-resistant
		M106F	酚醛树脂 Bakelite Resin	1.75	60	200	85	2.0	5.0	200	耐碱 Acid-resistant
	浸渍金属石墨	M106D	浸锑合金 Antimony alloy	2.30	65	220	90	2.0	5.5	350	耐高温，强度高 Anti-high temperature High Strength
		M120D		2.30	60	220	90	2.0	5.5	350	
		M181P	浸铜合金 Bronze alloy	2.40	80	250	75	2.5	6.0	350	耐碱，耐高温，强度高 Alkali resistant and anti-high temperature,high strength
热压石墨 Plastic Carbon	国产粉 China Powder	-	-	1.71	54	147	65	2.9	16.0	100	高润滑性，食品级 High lubricity with FDA certification
	日本进口粉 Japan Powder(FDA)										

碳化硅/碳化钨 Tungsten Carbide/Silicon Carbide



Main Performance Index of Silicon Carbide(SIC)				
item		**unit**	**SIC**	**SSIC**
纯净度/Purity		%	≥90	≥98
密度/Density		g/cm^3	3.05	3.1
肖氏硬度/Shore Hardness		HS	110-125	120-130
弹性模量/Elastic Modulus		Mpa	$4.12*10^5$	$4.10*10^5$
泊松比/Poisson Ratio			0.15	0.16
抗拉强度/Tensile Strength		Mpa	$2.75*10^2$	$2.8*10^2$
抗弯强度/Bending Strength		Mpa	$4.41*10^2$	$4.9*10^2$
抗压强度/Compression Strength		Mpa	$2.94*10^3$	$3.0*10^3$
热导性/Thermal Conductivity		W/m.k	141(W/m.k)	147(W/m.k)
热膨胀系数/Coefficient of Thermal		l/℃	$4.3*10^{-6}$	$4.0*10^{-6}$
抗热性(室温 Heat Resistance)			1600℃	1650℃
热冲击系数/Thermal Impact		cal/cm.sec	46.5	200
耐酸性/Acid Resistance	5 times Higher than the usual TC		耐所有化学性质/Resist all chemical media	

The Corrosion Test Four Materials in Reagent					
测试环境 Test Environment		腐蚀性失重 (mg/cm^2yr) Conosive Agravity			
实际浓度 (Wt%) Reagent Concentration	温度(℃) Temperature	TC (6%钴)	SIC^1 (12%硅)	$SSIC^2$ (无游离硅)	Ceramic (99%)
98% H_2SO_4	100	>1000	55	1.8	65
50% NaOH	100	5	>1000	2.5	75
53% HF	25	8	7.9	<0.2	20
85% H_3PO_4	100	55	8.8	<0.2	>1000
70% HNO_3	100	>1000	0.5	<0.2	7
45% KOH	100	3	>1000	<0.2	60
25% HCL	70	85	0.9	<0.2	72
10% HF+57% HNO_3	25	>1000	>1000	<0.2	16

Main Technology Data of Tungsten Carbide(TC)					
Item		WC-CO	WC-CO	WC-CO	WC-Ni
牌号	Brand No.	YG6	YG6	YG15	YWN8
密度	Density	14.6-15.0	14.5-14.9	13.9-14.2	14.4-14.8
洛氏硬度	HRA	89.5	89.0	87.0	88.0
抗弯强度	Bending Strength	1421	1470	2058	1470
线涨性	Linear Expansivity	5	5.1	6.3	5.3
介质	Medium	Resistant against: Oil, Sewage Water, Weak acid/alkali...			Strong erosive

橡胶部分 Rubber Product



橡胶种类以及特性 Rubber Classification & Features		
橡胶种类 Rubber Type	主要特性及适用范围	Main Feature and Suitable Scope
丁青胶 NBR	耐油，耐压，耐磨，高弹性 用于一般液压和气压密封 不适用于阳光和紫外线下工作 使用温度：-20℃ - +120℃	Oil resistant, pressure resistant,wear-resistant, high elasticity Used for general hydraulic and pneumatic sealing Not suitable for working under sunlight and ultraviolet radiation **Operating temperature**: -20 ℃ -+120 ℃
丁基橡胶 HR.	耐化学药品、药剂，适用于磷酸脂类液压油和真空材料;不适于在一般矿物油中使用 使用温度：-50℃ - +150℃	Resistant to chemicals and agents, suitable for phosphate ester hydraulic oil And vacuum materials; Not suitable for use in general mineral oils **Operating temperature**: -50 ℃ -+150 ℃
氯丁橡胶 CR.	耐油，耐磨，耐风化，弯折性好； 特别适用于气动机器，用于液压密封时， 只适用于苯胺点高的液压油 使用温度：-40℃ - +120℃	Oil resistant, wear-resistant, weather resistant, and has good bending properties; Especially suitable for pneumatic machines, when used for hydraulic sealing, Only applicable to hydraulic oils with high aniline point **Operating temperature**: -40 ℃ -+120 ℃
三元乙丙胶 EPDM	耐化学药品、药剂，适用于磷酸脂类液压油 使用温度：-50℃ - +150℃	Resistant to chemicals and agents, suitable for phosphate ester hydraulic oil **Operating temperature**: -50 ℃ -+150 ℃
硅胶 Silicon Rubber	耐热，耐寒性能好，机械强度低，耐磨性抗折性较差；适用耐热耐寒的固定密封件 不适用于高强度工作 使用温度：-80℃ - +200℃	Good heat and cold resistance, low mechanical strength, poor wear resistance and bending resistance; Suitable for heat and cold resistant fixed seals Not suitable for high-intensity work **Operating temperature**: -80 ℃ -+200 ℃
氟橡胶 VITON	耐热，耐油，耐药品性好，适用于高温和真空设备使用 使用温度：-30℃ - +210℃	Heat resistant, oil resistant, good chemical resistance, suitable for high temperatures and Vacuum equipment usage **Operating temperature**: -30 ℃ -+210 ℃
氢化丁青胶 HNBR	耐汽油，耐氟利昂，耐油，耐酸，耐臭氧耐碱，耐热，耐寒性能好，机械强度高耐磨性好 使用温度：-20℃ - +180℃	Resistant to gasoline, fluorine, oil, acid, and ozone Good alkali resistance, heat resistance, cold resistance, and high mechanical strength ,Good wear resistance **Operating temperature**: -20 ℃ -+180 ℃
全氟醚橡胶 FFKM(FFPM)	耐各种恶劣的化学性质 耐化学气体，如氧离子等复杂工况 使用温度：-30℃ - +327℃	Resistant to various harsh chemical properties Resistant to chemical gases, such as oxygen ions, and other complex working conditions **Operating temperature**: -30 ℃ -+327 ℃

机械密封安装、使用要求Fixing and applying directions of mechanical seal

机械密封是高精密的机械设备部件。它的性能和寿命与主机的操作条件、主机精度及密封的安装有极大的关系。因此，在使用时必须注意以下几点:
一、装配前注意事项
1.必须查阅被安装的机械密封是否适用你的使用工况及适用范围。当输送介质温度偏高，过低:速度过高、过低:压力过高或真空以及含有杂质颗粒、易燃、易爆、有毒时、必须选用平衡型,双端面,多端面等密封形式，并采取相应的阻封、冲洗、冷却,过滤等措施。
2.应仔细阅读机械密封产品样本或装配图，检查密封型号与要求的型号是否相符,辅助密封圈尺寸公差是否合适、摩擦副表面是否光滑平整等,保证机械密封安装尺寸及允差。
3.检查有关的危险标记,检查轴和腔体上重要的轴向，径向尺寸公差的精确性。密封胶体内径与密封件最大外径的单边间隙必须大于1毫米。
4.检查设备的精度。设备密封轴与密封腔的垂直度不大于0.06毫米;轴的径向窜动量不大于0.04毫米;轴向窜动量不大于0.1毫米

Mechanical seals are high-precision mechanical equipment components. Its performance and lifespan are closely related to the operating conditions, precision, and sealing installation of the host. Therefore, the following points must be noted when using:
（1） Precautions before assembly
1. It is necessary to check whether the installed mechanical seal is suitable for your operating conditions and scope of application. When the temperature of the conveying medium is too high or too low, or the speed is too high or too low, or the pressure is too high or the vacuum is too high, or it contains impurities, flammable, explosive, toxic particles, it is necessary to use balanced, double end, multi end and other sealing forms, and take corresponding measures such as blocking, flushing, cooling, filtering, etc.
2. Carefully read the sample or assembly drawing of the mechanical seal product, check whether the seal model matches the required model, whether the size tolerance of the auxiliary seal ring is appropriate, whether the friction pair surface is smooth and flat, etc., to ensure the installation size and tolerance of the mechanical seal.
3. Check the relevant hazard markings and verify the accuracy of important axial and radial dimensional tolerances on the shaft and cavity. The unilateral gap between the inner diameter of the sealing gel and the maximum outer diameter of the seal must be greater than 1 millimeter.
4. Check the accuracy of the equipment. The perpendicularity between the equipment sealing shaft and the sealing chamber shall not exceed 0.06 millimeters; The radial displacement of the shaft shall not exceed 0.04 millimeters; Axial displacement not exceeding 0.1 millimeters

二、禁配注意事项
1.装配过程应在干燥、无尘、清洁的工作环境下进行，保持密封腔部位及密封件清洁干净。
2.为了减少磨擦阻力,在安装时，与辅助密封件接触表面涂一曾清洁的润滑油或油脂，但必须注意当选用乙丙橡胶作辅助密封件时，切勿与矿物油或脂类相接触，，可用水或肥皂水清洁和润滑。
3.对弹簧作传动的机械密封，必须注意弹簧的旋向。一般是从静止环背部向旋转环方向看，顺时针旋转的轴需向右旋弹簧，反之则选用左旋弹簧
4.弹簧工作高度必须达到产品样本或装配图所示的安装高度
5.在安装过程中严禁磕碰，敲打密封。密封件装配完毕，更不能敲击、撞击轴、轴套、密封端盖等，以免使机械密封摩擦副破损从而导致密封失效。

三、密封安装
1.必须将密封腔空气完全排尽，尤其是带液封的双端面机械密封，更应注意排气。重新开车时，应先开稀入阀门，待液体（介质）进入密封腔后再开电机。对有结晶的介质，在重新开车启动时，应先把密封面，弹簧等相关结构件上的结晶物用冲洗液冲洗干净后再开车。
2.设备启动前，检查转轴阻力手感应正常均匀，不允许发生卡滞的现象
3.设备运转前，密封腔必须充满介质，保持良好润滑，严谨干摩擦，导致密封失效

2、 Prohibited precautions
The assembly process should be carried out in a dry, dust-free, and clean working environment, keeping the sealing chamber and sealing components clean.
2. In order to reduce frictional resistance, apply a clean lubricant or grease on the contact surface with the auxiliary seal during installation. However, it must be noted that when using ethylene propylene rubber as the auxiliary seal, do not come into contact with mineral oil or grease, and can be cleaned and lubricated with water or soapy water.
3. When using mechanical seals for spring transmission, attention must be paid to the rotation direction of the spring. Generally, when viewed from the back of the stationary ring towards the direction of the rotating ring, the axis rotating clockwise should be directed towards the right-handed spring, while the axis rotating counterclockwise should be directed towards the left-handed spring
4. The working height of the spring must reach the installation height shown in the product sample or assembly drawing
5. It is strictly prohibited to bump or knock on the seal during installation. After the sealing components are assembled, they should not be knocked or impacted on the shaft, shaft sleeve, sealing end cover, etc., in order to avoid damaging the mechanical seal friction pair and causing seal failure.
3、 Sealed installation
1. It is necessary to completely exhaust the air in the sealed chamber, especially for double end mechanical seals with liquid seals, and attention should be paid to exhaust. When restarting, the dilution valve should be opened first, and the motor should be turned on after the liquid (medium) enters the sealed chamber. For media with crystals, when restarting, the crystals on the sealing surface, springs, and other related structural components should be washed clean with flushing solution before starting the vehicle.
2. Before starting the device, check that the resistance of the shaft is normal and even, and that there is no jamming phenomenon allowed
Before the equipment is operated, the sealing chamber must be filled with medium, maintained with good lubrication, and subjected to rigorous dry friction to prevent seal failure

Mechanical Seal

Mechanical Seal

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