TRISUN天示®

2012

轻型密封件 Single-Spring Mechanical Seal

上海天示机械零部件制造有限公司

Shanghai Trisun Parts Manufacture Co.,Ltd.

TRISUN®亦

选择源于清洁 高效 环保

Right For Efficient, Clean, Green

01 公司组织架构
Organizational Structure

》公司荣誉 The Honour

ISO9001:2008 & TS16949:2009

环境管理体系认证证书

FDA证书

生产许可证书&明星企业

TRISUN 天示

ISO9001:2008 & TS16949:2009

上海松江工业基地 Shanghai Songjiang Production Base

T 天示简介 risun Introduction

上海天示机械零部件制造有限公司为国内领先的流体设计和制造企业。销售总部位于上海浦东金融中心，同时在广州和温州设有销售分部。集团下属三大生产基地，分别位于上海松江工业园区、温州瓯海三溪工业园区、江苏武进工业园区。其中，温州天成密封件制造公司通过了 ISO9001:2008、ISO/TS16949:2009质量管理体系许可证，同时通过了ROSH,CIT,NSF等多项专业认证。

公司在上海松江工业园生产基地设有研发、检测、物流三大中心，产品以高技术含量的干气密封第统、反应釜、集装式、金属波统管式密封为主，可替代克兰与博格曼的同类产品，应用于化工、制药、电力行业。公司在温州瓯海三溪工业园区生产基地，产品以高精度的汽车水封和汽车空调压缩机密封件，车用水泵叶轮为主，已为多家汽车、家电、食品机械领域的国际知名企业提供配套。

公司具有强大的研发能力，由博导和多名流体领域博士组成了技术团队，能够为客户提供个性化的产品设计和优化服务。集团现有员工350人,生产面积4万多平方米，年生产单弹簧机械密封件900万套，汽车水泵叶轮100万只，汽车空调控制阀10万只，金属波纹管密封件和集装式密封件1万多套。

我们始终以“与客户共赢”为信念，潜心服务于每一位客户。公司与国内外研究机构开展了广泛的合作，并为欧美及国内的知名企业提供配套。

Shanghai Trisun Mechanical Parts Manufacture Co., Ltd. is the advanced fluid designer & manufacturer. We set up the headquarters in Shanghai Pudong Financial Center, and have sales branches in Guangzhou and Wenzhou. Besides, we establish three production bases: Shanghai Songjiang Industrial Zone, Wenzhou Ouhai Sanxi Industrial Zone and Wujin Industrial Zone. Wenzhou Industrial Zone passed ISO9001:2008. ISO/TS16949: 2009 Quality Management System Certification, and ROSH, CIT, NSF Certification and etc.

Shanghai Songjiang Industrial Zone Base possesses R&D cetner, Quality Inspection center and Logistics center. Main products are of high technology products widely applied in chemistry, pharmacy, power industry: dry gas seal system, agitator seal, cartridge seal and metal bellows seal, which can replace John Crane and Burgmann products. Wenzhou Ouhai Sanxi Industrial Zone Base features with products of high precision: single spring seal, PTFE lip seal, automotive water pump impeller, which are supplied to some world-famous enterprises in auto, household appliance and food machinery industry.

Trisun has a strong R&D team, including a PhD supervisor and some doctors in the field of fluid. We can offer customers personalized product design and optimization services. Our company has 350 employees and 40,000 square-meter production area. The production capacity achieves 9,000,000 sets for single spring mechanical seals, 1,000,000 sets for auto water pump impeller, 100,000 sets for auto air-condition compressor control valve, 10,000 sets for metal bellows seal and cartridge seal.

Always taking the "gain mutual benefits with customers" as our faith, we devote ourselves to serving every customer. Trisun carrys out a wide range of cooperation with domestic and overseas research institutions and provides European, American and domestic famous enterprises with supporting services.

温州生产基地 Wenzhou Production Base

以新的飞跃为目标，
用高度的技术向着世界，向着未来

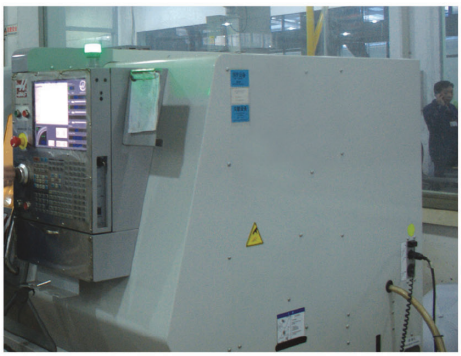
Taking the new leap as the goal,
moving towards the world and the future with high technology

www.trisunltd.com

P | 生产现场 roduction Site

严格控制生产过程质量，保证产品处于行业领先水平 ，规范推进全方位的质量监控。质量文化已经渗透到研发、生产、销售和服务的每个细节当中，成为一种自觉行为。质量管理体系已全面与国际接轨，带领企业获得多荣誉的同时，更多地给予公司客户真正“上帝”般的消费体验。

We strictly control quality during the production, ensure that the product is at the leading level and standardize and push forward all-round quality monitoring. The quality culture has been spread into every detail including research, development, production, distribution and service, becoming a conscious behavior. The quality management system has completely kept pace with the world, giving much real godlike consuming experience to customers of our company while leading the enterprise to obtain many honors.



关注细节，谨慎周密，
持续改进，精益求精。

Focusing On Details,
Meticulous And Precise,
Continuous Improvement,
Keeping Accurateness

TRISUN®
ISO9001& ISO14001

轻型密封件 Single-Spring Mechanical Seal


TS 301 01


TS 155 02


TS 156 03


TS E 04


TS 960 05


TS 560A 06


TS 560D 07


TS 21 08


TS 43 09


TS BIA 10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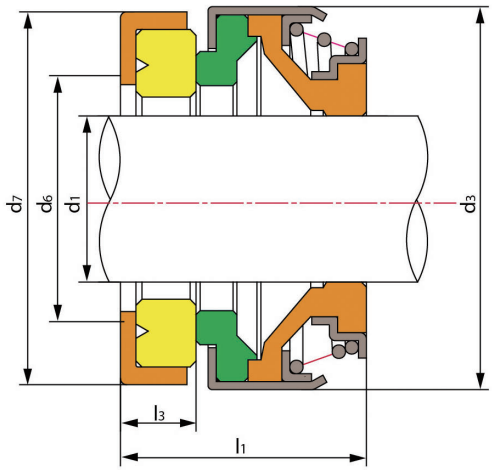
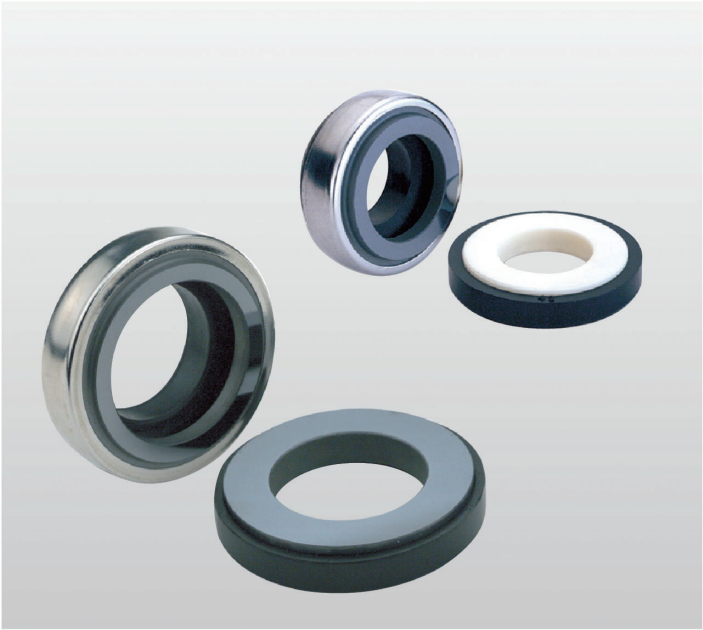




TS 301

技术参数：

压力：≤0.6MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

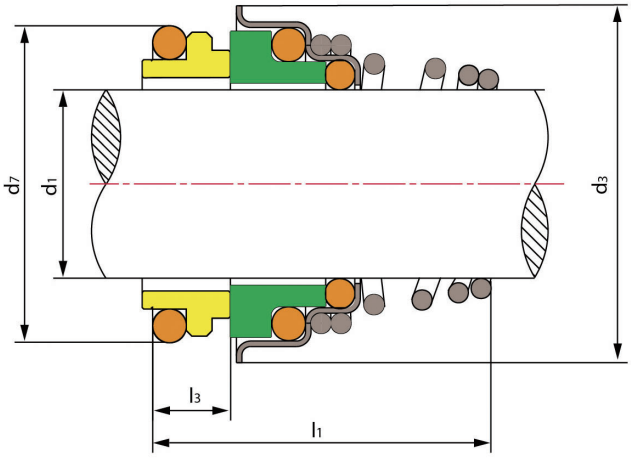
Pressure: ≤0.6MPa
Speed: ≤10m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (mm)	d_3	d_6	d_7	l_1	l_3
TS301-6	6	18	8	22.0	14.0	4.0
TS301-8S	8	18	10	22.0	15.0	4.0
TS301-8M	8	20	10	22/26	16.5	4.0/5.5
TS301-8L	8	24	10	26.0	16.5	5.5
TS301-10	10	24	12	26.0	21.0	8.0
TS301-11	11	24	13	26.0	21.0	8.0
TS301-12	12	24	14	25/26	21.0	8.0
TS301-13	13	24	15	26.0	19.5	5.5/8.0
TS301-13L	13	28	16	28.0	21.0	8.0
TS301-13H	13	32	16	29.5	30.5	8.0
TS301-14	14	28	16	28/28.5	21.0	8.0
TS301-14L	14	32	16	29.5	21.0	8.0
TS301-15S	15	28	16	28.5/30	21.0	8.0
TS301-15M	15	32	16	30/29.5	21.0	8.0
TS301-15L	15	39	18	38.0	21.0	8.0
TS301-16S	16	28	16	29.5/30	21.0	8.0
TS301-16M	16	32	18	29.5	21.0	8.0
TS301-16L	16	39	18	38.0	21.0	8.0
TS301-16H	16	32	16	30.0	29.0	10.0
TS301-17	17	39	19	42.0	21.0	8.0
TS301-18	18	39	20	42.0	21.0	8.0

Model	d_1 (mm)	d_3	d_6	d_7	l_1	l_3
TS301-19	19	39	21	42.0	21.0	8.0
TS301-20	20	39	22	42.0	21.0	8.0
TS301-20L	20	42	24	45.0	23.0	10.0
TS301-22S	22	36	24	45.0	26.5	10.0
TS301-22L	22	42	24	45.0	23.0	10.0
TS301-23	23	47	25	50.0	23.5	10.0
TS301-24	24	47	26	50.0	23.5	10.0
TS301-25	25	42	27	50.0	23.5	10.0
TS301-25L	25	47	27	50.0	23.5	10.0
TS301-26	26	47	29	50.0	23.5	10.0
TS301-27	27	47	30	50.0	23.5	10.0
TS301-28	28	54	31	57.0	25.0	10.0
TS301-30	30	54	33	57.0	25.0	10.0
TS301-32	32	54	35	57.0	25.0	10.0
TS301-35	35	60	38	63.0	26.0	10.0
TS301-38	38	65	41	68.0	30.0	12.0
TS301-40	40	65	43	68.0	30.0	12.0
TS301-45	45	70	48	73.0	32.0	12.0
TS301-50	50	85	52	88.0	38.0	15.0
TS301-55	55	85	58	88.0	38.0	15.0
TS301-60	60	105	63	110.0	45.0	15.0
TS301-65	65	105	\	110.0	47.0	15.0
TS301-70	70	105	\	110.0	47.0	15.0



TS 155

技术参数：

压力：≤1 MPa
线速度：≤15米/秒
温度：-30˚C ～+200˚C

Operating Limits

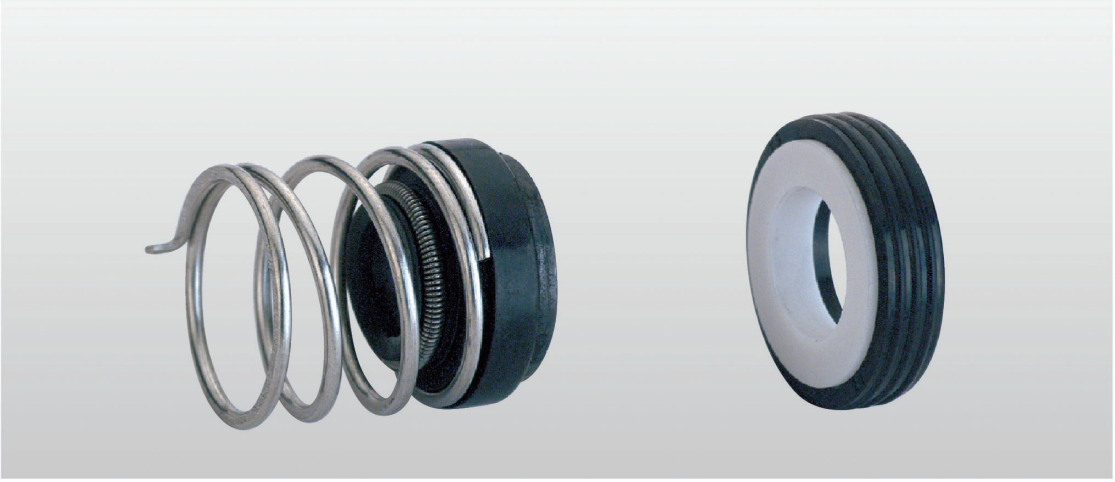
Pressure: ≤1MPa
Speed: ≤15 m/s
Temperature: -30˚C ～+200˚C

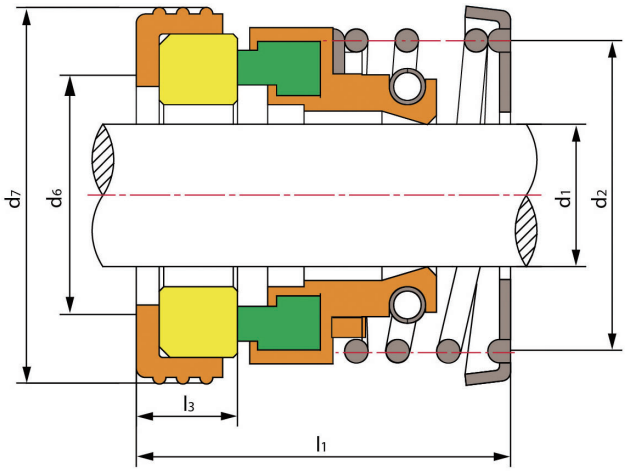
- 动环(陶瓷/碳化硅/碳化钨)
- 静环(热压石墨/车制石墨/碳化硅/碳化钨)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及冲件(不锈钢)

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

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS155-10	10	20.0	18.1	20.5	5.5
TS155-11	11	22.0	20.6	23.5	5.5
TS155-12	12	22.0	20.6	23.5	5.5
TS155-13	13	25.0	23.1	28.0	6.0
TS155-14	14	25.0	23.1	28.0	6.0
TS155-15	15	29.0	26.9	30.0	7.0
TS155-16	16	29.0	26.9	30.0	7.0
TS155-17	17	29.0	26.9	30.0	7.0
TS155-18	18	33.0	30.9	32.0	8.0
TS155-19	19	33.0	30.9	33.0	8.0
TS155-20	20	33.0	30.9	33.0	8.0
TS155-21	21	38.0	35.4	33.0	8.0

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS155-22	22	38.0	35.4	33.0	8.0
TS155-23	23	38.0	35.4	35.0	8.0
TS155-24	24	38.0	35.4	35.0	8.0
TS155-25	25	40.0	38.2	35.5	8.5
TS155-28	28	46.0	43.3	39.0	9.0
TS155-29	29	46.0	43.3	39.0	9.0
TS155-30	30	46.0	43.3	39.0	9.0
TS155-32	32	46.0	43.3	39.0	9.0
TS155-33	33	50.0	53.5	50.5	11.5
TS155-35	35	50.0	53.5	50.5	11.5
TS155-38	38	60.5	60.5	50.5	11.5
TS155-40	40	60.5	60.5	50.5	11.5





TS 156

技术参数：

压力：≤0.5MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

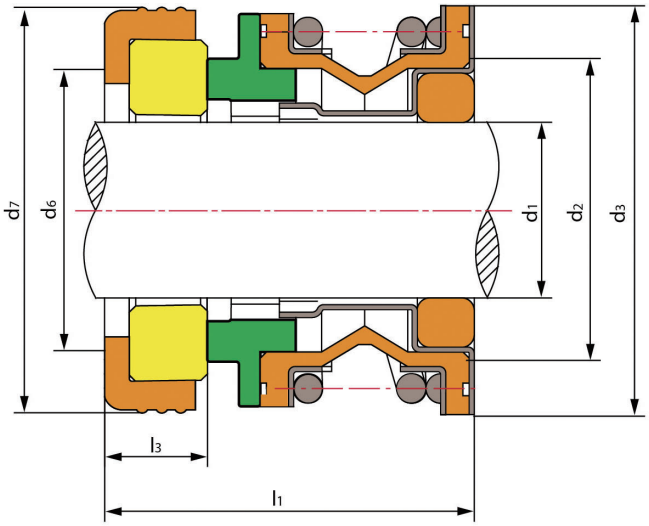
Pressure: ≤0.5MPa
Speed: ≤10m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (mm)	d_2	d_6	d_7	l_1	l_3
TS156-8	8	16.0	13	18/21	18	5/6
TS156-9	9	18.0	16	21	23	6
TS156-10	10	20.0	16	20/22/24	23	6.5
TS156-11	11	20.0	16	24	23	7
TS156-12	12	22.5	17	26	24	7
TS156-13	13	22.5	17	26	24	7
TS156-14	14	24.5	21	28/30	25	7
TS156-15	15	24.5	21	28/30	25	7
TS156-16	16	28.5	22	32	27	8
TS156-17	17	28.5	22	32	27	8
TS156-18	18	31.5	25	35	29	8
TS156-19	19	31.5	25	35	29	8

Model	d_1 (mm)	d_2	d_6	d_7	l_1	l_3
TS156-20	20	31.5	27	38	31	8
TS156-22	22	34.5	29	40	32	8
TS156-25	25	37.5	32	44	33	9
TS156-28	28	40.5	34	46	34	9
TS156-30	30	44.5	38	50	35	9
TS156-32	32	47.5	40	54	37	9
TS156-35	35	50.5	44	58	40	10
TS156-38	38	55.0	46	60	42	10
TS156-40	40	56.5	48	64	43	10
TS156-45	45	61.5	52	66	45	10
TS156-50	50	66.5	58	72	47	10



TS E

技术参数：

压力：≤1 MPa
线速度：≤12米/秒
温度：-30˚C ～+200˚C

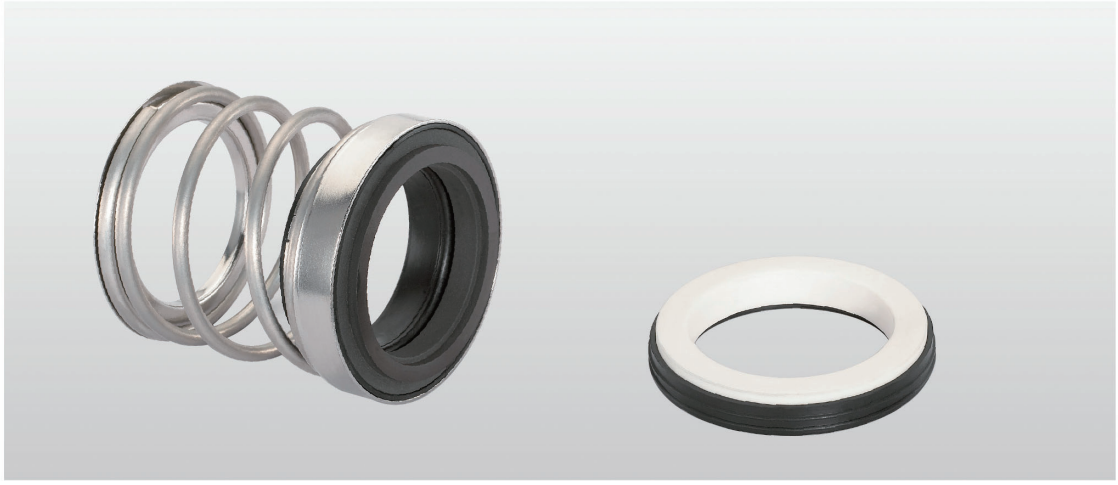
Operating Limits

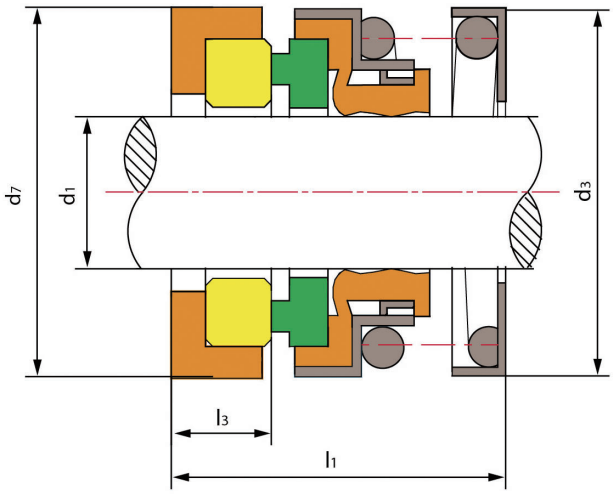
Pressure: ≤1MPa
Speed: ≤12 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (inches)	d_7	d_3	d_6	d_2	l_1	l_3
TSE-5/16"	7.925	25.400	27.00	16.00	20.63	24.60	8.0
TSE-3/8"	9.520	22.225	23.80	14.30	17.42	22.22	6.2
TSE-1/2"	12.700	25.400	26.97	17.45	20.63	22.80	6.2
TSE-5/8"	15.875	30.100	30.94	20.63	23.80	26.50	8.7
TSE-5/8"H	15.875	31.750	30.94	20.63	23.80	30.00	10.3
TSE-5/8"K	15.875	31.750	30.94	20.63	23.80	28.50	10.3
TSE-3/4"H	19.050	34.925	34.11	23.80	26.87	30.00	10.3
TSE-3/4"C	19.050	34.925	34.11	23.80	26.87	28.50	10.3
TSE-1"	25.400	41.275	42.85	30.15	33.33	31.73	11.1
E-1′/8″	28.575	44.45	46.00	33.50	36.50	31.75	11.1





TS 960

技术参数：

压力：≤1.2MPa
线速度：≤15米/秒
温度：-30˚C ～+200˚C

Operating Limits

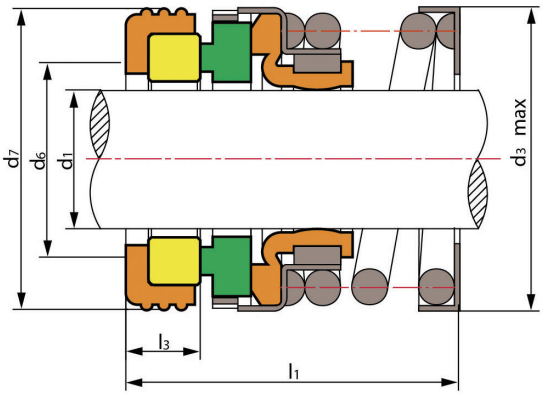
Pressure: ≤1.2MPa
Speed: ≤15m/s
Temperature: -30˚C ～+200˚C

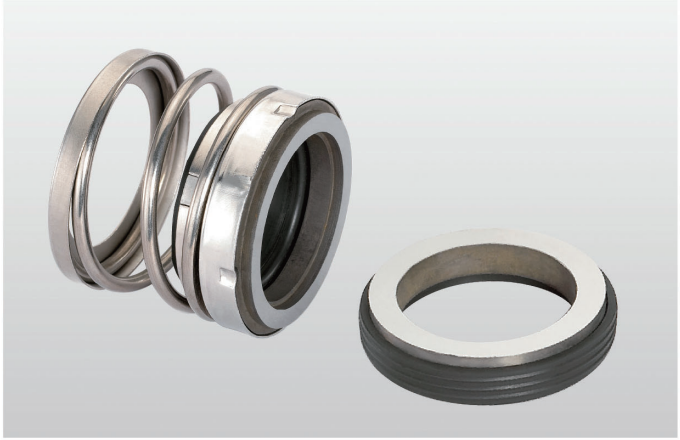
- 动环(车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及冲件(不锈钢)

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

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS960-14	14	24.5	25	35.0	8
TS960-16	16	26.8	27	35.0	8
TS960-18	18	31.8	33	37.5	10
TS960-20	20	32.5	35	37.5	10
TS960-22	22	36.5	37	37.5	10
TS960-24	24	38.8	39	40.0	10
TS960-25	25	38.8	40	40.0	10
TS960-28	28	46.5	43	42.5	10
TS960-30	30	46.5	45	42.5	10
TS960-32	32	46.5	48	42.5	10
TS960-33	33	49.5	48	42.5	10
TS960-35	35	49.5	50	42.5	11

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS960-38	38	54.0	56	45.0	11
TS960-40	40	57.0	58	45.0	11
TS960-43	43	61.5	61	45.0	11
TS960-45	45	61.5	63	45.0	11
TS960-48	48	70.6	66	45.0	11
TS960-50	50	70.6	70	47.5	11
TS960-53	53	70.6	73	47.5	12
TS960-55	55	76.0	75	47.5	12
TS960-58	58	79.6	78	52.5	12
TS960-60	60	79.6	80	52.5	12
TS960-63	63	84.6	83	52.5	12
TS960-65	65	84.6	85	52.5	13





TS 560A

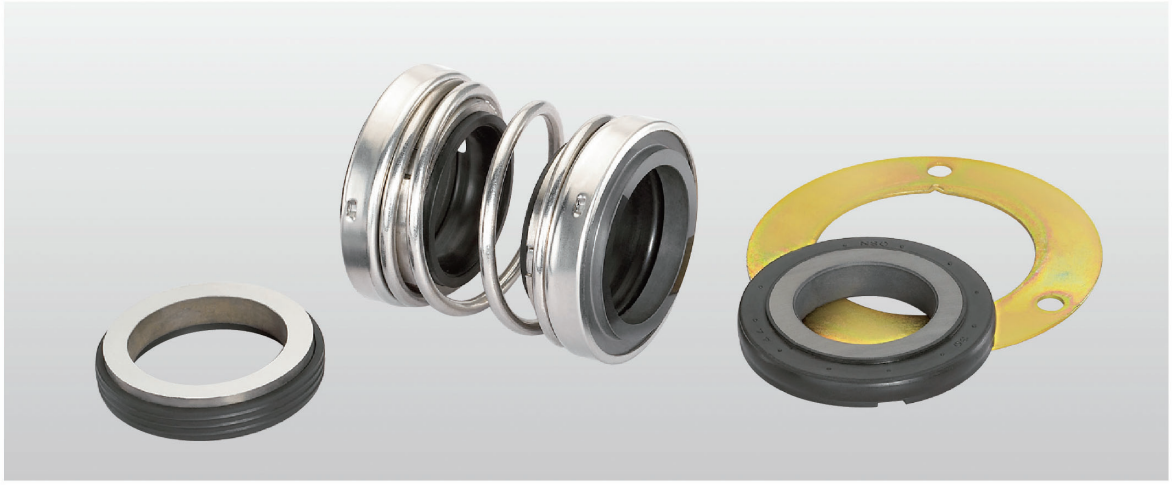
技术参数：	**Operating Limits**
压力：≤1 MPa	Pressure: ≤1MPa
线速度：≤12米/秒	Speed: ≤12 m/s
温度：-30˚C ～+200˚C	Temperature: -30˚C ～+200˚C

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

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

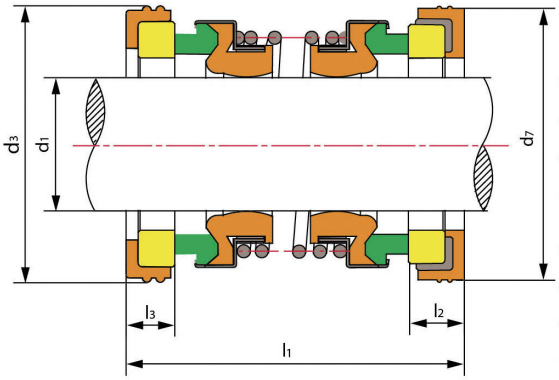
Model	d_1 (mm)	d_3	d_6	d_7	l_1	l_3
TS560A-10	10	23.5	16	24	25.0	7.0
TS560A-11	11	23.5	16	24	25.0	7.0
TS560A-12	12	26.0	17	26	25.0	7.0
TS560A-14	14	28.0	21	28	25.5	7.0
TS560A-15	15	30.0	21	28	29.5	7.0
TS560A-16	16	32.0	22	32	33.5	10.0
TS560A-18	18	32.5	25	35	36.5	10.0
TS560A-19	19	32.5	25	35	36.5	10.0
TS560A-20	20	35.5	27	38	38.0	10.0
TS560A-22	22	37.5	29	40	40.3	10.0
TS560A-25	25	42.0	32	44	39.3	10.0
TS560A-28	28	47.0	34	46	40.0	10.0
TS560A-30S	30	46.0	35	45	38.2	7.5
TS560A-30L	30	48.0	38	50	40.0	10.0
TS560A-32	32	50.0	40	54	40.0	10.0
TS560A-35	35	54.5	44	58	42.0	10.0
TS560A-38	38	58.5	46	60	42.6	10.0
TS560A-40	40	62.5	48	64	42.6	10.0
TS560A-45	45	66.5	52	66	45.0	10.0
TS560A-50	50	72.5	58	72	54.6	11.5
TS560A-55S	55	72.0	60	75	59.4	12.0

Model	d_1 (mm)	d_3	d_6	d_7	l_1	l_3
TS560A-55L	55	76.0	60	78	59.8	12.0
TS560A-60	60	80.0	65	80	63.0	12.0
TS560A-65	65	85.0	70	85	64.0	13.0
TS560A-70	70	92.0	75	92	60.0	11.0
Model	**d_1(inches)**	**d_3**	**d_6**	**d_7**	**l_1**	**l_3**
TS560A-3/8"	9.525	23.5	14.3	22.230	28.6	7.9
TS560A-1/2"	12.700	26.0	17.5	25.400	28.6	7.9
TS560A-5/8"	15.875	30.0	20.6	31.750	32.5	10.3
TS560A-3/4"	19.050	32.5	23.8	34.930	32.5	10.3
TS560A-7/8"	22.225	37.5	27.0	38.100	34.1	10.3
TS560A-1"	25.400	44.0	30.2	41.280	36.5	11.1
TS560A-1 1/8"	28.575	48.0	33.3	44.450	38.1	11.1
TS560A-1 1/4"	31.750	50.0	36.5	47.630	38.1	11.1
TS560A-1 3/8"	34.925	54.5	39.7	50.800	39.7	11.1
TS560A-1 1/2"	38.100	58.5	42.9	53.980	39.7	11.1
TS560A-1 5/8"	41.275	64.0	46.0	60.330	47.6	12.7
TS560A-1 3/4"	44.450	67.0	49.2	63.500	47.6	12.7
TS560A-1 7/8"	47.625	71.0	52.4	66.680	50.8	12.7
TS560A-2"	50.800	73.5	55.6	69.850	50.8	12.7
TS560A-2 1/8"	53.975	75.6	\	76.200	57.2	14.3
TS560A-2 1/4"	57.150	80.0	65.0	79.380	57.2	14.3
TS560A-2 3/8"	60.325	79.6	\	82.550	57.2	14.3
TS560A-2 1/2"	63.500	84.9	70.0	85.730	60.3	14.3
TS560A-2 5/8"	66.675	84.6	\	85.725	65.1	15.9
TS560A-2 3/4"	69.850	93.0	\	88.900	65.1	15.9
TS560A-3"	76.200	102.0	\	98.425	68.3	15.9



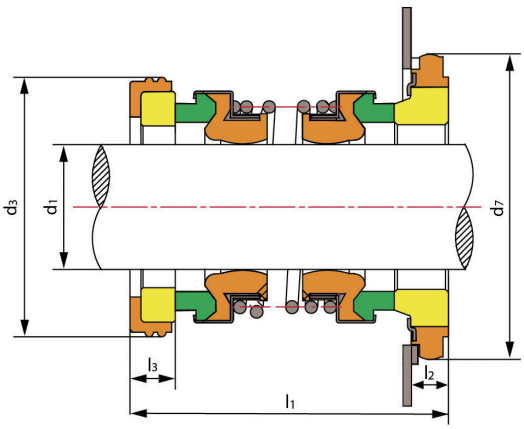
TS 560D

技术参数：	Operating Limits
压力：≤0.3MPa	Pressure: ≤0.3MPa
线速度：≤10米/秒	Speed: ≤10 m/s
温度：-30˚C ～+200˚C	Temperature: -30˚C ～+200˚C



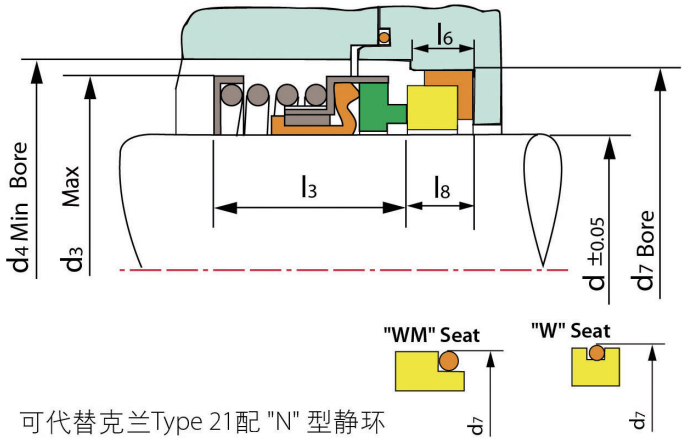
- 动环(热压石墨/车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及冲件(不锈钢)

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



Model	d_1 (mm)	d_3	d_7	l_1	l_2	l_3
TS560D-13	13	25	25	36	5	5
TS560D-14	14	30	30	37	5	5
TS560D-15	15	30	30	37	5	5
TS560D-16	16	30	30	37	5	5
TS560D-18	18	35	38	49	7	10
TS560D-19	19	35	38	49	7	10
TS560D-20	20	38	44	49	7	7
TS560D-25	25	44	50	51	7	7
TS560D-30	30	50	57	59	9	8
TS560D-35	35	58	64	61	9	9
TS560D-40	40	64	70	64	11	9
TS560D-45	45	66	70	65	10	9
TS560D-50	50	72	80	69	10	9

Type TS21 Seal With "N" Seat



可代替克兰Type 21配 "N" 型静环
Replace John Crane Type 21 with "N" seat

TS 21

技术参数：

压力：0~1MPa
线速度：≤13米/秒
温度：-30˚C ～+200˚C

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

设计特点:

a. 单弹簧,橡皮波纹管密封;
b. 除 "N" 型静环,还可提供克兰"W" 型和 "WM" 型静环

Operating Limits

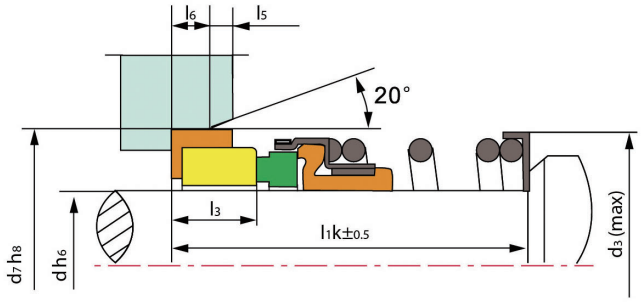
Pressure: 0~1MPa
Speed: ≤13 m/s
Temperature: -30˚C ～+200˚C

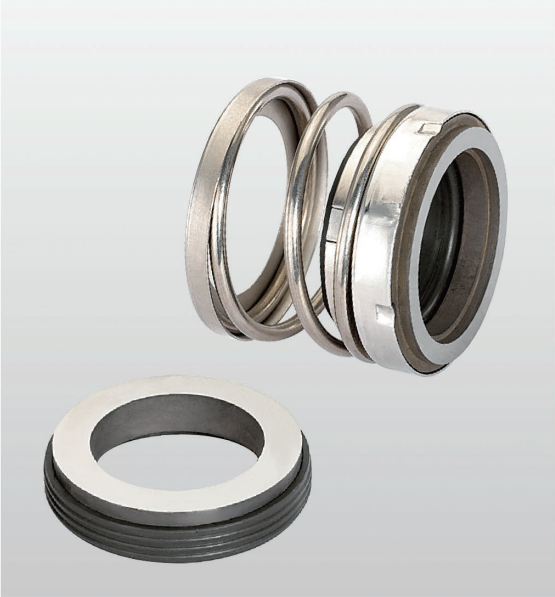
- Rotary Ring(Carbon/SiC/TC)
- Stationary Ring(Ceramic/SiC/TC)
- Secondary Seal(NBR/EPDM/VITON)
- Spring & Other Parts(S.S/SUS304/SUS316)

Design Feature:

a. Single spring,rubber bellows seal.
b. Besides the stationary ring of type "N" ,other stationary rings such as John Crane types "W" , "WM" can also be provided.

Seal size (inches)	d	d_3	d_4	l_3	d_7	l_6	l_8
0.500	12.70	23.81	26.99	20.64	27.80	7.1	8.7
0.625	15.88	26.99	33.34	22.23	30.95	8.7	10.3
0.750	19.05	30.16	36.51	22.23	34.15	8.7	10.3
0.875	22.23	33.34	39.69	23.81	37.30	8.7	10.3
1.000	25.40	42.85	49.20	25.40	40.50	8.7	10.3
1.125	28.58	46.02	52.37	26.97	47.65	10.3	11.9
1.250	31.75	49.20	55.55	26.97	50.80	10.3	11.9
1.375	34.93	52.37	58.72	28.58	54.00	10.3	11.9
1.500	38.10	55.55	61.90	28.58	57.15	10.3	11.9
1.625	41.28	63.50	69.85	34.93	60.35	10.3	11.9
1.750	44.45	66.68	73.03	34.93	63.55	10.3	11.9
1.875	47.63	69.85	76.20	38.10	66.70	10.3	11.9
2.000	50.80	73.03	80.95	38.10	69.85	11.9	13.5
2.125	53.98	76.20	84.12	42.85	73.05	11.9	13.5
2.250	57.15	79.38	87.30	42.85	76.20	11.9	13.5
2.375	60.33	82.55	90.47	46.02	79.40	11.9	13.5
2.500	63.50	84.91	93.65	46.02	82.55	11.9	13.5
2.625	66.68	88.90	101.60	49.20	92.10	14.3	15.9
2.750	69.85	95.25	104.78	49.20	95.25	14.3	15.9
2.875	73.03	98.43	111.13	52.37	98.45	14.3	15.9
3.000	76.20	101.60	114.30	52.37	101.60	14.3	15.9
3.125	79.38	104.78	120.65	55.55	111.15	18.3	19.9
3.250	82.55	107.95	123.83	55.55	114.30	18.3	19.9
3.375	85.73	114.30	133.35	55.55	117.50	18.3	19.9
3.500	88.90	117.48	136.53	55.55	120.65	18.3	19.9
3.625	92.08	120.65	139.70	58.72	123.85	18.3	19.9
3.750	95.25	123.83	142.88	58.72	127.00	18.3	19.9
3.875	98.43	127.00	146.05	61.90	130.20	18.3	19.9
4.000	101.60	130.18	149.23	61.90	133.35	18.3	19.9





设计特点: 安装尺寸符合ISO3069,DIN24960和GB6556标准。

Design Feature: Installation dimension conform to ISO3069,DIN24960 and GB6556

TS 43

技术参数:

压力: ≤1MPa
线速度: ≤10米/秒
温度: -30˚C ~ +200˚C

Operating Limits

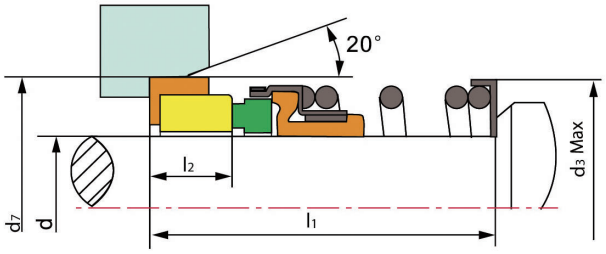
Pressure: ≤1MPa
Speed: ≤10 m/s
Temperature: -30˚C ~ +200˚C

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

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

Model	d (mm)	d_3	d_7	l_1k	l_3	l_5	l_6
TS43-10	10	20.6	21	32.5	6.0	1.5	4
TS43-12	12	22	23	32.5	6.6	1.5	4
TS43-14	14	24	25	35.0	8.0	1.5	4
TS43-16	16	26	27	35.0	8.0	1.5	4
TS43-18	18	32	33	37.5	10.0	2.0	5
TS43-20	20	34	35	37.5	10.0	2.0	5
TS43-22	22	37	37	37.5	10.0	2.0	5
TS43-24	24	38	39	40.0	10.0	2.0	5
TS43-25	25	39	40	40.0	10.0	2.0	5
TS43-28	28	42	43	42.5	10.0	2.0	5
TS43-30	30	44	45	42.5	10.0	2.0	5
TS43-32	32	47	48	42.5	10.0	2.0	5
TS43-33	33	47	48	42.5	10.0	2.0	5
TS43-35	35	49	50	42.5	10.5	2.0	5
TS43-38	38	54	56	45.0	11.0	2.0	6
TS43-40	40	56	58	45.0	10.5	2.0	6
TS43-43	43	59	61	45.0	11.0	2.0	6

Model	d (mm)	d_3	d_7	l_1k	l_3	l_5	l_6
TS43-45	45	62	63	45.0	10.5	2.0	6
TS43-48	48	64	66	45.0	10.5	2.0	6
TS43-50	50	66	70	47.5	11.0	2.5	6
TS43-53	53	69	73	47.5	11.5	2.5	6
TS43-55	55	72	75	47.5	12.0	2.5	6
TS43-58	58	80	78	52.5	12.0	2.5	6
TS43-60	60	80	80	52.5	12.0	2.5	6
TS43-63	63	83	83	52.5	12.0	2.5	6
TS43-65	65	85	85	52.5	13.0	2.5	6
TS43-68	68	88	90	52.5	11.3	2.5	7
TS43-70	70	90	92	60.0	11.3	2.5	7
TS43-75	75	99	97	60.0	11.3	2.5	7
TS43-80	80	104	105	60.0	12.0	3.0	7
TS43-85	85	108	110	60.0	14.0	3.0	7
TS43-90	90	114	115	65.0	14.0	3.0	7
TS43-95	95	119	120	65.0	14.0	3.0	7
TS43-100	100	124	125	65.0	14.0	3.0	7



TS BIA

技术参数：

压力：≤1 MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

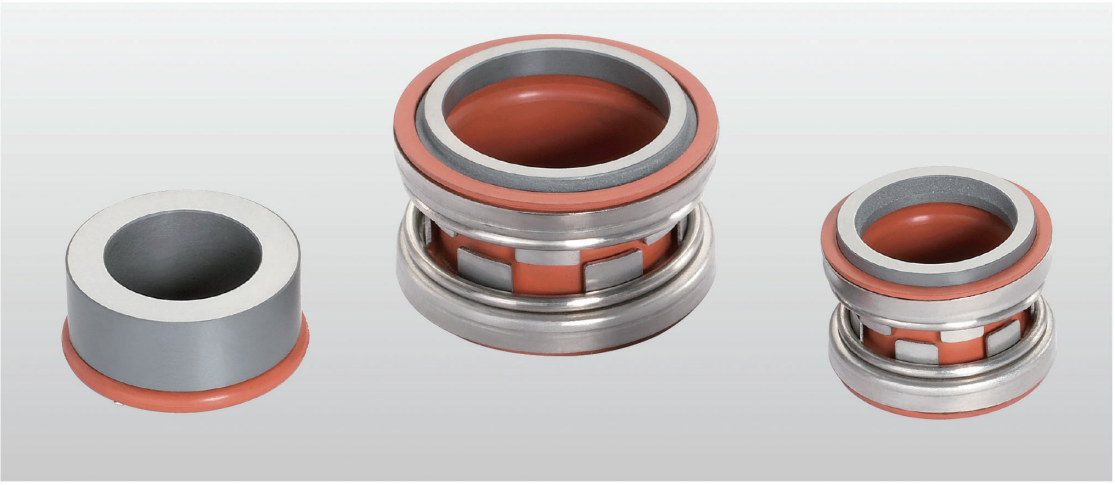
Operating Limits

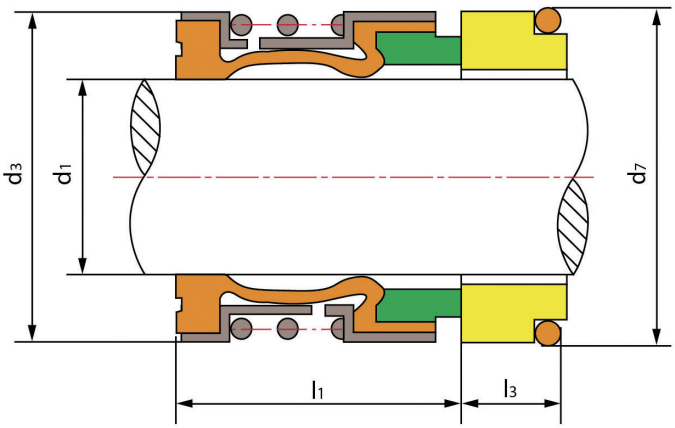
Pressure: ≤1MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d (mm)	d_3	d_7	l_1	l_2
TSBIA-14	14	27.0	30	23.7	5.0
TSBIA-16	16	28.5	32	26.0	5.0
TSBIA-18	18	30.5	35	30.0	7.5
TSBIA-20	20	34.0	35	29.0	8.0
TSBIA-25	25	39.0	40	33.5	8.0
TSBIA-28	28	42.0	43	33.5	8.0
TSBIA-30	30	44.0	45	34.5	9.0
TSBIA-32	32	47.0	48	42.5	9.0
TSBIA-33	33	47.0	48	42.5	9.0
TSBIA-35	35	49.0	50	42.5	9.0
TSBIA-38	38	54.0	56	42.5	9.0
TSBIA-40	40	56.0	58	42.5	9.0
TSBIA-43	43	59.0	61	46.0	9.5
TSBIA-45	45	62.0	63	47.5	9.5
TSBIA-48	48	64.0	66	47.5	9.5
TSBIA-50	50	66.0	70	47.5	9.5
TSBIA-53	53	69.0	73	50.5	9.5
TSBIA-55	55	72.0	75	50.5	9.5
TSBIA-58	58	80.0	78	51.5	9.5
TSBIA-60	60	80.0	80	51.5	9.5
TSBIA-70	70	90.0	92	56.0	11.0





TS CG

技术参数：

压力：≤1.2MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

Pressure: ≤1.2MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

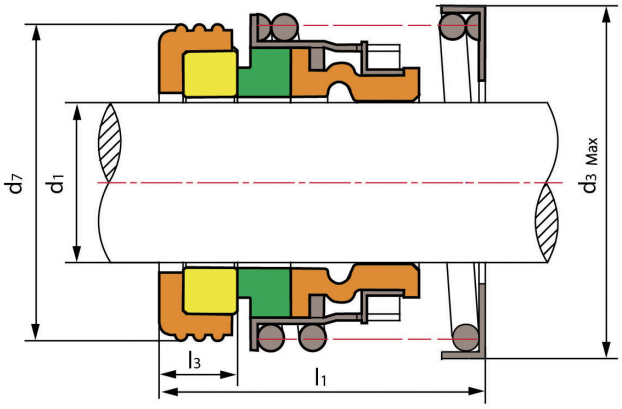
可代替克兰Type 2100 配 "BO"型静环，
还可提供G60型静环
Replace John Crane type 2100 with "BO" seat ,
and "G60" seat also can be provided

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

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

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TSCG-16	16	26	27	15	12.0
TSCG-18	18	32	33	20	13.5
TSCG-20	20	34	35	20	13.5
TSCG-22	22	36	37	20	13.5
TSCG-24	24	38	39	20	13.5
TSCG-25	25	39	40	20	13.0
TSCG-28	28	42	43	26	12.5
TSCG-30	30	44	45	26	12.0
TSCG-32	32	46	48	26	12.0
TSCG-33	33	47	48	26	12.0
TSCG-35	35	49	50	26	12.0
TSCG-38	38	54	56	30	13.0

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TSCG-40	40	56	58	30	13.0
TSCG-43	43	59	61	30	13.0
TSCG-45	45	61	63	30	13.0
TSCG-48	48	64	66	30	13.0
TSCG-50	50	66	70	30	13.5
TSCG-53	53	69	73	30	13.5
TSCG-55	55	71	75	30	13.5
TSCG-60	60	80	80	33	13.5
TSCG-65	65	85	85	33	13.5
TSCG-70	70	90	92	33	14.5
TSCG-75	75	99	97	40	14.5



TS 580 可代替克兰Type 2 配 "N"型静环(欧洲标准),还可提供"WM"型静环

TS 580 Replace John Crane Type 2 with "N" seat(Euro Standard), and "WM" seat also can be provided.

TS 580

技术参数：

压力：≤2.8 MPa
线速度：≤13米/秒
温度：-30˚C ～+200˚C

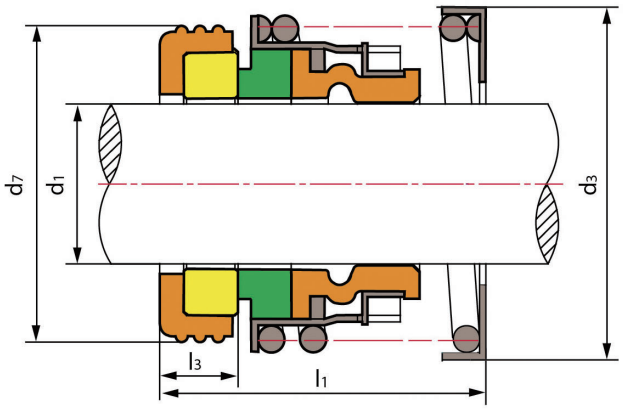
Operating Limits

Pressure: ≤2.8MPa
Speed: ≤13 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (inches)	d_3	d_7	l_1	l_3
TS580-3/8"	9.525	28	24.60	33.7	8.7
TS580-1/2"	12.700	32	27.80	33.7	8.7
TS580-5/8"	15.875	35	30.95	35.3	10.3
TS580-3/4"	19.050	40	34.15	35.3	10.3
TS580-7/8"	22.225	43	37.30	35.3	10.3
TS580-1"	25.400	47	40.50	35.3	10.3
TS580-1 1/8"	28.575	56	47.65	44.9	11.9
TS580-1 1/4"	31.750	59	50.80	44.9	11.9
TS580-1 3/8"	34.925	63	54.00	44.9	11.9
TS580-1 1/2"	38.100	67	57.15	44.9	11.9
TS580-1 5/8"	41.275	71	60.35	44.9	11.9
TS580-1 3/4"	44.450	74	63.50	52.9	11.9
TS580-1 7/8"	47.625	77	66.70	52.9	11.9
TS580-2"	50.800	81	69.85	54.5	13.5
TS580-2 1/8"	53.970	84	73.05	54.5	13.5
TS580-2 1/4"	57.150	88	76.20	54.5	13.5
TS580-2 3/8"	60.320	91	79.40	54.5	13.5
TS580-2 1/2"	63.500	94	82.55	54.5	13.5



TS T2可代替克兰Type 2配静环套结构静环(美国标准),还可以提供O形圈结构静环.

Replace John Crane Type 2 with ‘cup’ seat (US Standard), and O-Ring seat also can be provided.

TS T2

技术参数：

压力：≤2.8 MPa
线速度：≤13米/秒
温度：-30˚C ～+200˚C

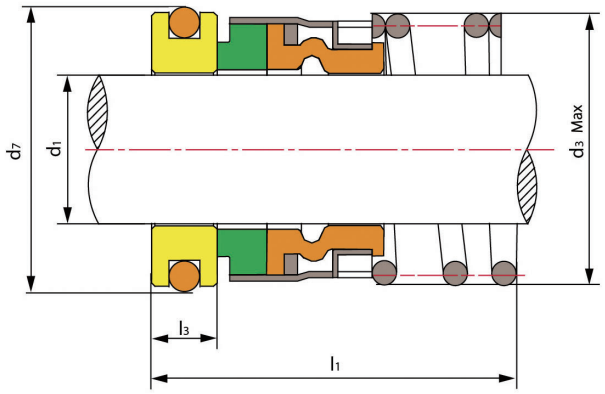
Operating Limits

Pressure: ≤2.8MPa
Speed: ≤13 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (inches)	d_3	d_7	l_1	l_3
T2-1"	25.400	46.00	41.275	36.50	11.10
T2-1 1/8"	28.575	49.20	44.450	38.10	11.10
T2-1 1/4"	31.750	52.40	47.625	38.10	11.10
T2-1 3/8"	34.925	57.20	50.800	39.70	11.10
T2-1 1/2"	38.100	60.30	53.975	39.70	11.10
T2-1 5/8"	41.275	69.00	60.325	47.63	12.70
T2-1 3/4"	44.450	69.90	63.500	47.63	12.70
T2-1 7/8"	47.625	73.00	66.675	50.80	12.70
T2-2"	50.800	76.20	69.850	50.80	12.70
T2-2 1/8"	53.975	82.50	76.200	57.15	14.30
T2-2 1/4"	57.150	85.70	79.375	57.15	14.30
T2-2 3/8"	60.325	88.90	82.550	60.30	14.30
T2-2 1/2"	63.500	94.00	85.725	60.30	14.30
T2-3"	76.200	107.95	98.425	68.28	15.90
T2-4"	101.600	141.28	123.830	78.57	19.84



TS 580B 可代替克兰Type 1 A(欧洲标准)

TS 580B Replace John Crane Type 1A(European Standard).

TS 580B

技术参数：

压力：≤2.8MPa
线速度：≤13米/秒
温度：-30˚C ～+200˚C

Operating Limits

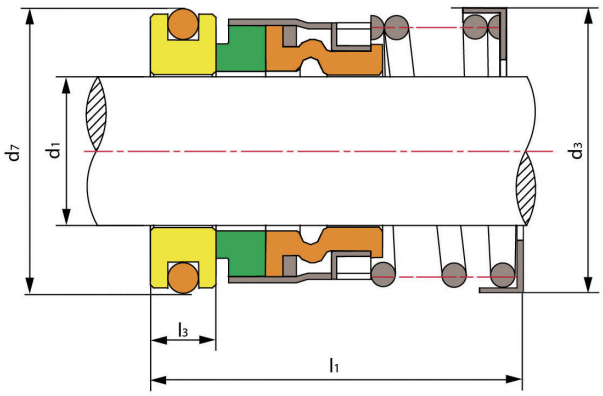
Pressure: ≤2.8MPa
Speed: ≤13 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS580B-14	14	29	25	52	8
TS580B-16	16	29	27	52	8
TS580B-18	18	32	33	52	8
TS580B-19	19	32	35	52	8
TS580B-20	20	33	37	52	8
TS580B-24	24	38	39	52	8
TS580B-25	25	38	40	52	8
TS580B-28	28	46	43	69	9
TS580B-30	30	49	45	69	9
TS580B-32	32	49	48	69	9

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS580B-35	35	52	50	70	10
TS580B-38	38	56	56	70	10
TS580B-40	40	59	58	70	10
TS580B-45	45	62	63	81	10
TS580B-48	48	65	66	81	10
TS580B-50	50	68	70	81	10
TS580B-55	55	75	75	83	12
TS580B-60	60	78	80	83	12
TS580B-65	65	86	85	83	12



TS T1可代替克兰Type 1(美国标准).

Replace John Crane Type 1 (US Standard).

TS T1

技术参数：

压力：≤2.8MPa
线速度：≤13米/秒
温度：-30˚C ～+200˚C

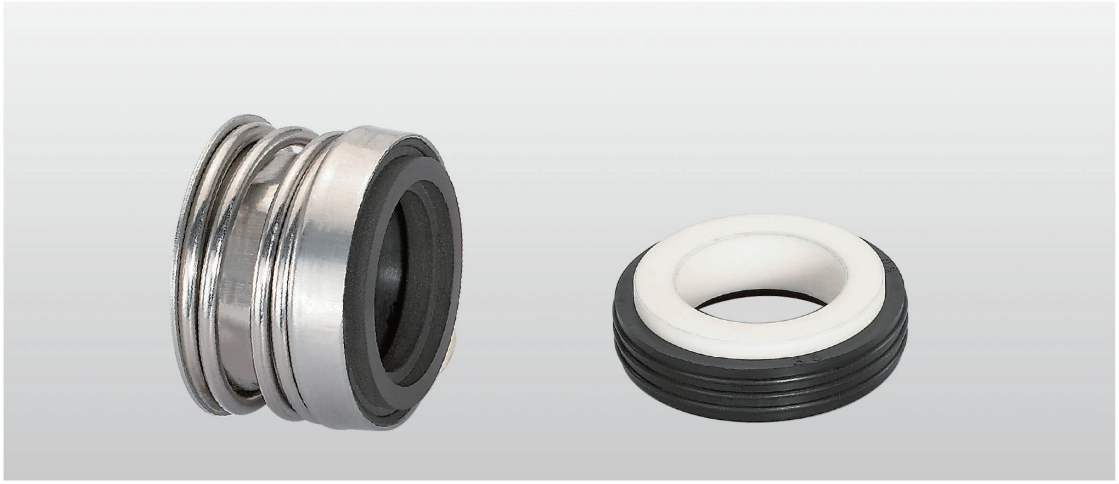
- 动环(车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨/不锈钢)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及冲件(不锈钢)

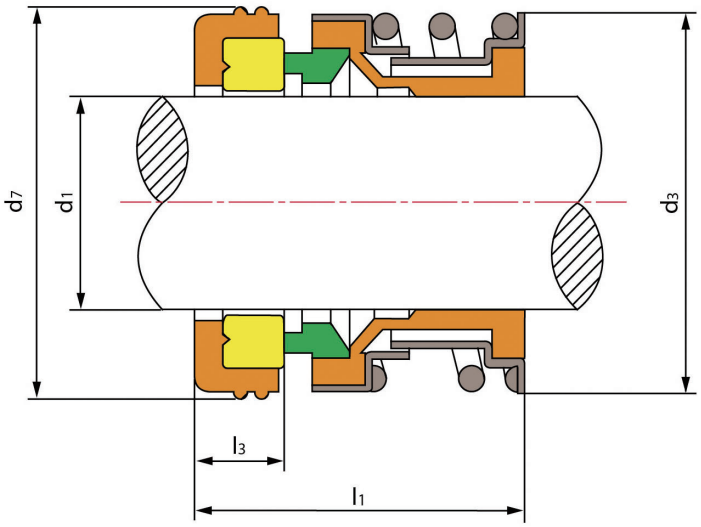
Operating Limits

Pressure: ≤2.8MPa
Speed: ≤13 m/s
Temperature: -30˚C ～+200˚C

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

Model	d_1 (inches)	d_3	d_7	l_1	l_3
T1-1 "	25.400	38.1	41.275	50.77	11.1
T1-1 1/8"	28.575	41.5	44.450	52.40	11.1
T1-1 1/4"	31.750	46.0	47.625	52.40	11.1
T1-1 3/8"	34.925	47.6	50.800	53.90	11.1
T1-1 7/16	36.500	50.8	53.975	53.90	11.1
T1-1 1/2"	38.100	50.8	53.975	53.90	11.1
T1-1 5/8"	41.275	57.2	60.325	63.50	12.7
T1-1 3/4"	44.450	60.5	63.500	63.50	12.7
T1-1 7/8"	47.625	63.5	66.675	66.70	12.7
T1-2"	50.800	66.7	69.850	66.70	12.7
T1-2 1/8"	53.975	71.4	76.200	74.60	14.3
T1-2 1/4"	57.150	74.6	79.375	74.60	14.3
T1-2 3/8"	60.325	77.8	82.550	77.80	14.3
T1-2 1/2"	63.500	81.0	85.725	77.80	14.3
T1-2 5/8"	66.675	85.7	85.725	85.75	15.9
T1-2 3/4"	69.850	88.9	88.900	85.75	15.9
T1-2 7/8"	73.025	92.0	95.250	88.90	15.9
T1-3"	76.200	95.2	98.425	88.90	15.9
T1-3'/2"	88.9	111.1	111.1	99.18	19.8





TS 166

技术参数：

压力：≤1 MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

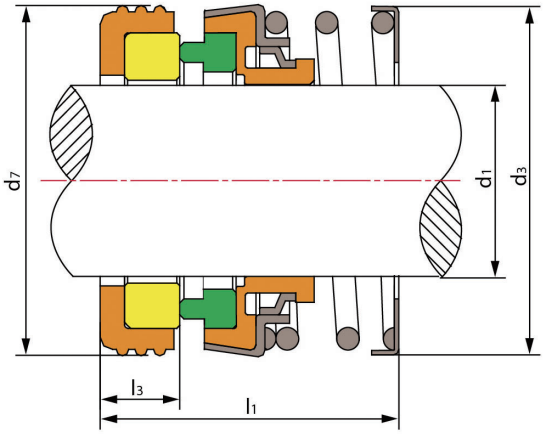
Pressure: ≤1MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

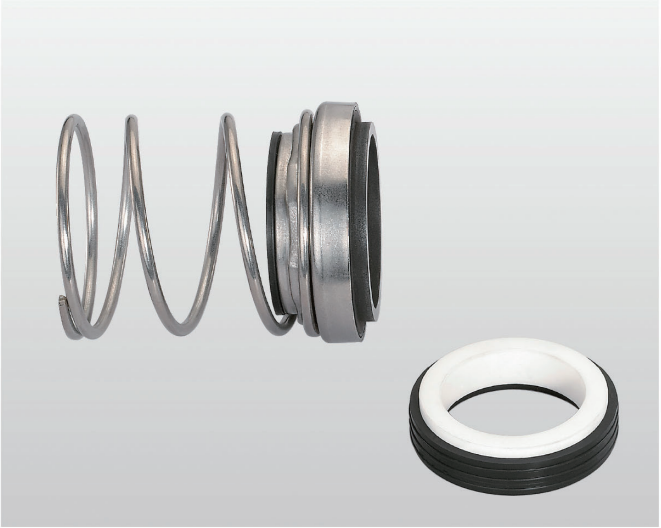
类似于美国 "PAC" TYPE16系列
Replace"PAC-SEAL" type 16

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

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

Model	d_1 (inches)	d_3	d_7	l_1	l_3
TS166-5/16"	7.938	23.29	25.4	24.5	7.9
TS166-3/8"	9.525	23.29	22.225	23.80	7.14
TS166-1/2"	12.700	23.29	25.400	23.01	6.35
TS166-5/8"	15.875	30.10	31.750	28.55	10.31
TS166-3/4"	19.050	33.07	34.925	28.55	10.31
TS166-7/8"	22.225	36.30	38.100	30.94	10.31
TS166-1"	25.400	39.42	41.275	31.72	11.10





TS 166T

技术参数：

压力：≤1MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

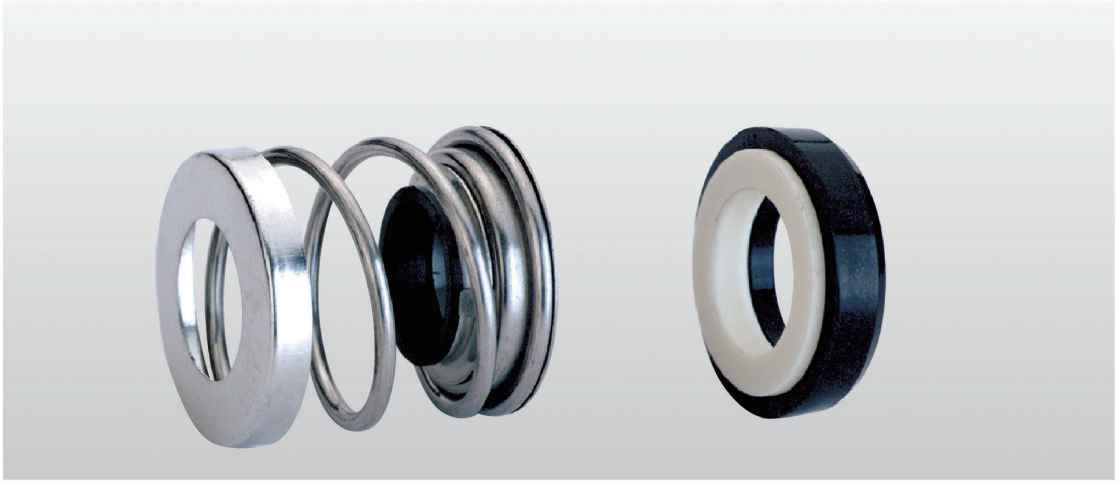
Pressure: ≤1MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

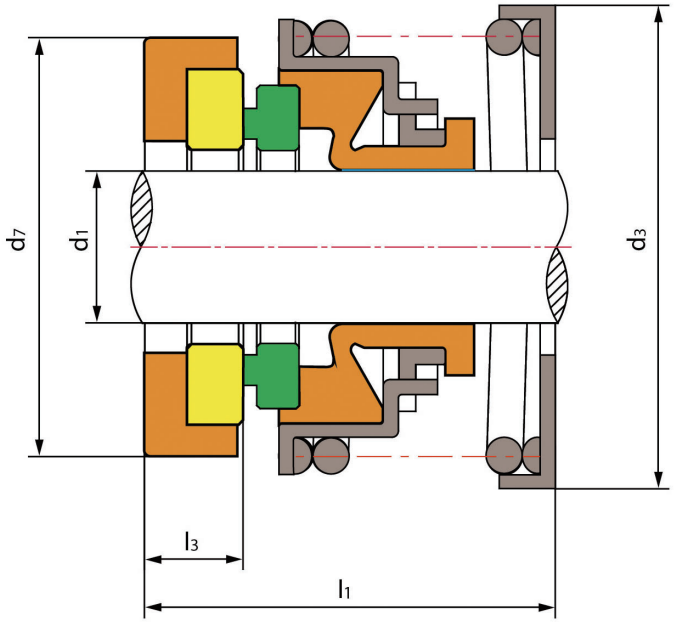
- 动环(车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨)
- 静环套(丁腈胶/三元乙丙胶/氟胶)
- 弹簧(不锈钢)
- 紧圈(不锈钢)
- 传动套(不锈钢)
- 波纹管(丁腈胶/三元乙丙胶/氟胶)

- Rotary Ring(Carbon/SiC/TC)
- Stationary Ring(Ceramic/SiC/TC)
- Cup Gasket(NBR/EPDM/VITON)
- Spring(SUS304/SUS316)
- Drive Ring(SUS304/SUS316)
- Retainer(SUS304/SUS316)
- Bellows(NBR/EPDM/VITON)

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS166T-12	12	23.3	27.80	34.1	8.7
TS166T-16	16	30.1	30.95	35.7	10.3
TS166T-20	20	36.3	35.70	35.7	10.3
TS166T-22	22	36.3	37.30	35.7	10.3
TS166T-24	24	39.4	40.50	35.7	10.3
TS166T-25	25	39.4	40.50	35.7	10.3
TS166T-28	28	44.4	47.65	45.2	11.9
TS166T-30	30	47.6	50.80	45.2	11.9
TS166T-32	32	47.6	50.80	45.2	11.9
TS166T-35	35	50.8	54.00	45.2	11.9
TS166T-38	38	54.0	57.15	45.2	11.9
TS166T-40	40	60.3	60.35	45.2	11.9
TS166T-45	46	66.7	63.50	52.4	11.9
TS166T-48	48	66.7	66.70	52.4	11.9
TS166T-50	50	69.0	69.85	54.0	13.5
TS166T- 55	55	74.6	73.05	54.0	13.5

Model	d_1 (inches)	d_3	d_7	l_1	l_3
TS166T-3/8"	9.525	23.292	24.587	34.138	8.738
TS166T-7/16"	11.100	22.000	30.000	26.000	5.400
TS166T-1/2"	12.700	23.292	27.788	34.138	8.738
TS166T-5/8"	15.875	30.099	30.937	35.712	10.312
TS166T-3/4"	19.050	33.071	33.1/34.138	35.712	6.5/10.312
TS166T-7/8"	22.225	36.297	37.287	35.712	10.312
TS166T-1"	25.400	39.421	40.488/41.28	43.307	10.3/11.1
TS166T-11/8"	28.575	44.450	47.625	44.907	11.913
TS166T-11/4"	31.750	47.625	50.800	44.907	11.913
TS166T-13/8"	34.925	50.800	53.975	44.907	11.913
TS166T-11/2"	38.100	53.975	57.150	44.907	11.913
TS166T-15/8"	41.275	60.325	60.325	44.907	11.913
TS166T-13/4"	44.450	60.325	63.500	52.934	11.913
TS166T-17/8"	47.625	63.881	66.675	52.934	11.913
TS166T-2"	50.800	69.000	69.850	54.508	13.487
TS166T-3"	76.200	98.4	101.600	68.250	15.875





TS 70

技术参数：

压力：≤0.6 MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

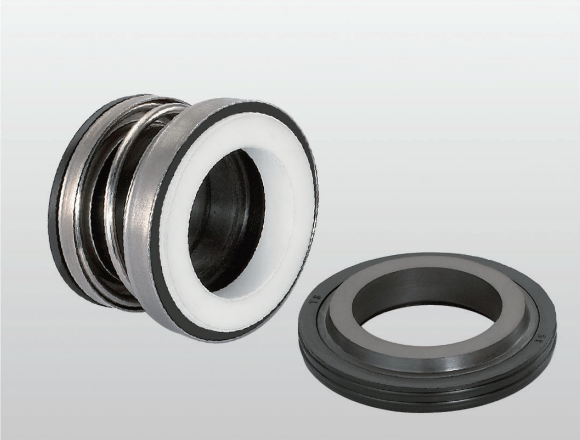
Operating Limits

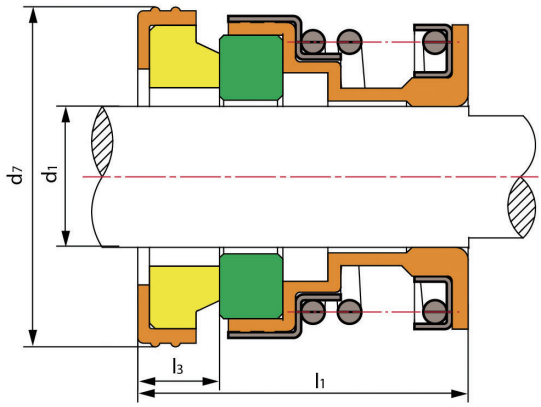
Pressure: ≤0.6MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

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

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

Model	d_1 (mm)	d_7	d_3	l_1	l_3
TS70-10	10	25.4	22.6	19	5.6
TS70-13	13	29.5	31.5	32	8
TS70-14	14	29.5	31.5	32	8
TS70-15	15	29.5	31.5	26/32	8
TS70-16	16	29.5	31.5	26/32	8



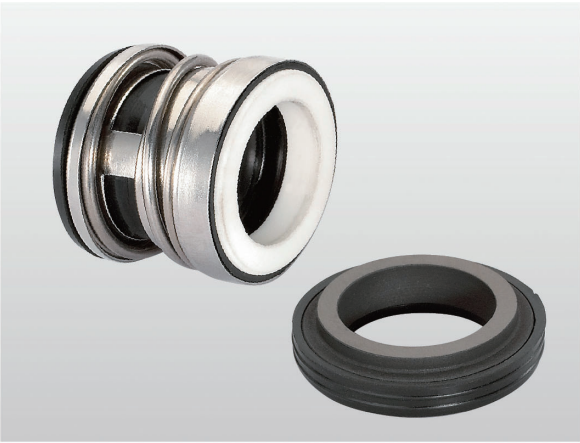


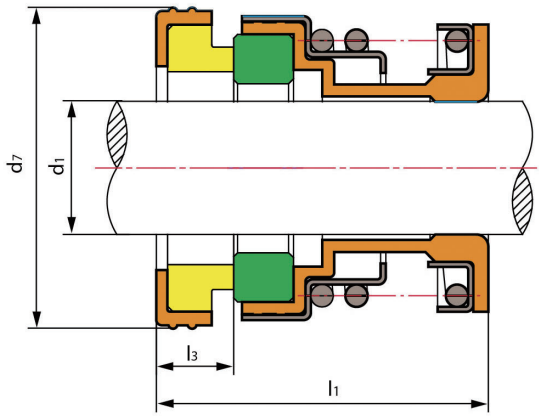
TS 103

技术参数：	Operating Limits
压力：≤0.8MPa	Pressure: ≤0.8MPa
线速度：≤5米/秒	Speed: ≤5 m/s
温度：-30˚C ～+200˚C	Temperature: -30˚C ～+200˚C

- 动环(陶瓷) / Rotary Ring(Ceramic)
- 静环(热压石墨) / StationaryRing(Plastic Carbon)
- 辅助密封(丁腈胶/氟胶) / Secondary Ring(NBR/VITON)
- 弹簧及传动套(不锈钢/铜) / Spring and Retainer(S.S/Copper)

Model	d_1 (mm)	d_7	l_1	l_3
TS103-10	10	25	20.5	5.0
TS103-12	12	26	20.5	5.5
TS103-12L	12	26	20.5	7.5
TS103-14	14	30	20.5	7.0
TS103-17	17	35	20.5	7.0
TS103-18	18	35	20.5	7.0



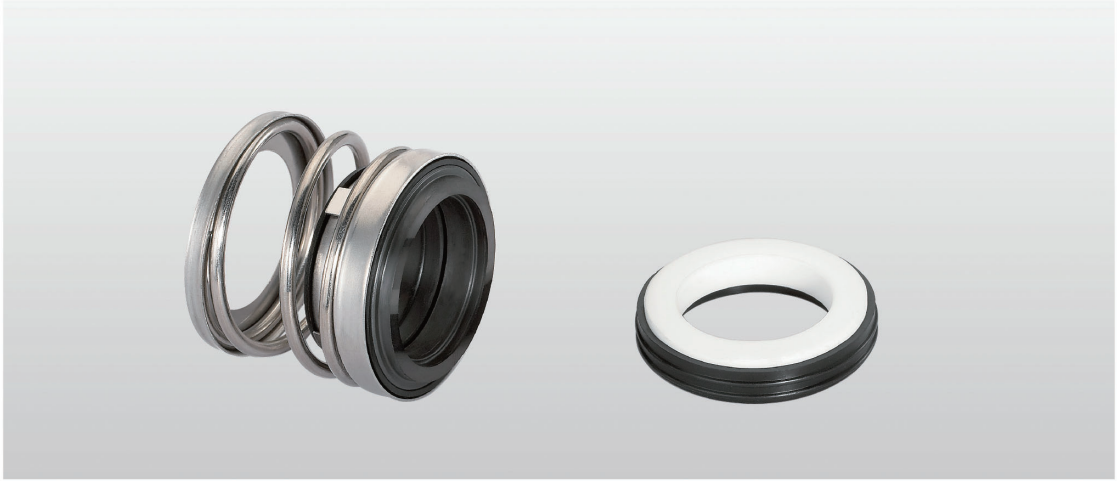


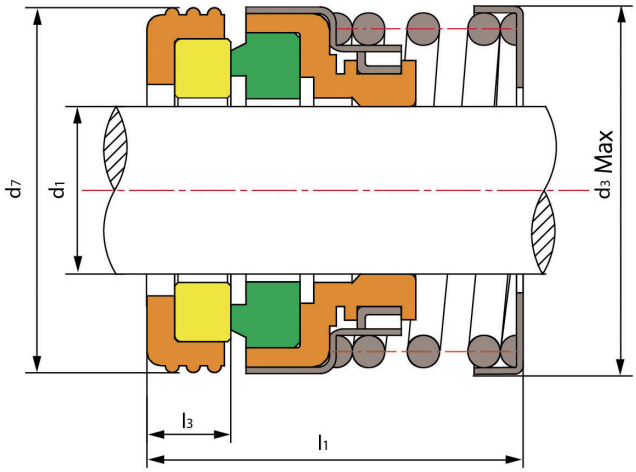
TS 104

技术参数：	Operating Limits
压力：≤0.8MPa	Pressure: ≤0.8MPa
线速度：≤5米/秒	Speed: ≤5 m/s
温度：-30˚C ～+200˚C	Temperature: -30˚C ～+200˚C

- 动环(陶瓷) / Rotary Ring(Ceramic)
- 静环(热压石墨) / Stationary Ring(Plastic Carbon)
- 辅助密封(丁腈胶/氟胶) / Secondary Ring(NBR/VITON)
- 弹簧及传动套(不锈钢/铜) / Spring and Retainer(S.S/Copper)

Model	d_1 (mm)	d_7	l_1	l_3
TS104-9	9	22	20	5.5
TS104-10	10	22	20	5.5
TS104-11	11	24	20	5.5
TS104-12	12	24	20	5.5
TS104-14	14	26	25	7.0
TS104-15	15	28	25	7.0
TS104-16	16	28	25	7.0
TS104-17	17	34	25	7.0
TS104-18	18	34	25	7.0
TS104-19	19	36	25	7.0
TS104-20	20	36	25	7.0
TS104-22	22	38	25	7.0
TS104-25	25	41	37	9.0
TS104-30	30	46	37	9.0
TS104-35	35	51	37	9.0
TS104-40	40	60	40	10.5
TS104-45	45	65	40	10.5





TS 108

技术参数：

压力：≤1MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

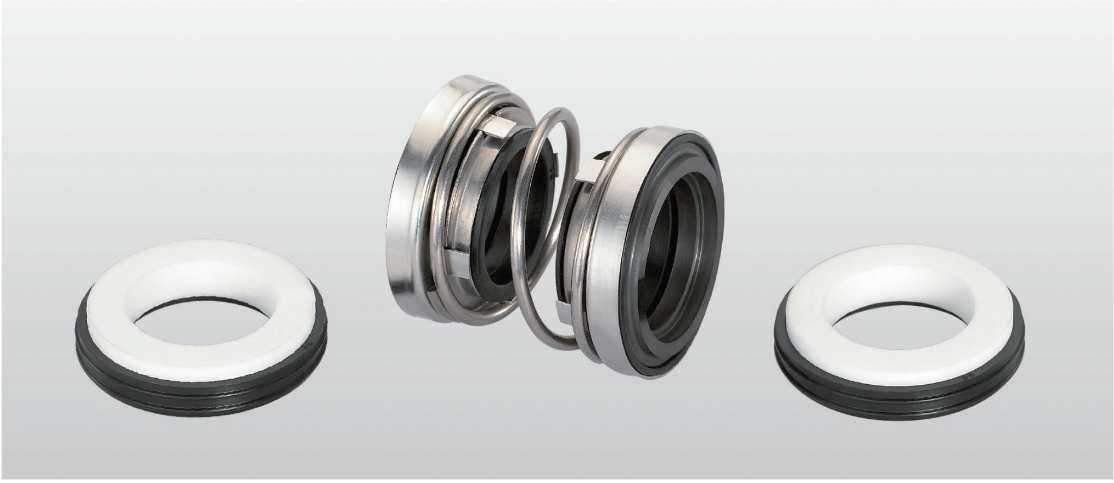
Pressure: ≤1MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

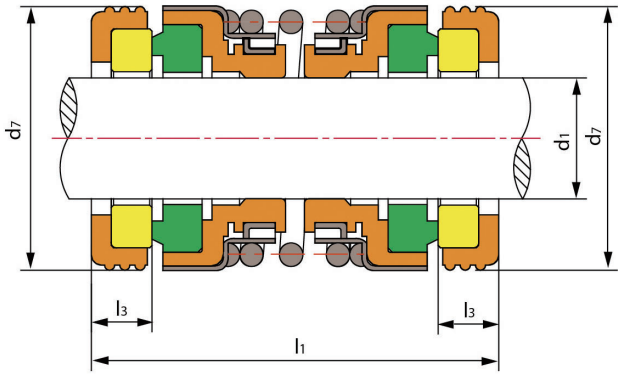
- 动环(热压石墨/车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及冲件(不锈钢)

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

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS108-9	9	20.6	21	20	5.0
TS108-10	10	20.6	21	20	5 .0
TS108-11	11	22.0	23	20	5.0
TS108-12	12	22.0	23	20	5 .0
TS108-14	14	24.5	25	25	5.2
TS108-15	15	26.5	27	25	5.2
TS108-16	16	26.5	27	25	5.2
TS108-17	17	32.0	33	25	5.2
TS108-18	18	32.0	33	25	5.2
TS108-19	19	34.0	35	25	7.5

Model	d_1 (mm)	d_3	d_7	l_1	l_3
TS108-20	20	34.0	35	25	7.5
TS108-22	22	36.5	37	28	7.5
TS108-25	25	39.0	40	32	8.0
TS108-28	28	46.5	43	35	8.0
TS108-30	30	46.5	45	35	8.0
TS108-35	35	50.0	50	37	8.0
TS108-40	40	56.0	58	40	8.7
TS108-45	45	62.0	63	40	9.0
TS108-50	50	69.0	70	45	9.0
TS108-55	55	76.0	75	45	10.5





TS 208

技术参数：

压力：≤1.2MPa
线速度：≤10米/秒
温度：-30˚C ～+200˚C

Operating Limits

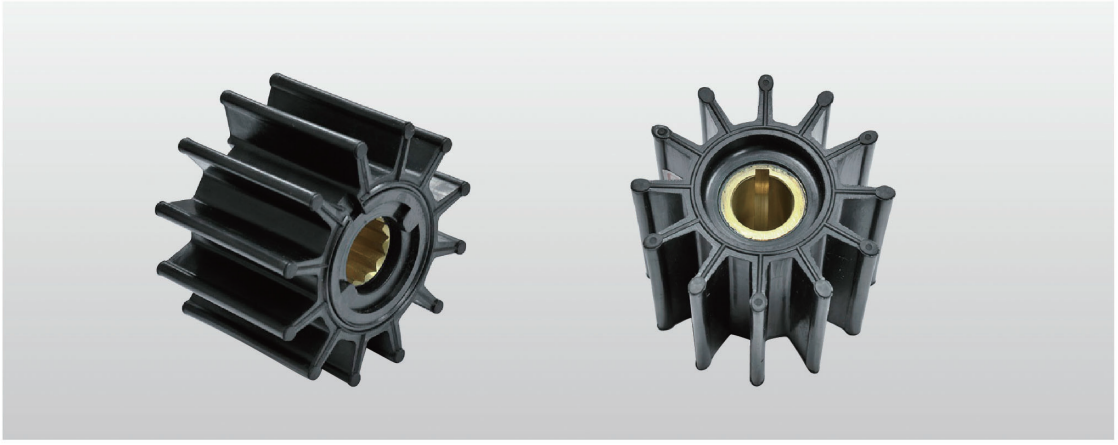
Pressure: ≤1.2MPa
Speed: ≤10 m/s
Temperature: -30˚C ～+200˚C

- 动环(热压石墨/车制石墨/碳化硅/碳化钨)
- 静环(陶瓷/碳化硅/碳化钨)
- 辅助密封(丁腈胶/三元乙丙胶/ 氟胶)
- 弹簧及传动套(不锈钢)

- Rotary Ring(Plastic Carbon/Carbon/SiC/TC)
- Stationary Ring(Ceramic/SiC/TC)
- Secondary Ring(NBR/EPDM/VITON)
- Spring and Retainer(SUS304/SUS316)

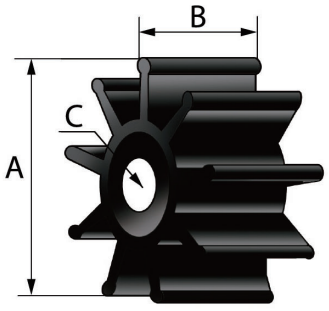
Model	d_1 (mm)	d_7	l_1	l_3
TS208-10	10	21	30	5.0
TS208-12	12	23	30	5.0
TS208-14	14	26/28	38	6.0
TS208-16	16	28/30	38	5.0
TS208-18	18	33/35	38	5.0
TS208-20	20	35/36	40	5.5
TS208-25	25	40/41	48	8.0
TS208-30	30	45	51	8.0
TS208-35	35	50	51	8.0
TS208-40	40	58	58	9.0
TS208-45	45	63	58	9.0

泵用叶轮 Impellers for pump



IMPELLER

Units:Milimeters(mm)



A: Impeller Diameter B: Impeller Width C: Shaft Diameter

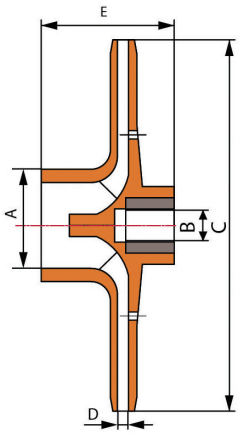
INSERT TYPE

1	轴销槽型 SLOTTED SHAFT PIN DRIVE	
2	密钥槽型 KEY DRIVE	
3	单板槽型 SINGLE FLAT DRIVE	
4	双板槽型 DOUBLE FLAT DRIVE	
5	六键槽型 HEXA SPLINE DRIVE	
6	键槽型 SPLINE DRIVE	

序号 Item	产品代号 Product Code	A	B	C	叶片数 Numbers of Blades	芯件类型 Insert Type	应用 Application
1	RI061095	39.7	19.2	9.5	6	1	Jabsco 4528-0001,Sherwood 9979,Onan 132-0859
2	RI061120-1	39.7	19.2	12.0	6	1	Jabsco 22405-0001,09-808B
3	RI061120-2	50.8	22.0	12.0	6	1	Jabsco 653-0001,09-810B
4	RI061127	50.8	22.0	12.7	6	1	Jabsco 673-0001,09-1026B
5	RI062220	59.5	33.5	22.0	6	2	\
6	RI063080	51.0	22.0	8.0	6	3	Jabsco 6303-0001
7	RI082158	65.0	50.0	15.8	8	2	\
8	RI082200	79.0	54.0	20.0	8	2	\
9	RI084200	79.0	54.0	20.0	8	4	\
10	RI086160-1	65.0	37.0	16.0	8	6	Jabsco 11979-0001,Sherwood 60.06804-0005
11	RI086160-2	65.0	50.0	16.0	8	6	Jabsco 17937-0001,Sherwood 18200, M300T,Volvo L034TI(65.06804-0003),Perkins
12	RI086200	79.0	54.0	20.0	8	6	SP100
13	RI094250	95.0	63.0	25.0	9	4	Jabsco 7420-0101,NTA 855,60.06804-0010
14	RI096250-1	93.0	95.1	25.0	9	6	Yanmar,6ES,6BN,SP-300
15	RI096250-2	95.0	63.0	25.0	9	6	\
16	RI096250-3	95.0	88.5	25.0	9	6	Jabsco 6760-0001
17	RI106248	114.2	109.5	24.8	10	6	\
18	RI106250	114.0	110.0	25.0	10	6	Sherwood 22000,Caterpillar 3412 (153-9123)(3N8449)
19	RI122158	65.0	41.5	15.8	12	2	\
20	RI122200	82.4	73.4	20.0	12	2	Jabsco 18958-0001,Sherwood 17000,Cummins 6CTA8.3M
21	RI122202	84.6	74.0	20.2	12	2	\
22	RI126156	57.5	44.0	15.6	12	6	\
23	RI126160	57.0	31.5	16.0	12	6	Jabsco 1210-0001,Perkins, Onan 132-0162,Mini-50 Sole351.11.008
24	RI126230	94.3	64.0	23.0	12	6	\
25	RI126248	94.5	101.5	24.8	12	6	\
26	RI126250	95.0	63.0	25.0	12	6	Jabsco 17935-0001,Caterpillar 5N9360,3306,KT,903
27	RI126360	128.0	101.5	36.0	12	6	Jabsco 31500-0001,Mitsubishi S6R2,Yanmar

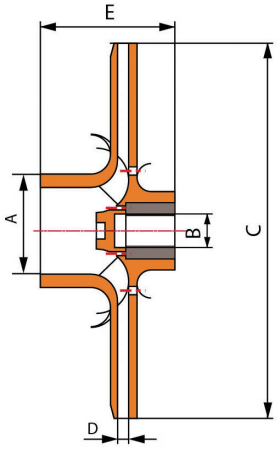
泵用叶轮 Impellers for pump





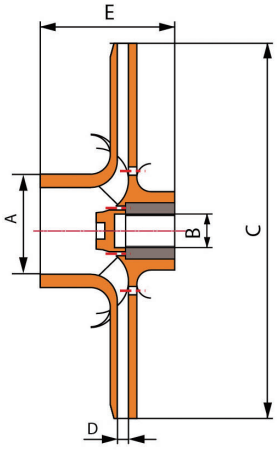
产品代号 Product Code	A	B	C	D	E	材质 Material
PI001P-1	37.2	11.5	116.0	3.7	48.5	PPO+Brass
PI001P-2	37.2	11.5	132.5	4.3	49.2	PPO+Brass
PI001P-3	44.9	11.5	142.0	5.0	61.8	PPO+Brass





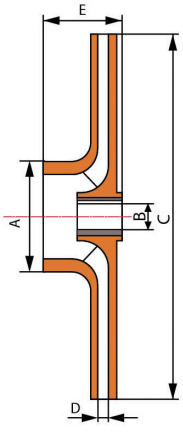
产品代号 Product Code	A	B	C	D	E	材质 Material
PI002P-1	40.5	11.5	121.0	4.5	48.5	PPO+Brass
PI002P-2	40.5	11.5	126.5	4.0	48.5	PPO+Brass
PI002P-3	40.5	11.5	134.5	4.0	48.5	PPO+Brass
PI002P-4	40.5	11.5	135.5	6.0	50.5	PPO+Brass
PI002P-5	50.0	11.5	149.5	5.0	64.0	PPO+Brass
PI002P-6	50.0	11.5	154.0	5.0	64.0	PPO+Brass





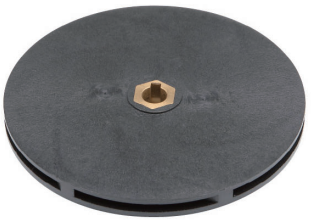
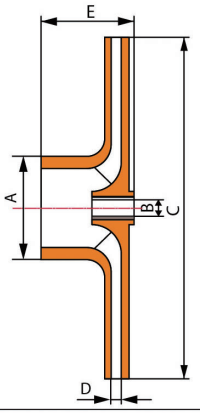
产品代号 Product Code	A	B	C	D	E	材质 Material
PI002C-1	40.5	11.5	121.0	4.5	48.5	PC+Brass
PI002C-2	40.5	11.5	126.5	4.0	48.5	PC+Brass
PI002C-3	40.5	11.5	134.5	4.0	48.5	PC+Brass
PI002C-4	40.5	11.5	135.5	6.0	50.5	PC+Brass
PI002C-5	50.0	11.5	149.5	5.0	64.0	PC+Brass
PI002C-6	50.0	11.5	154.0	5.0	64.0	PC+Brass



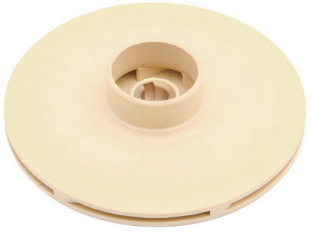


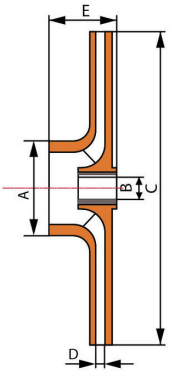
产品代号 Product Code	A	B	C	D	E	材质 Material
PI003P	46.0	12.0	130.0	3.0	34.0	PPO+Brass

泵用叶轮 Impellers for pump

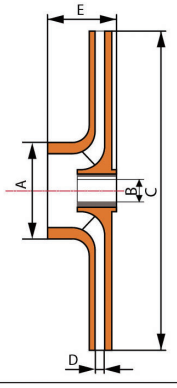
产品代号 Product Code	A	B	C	D	E	材质 Material
PI004P	32.0	10.0	120.0	4.0	20.5	PPO+Brass





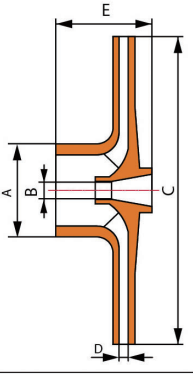
产品代号 Product Code	A	B	C	D	E	材质 Material
PI005P	37.0	12.0	115.0	3.1	28.0	PPO+Brass





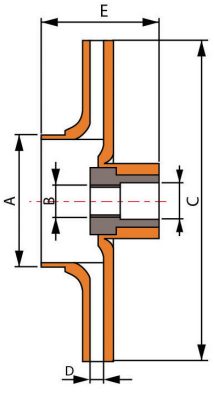
产品代号 Product Code	A	B	C	D	E	材质 Material
PI006P-1	40.5	14.0	126.0	4.0	29.5	PPO+Brass
PI006P-2	40.5	14.0	126.0	5.0	29.5	PPO+Brass





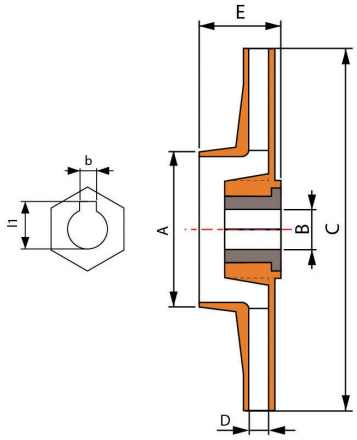
产品代号 Product Code	A	B	C	D	E	材质 Material
PI007P	37.4	M8	114.0	2.5	29.5	PPO+Brass



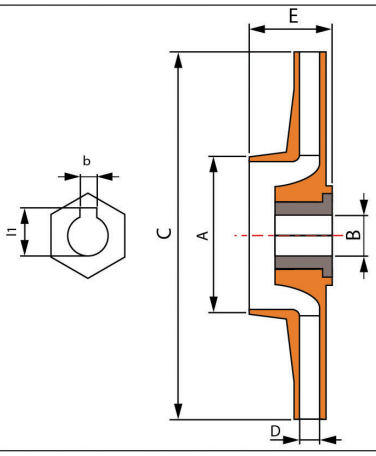


产品代号 Product Code	A	B	C	D	E	材质 Material
PI008C	46.0	M10	130.0	3.8	31.7	PC+Brass

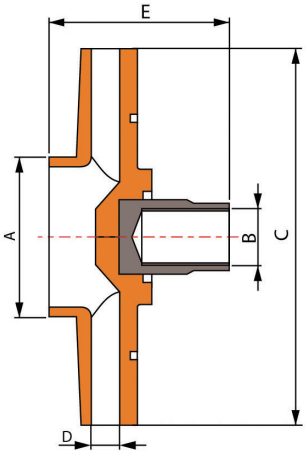
泵用叶轮 Impellers for pump



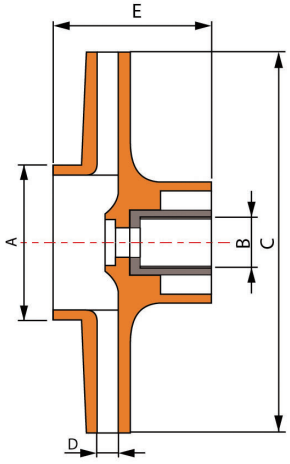
产品代号 Product Code	A	B	C	D	E	材质 Material
PI009P	39.0	8.5	130.0	6.0	35.5	PPO+Brass



产品代号 Product Code	A	B	C	D	E	材质 Material
PI010P	39.0	9.0	130.0	7.5	33.6	PPO+Brass



产品代号 Product Code	A	B	C	D	E	材质 Material
PI011P-1	53.0	7/16-20 UNF	112.0	5.8	61.0	PPO+Brass
PI011P-2	53.0	7/16-20 UNF	116.0	6.6	61.0	PPO+Brass



产品代号 Product Code	A	B	C	D	E	材质 Material
PI012-1	55.2	1/2-20 UNF	124.0	8.5	57.3	PPO+Brass
PI012-2	55.2	1/2-20 UNF	124.0	7.2	57.3	PPO+Brass
PI012-3	55.2	1/2-20 UNF	124.0	6.0	57.3	PPO+Brass

PC物理性能数据
PC Physical Property Index

①原料描述部分 Raw Material Description				
规格级别 Specification: 热塑性塑料 Thermoplastic Plastic 添加树脂 Add-on Resin			外观颜色 Appearance Color: 黑色 Black,本色 Nature	
②原料技术数据 Raw Material Technical Data				
材料Material	PC G-10			
性能项目 Properties	试验条件(状态) Test Condition	测试方法 Test Method	测试数据 Test Data	数据单位 Unit
物理性能 Physical Property	透光率 厚度 3mm Lumimousness Thick 3mm	ASTM D-1003	white	%
阻燃性 Fire Resistance	0.44mm	UL 94	V-2	-
比重 Specfic Gravity	-	JIS K-7112	1.28	-
机械性能 Mechanical Property	弯曲模量 Flexural Modulus	ASTM D-790	2450(25000)	Mpa(kgf/cm^2)
拉伸率 Tension Rate	断裂点 Breaking Point	ASTM D-638	110	%
拉伸强度 Tensile-strength	屈服点 Breakdown Point	ASTM D-638	63(640)	Mpa(kgf/cm^2)
断裂点 Breaking Point	-	ASTM D-638	65(660)	Mpa(kgf/cm^2)
弯曲强度 Flexural Strength	-	ASTM D-790	95(950)	Mpa(kgf/cm^2)
耐冲击强度值 Shockproof Strength Value	艾氏/带缺口 厚度 3.2mm Ehrlich/Cutaway Thickness 3.2mm	ASTM D-256	780(80)	J/m(kgf·cm/cm)
成型收缩率 Molding Shrinkage Ratio	流动方向 Flow Direction	ASTM D-955	0.4~0.6	%
垂直方向 Vertical Direction	-	ASTM D-955	0.4~0.6	%
耐冲击强度值 Shockproof Strength Value	艾氏/带缺口厚度 6.4mm Ehrlich/Cutaway Thickness 6.4mm	ASTM D-256	110(11)	J/m(kgf.cm/cm)
热性能 Hot Property	线膨胀系数，流动方向 Linear Expansion Factor, Flow Direction	ASTM D-696	7	10-5cm/cm/°C
垂直方向 Vertical Direction	-	ASTM D-696	7	10-5cm/cm/°C
温度指数 Temperature Exponent	电学式，厚度 1.47mm Electrical Type, Thickness 1.47mm	UL 746B	125	°C
冲击式 Impact Type	厚度 Thickness 1.47mm	UL 746B	115	°C
非冲击式 Non-impact Type	厚度 Thickness 1.47mm	UL 746B	125	°C
负荷挠曲温度 Load Deflection Temperature	负荷 Load 1.813MPa(18.6kgf/cm^2)	JIS K-7207	135	°C

PPO物理性能数据
PPO Physical Property Index

①原料描述部分 Raw Material Description					
规格级别 Specification： 玻纤增强级 Grivory HTV Grade			外观颜色 Appearance Color: 黑色 Black,本色 Nature		
特性 Character：高强度33%玻纤 33% High strength glass fiber					
②原料技术数据 Raw Material Technical Data					
性能项目		Properties	测试方法 Test Method	测试数据 Test Data	数据单位 Unit
物理性能 Physical Property	比重, 固体	Specific gravity	ASTM D-792	1.28	-
	吸水率, 24小时 @ 73F	Water absorption, 24hrs @ 73F	ASTM D-570	0.060	%
	模塑收缩量, flow, 0.125"	Mould shrinkage mass, flow, 0.125"	ASTM D-955	1-4	in/in E-3
机械性能 Mechanical Property	CTE（热膨胀系数）, flow, -40F ～ 200F	CTE, flow, -40F ～ 200F	ASTM E-831	1 E-5	in/in-F
	抗拉强度, 屈服, 类型 I, 0.125"	Tensile strength, yield, type I, 0.125"	ASTM D-638	15000	psi
	拉伸伸长, 断裂, 类型 I 0.125"	Elongation, breakage, type I 0.125"	ASTM D-638	5.0	%
	挠曲强度, 屈服, 0.250"	Flexing strength, yield, 0.250"	ASTM D-790	23500	psi
	挠曲模量, 0.250"	Flexing modulus, yield, 0.250"	ASTM D 790	1040000	psi
	硬度, 洛氏 L	Hardness, Rockwell L	ASTM D-785	108	-
	伊佐德冲击值, 缺口, 73F	Impact value, notch, 73F	ASTM D-256	2.2	ft-lb/in
	伊佐德冲击值, 缺口, -40F	Impact value, notch, -40F	ASTM D-256	1.8	ft-lb/in
电气性能 Electric Property	介电强度, 油内, 125 mils	Dielectric strength, in oil, 125 mils	ASTM D-149	550	V/mil
	介电常数, 60 Hz	Dielectric constant, 60 Hz	ASTM D-150	2.93	-
	损耗因数, 60 Hz	Dissipation factor, 60 Hz	ASTM D-150	0.0009	-
热性能 Thermal Property	UL文件号, 美国	UL file No., USA	-	E121562	-
	额定HB值 (测试厚度)	Rated HB value (test thickness)	CSA LISTED	LS8840	文档号 File No.
	HDT（热畸变温度）, 66 psi, 0.250",未退火	HDT, 66 psi, 0.250",unannealed	ASTM D-648	317	F°
	HDT（热畸变温度）, 264 psi, 0.250",未退火	HDT, 264 psi, 0.250",unannealed	ASTM D-648	280	F°
	热指数, 电性能	Thermal index, electricity	UL 746B	90	°C
	热指数, 机械冲击性能	Thermal index, mechanical impact performance	UL 746B	90	°C
	热指数, 非机械冲击性能	Thermal index, unmechanical impact performance	UL 746B	90	°C
其它性能 Other Property	氧指数 (LOI)	LOI	ASTM D-2863	26.0	%

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