



TS SEALS

TS SEALS

Designers and Manufactures of Mechanical Seals



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宁波天顺密封实业有限公司

NINGBO TISUN SEALS INDUSTRIES CO.,LTD

www.tisun-seals.com



宁波天顺密封件有限公司是一家专业从事机械密封件产品研发、制造、销售于一体的企业。本公司拥有国内一流的工艺、专业的技术人员、先进的生产设备和检测手段。我公司生产的机械密封件产品主要有：橡胶密封圈机械密封、四氟楔形圈机械密封、橡胶波纹管机械密封、金属波纹管机械密封、集装式密封以及O.E.M机械密封。产品可替代博格曼、克兰、AES、Chesterton、Flowserve、Roten的同类产品。我公司产品种类齐全，被广泛应用于污水处理、石油、化工、电力、造纸、食品等行业。

天顺密封件产品性能好，经久耐用，深受广大用户好评。我们将永远把优质的产品、诚信的服务奉献给广大用户，热忱欢迎新老客户的惠顾。

Ningbo Tisun Seals Industries Co., Ltd is located NingBo City, ZheJiang Province, Which is the Largest Chinese pressional Designer &Manufacturer Various Styles Of Mechanical Pump Seals.We Supply Various types Of elastomer bellows or diaphragm Single spring Seals And Wave Spring Seals, PTFE Bellow Seals And Cartridge Seals, Which are Interchangeable to Equivalent Burgmann, AES, John Crane, Chesterton. Flowserve, Roten, Latty, And Fristam Seals. We also Can provide all Kinds of replacement Seal Of Flygt Pump Seal, ITT Ans Xylem Seals.

Tisun Seals Also Can Supply Seal Face Materials Inculding Alumina Ceramics, Carbon Graphites, Silicon Carbides, SSIC,SIC With 5-30% Graphite Content, Tungsten Carbides And Various Filled PTFE.

Our Products Sell all Over the world and get good feedback from Our Customers, Please action now. We will give you competitive Price, Great after-sale service and quick response.



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TS SEAL

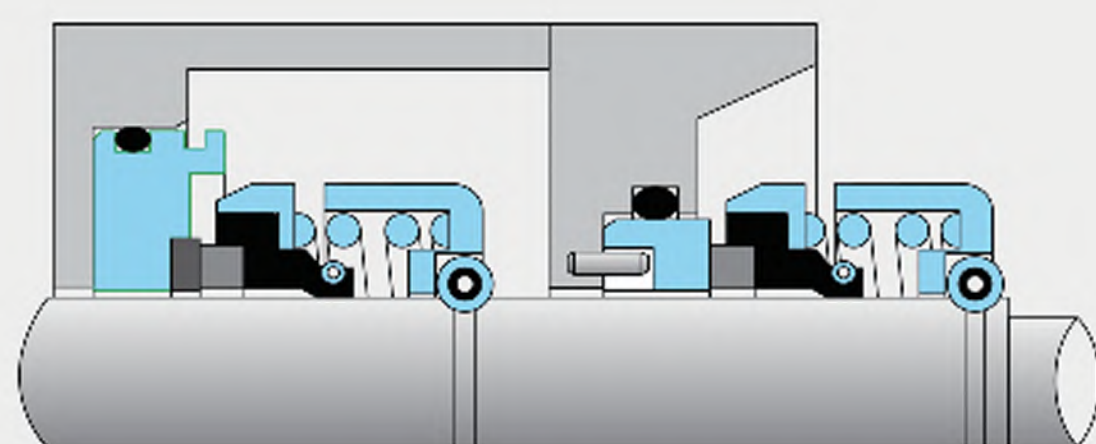
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SEALS FLYGT PUMP SEAL COMPARISON CHART

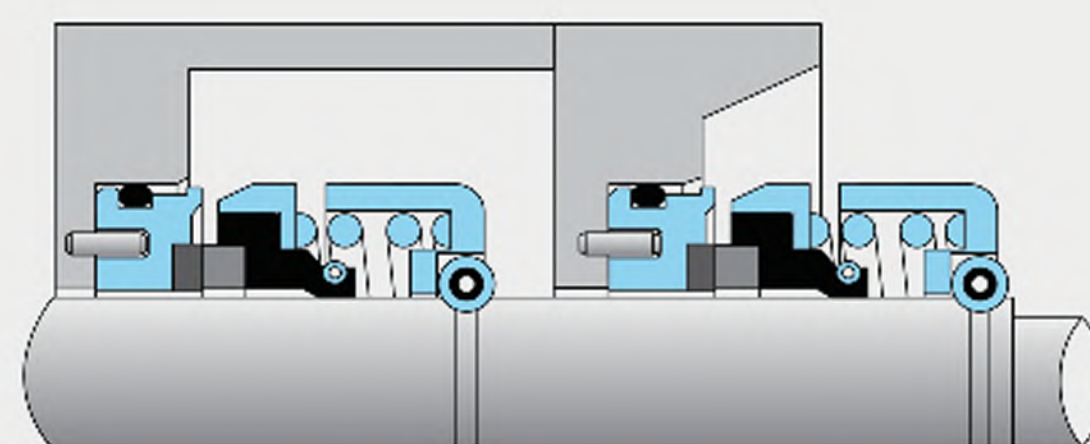
Flygt Pump Model	Shaft Size	TS S Upper Seal	TS S Lower Seal
3085-091, 3085-120, 3085-170, 3085-171, 3085-181, 3085-280, 3082-290, 3085-890	20mm	FS-G-U20	FS-G-L20 or FS-H-L20
3101	28mm	FS-B-U28	FS-B-L28
3102	25mm	FS-J-U25	FS-J-L25
3126-90, 3126-180	35mm	FS-K-U35	FS-K-L35
3126-91, 3126-280, 3126-290	35mm	FS-K-U35	FS-M-L35
3126-181, 3127	35mm	FS-M-U35	FS-M-L35
3140, 3152	45mm	FS-O-U45	FS-O-L45
3170, 3201	60mm	FS-Q-U60	FS-Q-L60
3200	60mm	FS-P-U60	FS-P-L60
3230, 3300-91, 3300-181, 3300-280, 3300-980, 3305	90mm	FS-S-U90	FS-S-L90
3310, 3311, 3312, 3350, 3351	90mm~120mm	FS-S-U90	FS-T-L120
3355, 3356, 3357	90mm	FS-S-U90	FS-S-L90
3500, 3501, 3530, 3531, 3600, 3601, 3602	90mm~120mm	FS-S-U90	FS-T-L120
4351, 4352, 4400	20mm	FS-G-U20	FS-H-L20
4410, 4430	60mm	/	FS-Q-L60
4440, 5530	35mm	FS-M-U35	FS-M-L35
4650, 4660	45mm	FS-O-U45	FS-O-L45
4670, 4680, 7045	60mm	FS-Q-U60	FS-Q-L60
7050, 7051, 7055, 7060, 7061, 7076, 7556	90mm	FS-S-U90	FS-S-L90
7080, 7115	90mm~80mm/90mm~120mm	FS-S-U90	FS-S-L80 / FS-T-L120
7570, 7585	90mm~120mm	FS-S-U90	FS-T-L120
Grindex Maior, Master, Matador, Midi, Minette, Salvador	25mm~24mm	FS-Z-U25	FS-Z-L24
Grindex Maxi	45mm	FS-O-U45	FS-N-L45
Ready models 4 8 12 & 16	15mm	FS-D-U15	/
Ready 24	20mm	FS-A-U20	FS-A-L20
Ready 90	28mm	FS-I-U28	FS-I-L28
Stealy 7	20mm	FS-G-U20	FS-G-L20
600	60mm	FS-Q-U60	FS-Q-L60
605, 615, 665, 670, 680	90-80mm	FS-S-U90	FS-S-L80
705, 715, 720, 721, 735, 745, 760, 765, 770, 775	90mm~80mm/90mm~120mm	FS-S-U90	FS-S-L80/FS-T-L120
820, 840, 841, 860, 880, 881, 900	90mm~80mm/90mm~120mm	FS-S-U90	FS-S-L80/FS-T-L120
2004, 2008, 2012, 2016	15mm	FS-D-U15	/
2024	20mm	FS-A-U20	FS-A-L20
2050, 2052	15mm	FS-D-U15	/
2060	20mm	FS-G-U20	FS-G-L20
2066	20mm	FS-A-U20	FS-A-L20
2070	22mm	FS-E-U22	FS-E-L22
2071	22mm	FS-E-U22	FS-E-L22
2075	20mm	FS-A-U20	FS-A-L20
2082, 2090, 2125, 2140	28mm	FS-I-U28	FS-I-L28
2084, 2135	35mm	FS-K-U35	FS-K-L35
2101	20mm	FS-A-U20	FS-A-L20
2102-40	22mm	FS-E-U22	FS-E-L22
2151-10	35mm	FS-K-U35	FS-K-L35
2151-11, 2151-50	35mm	FS-K-U35	FS-L-L35
2201-10, 2201-320, 2201-430, 2201-480	45mm~35mm	FS-O-U45	FS-K-L35
2201-590, 2201-690	45mm	FS-O-U45	FS-O-L45
2201-11HT or MT	45mm	FS-N-U45	FS-N-L45
2201-11LT	45mm	FS-O-U45	FS-N-L45
2250, 2290	60mm	FS-P-U60	FS-P-L60
2400	60mm	FS-R-U60	FS-R-L60
3041-281	20mm	FS-G-U20	FS-G-L20
3057	20mm	FS-G-U20	FS-H-L20
3057-180, 3060	20mm	FS-G-U20	FS-G-L20
3065	20mm	FS-A-U20	FS-A-L20
3067-170, 3067-250, 3068	20mm	FS-G-U20	FS-G-L20
3080	20mm	FS-A-U20	FS-A-L20
3082	22mm	FS-E-U22	FS-E-L22

FS-A-U20& FS-A-L20



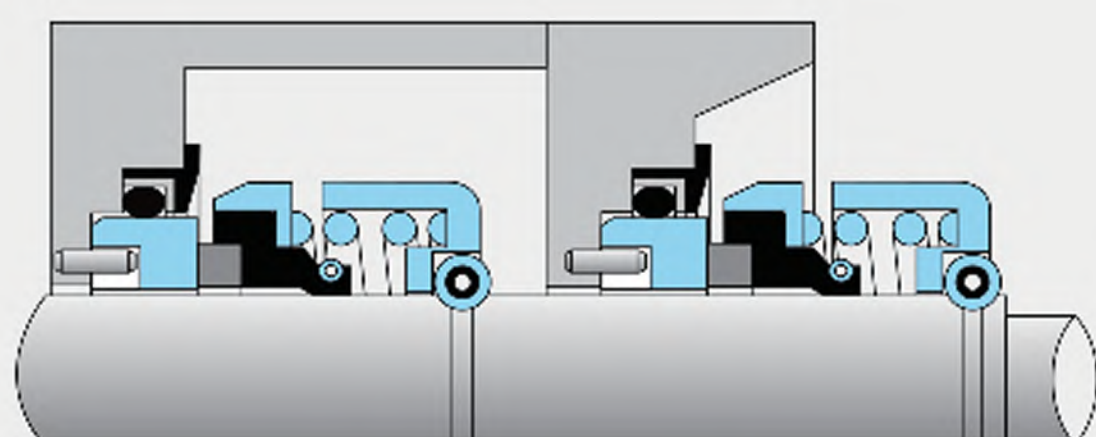
(2024/2066/2075/2101/3065/3080/Ready 24)

FS-B-U28& FS-B-L28



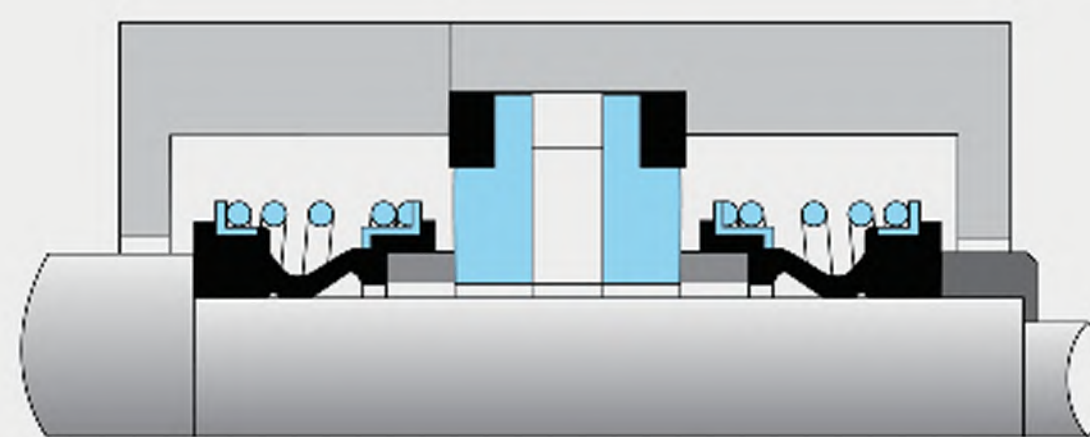
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FS-C-U22& FS-C-L22



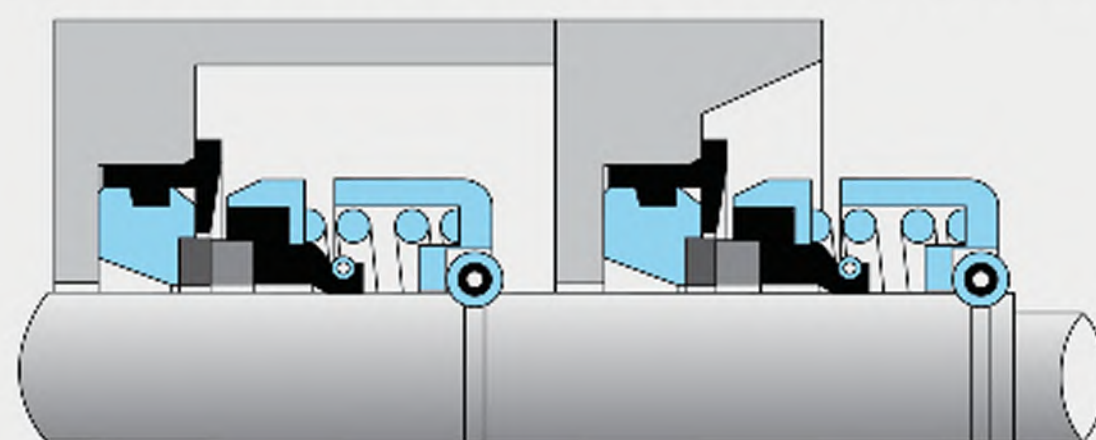
(2040/2102-210/2102-041/2102-220/Ready 40/Ready 56)

FS-D15-Double Seal



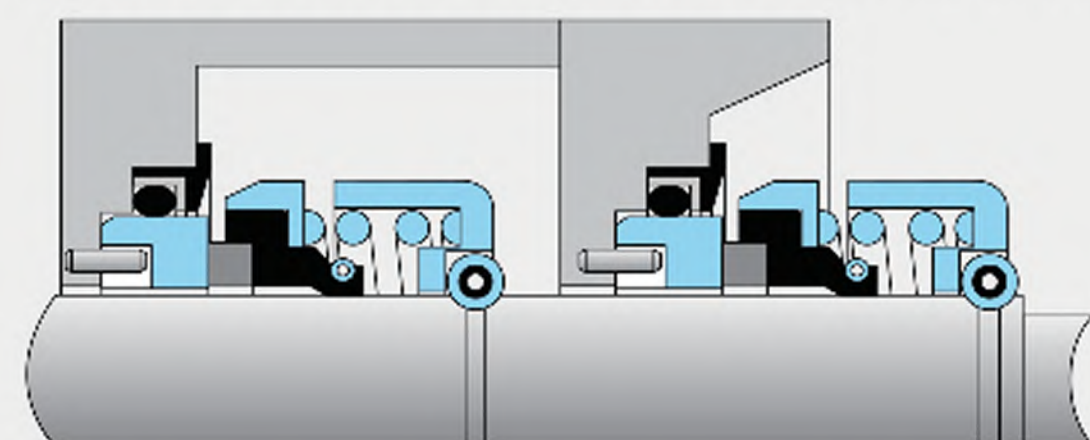
(2004/2008/2012/2016/2050/2052/Ready 8/Ready 12/Ready 16)

FS-E-U22&FS-E-L22



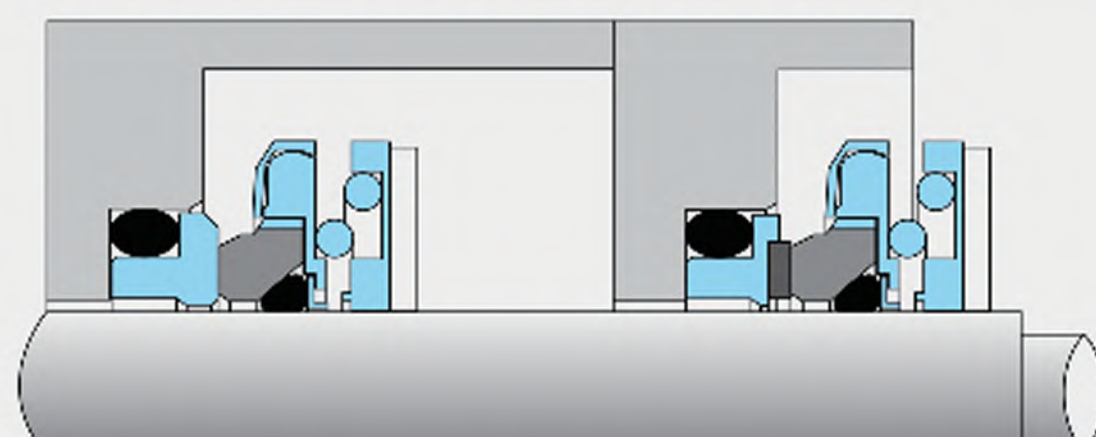
(2070/2102-040/3082)

FS-F-U-22&FS-F-L22



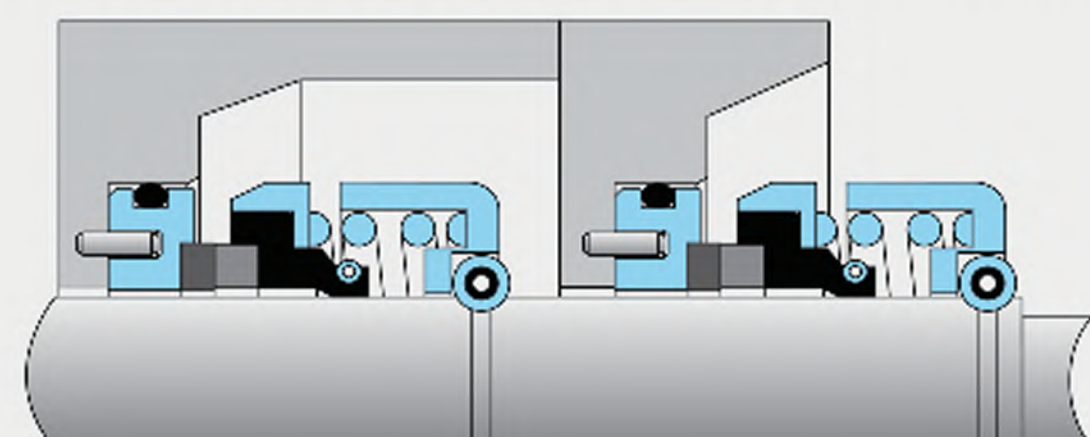
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FS-G-U20&FS-G-L20



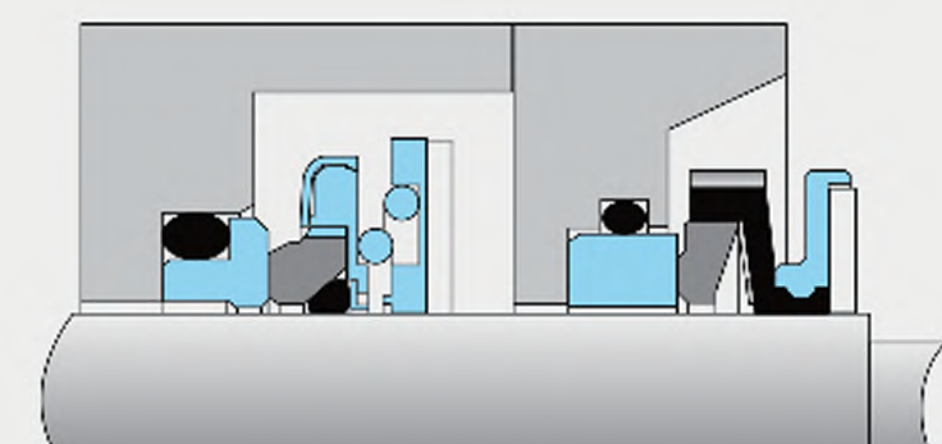
(2060/3041-171/3041-180/3041-281/3057/3060/3066/3067-890/3067-690/3067-590/3067-250/3067-170/3067-090/3067-180/3068/3085-091/3085-092/3085-120/3085-170/3085-171/3085-172/3085-180/3085-181/3085-182/3085-890/3085-891/Ready 7)

FS-I-U-28&FS-I-L28



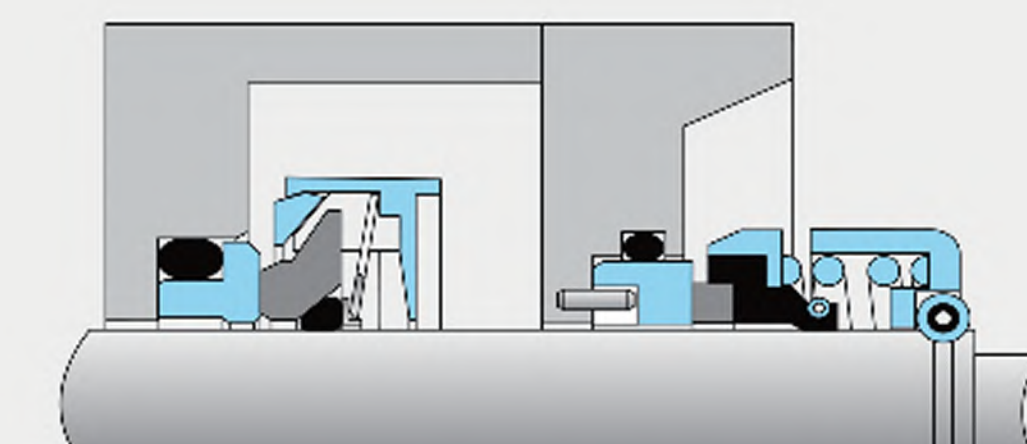
(2082/2090/2125/2140/Ready 90)

FS-G-U20 & FS-H-L20 Late Design

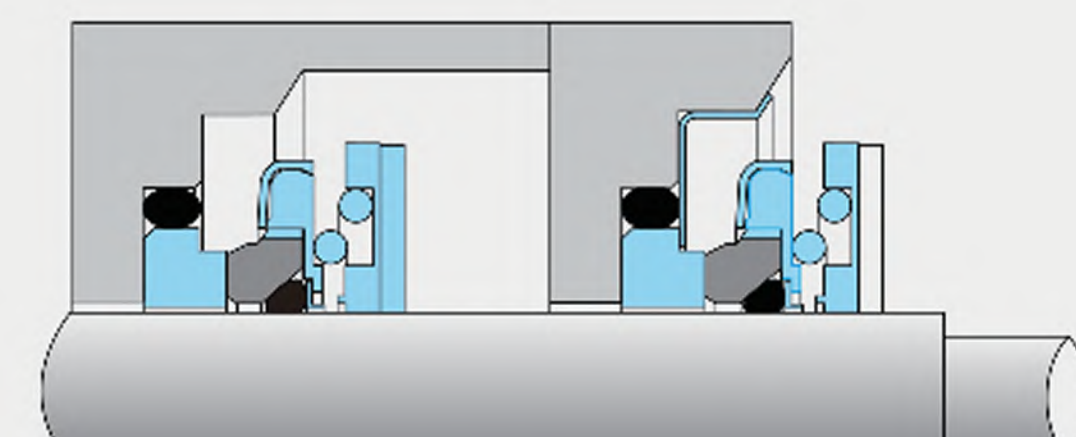


(3041-171/3041-180/3057/3066/3067-890/3067-690/3067-590/3067-090/3067-180/3085-290/3085-280/3085-092/3085-120/3085-170/3085-171/3085-172/3085-180/3085-181/3085-182/3085-891/4351/4352/4400)

FS-G-U20&FS-H-L20 Early Design

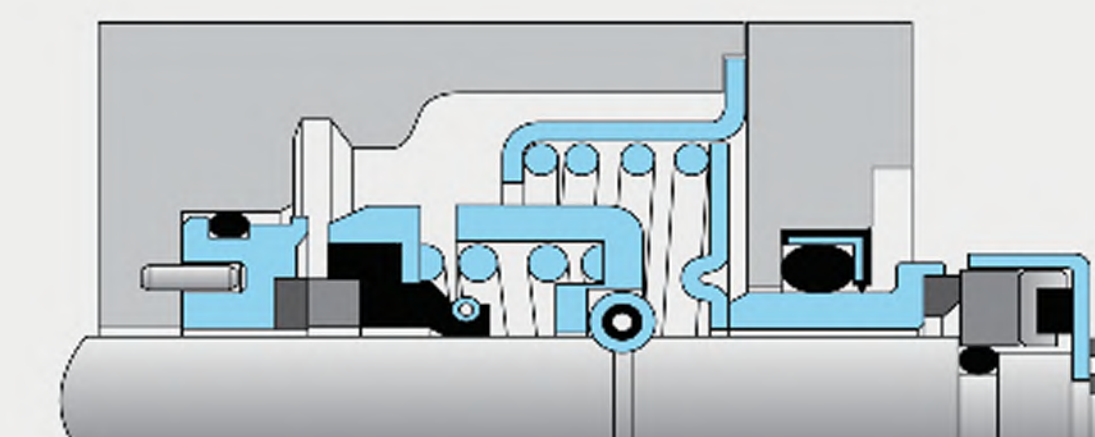


FS-J-U25&FS-J-L25



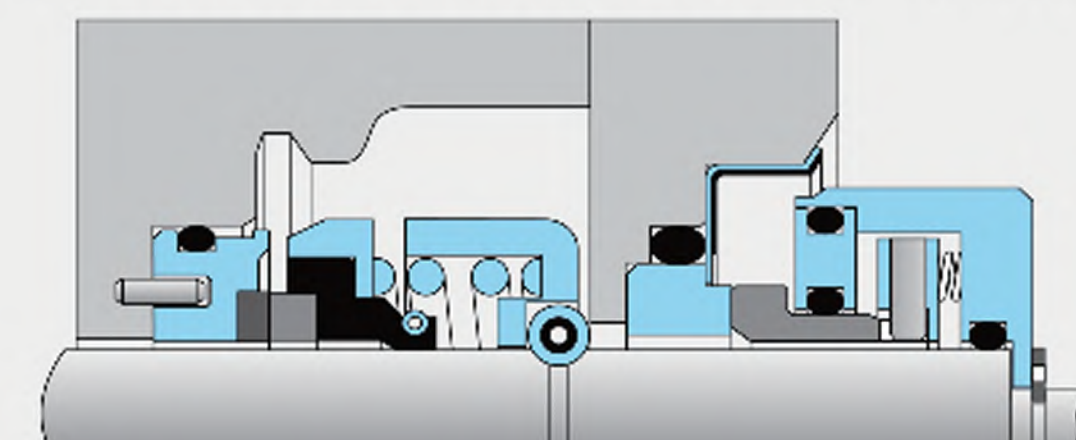
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FS-K-U35&FS-K-L35



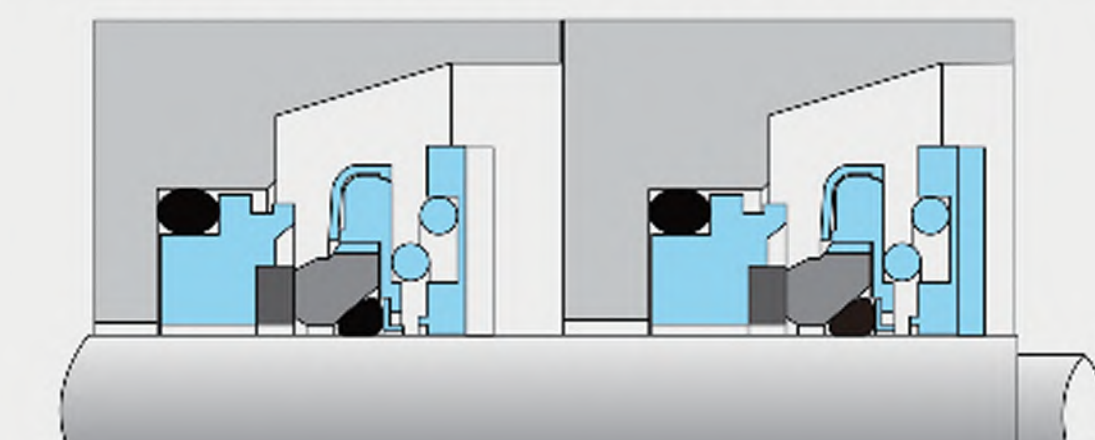
(2151-010/3126-090/3126-180)

FS-K-U35&FS-L-L35



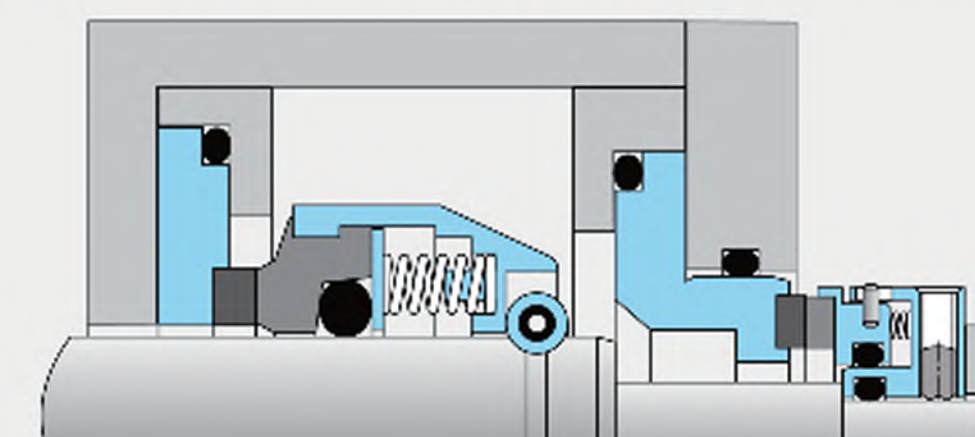
(2084/2135/2151-011/2151-050)

FS-M-U35&FS-M-L35



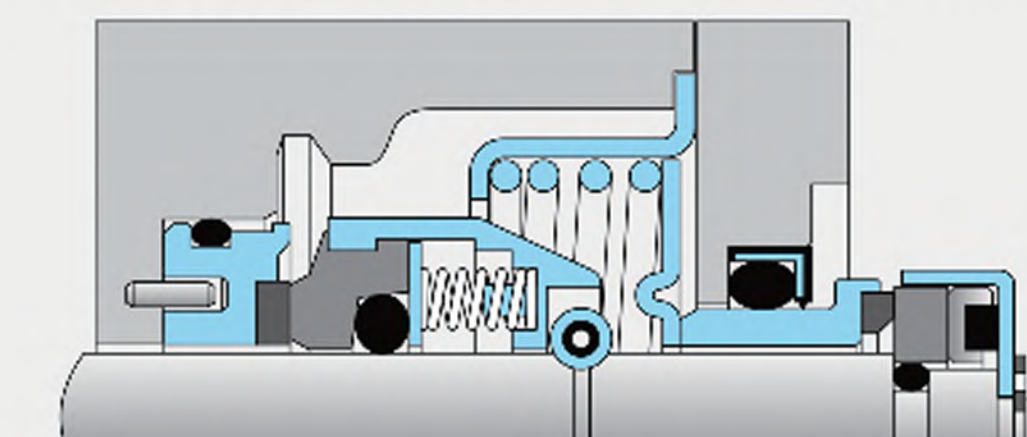
(3126-181/3127/4440/5530)

FS-N-U45&FS-N-L45



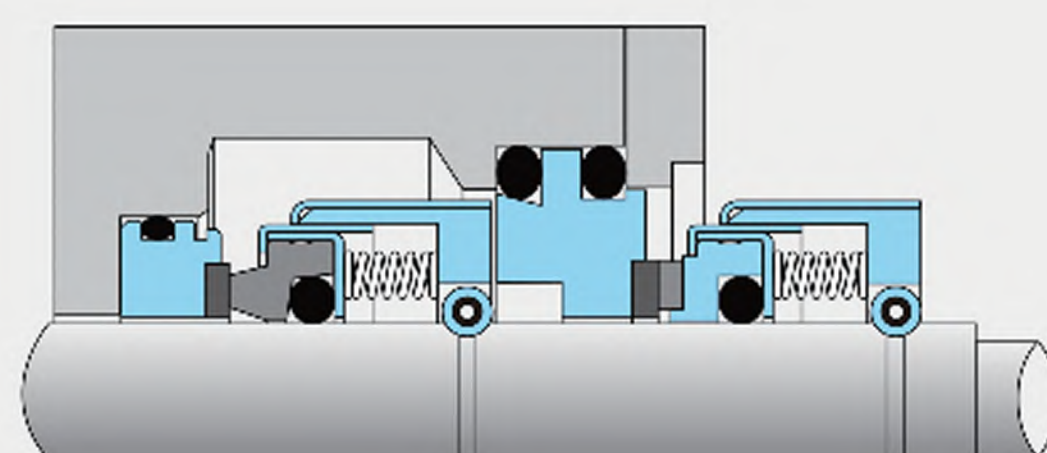
(2201-430/2201-320/2201-480/2201-590/2201-690)

FS-O-U45&FS-O-L45



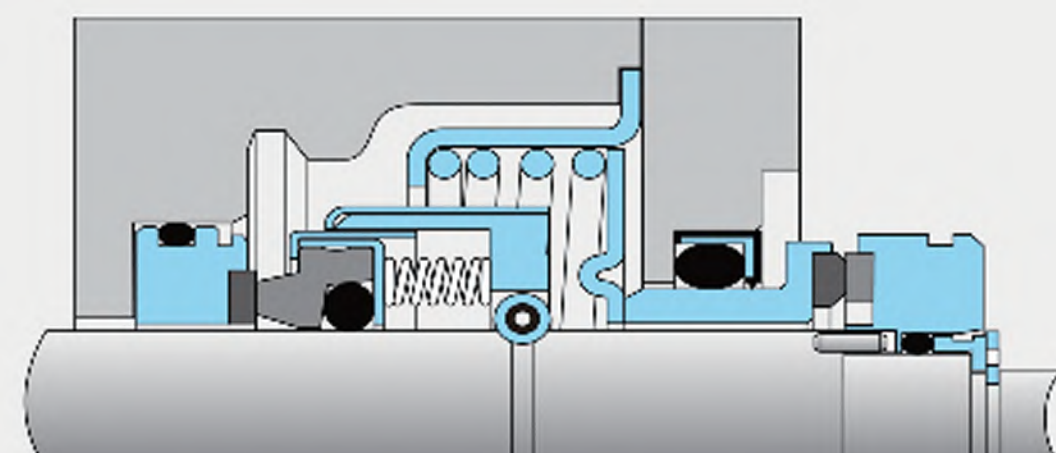
(2201-011LT/3140/3152/4650/4660)

FS-P-U60&FS-P-L60



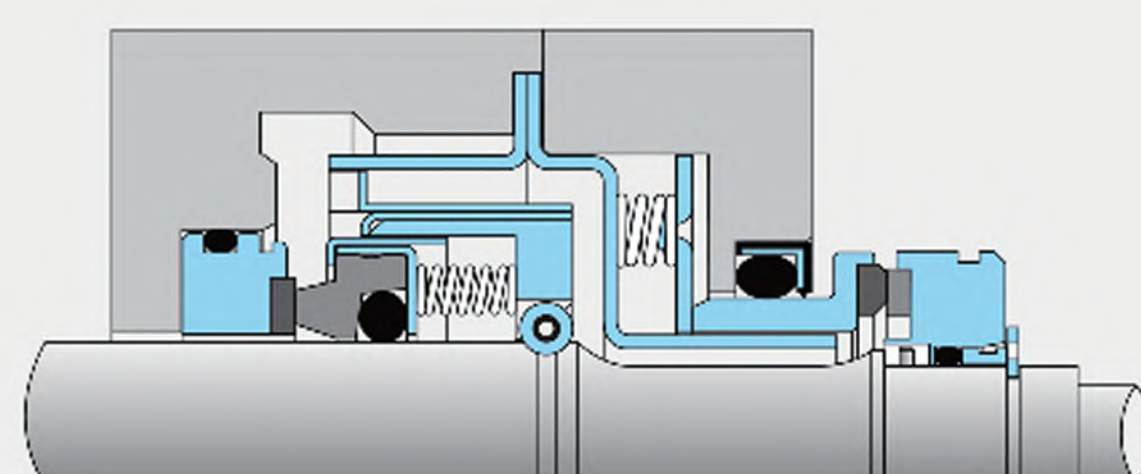
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FS-Q-U60&FS-Q-L-60



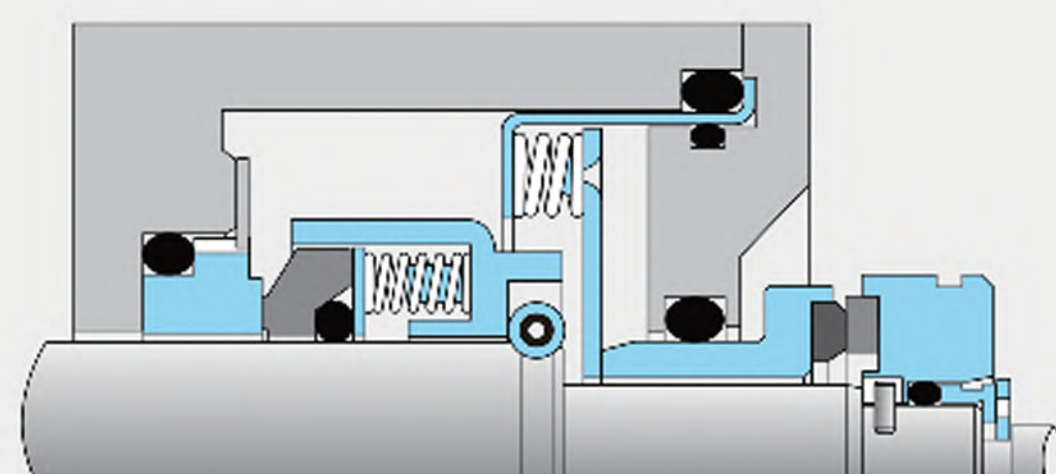
(600/3170/3201/4670/4680/7045)

FS-R-U60&FS-R-L60

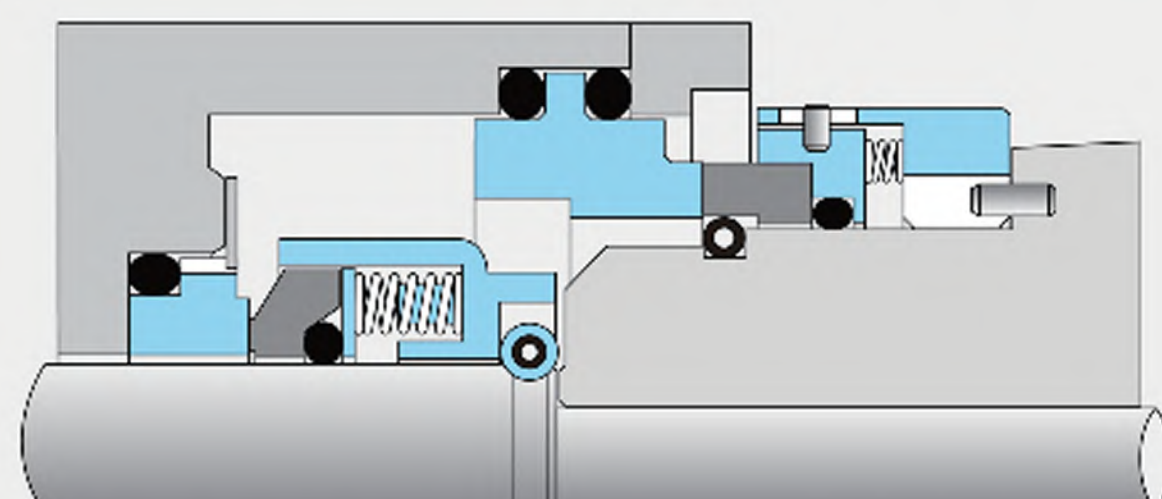


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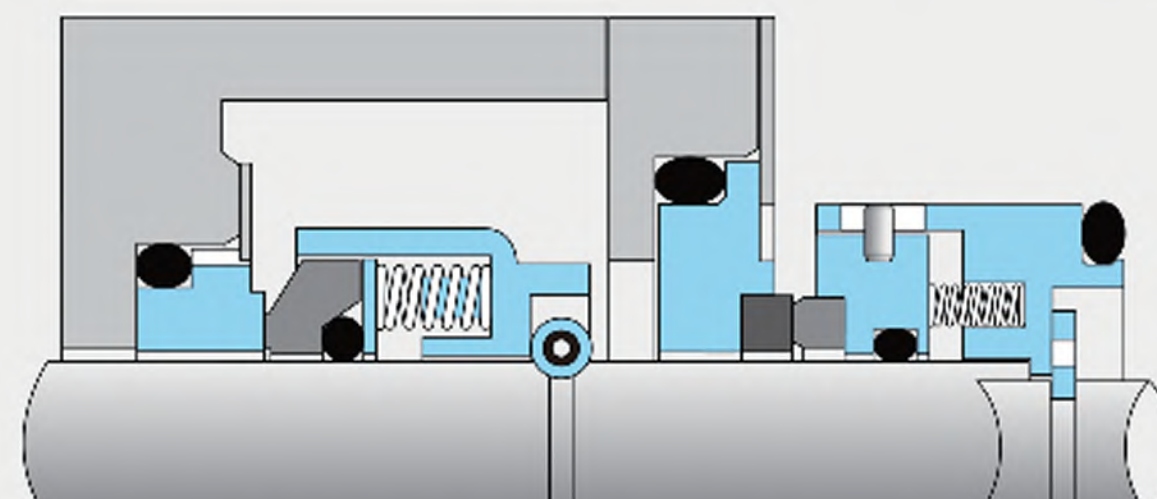
FS-S-U90&FS-S-L-80

(605/615/665/670/680/705/715/720/721/735/745/760/765/770/775/820/840/
841/860/880/881/900/3230/3300-091/3300-181/3300-280/3300-980/3305/
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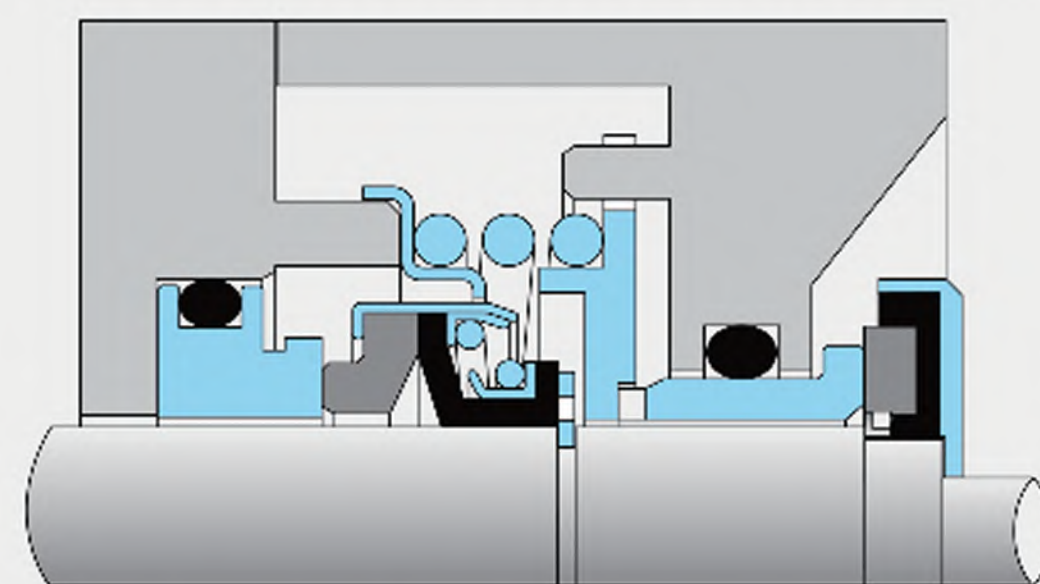
FS-S-U90&FS-T-L120

(705/715/720/721/735/745/760/765/770/775/820/840/841/860/880/881/900/3310/
3311/3312/3350/3351/3500/3501/3530/3531/3600/3601/3602/7080/7115/7570/7585)

FS-S-U90&FS-U-L90

(705/715/720/721/735/745/760/765/770/775/820/840/841/
860/880/881/900/3400/7081/7101)

FS-Z-U25&FS-Z-L24



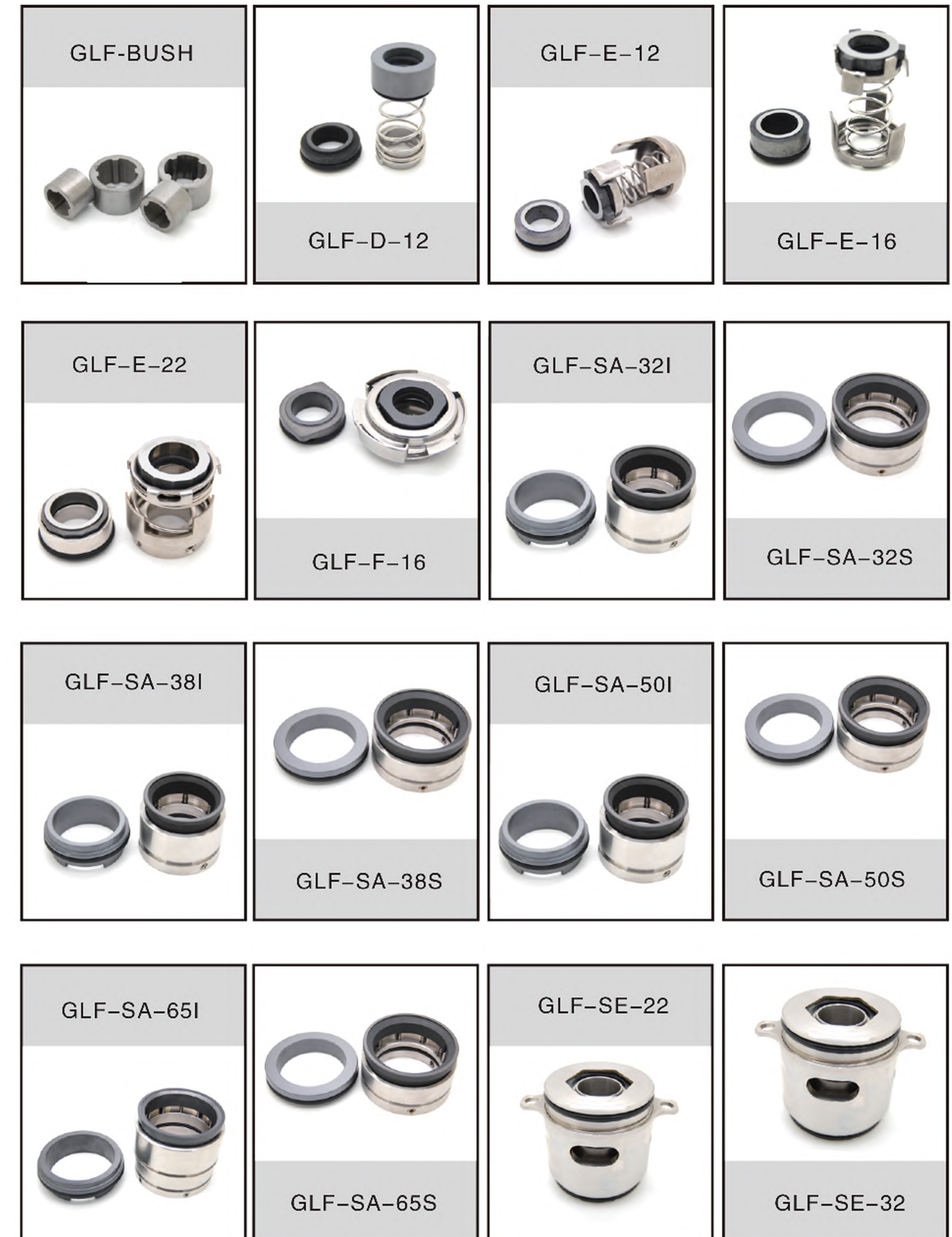
(Grindex Maior, Master, Matador, Midi, Minette, Salvador)

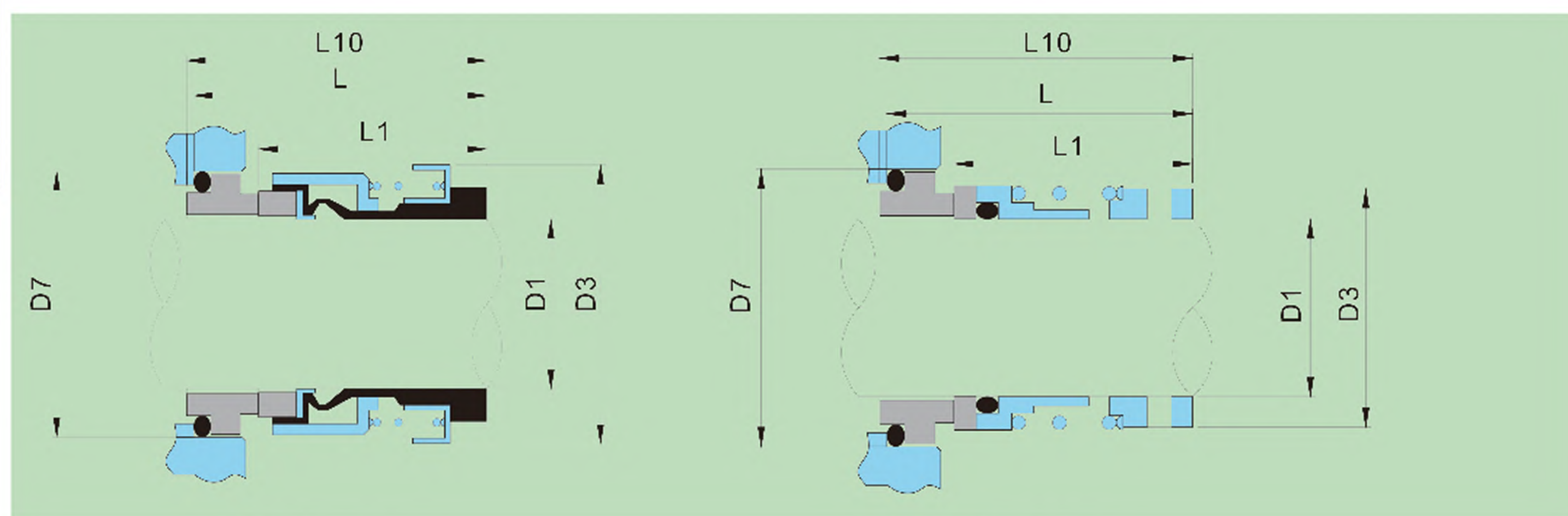


Xylem Flygt Pumps	Shaft Size	Seal Code
2610, 2620, 2630, 2640, 4610&4620	20mm	FS20
2660, 4630&4640	25mm	FS25
2670, 3153, 5100.210, 5100.211, 5100.220&5100.221	35mm	FS35
3171, 4650, 4660, 5100.250, 5100.251, 5100.260&5100.261	45mm	FS45
3202, 4670, 4680, 5100.300, 5100.310, 5150.300&5150.310	60mm	FS60
3301, 5150.350&5150.360	90mm	FS90



Xylem Flygt Pumps	Shaft Size	Seal Code
2610, 2620, 2630, 2640, 4610&4620	20mm	FSVC20
2660, 4630&4640	25mm	FSVC25
2670, 3153, 5100.210, 5100.211, 5100.220&5100.221	35mm	FSVC35
3171, 4650, 4660, 5100.250, 5100.251, 5100.260&5100.261	45mm	FSVC45
3202, 4670, 4680, 5100.300, 5100.310, 5150.300&5150.310	60mm	FSVC60
3301, 5150.350&5150.360	90mm	FSVC90





GLF-A

GLF-B

主要技术参数

温度: -30°C to 200°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 10\text{m/s}$

材料:

静环: Sic/TC/Carbon

动环: Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Temperature: -30°C to 200°C

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

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

Materials

Stationary Ring: Sic/TC/Carbon

Rotary Ring: Sic/TC

Secondary Seal: NBR / EPDM / Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L	L10
12	0120	22	23	31	39	40.5
16	0160	26	27	32.5	40.5	41.5

主要技术参数

温度: -30°C to 200°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 10\text{m/s}$

材料:

静环: Sic/TC/Carbon

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Temperature: -30°C to 200°C

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

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

Materials

Stationary Ring: Sic/TC/Carbon

Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR / EPDM / Viton

Spring and Metal Part: Stainless Steel

不锈钢立式多级离心泵用机械密封适配于格兰富:

◎ CR1,3,5,10,15,20,32,45,64,90水泵常规机封, O型圈集装式结构

◎ CRN1,3,5,10,15,20,32,45,64,90水泵常规机封, O型圈集装式结构

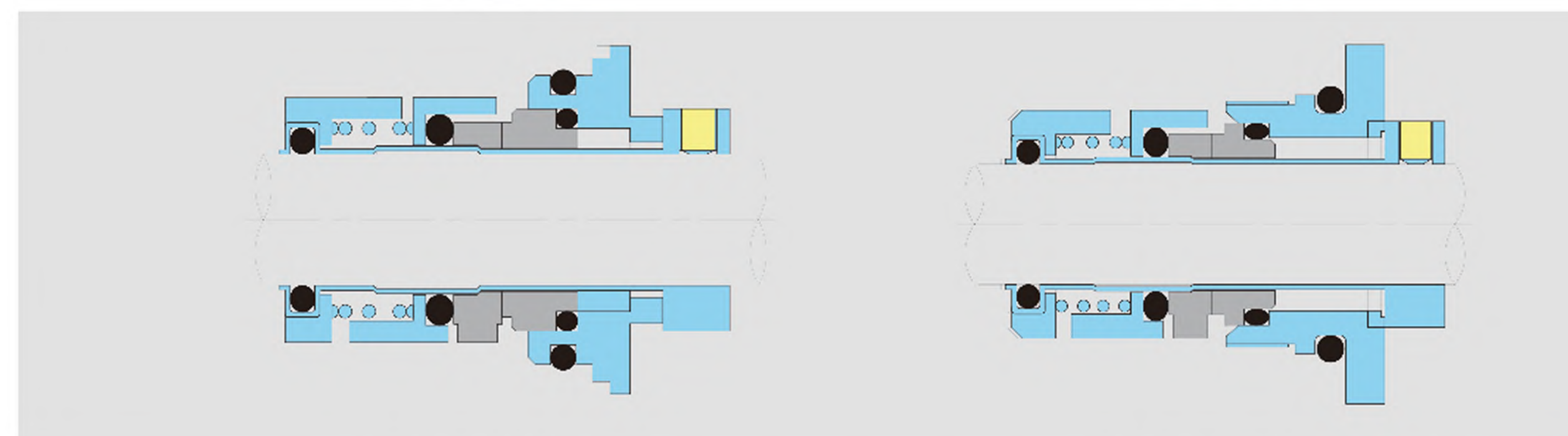
It is suitable to Grundfos Pumps:

◎ Model: CR1,3,5,10,15,20,32,45,64,90;

◎ Model: CRN1,3,5,10,15,20,32,45,64,90

GLF-C-22

GLF-C-12/16



GLF-C-22

GLF-C-12/16



TS 12

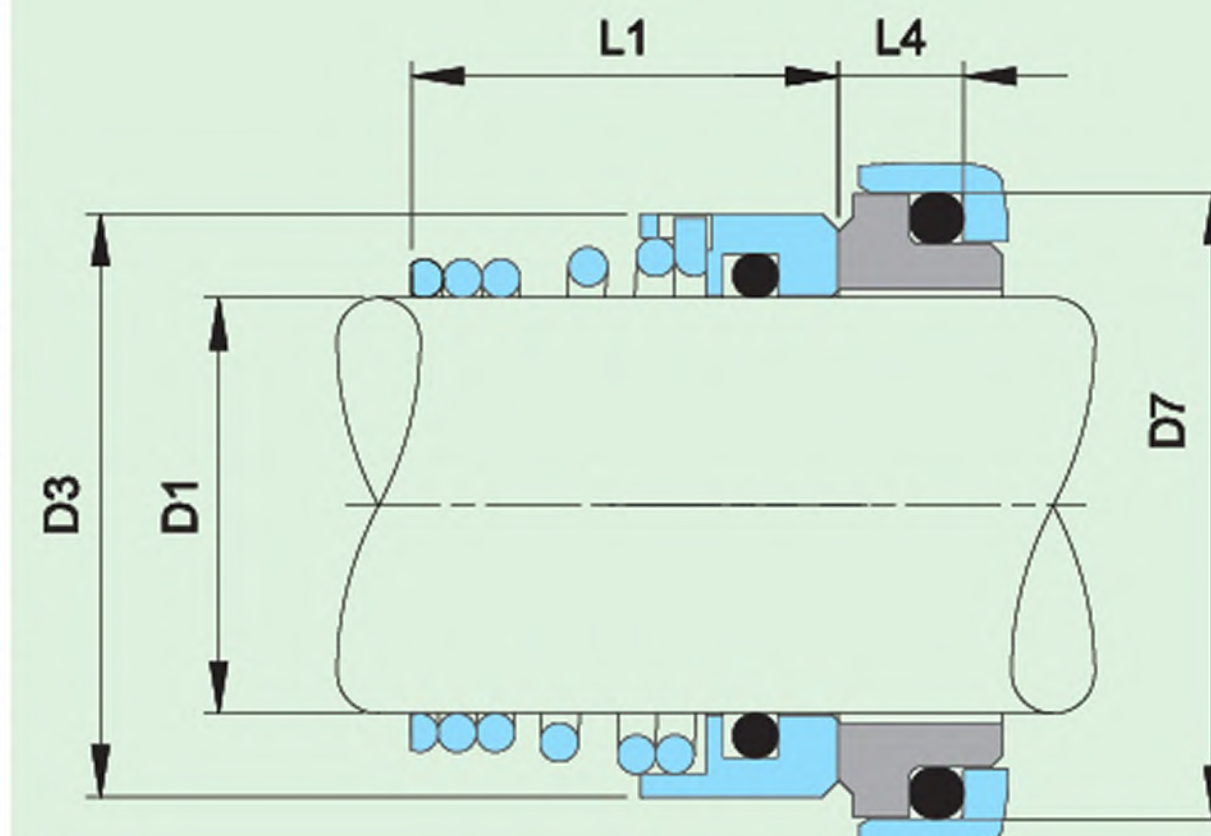
主要技术参数

介质:水, 油, 弱碱等一般腐蚀性化工介质
 温度: -20°C to 180°C
 压力: $\leq 1.6\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:

静环: Carbon/Sic/TC
 动环: Carbon/Sic/TC/SUS304
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	19.00	18.10	15.00	5.50
11	0110	21.00	20.60	18.00	5.50
12	0120	21.00	20.60	18.00	5.50
13	0130	23.00	23.10	22.00	6.00
14	0140	23.00	23.10	22.00	6.00
15	0160	24.00	26.90	22.00	7.00
16	0160	26.00	26.90	23.00	7.00
18	0180	29.00	30.90	24.00	8.00
19	0190	31.00	30.90	25.00	8.00
20	0200	31.00	30.90	25.00	8.00
22	0220	33.00	35.40	25.00	8.00
23	0230	35.00	35.40	27.00	8.00
24	0240	35.00	35.40	27.00	8.00
25	0250	36.00	38.20	27.00	8.50
28	0280	40.00	43.30	29.00	9.00
30	0300	43.00	43.30	30.00	9.00
32	0320	46.00	43.30	30.00	9.00
33	0330	46.00	53.50	39.00	11.50
35	0350	49.00	53.50	39.00	11.50
38	0380	53.00	60.50	39.00	11.50
40	0400	56.00	60.50	39.00	11.50
43	0430	59.00	60.50	39.00	11.50
45	0450	61.00	65.50	41.00	11.50
48	0480	64.00	65.50	41.00	11.50
50	0500	66.00	72.50	45.00	11.50
55	0550	71.00	72.50	47.00	11.50
60	0600	78.00	79.30	49.00	11.50
65	0650	84.00	84.50	51.00	11.50
70	0700	90.00	89.50	51.00	11.50
75	0750	98.00	94.50	57.00	11.50
80	0800	100.00	99.50	59.00	11.50
85	0850	107.00	105.50	59.00	13.50
90	0900	111.00	111.50	62.00	13.50
95	0950	119.00	116.50	62.00	13.50
100	1000	123.00	119.50	75.00	13.50

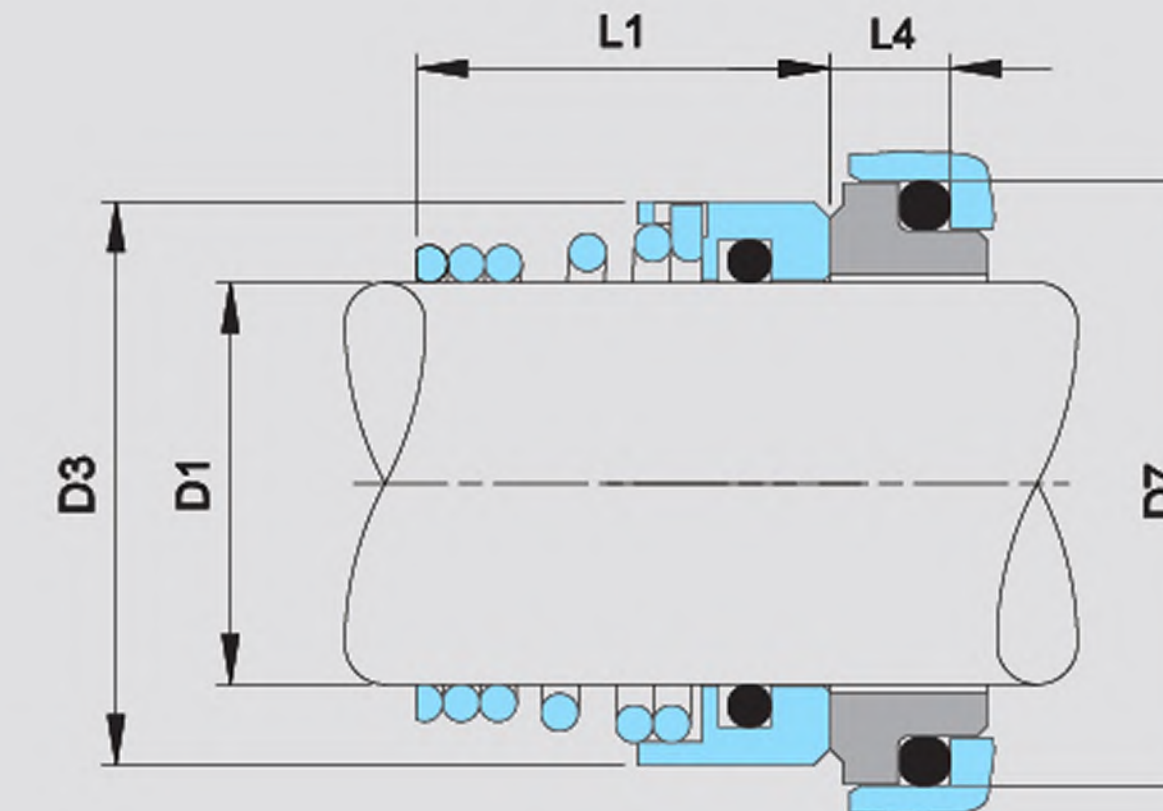


Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.
 Temperature: -20°C to 180°C
 Pressure: $\leq 1.6\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/TC
 Rotary Ring : Carbon/Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.
 Temperature: -20°C to 180°C
 Pressure: $\leq 1.6\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/TC
 Rotary Ring : Carbon/Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	19.00	21.00	15.00	7.00
12	0120	21.00	23.00	18.00	7.00
14	0140	23.00	25.00	22.00	7.00
16	0160	26.00	27.00	23.00	7.00
18	0180	29.00	33.00	24.00	10.00
20	0200	31.00	35.00	25.00	10.00
22	0220	33.00	37.00	25.00	10.00
24	0240	35.00	39.00	27.00	10.00
25	0250	36.00	40.00	27.00	10.00
28	0280	40.00	43.00	29.00	10.00
30	0300	43.00	45.00	30.00	10.00
32	0320	46.00	48.00	30.00	10.00
33	0330	46.00	48.00	39.00	10.00
35	0350	49.00	50.00	39.00	10.00
38	0380	53.00	56.00	42.00	13.00
40	0400	56.00	58.00	42.00	13.00
43	0430	59.00	61.00	47.00	13.00
45	0450	61.00	63.00	47.00	13.00
48	0480	64.00	66.00	47.00	13.00
50	0500	66.00	70.00	46.00	14.00
53	0530	69.00	73.00	56.00	14.00
55	0550	71.00	75.00	56.00	14.00
58	0580	76.00	78.00	56.00	14.00
60	0600	78.00	80.00	56.00	14.00
63	0630	81.00	83.00	56.00	14.00
65	0650	84.00	85.00	66.00	14.00
68	0680	88.00	90.00	64.00	16.00
70	0700	89.60	92.00	64.00	16.00
75	0750	98.00	97.00	64.00	16.00
80	0800	100.00	105.00	72.00	18.00
85	0850	107.50	110.00	72.00	18.00
90	0900	111.00	115.00	72.00	18.00
95	0950	119.00	120.00	72.00	18.00
100	1000	123.80	125.00	72.00	18.00



TS 12D

主要技术参数

介质:水, 油, 弱碱等一般腐蚀性化工介质
 温度: -20°C to 180°C
 压力: $\leq 1.6\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:

静环: Carbon/Sic/TC
 动环: Carbon/Sic/TC/SUS304
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢



TS 250

主要技术参数

介质:水, 油, 弱酸、弱碱等一般腐蚀性化工介质

温度: -20°C to 180°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 18\text{m/s}$

材料:

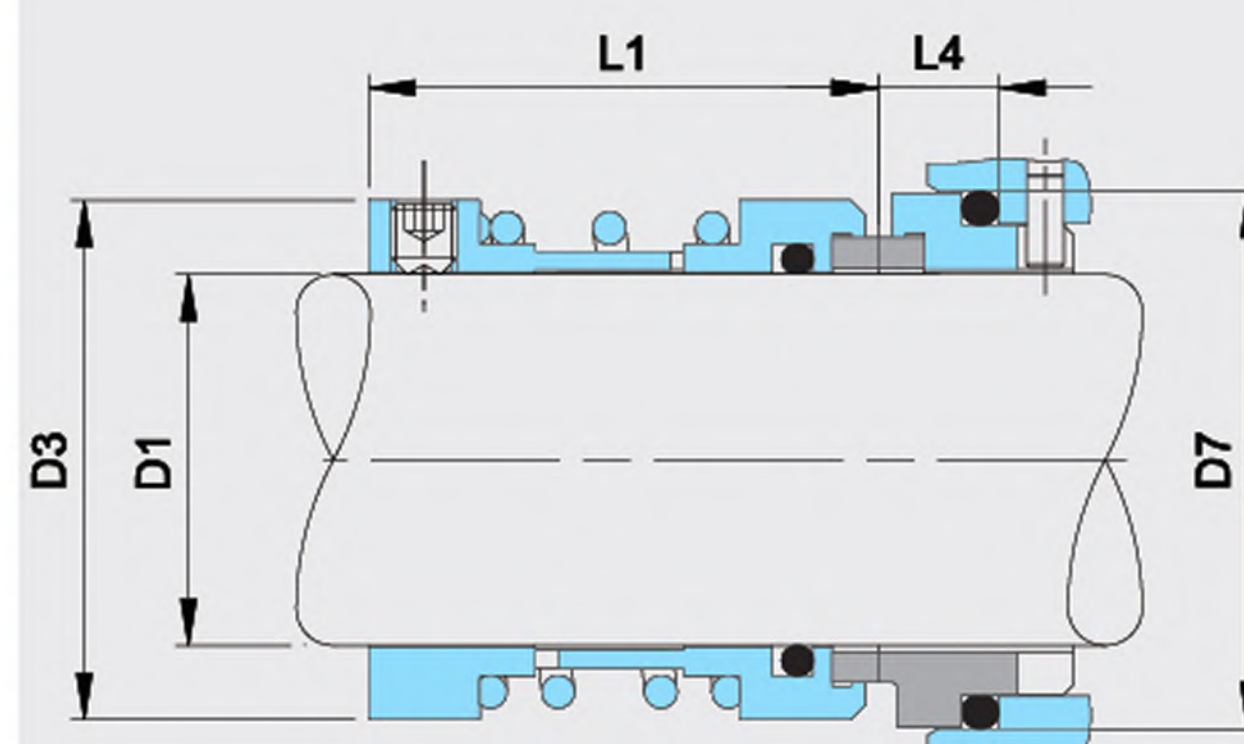
静环: Carbon/Ceramic/Sic/TC

动环: Carbon/Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
20	0200	34	35	41	13
22	0220	36	37	41	13
24	0240	38	39	43	13
25	0250	39	40	43	13
28	0280	42	43	45	13
30	0300	44	45	45	13
33	0330	47	48	45	13
35	0350	49	50	49	13
38	0380	54	56	53	13
40	0400	56	58	55	13
43	0430	59	61	55	13
45	0450	61	63	55	13
48	0480	64	66	55	13
50	0500	66	68	60	13
53	0530	69	71	61	13
55	0550	71	73	61	13
58	0580	76	79	63	16
60	0600	78	81	63	16
63	0630	81	84	63	16
65	0650	83	86	67	16
70	0700	90	92	68	16
75	0750	95	97	72	16
80	0800	100	105	72	16
85	0850	105	110	77	16
90	0900	112	115	77	16
95	0950	119	120	82	16
100	1000	124	125	82	16



Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.

Temperature: -20°C to 180°C

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

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

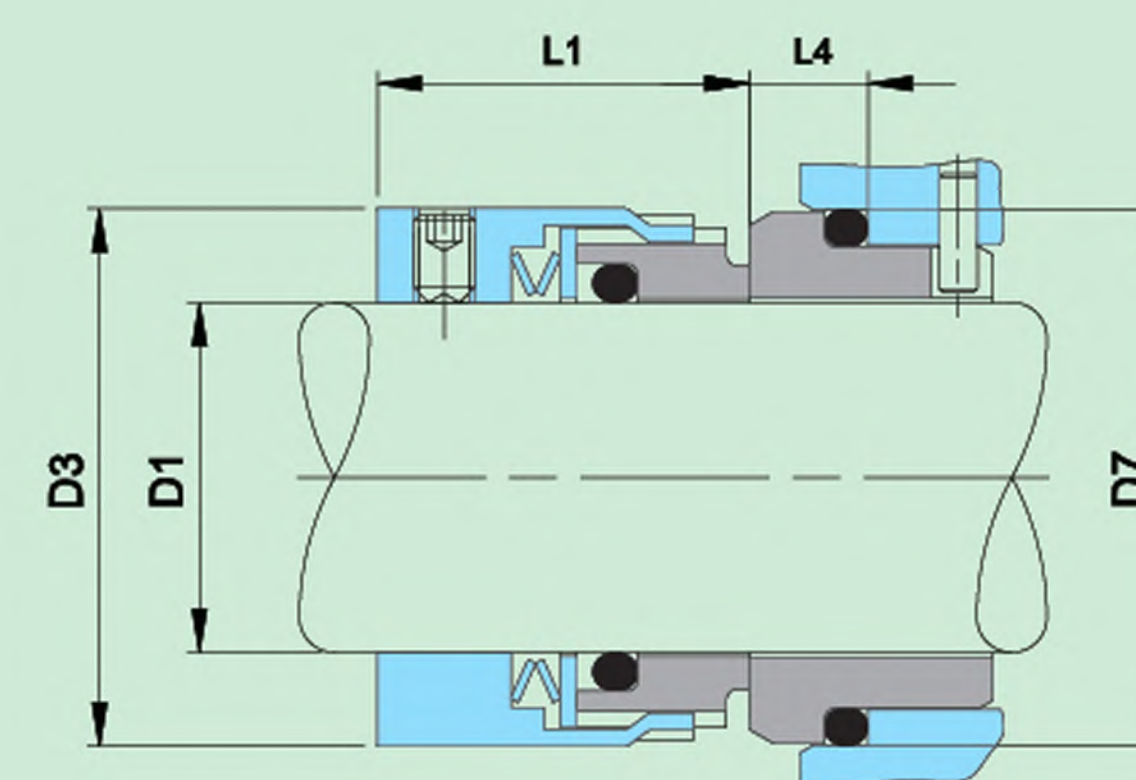
Materials

Stationary Ring: Carbon/Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS M7N (wave spring)

Working Conditions

Mediums: Water, oil, acids, alkali, etc.

Temperature: -30°C to 200°C

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

Speed: $\leq 18\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring : Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L4
14	0140	25.00	25.00	25.00	10.00
16	0160	27.00	27.00	25.00	10.00
18	0180	33.00	33.00	26.00	11.50
20	0200	35.00	35.00	26.00	11.50
22	0220	37.00	37.00	26.00	11.50
24	0240	39.00	39.00	28.50	11.50
25	0250	40.00	40.00	28.50	11.50
28	0280	43.00	43.00	31.00	11.50
30	0300	45.00	45.00	31.00	11.50
32	0320	47.00	47.00	31.00	11.50
33	0330	48.00	48.00	31.00	11.50
35	0350	50.00	50.00	31.00	11.50
38	0380	55.00	56.00	31.00	14.00
40	0400	57.00	58.00	31.00	14.00
43	0430	60.00	61.00	31.00	14.00
45	0450	62.00	63.00	31.00	14.00
48	0480	65.00	66.00	31.00	14.00
50	0500	67.00	70.00	32.50	15.00
53	0530	70.00	73.00	32.50	15.00
55	0550	72.00	75.00	32.50	15.00
58	0580	79.00	78.00	37.50	15.00
60	0600	81.00	80.00	37.50	15.00
63	0630	84.00	83.00	37.50	15.00
65	0650	86.00	85.00	37.50	15.00
68	0680	89.00	90.00	34.50	18.00
70	0700	91.00	92.00	42.00	18.00
75	0750	99.00	97.00	42.00	18.00
80	0800	104.00	105.00	41.80	18.20
85	0850	109.00	110.00	41.80	18.20
90	0900	114.00	115.00	46.80	18.20
95	0950	119.00	120.00	47.80	17.20
100	1000	124.00	125.00	47.80	17.20

主要技术参数

介质:水, 油, 酸、碱等中度腐蚀性化工介质

温度: -30°C to 200°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 18\text{m/s}$

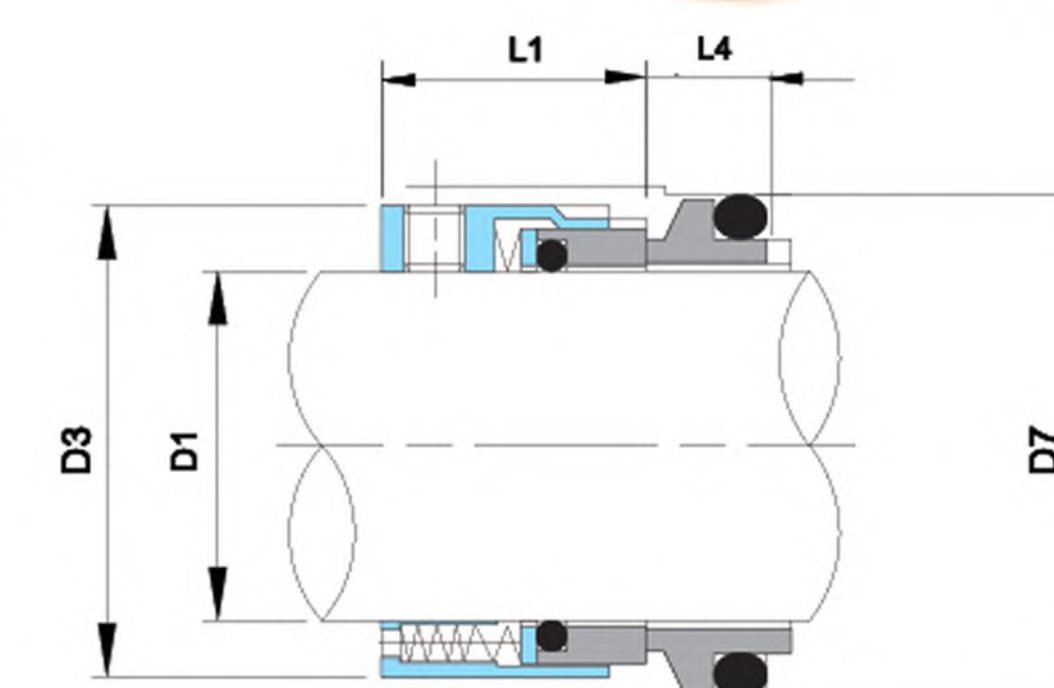
材料:

静环: Carbon/Sic/TC

动环: Carbon/Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS M74(multiple spring)

TS M7N TSM74



D1(mm)	Size Code	D2	D3	D7	L1	L4	L3
14	0140	18	33.0	25.0	32.5	10.00	8.0
16	0160	20	35.0	27.0	32.5	10.00	8.0
18	0180	22	37.0	33.0	33.5	11.50	8.5
20	0200	24	39.0	35.0	33.5	11.50	8.5
22	0220	26	40.0	37.0	33.5	11.50	8.5
24	0240	28	43.0	37.0	36.0	11.50	8.5
25	0250	30	45.0	40.0	36.0	11.50	8.5
28	0280	33	48.0	43.0	38.5	11.50	8.5
30	0300	35	50.0	45.0	38.5	11.50	8.5
32	0320	38	55.0	48.0	38.5	11.50	8.5
33	0330	38	55.0	48.0	38.5	11.50	8.5
35	0350	40	57.0	50.0	38.5	11.50	8.5
38	0380	43	60.0	56.0	38.5	14.00	9.0
40	0400	45	62.0	58.0	38.5	14.00	9.0
43	0430	48	65.0	61.0	38.5	14.00	9.0
45	0450	50	67.0	63.0	38.5	14.00	9.0
48	0480	53	70.0	66.0	38.5	14.00	9.0
50	0500	55	72.0	70.0	42.5	15.00	10.0
53	0530	58	79.0	73.0	42.5	15.00	10.0
55	0550	60	81.0	75.0	42.5	15.00	10.0
58	0580	63	84.0	78.0	47.5	15.00	10.0
60	0600	65	86.0	80.0	47.5	15.00	10.0
63	0630	68	89.0	83.0	47.5	15.00	10.0
65	0650	70	91.0	85.0	47.5	15.00	10.0
70	0700	75	99.0	92.0	52.0	18.00	10.0
75	0750	80	104.0	97.0	52.0	18.00	10.0
80	0800	85	109.0	105.0	51.8	18.20	9.8
85	0850	90	114.0	110.0	56.8	18.20	9.8
90	0900	95	119.0	115.0	56.8	18.20	9.8
95	0950	100	124.0	120.0	57.8	17.20	10.8
100	1000	105	129.0	125.0	57.8	17.20	10.8



TS H7N TS H75

主要技术参数

介质:水, 油, 酸、碱等中度腐蚀性化工介质

温度: -20°C to 200°C

压力: ≤2.5MPa

转速: ≤18m/s

材料:

静环: Carbon/Sic/TC

动环: Carbon/Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Water, oil, acids, alkali, etc.

Temperature: -20°C to 200°C

Pressure: ≤2.5MPa

Speed: ≤18m/s

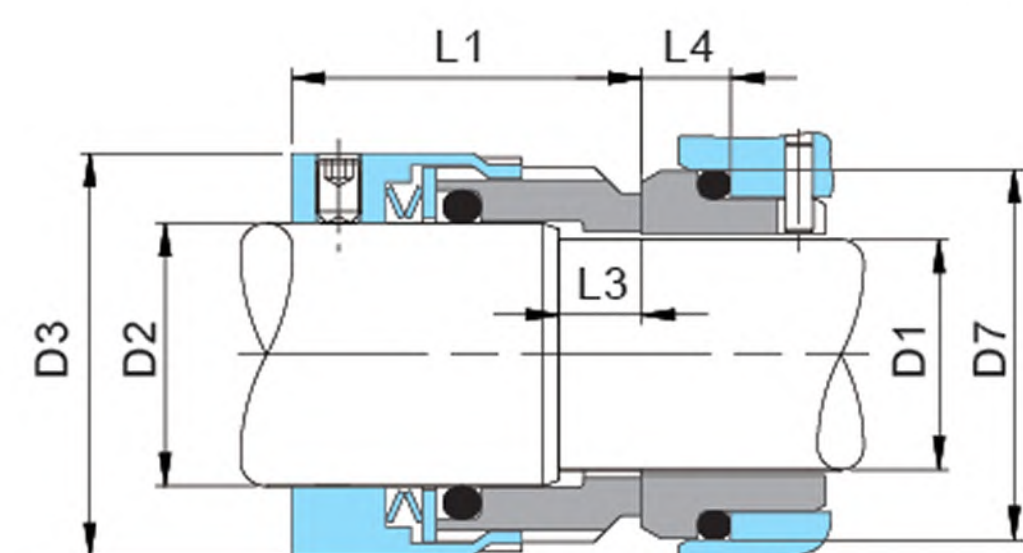
Materials

Stationary Ring: Carbon/Sic/TC

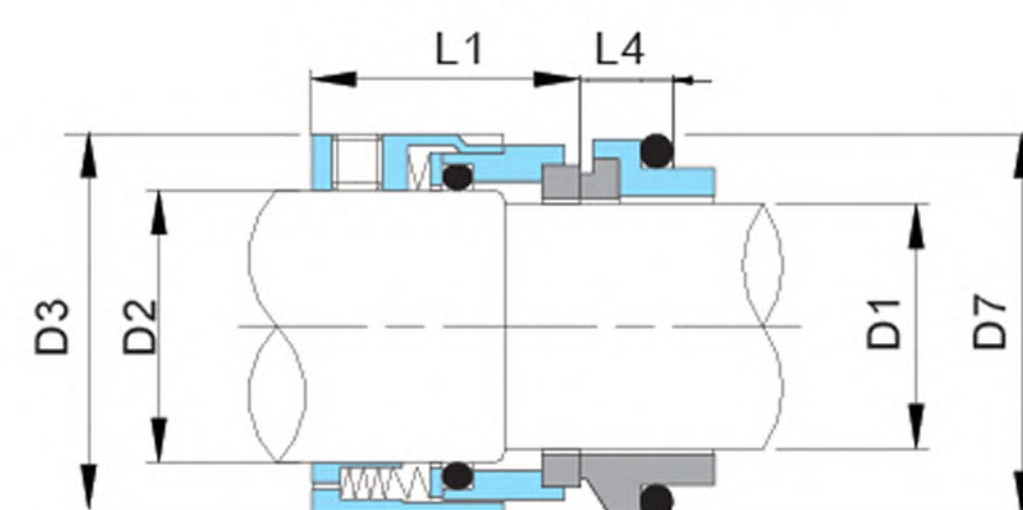
Rotary Ring: Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

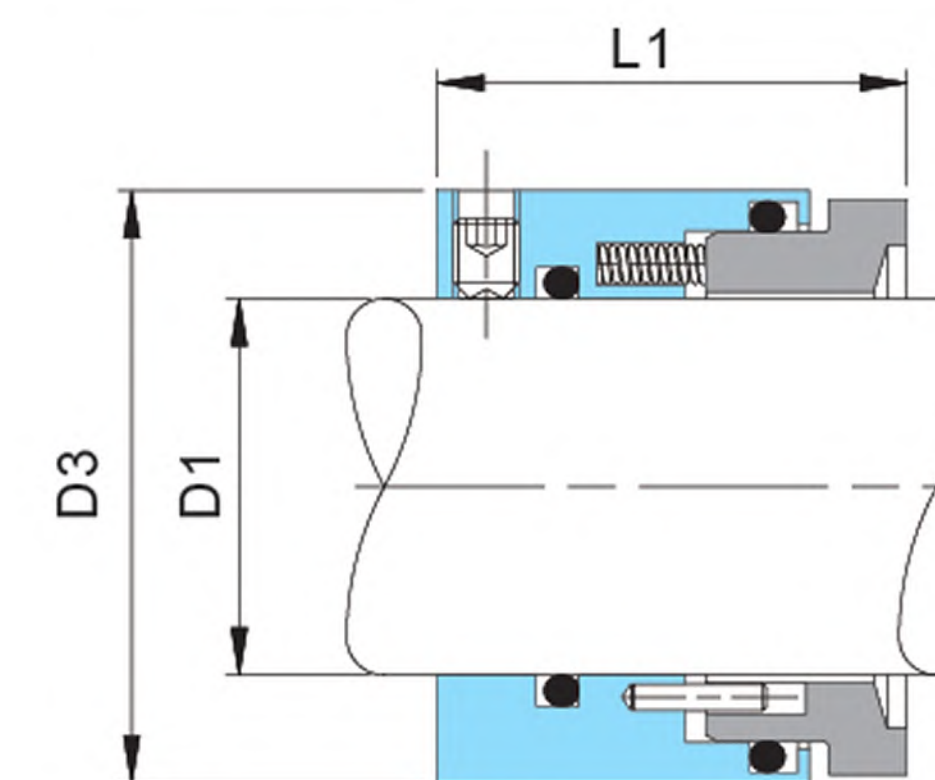


TS H7N(wave spring)



TS H75(multiple spring)

D1(inch)	Size Code	D3	L1
0.750	0191	33.60	35.00
0.875	0222	36.78	35.00
1.000	0254	39.95	35.00
1.125	0286	43.13	35.00
1.250	0317	46.30	44.45
1.375	0349	49.48	44.45
1.500	0381	54.43	44.45
1.625	0412	57.61	44.45
1.750	0444	60.78	44.45
1.875	0476	63.96	44.45
2.000	0508	67.13	44.45
2.125	0539	70.31	44.45
2.250	0571	73.48	44.45
2.375	0603	76.66	44.45
2.500	0635	79.83	44.45
2.625	0666	83.01	44.45
2.750	0698	92.08	50.80
2.875	0730	95.25	50.80
3.000	0762	98.43	50.80
3.125	0794	101.60	50.80
3.250	0826	104.78	50.80
3.375	0857	107.95	50.80
3.500	0889	111.13	50.80
3.625	0921	114.30	50.80
3.750	0953	117.48	50.80
3.875	0984	120.65	50.80
4.000	1016	123.83	50.80



主要技术参数

介质: 含固体颗粒和高粘度介质, 如制糖、造纸污水处理等

温度: -20°C to 180°C

压力: ≤2.5MPa

转速: ≤15m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Grain and high viscosity mediums, especially used in the sugar, pulp industry, and sewage disposal, etc.

Temperature: -20°C to 180°C

Pressure: ≤2.5MPa

Speed: ≤15m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring: Carbon/Sic/TC

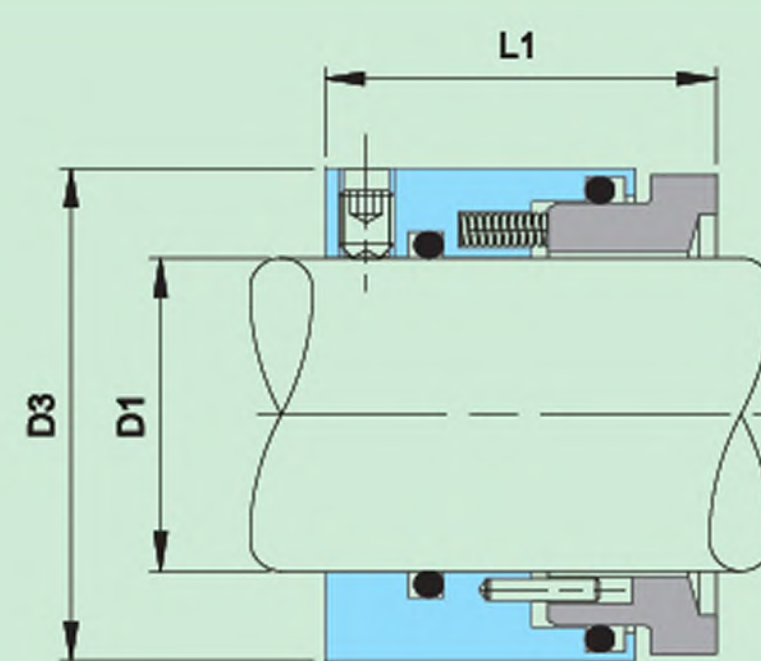
Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 891

D1(mm)	Size Code	D3	L1
18	0180	32.3	30.00
20	0200	34.3	30.00
22	0220	36.3	30.00
24	0240	38.4	30.00
25	0250	39.3	30.00
28	0280	42.3	35.00
30	0300	44.3	35.00
32	0320	46.4	35.00
33	0330	48.0	35.00
35	0350	49.5	35.00
38	0380	54.3	35.00
40	0400	56.1	35.00
43	0430	59.1	35.00
45	0450	61.1	35.00
48	0480	64.1	35.00
50	0500	66.1	35.00
53	0530	69.1	35.00
55	0550	71.1	35.00
60	0600	76.1	35.00
65	0650	81.1	35.00
68	0680	86.1	35.00
70	0700	86.1	35.00
75	0750	98.4	48.00
80	0800	104.2	48.00
85	0850	108.1	48.00
90	0900	114.0	48.00
100	1000	117.6	48.00



Working Conditions

Mediums: Grain and high viscosity mediums, especially used in the sugar, pulp industry, and sewage disposal, etc.

Temperature: -20°C to 180°C

Pressure: ≤1.6MPa

Speed: ≤15m/s

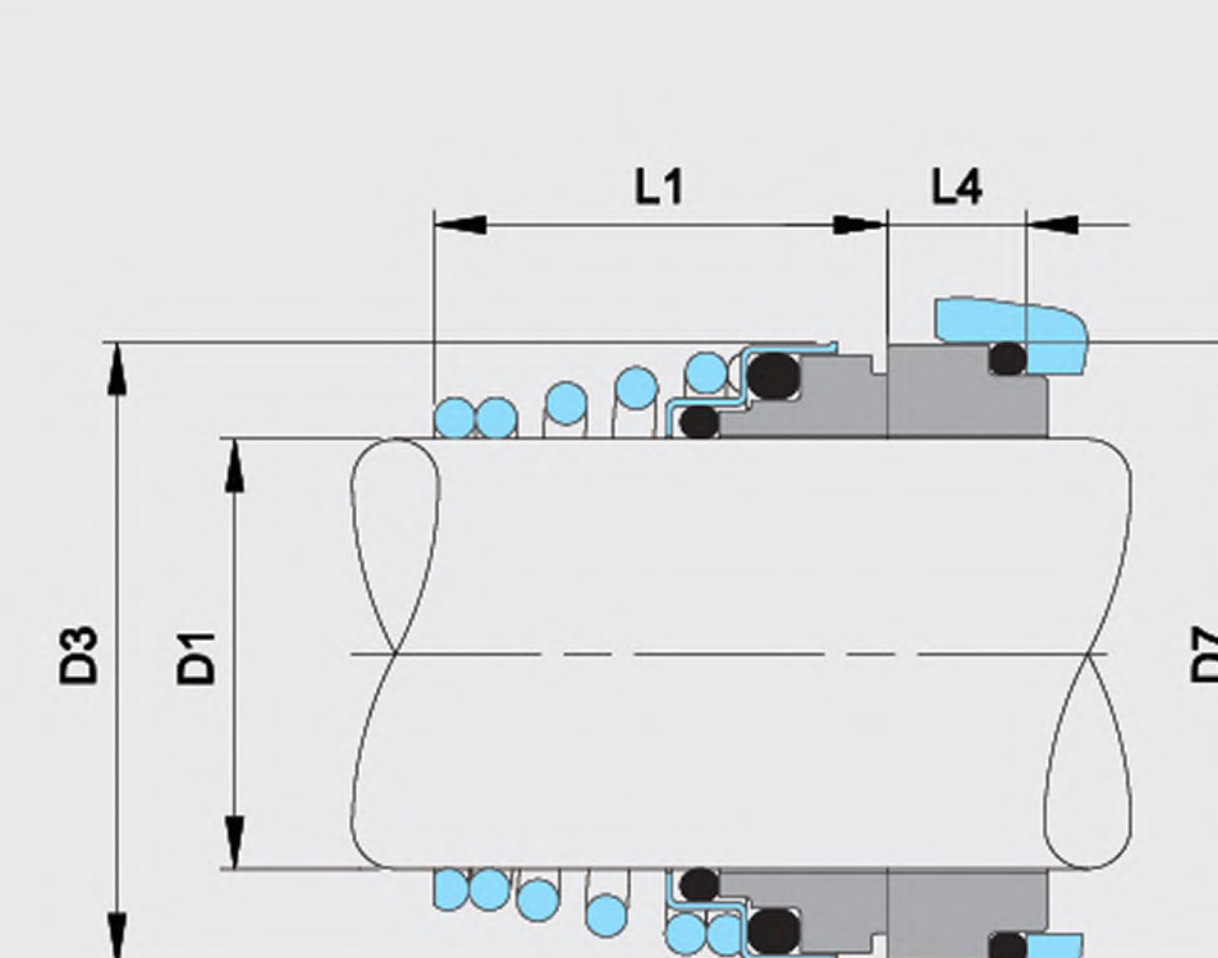
Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



Working Conditions

Pumps: Water pumps, Circulation Pumps, etc.

Temperature: -20°C to 180°C

Pressure: ≤0.8MPa

Speed: ≤10m/s

Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Ceramic/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

主要用于:清水泵,循环泵等

温度: -20°C to 180°C

压力: ≤0.8MPa

转速: ≤10m/s

材料:

静环: Carbon/Sic/TC

动环: Ceramic/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 155 TS 155B



TS 491

主要技术参数

介质: 含固体颗粒和高粘度介质, 如制糖、造纸污水处理等

温度: -20°C to 180°C

压力: ≤1.6MPa

转速: ≤15m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	20.00	18.10	15.00	5.50
11	0110	22.00	20.60	18.00	5.50
12	0120	22.00	20.60	18.00	5.50
13	0130	25.00	23.10	22.00	6.00
14	0140	25.00	23.10	22.00	6.00
15	0150	29.00	26.90	22.00	7.00
16	0160	29.00	26.90	23.00	7.00
17	0170	29.00	26.90	23.00	7.00
18	0180	33.00	30.90	24.00	8.00
19	0190	33.00	30.90	25.00	8.00
20	0200	33.00	30.90	25.00	8.00
21	0210	38.00	35.40	25.00	8.00
22	0220	38.00	35.40	25.00	8.00
23	0230	38.00	35.40	27.00	8.00
24	0240	38.00	35.40	27.00	8.00
25	0250	40.00	38.20	27.00	8.50
28	0280	46.00	43.30	29.00	9.00
29	0290	46.00	43.30	30.00	9.00
30	0300	46.00	43.30	30.00	9.00
32	0320	46.00	43.30	30.00	9.00
33	0330	48.00	53.50	39.00	11.50
35	0350	50.00	53.50	39.00	11.50
38	0380	58.00	60.50	39.00	11.50
40	0400	58.00	60.50	39.00	11.50

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	20.00	21.00	15.00	7.00
12	0120	22.00	23.00	18.00	7.00
14	0140	25.00	25.00	22.00	7.00
16	0160	29.00	27.00	23.00	7.00
18	0180	33.00	33.00	24.00	10.00
20	0200	33.00	35.00	25.00	10.00
22	0220	38.00	37.00	25.00	10.00
24	0240	38.00	39.00	27.00	10.00
25	0250	40.00	40.00	27.00	10.00
28	0280	46.00	43.00	29.00	10.00
30	0300	46.00	45.00	30.00	10.00
32	0320	46.00	48.00	30.00	10.00
33	0330	48.00	48.00	39.00	10.00
35	0350	50.00	50.00	39.00	10.00
38	0380	56.00	56.00	42.00	13.00
40	0400	58.00	58.00	42.00	13.00

TS W01



Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.

Temperature: -20°C to 200°C

Pressure: ≤0.8MPa

Speed: ≤15m/s

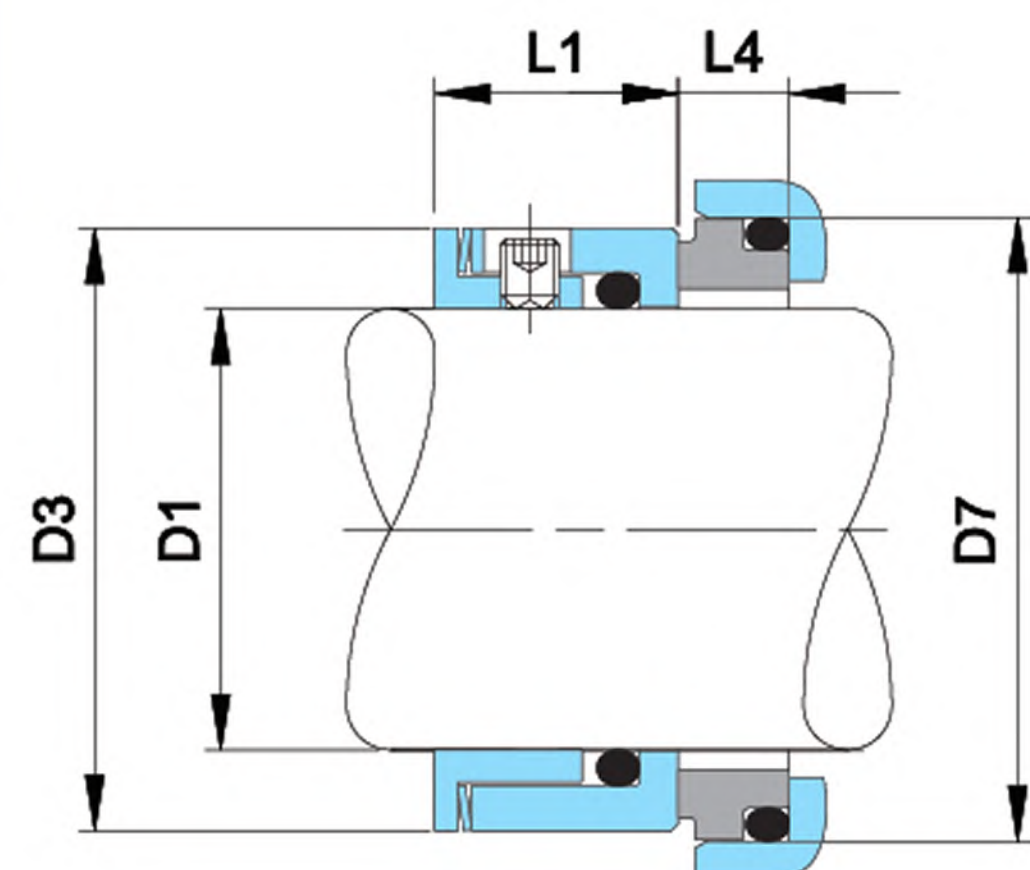
Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



D1(mm)	Size Code	D3	D7	L1	L4
15.8	0158	27.0	28.5	19.1	6.3
16.0	0160	27.0	28.5	19.1	6.3
19.1	0191	30.0	31.7	19.1	6.3
24.0	0240	34.1	35.4	19.1	7.6
28.0	0280	40.0	42.0	19.1	7.6
28.6	0286	39.5	41.2	19.1	7.6
30.0	0300	41.0	42.7	19.1	7.6
31.7	0317	42.4	44.2	19.1	7.6
32.0	0320	42.4	44.4	19.1	7.6
35.0	0350	45.5	47.6	19.1	7.6
38.0	0380	51.8	53.9	21.1	8.1
44.4	0444	58.2	60.3	21.1	8.1
47.6	0476	61.4	63.5	21.1	8.1
50.0	0500	61.9	63.9	21.1	8.1
50.8	0508	64.6	66.6	22.1	9.6
53.9	0539	71.0	73.0	22.1	9.6
54.0	0540	71.0	73.9	22.1	9.6
54.6	0546	72.0	75.0	22.1	9.6
55.0	0550	72.0	75.0	22.1	9.6
63.0	0630	79.3	83.0	25.8	9.1
63.5	0635	79.3	88.9	25.8	9.1
69.8	0698	88.9	95.2	25.8	9.1
73.0	0730	94.0	98.4	25.8	9.1
75.0	0750	96.0	100.4	25.8	9.1

主要技术参数

介质:水, 油, 弱酸、弱碱等一般腐蚀性化工介质

温度:-20°C to 200°C

压力:≤0.8MPa

转速:≤15m/s

材料:

静环: Carbon/Sic/TC

动环: Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



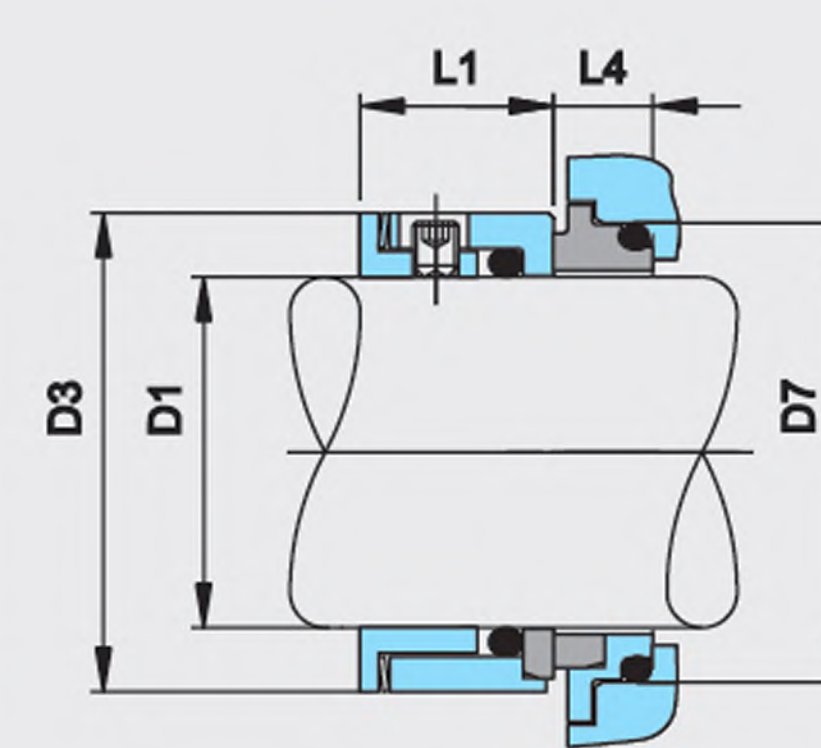
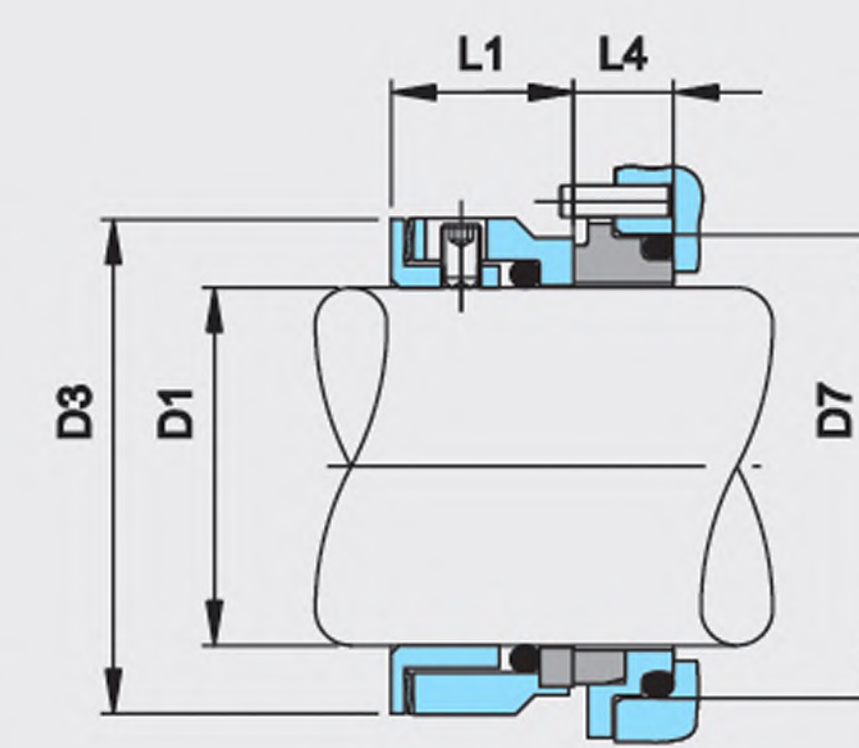
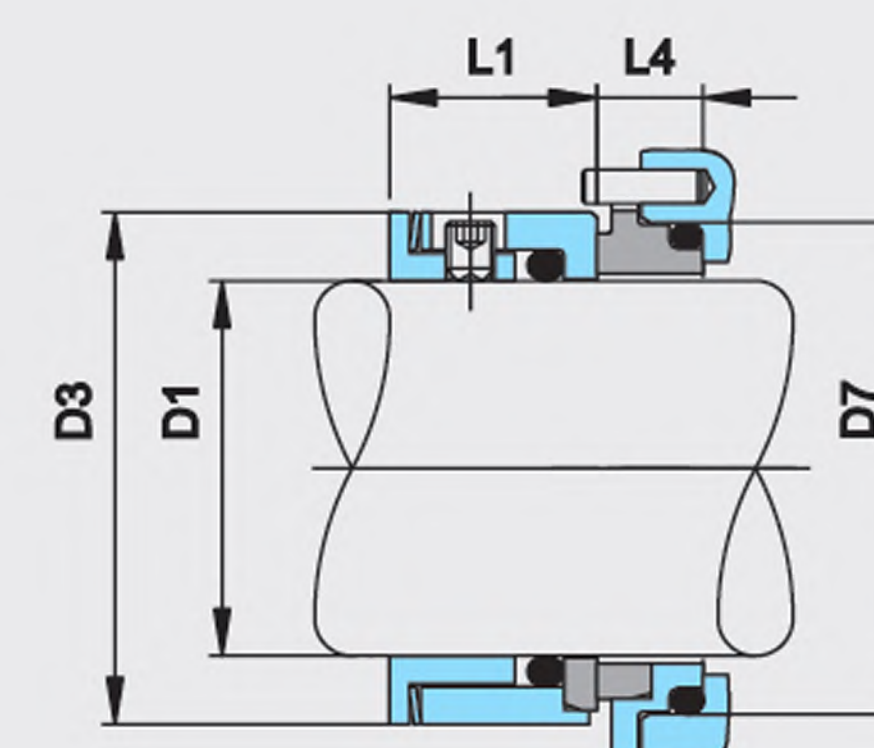
TS W03



TS W03S



TS W04



Seals to suit Alfa Laval SSP SR range TS W03

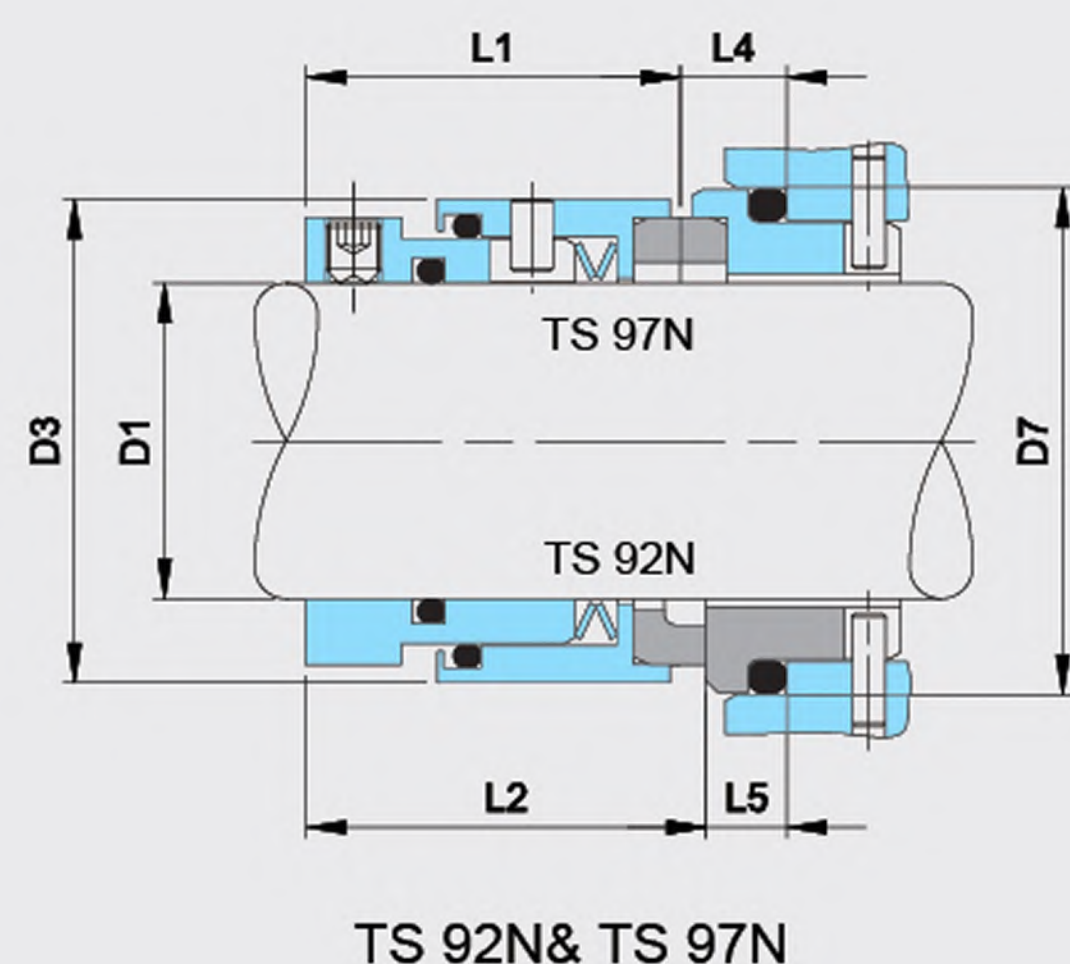
Pump Ref:	D1(mm)	Size Code	D3	D7	L1	L4
SR1	20.0	0200	31.0	30.0	19.1	10.7
SR2	30.0	0300	41.0	41.3	19.1	10.9
SR3	35.0	0350	45.5	47.0	19.1	12.2
SR4	45.0	0450	58.2	58.3	21.1	11.6
SR5	55.0	0550	72.0	69.6	22.1	13.0
SR6	75.0	0750	96.0	92.2	25.8	14.5

Seals to suit Alfa Laval SSP SR Rang TS W03S

Pump Ref:	D1(mm)	Size Code	D3	D7	L1	L4
SR1	20.0	0200	32.4	30.0	20.0	10.7
SR2	30.0	0300	44.0	41.3	21.4	10.9
SR3	35.0	0350	50.8	47.0	22.0	12.2
SR4	45.0	0450	62.4	58.3	22.9	11.6
SR5	55.0	0550	76.0	69.6	29.3	13.0
SR6	75.0	0750	99.2	92.2	31.1	14.5

Seals to suit Johnson Classic IC Pumps TS W04

Pump Ref:	D1(mm)	Size Code	D3	D7	L1	L4
Size 10	30.0	0300	41.0	40.0	19.1	9.3
Size 20	35.0	0350	45.5	44.5	19.1	9.2
Size 30	50.0	0500	61.9	62.0	21.1	10.4
Size 40	70.0	0700	88.9	85.0	25.8	14.1
Size 50	80.0	0800	101.0	95.0	25.8	16.2



主要技术参数

介质: 造纸、制糖、污水处理等高粘度介质
 温度: -20°C to 200°C
 压力: $\leq 2.5\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:
 静环: Ceramic / Sic / TC
 动环: Carbon / Sic / TC
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢



TS 92N& TS 97N

D1(mm)	Size Code	D3	D7	L4	L5	L1(97)	L2(92N)
18	0180	32.0	33.0	9.0	7.0	28.7	30.7
20	0200	34.0	35.0	9.0	7.0	28.7	30.7
22	0220	36.0	37.0	9.0	7.0	28.7	30.7
24	0240	38.0	39.0	9.0	7.0	31.2	33.2
25	0250	39.0	40.0	9.0	7.0	31.2	33.2
28	0280	42.0	43.0	9.5	7.0	33.2	35.7
30	0300	44.0	45.0	9.5	7.0	33.2	35.7
32	0320	47.0	48.0	9.5	7.0	33.2	35.7
33	0330	47.0	48.0	9.5	7.0	33.2	35.7
35	0350	49.0	50.0	9.5	7.0	33.2	35.7
38	0380	54.0	56.0	10.5	8.0	34.7	37.2
40	0400	56.0	58.0	10.5	8.0	34.7	37.2
43	0430	59.0	61.0	10.5	8.0	34.7	37.2
45	0450	61.0	63.0	10.5	8.0	34.7	37.2
48	0480	64.0	66.0	10.5	8.0	34.7	37.2
50	0500	66.0	70.0	12.0	9.5	35.7	38.2
53	0530	69.0	73.0	12.0	9.5	35.7	38.2
55	0550	71.0	75.0	12.0	9.5	35.7	38.2
58	0580	78.0	78.0	13.0	10.5	39.7	42.2
60	0600	80.0	80.0	13.0	10.5	39.7	42.2
63	0630	83.0	83.0	13.0	10.5	39.7	42.2
65	0650	85.0	85.0	13.0	10.5	39.7	42.2
68	0680	88.0	90.0	13.5	11.0	39.2	41.7
70	0700	90.0	92.0	14.0	11.5	46.2	48.7
75	0750	99.0	97.0	14.0	11.5	46.2	48.7
80	0800	104.0	105.0	14.0	11.5	46.2	48.7
85	0850	109.0	110.0	14.0	11.5	46.2	48.7
90	0900	114.0	115.0	15.5	13.0	49.7	52.2
95	0950	119.0	120.0	15.5	13.0	49.7	52.2
100	1000	124.0	125.0	15.5	13.0	49.7	52.2

Working Conditions

Mediums: Paper, sugar and sewage disposal etc.
 Temperature: -20°C to 200°C
 Pressure: $\leq 2.5\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Ceramic / Sic / TC
 Rotary Ring: Carbon / Sic / TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel

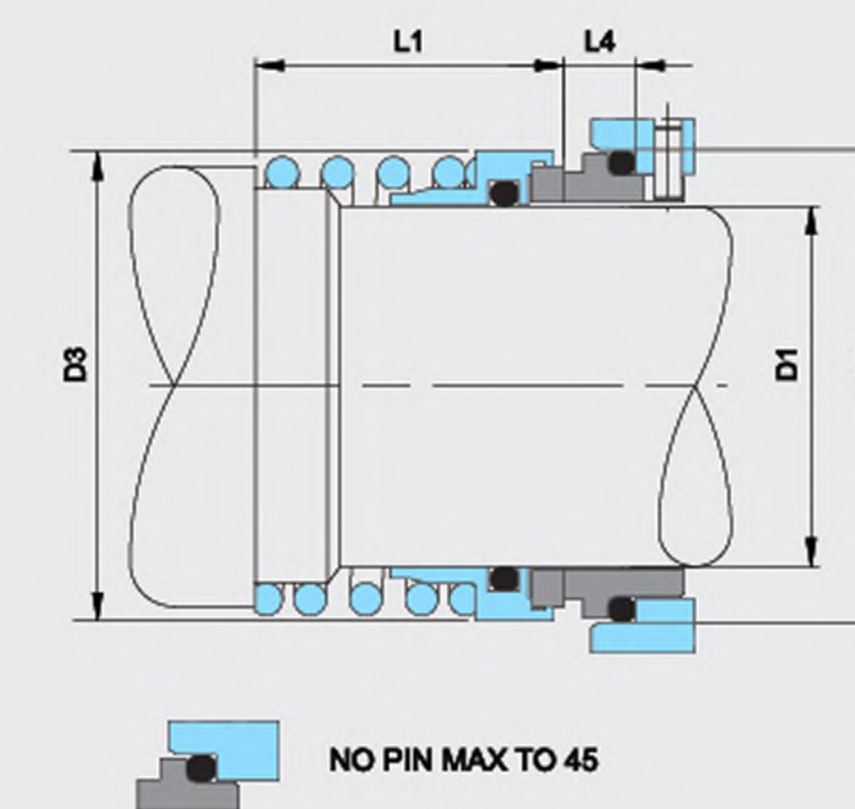
D1(mm)	Size Code	D3	D7	L1	L4
15.8	0158	29.0	28.6	24.5	9
19.1	0191	32.5	31.7	24.5	9
20.0	0200	34.5	33.3	27.5	9
22.2	0222	34.9	34.9	26.0	9
25.0	0250	38.1	39.9	30.0	10
25.4	0254	38.1	39.9	30.0	10
28.0	0280	42.0	43.1	31.5	10
28.6	0286	42.9	43.1	31.5	10
30.0	0300	45.5	44.6	31.5	10
31.7	0317	46.0	46.3	34.5	10
32.0	0320	47.0	46.3	34.5	10
34.9	0349	49.2	49.5	37.5	10
35.0	0350	50.0	49.5	37.5	10
38.0	0380	53.0	52.6	37.5	10
38.1	0381	52.4	52.6	37.5	10
40.0	0400	55.0	54.3	37.5	10
41.2	0412	55.5	55.8	37.5	10
42.0	0420	55.5	55.8	37.5	10
44.4	0444	58.7	59.0	37.5	10
45.0	0450	60.0	59.0	37.5	10
47.6	0476	61.9	63.7	42.5	10
50.0	0500	66.0	65.4	45.5	10
50.8	0508	66.7	66.9	45.5	10
53.9	0539	69.9	70.0	47.0	10
55.0	0550	71.0	70.0	47.0	10
57.1	0571	73.0	73.2	47.0	10
60.0	0600	77.0	76.4	50.5	10
60.3	0603	76.2	76.4	50.5	10
63.5	0635	79.4	79.6	50.5	10
65.0	0650	82.0	81.2	53.5	10
66.6	0666	82.6	82.7	53.5	10
69.8	0698	85.7	85.9	53.5	10
70.0	0700	87.0	85.9	53.5	10
73.0	0730	90.0	89.1	56.5	10
75.0	0750	91.5	90.8	56.5	10
76.2	0762	95.3	95.4	63.0	10

主要技术参数

介质: 水, 油, 酸, 碱等中度腐蚀性化工介质
 温度: -20°C to 200°C
 压力: $\leq 1\text{MPa}$
 转速: $\leq 20\text{m/s}$

材料:

静环: Carbon/Sic/TC
 动环: Sic/TC/SUS304
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢

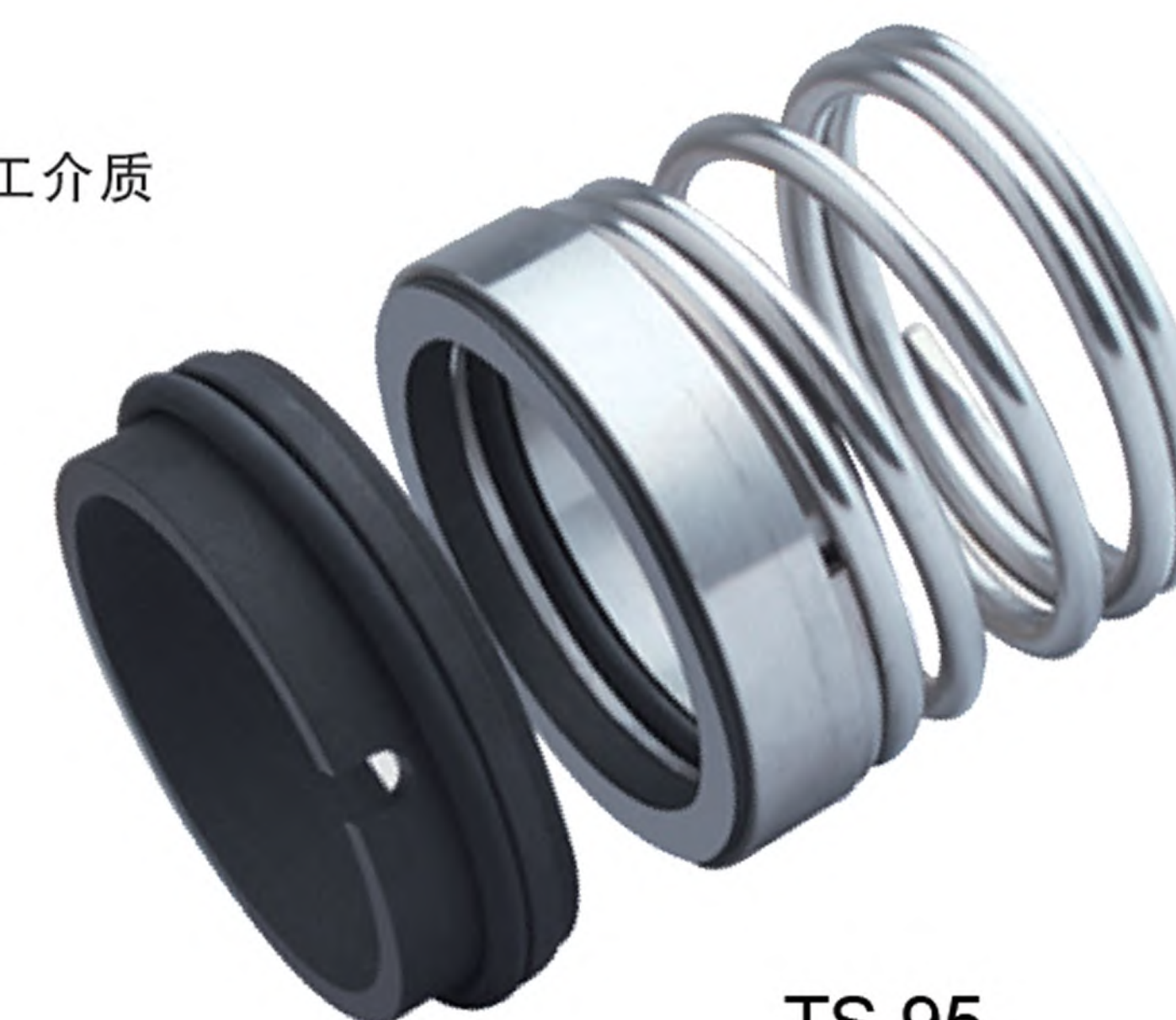


Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.
 Temperature: -20°C to 200°C
 Pressure: $\leq 1\text{MPa}$
 Speed: $\leq 20\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/TC
 Rotary Ring: Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



TS 95

● 主要技术参数

介质: 水, 油, 酸, 碱等中度腐蚀性化工介质

温度: -20°C to 200°C 压力: $\leq 1\text{MPa}$ 转速: $\leq 20\text{m/s}$

材料:

静环: Carbon/Sic/TC

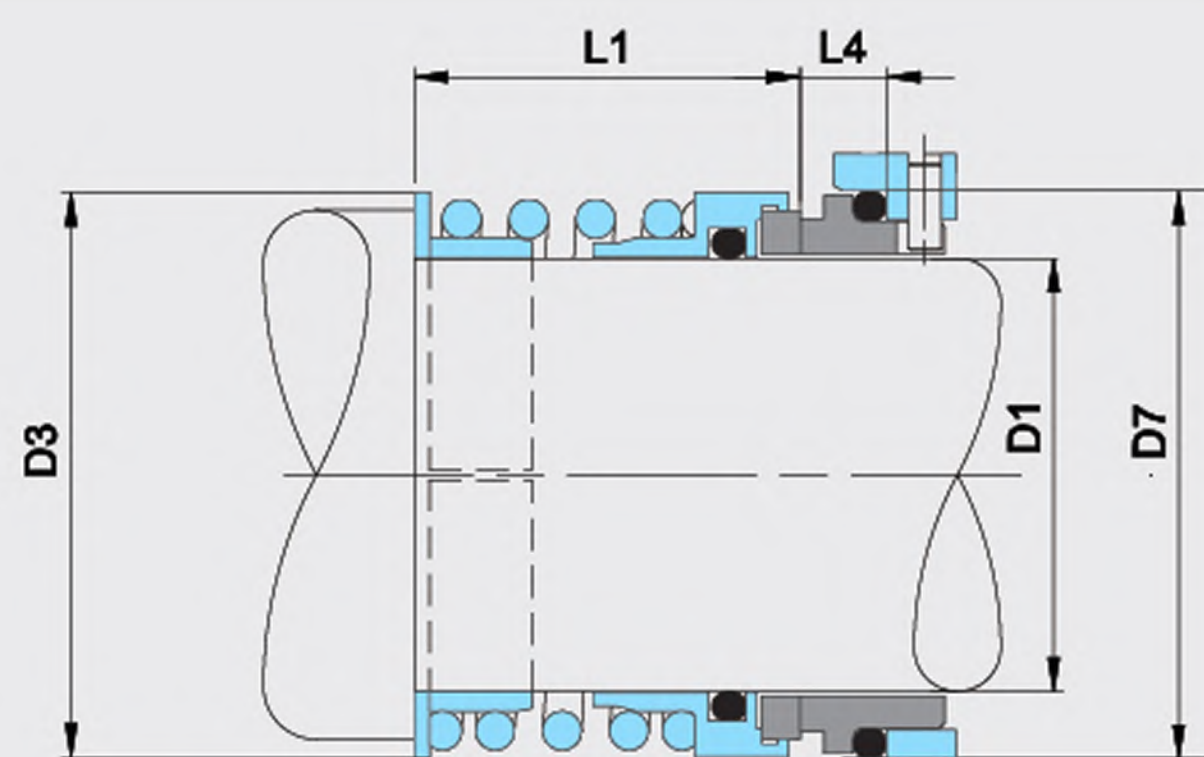
动环: Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 96



NO PIN MAX TO 45

● Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.

Temperature: -20°C to 200°C Pressure: $\leq 1\text{MPa}$ Speed: $\leq 20\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L4
15.8	0158	29.0	28.6	26.0	9
19.1	0191	32.5	31.7	26.0	9
20.0	0200	34.5	33.3	29.0	9
22.2	0222	34.9	34.9	27.5	9
25.0	0250	38.1	39.9	31.5	10
25.4	0254	38.1	39.9	31.5	10
28.0	0280	42.0	43.1	33.0	10
28.6	0286	42.9	43.1	33.0	10
30.0	0300	45.5	44.6	33.0	10
31.7	0317	46.0	46.3	36.0	10
32.0	0320	47.0	46.3	36.0	10
34.9	0349	49.2	49.5	39.0	10
35.0	0350	50.0	49.5	39.0	10
38.0	0380	53.0	52.6	39.0	10
38.1	0381	52.4	52.6	39.0	10
40.0	0400	55.0	54.3	39.0	10
41.2	0412	55.5	55.8	39.0	10
42.0	0420	55.5	55.8	39.0	10
44.4	0444	58.7	59.0	39.0	10
45.0	0450	60.0	59.0	39.0	10
47.6	0476	61.9	63.7	44.0	10
50.0	0500	66.0	65.4	47.0	10
50.8	0508	66.7	66.9	47.0	10
53.9	0539	69.9	70.0	48.5	10
55.0	0550	71.0	70.0	48.5	10
57.1	0571	73.0	73.2	48.5	10
60.0	0600	77.0	76.4	52.0	10
60.3	0603	76.2	76.4	52.0	10
63.5	0635	79.4	79.6	52.0	10
65.0	0650	82.0	81.2	55.0	10
66.6	0666	82.6	82.7	55.0	10
69.8	0698	85.7	85.9	55.0	10
70.0	0700	87.0	85.9	55.0	10
73.0	0730	90.0	89.1	60.0	10
75.0	0750	91.5	90.8	60.0	10
76.2	0762	95.3	95.4	66.0	10

D1(mm)	Size Code	D3	D7	L1	L4
20	0200	34.5	33.32	35.5	9
25	0250	41.1	39.85	39.0	10
28	0280	42.0	43.05	41.0	10
30	0300	45.5	44.63	41.0	10
32	0320	47.0	46.32	44.0	10
35	0350	50.0	49.48	47.0	10
38	0380	53.0	52.56	47.0	10
40	0400	55.0	54.25	47.0	10
42	0420	55.5	55.83	47.0	10
45	0450	60.0	59.02	47.0	10
50	0500	66.0	65.37	58.5	10
55	0550	71.0	70.03	60.0	10
60	0600	77.0	76.38	63.0	10
65	0650	82.0	81.23	66.0	10
70	0700	87.0	85.90	66.0	10
75	0750	91.5	90.77	71.0	10
80	0850	99.5	100.29	77.5	10
85	0800	105.5	104.77	77.5	10
90	0900	110.5	109.82	82.0	10
95	0950	115.5	114.30	82.0	10
100	1000	120.0	119.33	82.0	10
105	1050	128.0	127.00	88.5	10
110	1100	133.0	131.77	88.5	10
115	1150	137.5	136.52	88.5	10
120	1200	144.0	142.87	95.0	10

D1(inch)	Size Code	D3	D7	L1	L4
0.625	0158	29.00	28.57	32.5	9.0
0.750	0191	32.50	31.75	32.5	9.0
0.875	0222	34.93	34.93	35.3	9.2
1.000	0254	38.10	39.85	39.0	10.0
1.125	0285	42.86	43.05	41.0	10.0
1.250	0317	46.00	46.32	44.0	10.0
1.375	0349	49.21	49.48	47.0	10.0
1.500	0381	52.39	52.56	47.0	10.0
1.625	0412	55.50	55.83	47.0	10.0
1.750	0444	58.74	59.02	47.0	10.0
1.875	0476	61.91	63.68	55.0	10.0
2.000	0508	66.68	66.85	58.5	10.0
2.125	0539	69.85	70.03	60.0	10.0
2.250	0571	73.02	73.20	60.0	10.0
2.375	0603	76.20	76.38	63.0	10.0
2.500	0635	79.38	79.56	63.0	10.0
2.625	0666	82.55	82.73	66.0	10.0
2.750	0698	85.72	85.90	66.0	10.0
2.875	0730	90.00	89.08	71.0	10.0
3.000	0762	95.25	95.43	77.5	10.0
3.250	0825	101.60	101.78	77.5	10.0
3.500	0889	107.95	108.13	77.5	10.0
4.000	1016	124.50	124.00	88.5	10.0

● Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.

Temperature: -20°C to 200°C Pressure: $\leq 1\text{MPa}$ Speed: $\leq 20\text{m/s}$

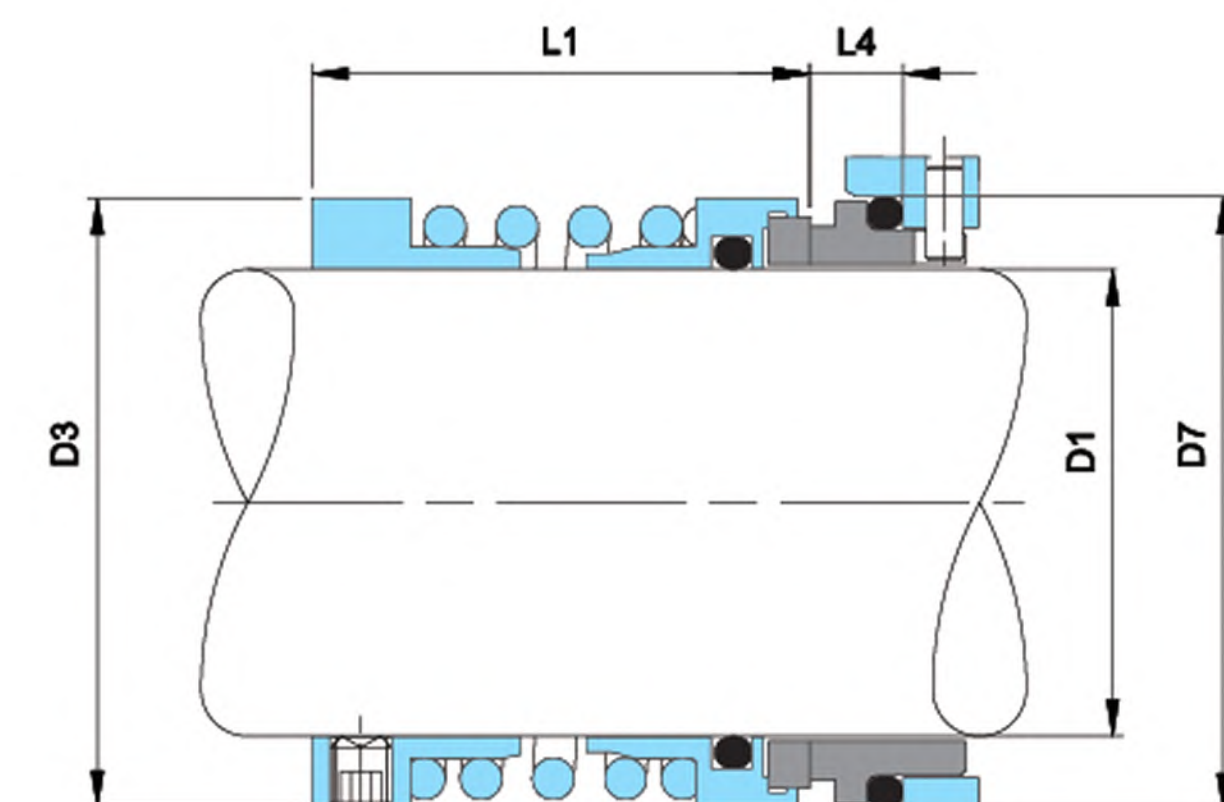
Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



NO PIN MAX TO 45



TS 97

● 主要技术参数

介质: 水, 油, 酸, 碱等中度腐蚀性化工介质

温度: -20°C to 200°C 压力: $\leq 1\text{MPa}$ 转速: $\leq 20\text{m/s}$

材料:

静环: Carbon/Sic/TC

动环: Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 98

主要技术参数

介质: 水, 油, 酸, 碱等中度腐蚀性化工介质

温度: -20°C to 200°C

压力: $\leq 1\text{MPa}$

转速: $\leq 20\text{m/s}$

材料:

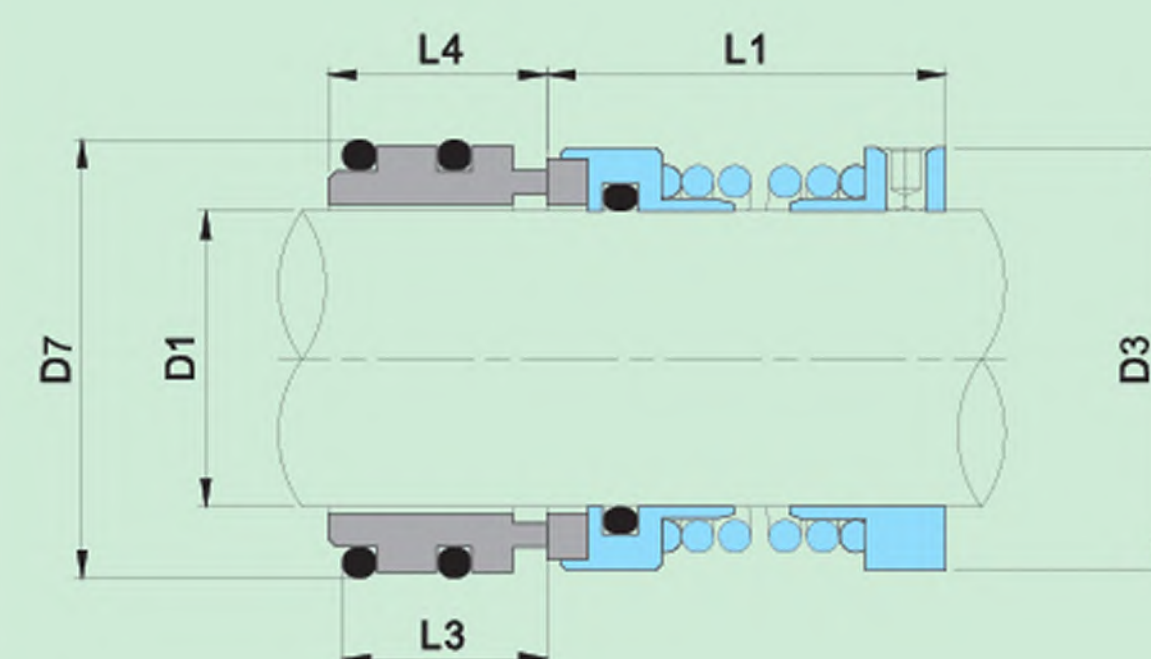
静环: Carbon/Sic/TC

动环: Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4	L3
20	0200	34.50	37.0	38.0	24.0	23.0
22	0220	34.93	39.0	38.0	24.0	23.0
25	0250	41.00	40.0	38.0	24.0	23.0
28	0282	42.00	44.0	40.0	24.0	23.0
30	0300	45.50	47.0	40.0	26.0	24.0
32	0320	47.00	48.0	40.0	26.0	24.0
35	0350	50.00	51.0	40.0	26.0	24.0
38	0380	53.00	54.0	45.0	26.0	24.0
40	0400	55.00	57.0	45.0	26.0	24.0
42	0420	55.50	60.5	50.0	26.0	24.0
45	0450	60.00	61.0	50.0	26.0	24.0
48	0480	61.91	64.0	55.0	26.0	24.0
50	0500	66.00	67.0	55.0	26.0	24.0
52	0520	68.00	70.0	58.0	26.0	24.0
55	0550	71.00	73.0	58.0	26.0	24.0
58	0580	74.00	76.0	58.0	26.0	24.0
60	0600	77.00	80.0	60.0	28.0	26.0
62	0620	78.00	83.0	60.0	28.0	26.0
65	0650	82.00	86.0	62.0	28.0	26.0
68	0680	84.00	89.0	62.0	28.0	26.0
70	0700	87.00	89.0	65.0	28.0	26.0
75	0750	91.50	95.0	65.0	28.0	26.0
80	0800	99.50	99.0	70.0	28.0	26.0
85	0850	105.50	105.0	70.0	28.0	26.0
90	0900	110.50	111.0	70.0	28.0	26.0
95	0950	115.50	114.0	75.0	28.0	26.0
100	1000	120.00	118.0	75.0	28.0	26.0
105	1050	128.00	132.0	75.0	30.0	28.0
110	1100	133.00	137.0	80.0	30.0	28.0
115	1150	137.00	140.0	80.0	30.0	28.0
120	1200	144.00	147.0	85.0	30.0	28.0
125	1250	149.00	150.0	85.0	30.0	28.0
130	1300	154.00	156.0	85.0	30.0	28.0



TS 98

Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.

Temperature: -20°C to 200°C

Pressure: $\leq 1\text{MPa}$

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

Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L3	L4
20	0200	34	42	35	25	23
22	0220	36	44	35	25	23
24	0240	38	46	35	25	23
25	0250	39	47	35	25	23
28	0280	42	50	35	25	23
30	0300	44	52	35	25	23
32	0320	46	54	35	25	23
33	0330	47	55	35	25	23
35	0350	49	57	35	25	23
38	0380	54	64	38	27	25
40	0400	56	66	38	27	25
42	0420	58	68	38	27	25
43	0430	59	69	38	27	25
45	0450	61	71	38	27	25
48	0480	64	74	38	27	25
50	0500	66	76	39	27	25
52	0520	68	78	40	27	25
53	0530	69	79	40	27	25
55	0550	71	81	40	27	25
58	0580	76	89	41	30	28
60	0600	78	91	41	30	28
62	0620	80	93	41	30	28
63	0630	81	94	41	30	28
65	0650	83	96	41	30	28
68	0680	86	99	41	32	30
70	0700	90	101	42	32	30
75	0750	95	110	42	32	30
80	0800	100	115	42	33	31
85	0850	105	120	43	33	31
90	0900	110	125	45	33	31
95	0950	115	130	45	33	31
100	1000	120	135	45	33	31

主要技术参数

介质: 水, 油, 酸, 碱等中度腐蚀性化工介质

温度: -20°C to 180°C

压力: $\leq 1\text{MPa}$

转速: $\leq 20\text{m/s}$

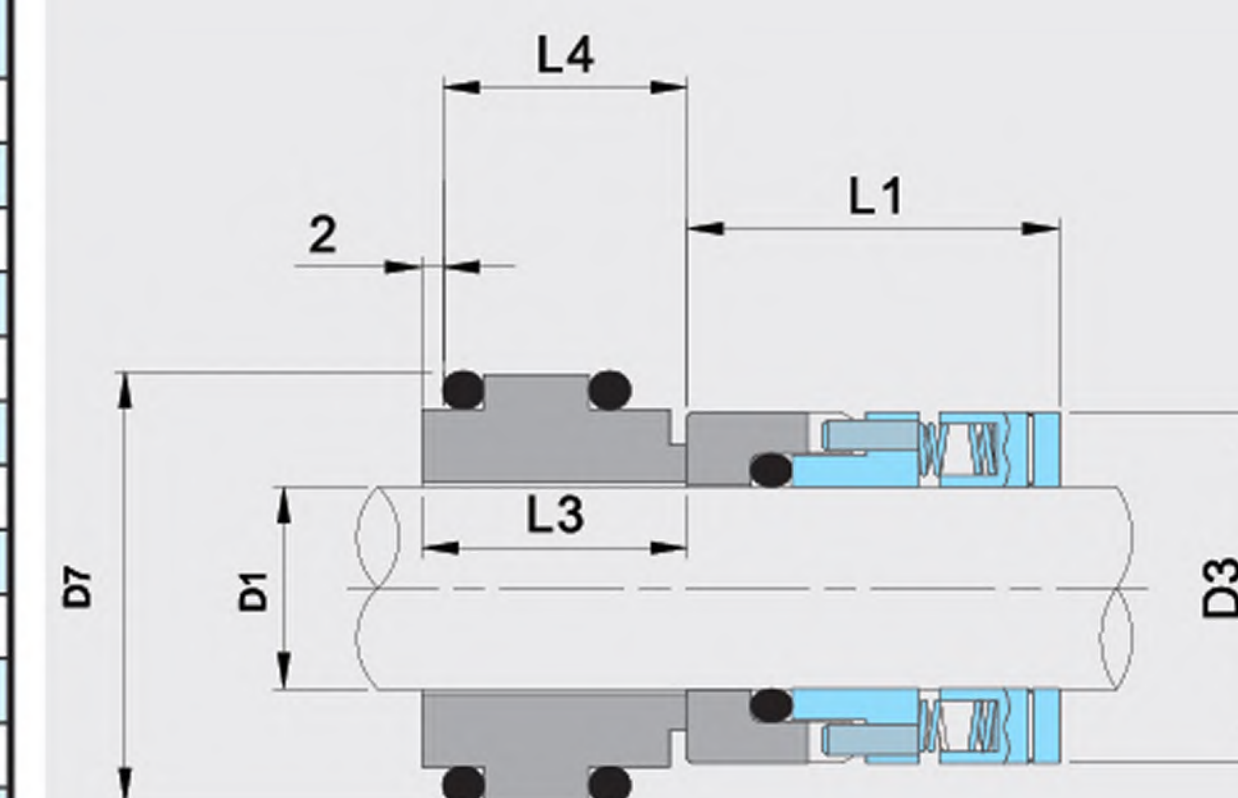
材料:

静环: Carbon/Sic/TC

动环: Sic/TC/SUS304

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.

Temperature: -20°C to 180°C

Pressure: $\leq 1\text{MPa}$

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

Materials

Stationary Ring: Carbon/Sic/TC

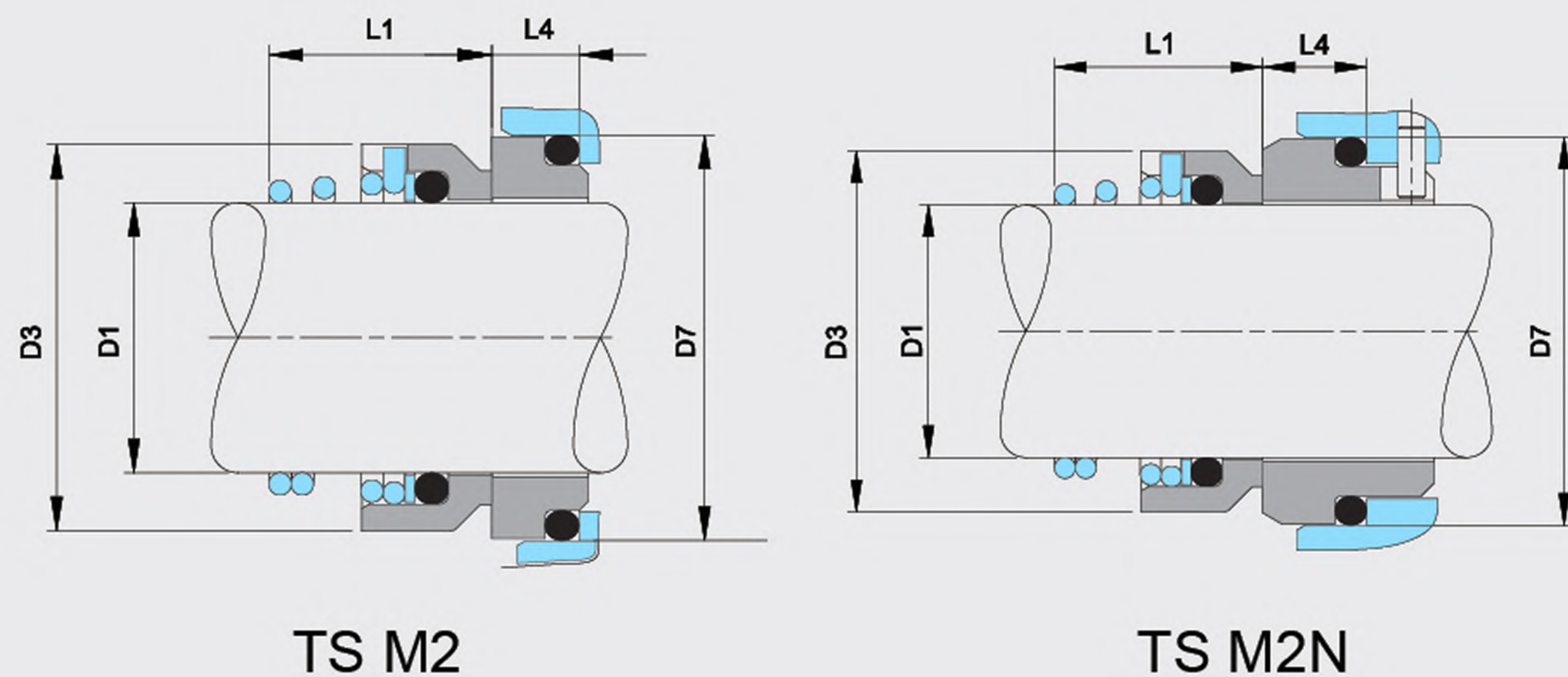
Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS RO



主要技术参数

介质: 水, 油, 弱碱等一般腐蚀性化工介质
 温度: -20°C to 180°C
 压力: $\leq 1\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:
 静环: Ceramic/Sic/TC
 动环: Carbon/Sic/TC
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢

TS M2 size chart

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	20.0	19.2	15.9	6.6
12	0120	22.0	21.6	16.0	5.6
14	0140	25.0	24.6	16.0	5.6
15	0150	27.0	24.6	17.4	6.6
16	0160	27.0	28.0	19.0	7.5
18	0180	30.0	30.0	20.5	8.0
20	0200	32.0	35.0	22.0	7.5
22	0220	35.0	35.0	23.5	7.5
24	0240	38.0	38.0	25.0	7.5
25	0250	40.0	38.0	26.5	7.5
28	0280	43.0	42.0	26.5	9.0
30	0300	45.0	45.0	25.0	10.5
32	0320	47.0	48.0	28.5	10.5
35	0350	50.0	52.0	28.5	11.0
38	0380	56.0	55.0	32.0	10.3

Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.
 Temperature: -20°C to 180°C
 Pressure: $\leq 1\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials
 Stationary Ring: Ceramic/Sic/TC
 Rotary Ring: Carbon/Sic/TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel

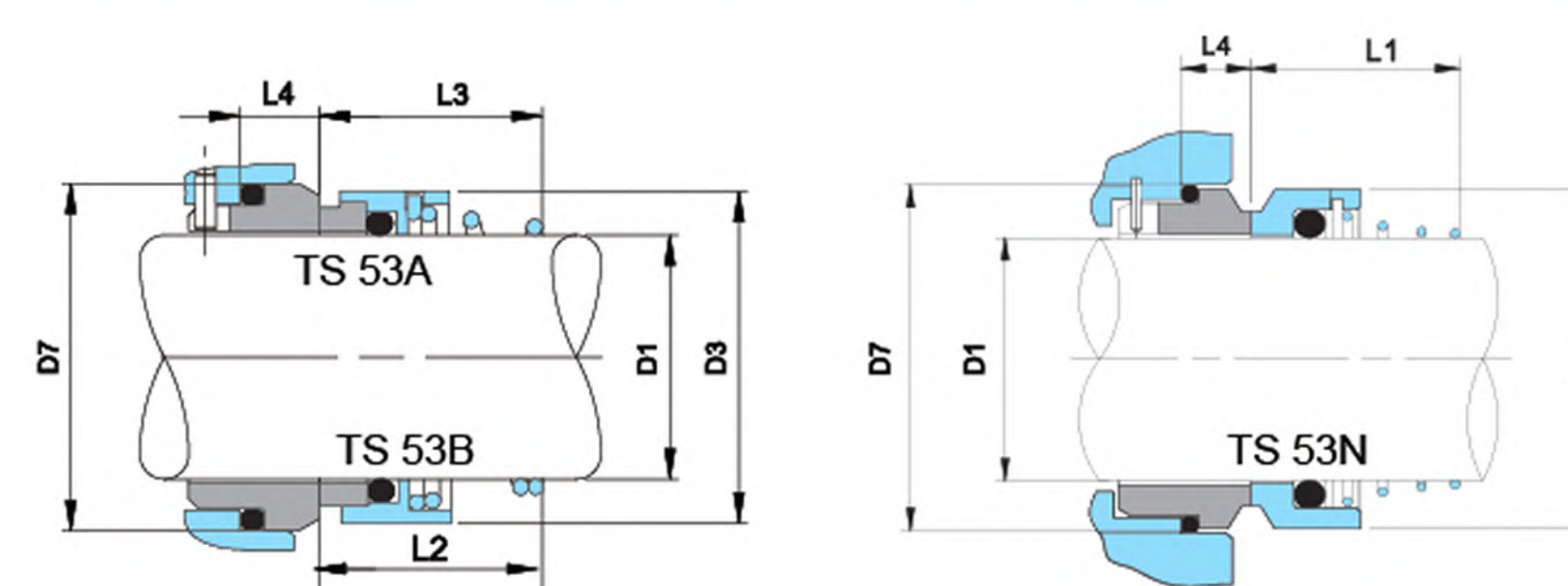


TS M2 TS M2N

TS M2N size chart

D1(mm)	Size Code	D3	D7	L1	L4
10	0100	20.0	21.0	17.5	10.0
12	0120	22.0	23.0	17.5	10.0
14	0140	25.0	25.0	17.5	10.0
16	0160	27.0	27.0	19.5	10.0
18	0180	30.0	33.0	20.5	11.5
20	0200	32.0	35.0	22.0	11.5
22	0220	35.0	37.0	23.5	11.5
24	0240	38.0	39.0	25.0	11.5
25	0250	40.0	40.0	26.5	11.5
28	0280	43.0	43.0	26.5	11.5
30	0300	45.0	45.0	25.0	11.5
32	0320	47.0	48.0	28.5	11.5
35	0350	50.0	50.0	28.5	11.5
38	0380	56.0	56.0	32.0	14.0

D1(mm)	Size Code	D2(53N)	D3(53A,53B)	L1(53N)	L2(53B)	L3(53A)	D7	L4
10	0100	19	20	15.5	-	16.9	21	10
12	0120	21	22	16	-	17.4	23	10
14	0140	23	24	16.5	16.5	17.4	25	10
16	0160	26	26	18	16.5	19.5	27	10
18	0180	29	31	19.5	18	20.5	33	11.5
20	0200	31	34	22	19	22	35	11.5
22	0220	33	36	21.5	20.5	23.5	37	11.5
24	0240	35	38	23.5	22	25	39	11.5
25	0250	36	39	26.5	23.5	26.5	40	11.5
28	0280	40	42	26.5	24.5	26.5	43	11.5
30	0300	43	44	26.5	24.5	25	45	11.5
32	0320	46	46	28.5	28	28.5	48	11.5
33	0330	47	47	28.5	-	-	48	11.5
35	0350	49	49	28.5	28	28.5	50	11.5
38	0380	53	54	33.5	31	32.2	56	14
40	0400	56	56	36	34	34.7	58	14
43	0430	59	59	38.5	-	-	61	14
45	0450	61	61	39.5	36.5	39.2	63	14
48	0480	64	64	46	42	44.7	66	14
50	0500	66	66	45	43	45.7	70	15
53	0530	69	69	47	-	-	73	15
55	0550	70	71	49	47	49	75	15
58	0580	76	78	55	50	52	78	15
60	0600	78	79	55	51	55	80	15
63	0630	83	83	55	-	-	83	15
65	0650	84	85	55	52	54.3	85	15
68	0680	88	88	55	52.7	55.3	90	18
70	0700	90	90	57	54	56.3	92	18
75	0750	98	98	62	54	56.3	97	18
80	0800	100	103	61.8	58	59.3	105	18.2



主要技术参数

污水泵及化工泵
 温度: -20°C to 180°C
 压力: $\leq 1\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:
 静环: Carbon/Ceramic/Sic/TC
 动环: Carbon/Sic/TC/SUS304
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢

Working Conditions

Pumps: Water pump, sewage pumps and chemical pumps, etc.
 Temperature: -20°C to 180°C
 Pressure: $\leq 1\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials
 Stationary Ring: Carbon/Ceramic/Sic/TC
 Rotary Ring: Carbon/Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



TS 53A 53B 53N



TS 1527

主要技术参数

介质:水, 油, 酸、碱等中度腐蚀性化工介质

温度: -20℃ to 180℃

压力: ≤1MPa

转速: ≤10m/s

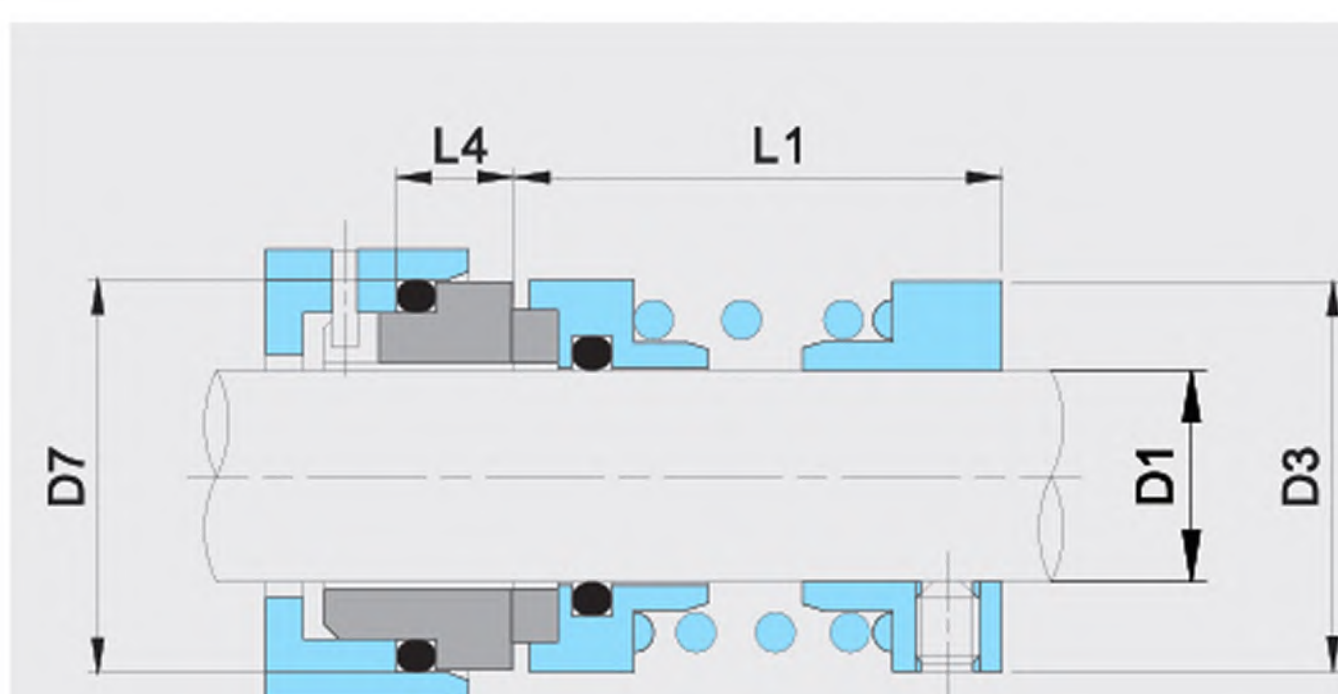
材料:

静环: Carbon/Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



D1(mm)	Size Code	D3	D7	L1	L4
18	0180	32	33	35	10
20	0200	34	35	35	10
22	0220	36	37	35	10
24	0240	38	39	40	10
25	0250	39	40	40	10
28	0280	42	43	40	10
30	0300	44	45	40	10
32	0320	46	48	45	10
33	0330	47	48	45	10
35	0350	49	50	45	10
38	0380	54	56	44	11
40	0400	56	58	44	11
43	0430	59	61	49	11
45	0450	61	63	49	11
48	0480	64	66	49	11
50	0500	66	70	47	13
53	0530	69	73	57	13
55	0550	71	75	57	13
58	0580	78	78	57	13
60	0600	80	80	57	13
63	0630	83	83	57	13
65	0650	85	85	67	13
68	0680	88	90	64.7	15.3
70	0700	90	92	64.7	15.3
75	0750	99	97	64.7	15.3
80	0800	104	105	74.3	15.7
85	0850	109	110	74.3	15.7
90	0900	114	115	74.3	15.7
95	0950	119	120	74.3	15.7
100	1000	124	125	74.3	15.7

Working Conditions

Mediums: Water, oil, acids, alkali, etc.

Temperature: -20℃ to 180℃

Pressure: ≤1MPa

Speed: ≤10m/s

Materials

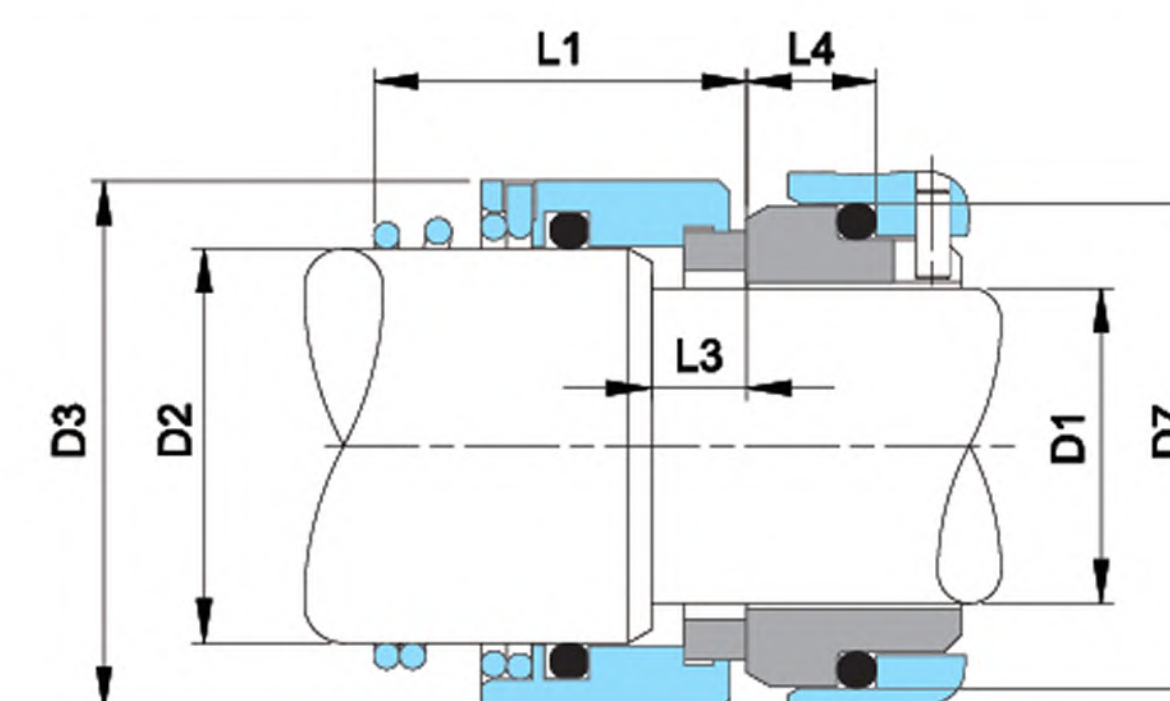
Stationary Ring: Carbon/Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D2	D3	D7	L1	L4	L3
10	0100	14	24	21	25.7	10	8
12	0120	16	26	23	26.7	10	8
14	0140	18	31	25	29.7	10	8
16	0160	20	34	27	31.2	10	8
18	0180	22	36	33	32.7	11.5	8.5
20	0200	24	38	35	32.7	11.5	8.5
22	0220	26	40	37	32.7	11.5	8.5
24	0240	28	42	39	32.7	11.5	8.5
25	0250	30	44	40	33.7	11.5	8.5
28	0280	33	47	43	35.7	11.5	8.5
30	0300	35	49	45	35.7	11.5	8.5
32	0320	38	54	48	39.7	11.5	8.5
33	0330	38	54	48	39.7	11.5	8.5
35	0350	40	56	50	43.7	11.5	8.5
38	0380	43	59	56	46.2	14	9
40	0400	45	61	58	48.2	14	9
43	0430	48	64	61	51.2	14	9
45	0450	50	66	63	55.2	14	9
48	0480	53	69	66	55.2	14	9
50	0500	55	71	70	58.2	15	10
53	0530	58	78	73	60.2	15	10
55	0550	60	79	75	60.2	15	10
58	0580	63	83	78	60.2	15	10
60	0600	65	85	80	60.2	15	10
63	0630	68	88	83	60.2	15	10
65	0650	70	90	85	61.2	15	10
70	0700	75	98	92	63.2	18	10
75	0750	80	103	97	68.2	18	10
80	0800	85	109	105	68.2	18.2	9.8



Working Conditions

Pumps: Water pumps, sewage pumps, chemical pumps, etc.

Temperature: -20℃ to 180℃

Pressure: ≤2.5MPa

Speed: ≤10m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS H12N

主要技术参数

主要用于: 清水泵、污水泵及化工泵

温度: -20℃ to 180℃

压力: ≤2.5MPa

转速: ≤10m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 8-1

主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -30°C to 200°C

压力: ≤1.7MPa

转速: ≤25m/s

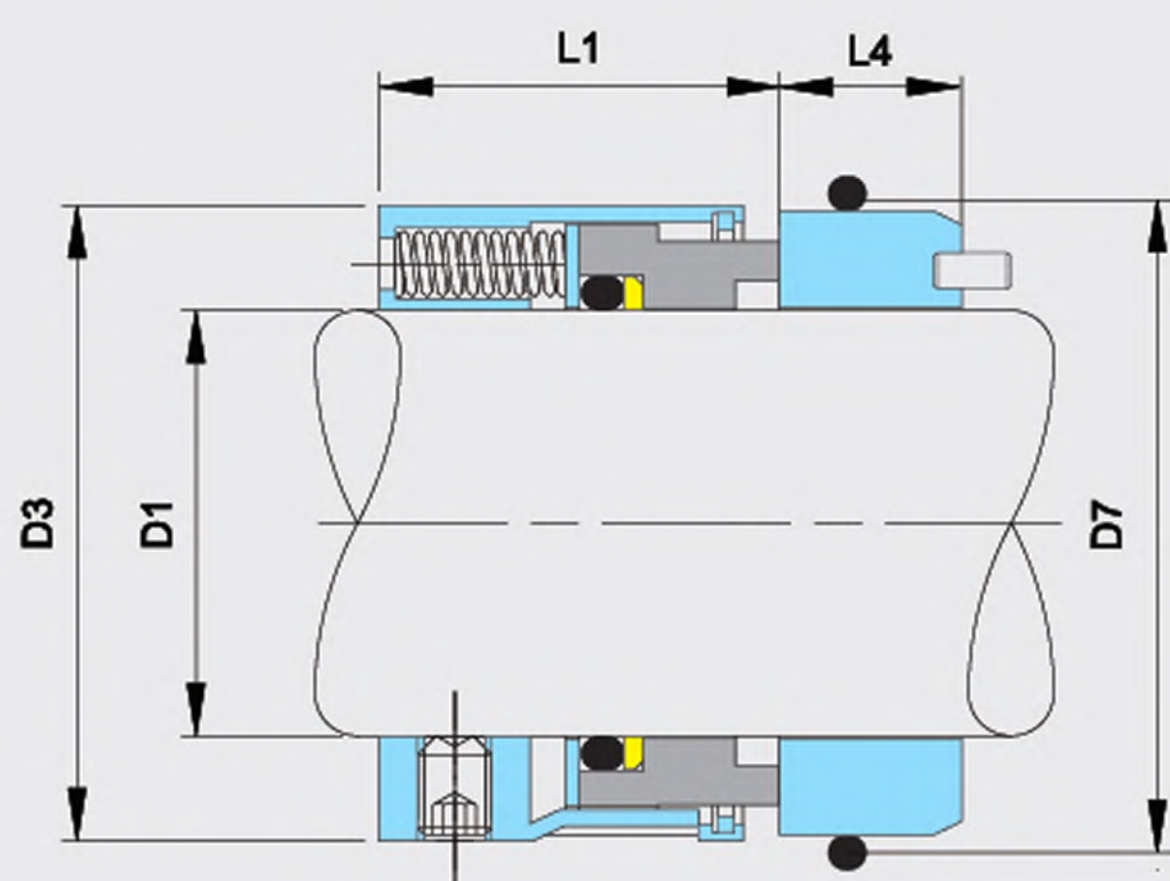
材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



Working Conditions

Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -30°C to 200°C

Pressure: ≤1.7MPa

Speed: ≤25m/s

Materials

Stationary Ring: Ceramic/Sic/TC

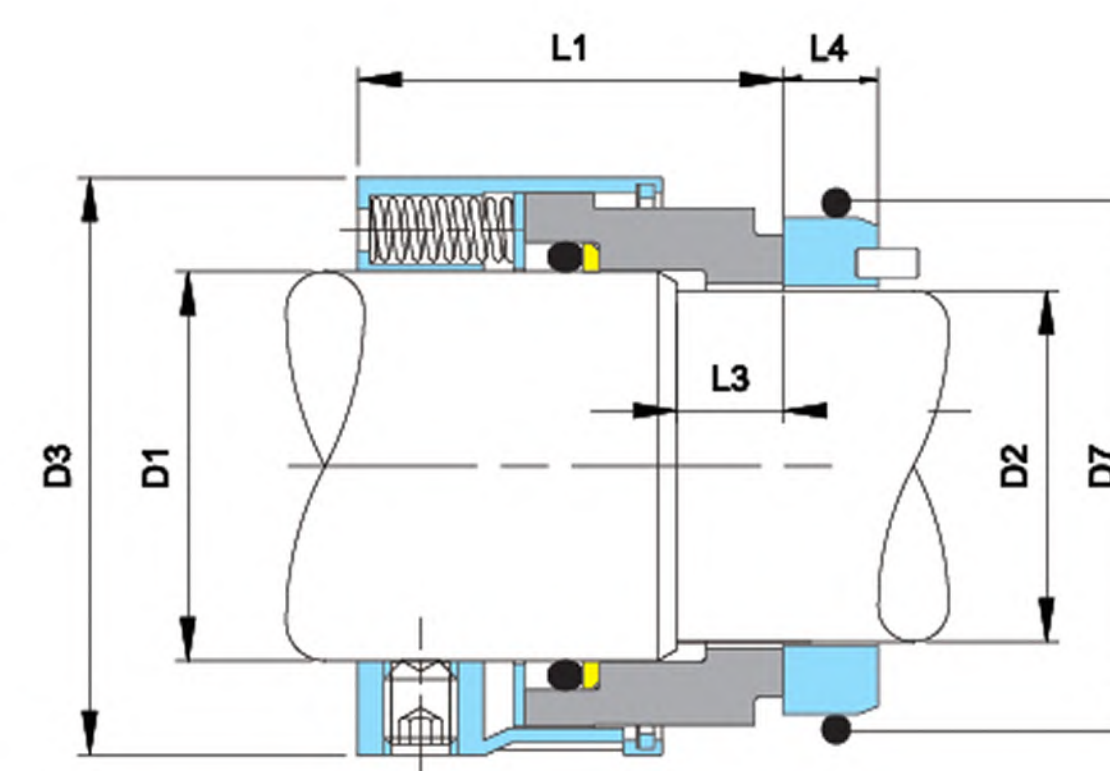
Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(inch)	Size Code	D3	D7	L1	L4
0.500	0127	26.70	25.60	21.0	7.9
0.625	0158	30.70	31.95	19.0	10.3
0.750	0191	34.00	35.12	22.2	10.3
0.875	0222	37.20	38.30	24.0	10.3
1.000	0254	40.30	41.48	25.0	11.15
1.125	0286	43.50	44.65	27.0	11.15
1.250	0317	48.30	47.83	27.0	11.15
1.375	0349	51.50	51.00	29.0	11.15
1.500	0381	54.60	54.18	29.0	11.15
1.625	0412	61.00	60.53	35.0	12.75
1.750	0444	64.20	63.70	35.0	12.75
1.875	0476	67.30	66.88	35.0	12.75
2.000	0508	70.50	70.05	35.0	12.75
2.125	0539	76.90	76.40	43.0	14.33
2.250	0571	80.00	79.58	43.0	14.33
2.375	0603	83.20	82.75	43.0	14.33
2.500	0635	86.40	85.93	43.0	14.33
2.625	0666	89.60	85.93	43.0	15.93
2.750	0698	92.70	89.10	43.0	15.93
2.875	0730	95.90	95.45	43.0	15.93
3.000	0762	97.50	98.63	43.0	15.93
3.125	0793	100.70	101.80	43.0	19.84
3.250	0825	105.40	104.98	43.0	19.84
3.375	0857	108.60	108.15	43.0	19.84
3.500	0889	111.80	111.13	43.0	19.84
3.625	0921	115.00	114.35	43.0	19.84
3.750	0953	118.10	117.68	43.0	19.84
3.875	0984	121.30	120.85	43.0	19.84
4.000	1016	124.50	124.03	43.0	19.84

D1(inch)	Size Code	D1	D2	D3	L1	L3	D7	L4
0.625	0158	15.87	12.7	30.80	27.0	7.5	25.60	7.90
0.750	0191	19.05	15.9	34.00	30.0	7.8	31.95	10.30
0.875	0222	22.22	19.1	37.20	32.0	8.0	35.12	10.30
1.000	0254	25.40	22.2	40.30	33.0	8.0	38.30	10.30
1.125	0286	28.58	25.4	43.40	35.0	7.9	41.48	11.15
1.250	0317	31.75	28.6	48.30	35.0	7.9	44.65	11.15
1.375	0349	34.93	28.6	51.30	37.0	8.7	44.65	11.15
1.500	0381	38.10	31.8	54.50	37.0	8.7	47.83	11.15
1.625	0412	41.28	34.9	60.80	45.0	8.7	51.00	11.15
1.750	0444	44.45	38.1	64.00	45.0	9.5	54.18	11.15
1.875	0476	47.62	41.3	67.20	45.0	9.5	60.53	12.75
2.000	0508	50.80	44.5	70.40	45.0	9.5	63.70	12.75
2.125	0539	53.98	47.6	76.70	52.0	11.1	66.88	12.75
2.250	0571	57.15	50.8	79.90	52.0	11.1	70.05	12.75
2.375	0603	60.33	54.0	83.10	52.0	11.1	76.40	14.33
2.500	0635	63.50	57.2	86.20	52.0	11.1	79.58	14.33
2.625	0666	66.68	60.3	89.40	52.0	11.1	82.75	14.33
2.750	0698	69.85	63.5	92.60	52.0	11.1	85.93	14.33
2.875	0730	73.03	66.7	95.80	52.0	11.1	85.96	15.93
3.000	0762	76.20	69.9	97.30	52.0	11.1	89.10	15.93
3.125	0793	79.38	73.0	100.50	52.0	11.1	95.45	15.93
3.250	0825	82.55	76.2	105.30	52.0	14.3	98.63	19.84
3.375	0857	85.73	79.4	108.50	52.0	14.3	101.80	19.84
3.500	0889	88.90	82.6	111.60	52.0	14.3	104.98	19.84
3.625	0921	92.08	85.7	114.80	52.0	14.3	108.15	19.84
3.750	0953	95.25	88.9	118.00	52.0	14.3	111.33	19.84
3.875	0984	98.43	92.1	121.20	52.0	14.3	114.50	19.84
4.000	1016	101.60	95.3	124.30	52.0	14.3	117.68	19.84



主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -30°C to 200°C

压力: ≤2.5MPa

转速: ≤25m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -30°C to 200°C

Pressure: ≤2.5MPa

Speed: ≤25m/s

Materials

Stationary Ring: Ceramic/Sic/TC

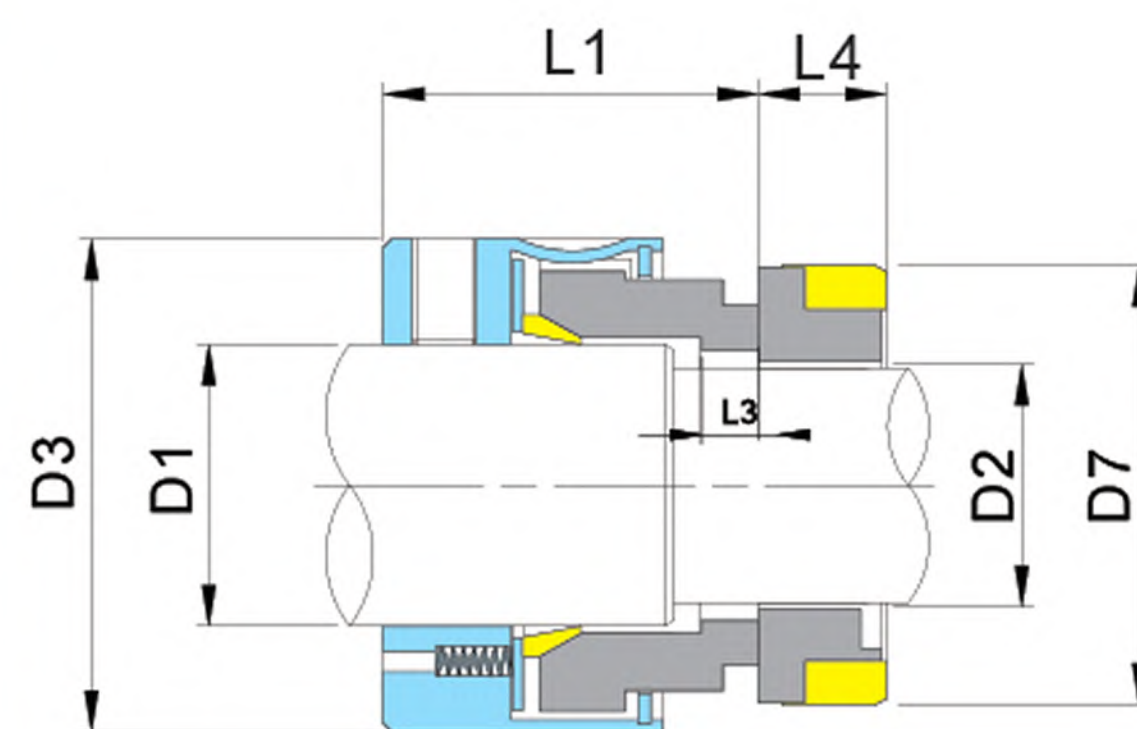
Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 8B1



主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -30°C to 200°C

压力: ≤2.5MPa

转速: ≤25m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: PTFE

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -30°C to 200°C

Pressure: ≤2.5MPa

Speed: ≤25m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: PTFE

Spring and Metal Part: Stainless Steel



TS 109B

D1(inch)	Size Code	D1	D2	D3	D7	L1	L4	L3
0.625	0158	15.87	12.7	30.7	25.40	27	7.95	4.8
0.750	0191	19.05	15.9	34.0	31.75	30	10.3	4.8
0.875	0222	22.22	19.1	37.2	34.93	32	10.3	6.4
1.000	0254	25.40	22.2	40.3	38.10	33	10.3	6.4
1.125	0286	28.58	25.4	43.5	41.28	35	11.1	7.9
1.250	0317	31.75	28.6	48.3	44.45	35	11.1	7.9
1.375	0349	34.93	28.6	51.5	44.45	37	11.1	8.7
1.500	0381	38.10	31.8	54.6	47.63	37	11.1	8.7
1.625	0412	41.28	34.9	61.0	50.80	45	11.1	8.7
1.750	0444	44.45	38.1	64.2	53.98	45	11.1	9.5
1.875	0476	47.62	41.3	67.3	60.33	45	12.7	9.5
2.000	0508	50.80	44.5	70.5	63.50	45	12.7	9.5
2.125	0539	53.98	47.6	76.9	66.68	52	12.7	11.1
2.250	0571	57.15	50.8	80.0	69.86	52	12.7	11.1
2.375	0603	60.33	54.0	83.2	76.20	52	14.3	11.1
2.500	0635	63.50	57.2	86.4	79.38	52	14.3	11.1
2.625	0666	66.68	60.3	89.6	82.55	52	14.3	11.1
2.750	0698	69.85	63.5	92.7	85.73	52	14.3	11.1
2.875	0730	73.03	66.7	95.9	85.73	52	14.3	11.1
3.000	0762	76.20	69.9	97.5	88.90	52	15.9	11.1
3.125	0794	79.38	73.0	100.7	95.25	52	15.9	11.1
3.250	0825	82.55	76.2	105.4	98.43	52	15.9	14.3
3.375	0857	85.73	79.4	108.6	101.60	52	19.8	14.3
3.500	0889	88.90	82.6	111.8	104.78	52	19.8	14.3
3.625	0921	92.08	85.7	115.0	107.95	52	19.8	14.3
3.750	0953	95.25	88.9	118.1	111.13	52	19.8	14.3
3.875	0984	98.43	92.1	121.3	114.30	52	19.8	14.3
4.000	1016	101.60	95.3	124.5	117.48	52	19.8	14.3

D1(mm)	Size Code	D2	D3	D7	L1	L4	L3
14	0140	18	32	25	30.7	12	6
16	0160	20	34	27	30.7	12	6
18	0180	22	36	33	31.7	13.5	6.5
20	0200	24	38	35	31.7	13.5	6.5
22	0220	26	40	37	31.7	13.5	6.5
24	0240	28	42	39	34.4	13.5	6.5
25	0250	30	44	40	34.7	13	7
28	0280	38	47	43	37.7	12.5	7.5
30	0300	35	49	45	38.2	12	8
32	0320	38	54	48	38.2	12	8
33	0330	38	54	48	38.2	12	8
35	0350	40	56	50	38.2	12	8
38	0380	43	59	56	39.7	13	10
40	0400	45	61	58	39.7	13	10
43	0430	48	64	61	39.7	13	10
45	0450	50	66	63	39.7	13	10
48	0480	53	69	66	39.7	13	10
50	0500	55	71	70	44.2	13.5	11.5
53	0530	58	78	73	44.2	13.5	11.5
55	0550	60	80	75	44.2	13.5	11.5
58	0580	63	83	78	49.2	13.5	11.5
60	0600	65	85	80	49.2	13.5	11.5
63	0630	68	88	83	49.2	13.5	11.5
65	0650	70	90	85	49.2	13.5	11.5
70	0700	75	95	92	55.7	14.5	13.5
75	0750	80	104	97	55.7	14.5	13.5
80	0800	85	109	105	55.2	15	13
85	0850	90	114	110	60.2	15	13
90	0900	95	119	115	60.2	15	13
95	0950	100	124	120	60.2	15	13
100	1000	105	129	125	60.2	15	13

主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -30°C to 200°C

压力: ≤2.5MPa

转速: ≤25m/s

材料:

静环: Ceramic/Sic/TC

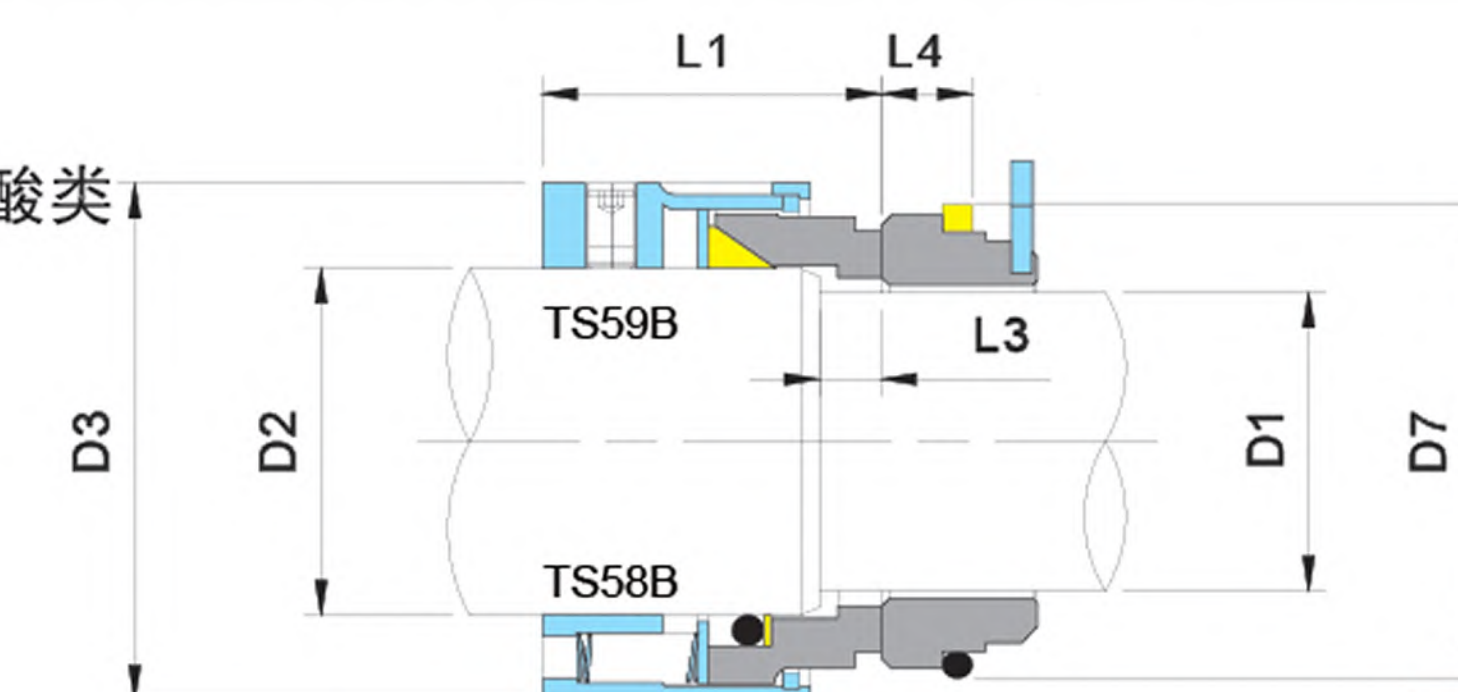
动环: Carbon/Sic/TC

辅助密封: PTFE

弹簧及金属件: 不锈钢



TS 59B TS 58B



Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -30°C to 200°C

Pressure: ≤2.5MPa

Speed: ≤25m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: PTFE

Spring and Metal Part: Stainless Steel

Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -30°C to 200°C

Pressure: $\leq 1.7\text{MPa}$

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

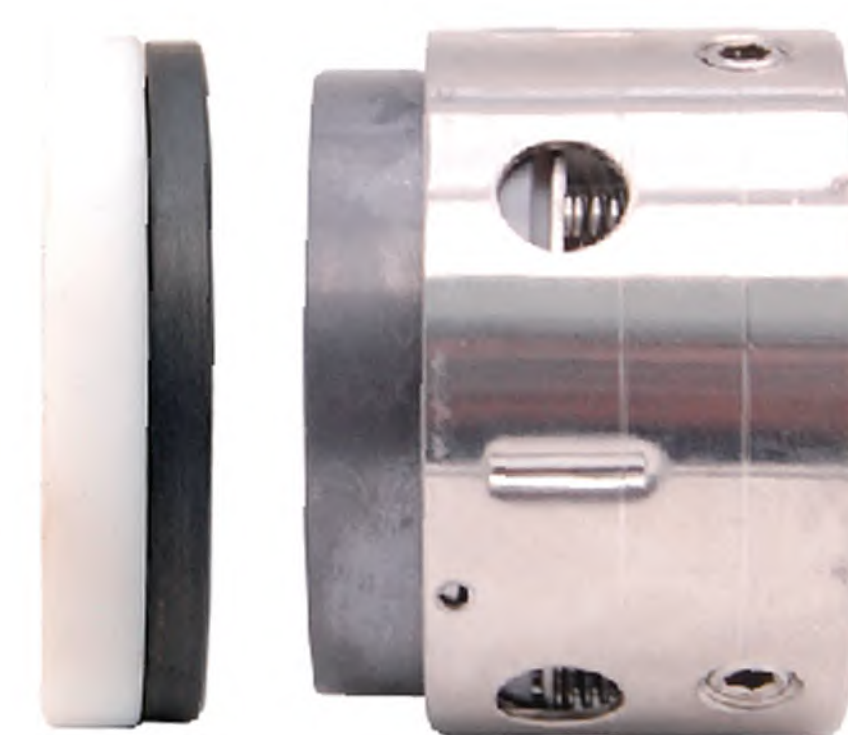
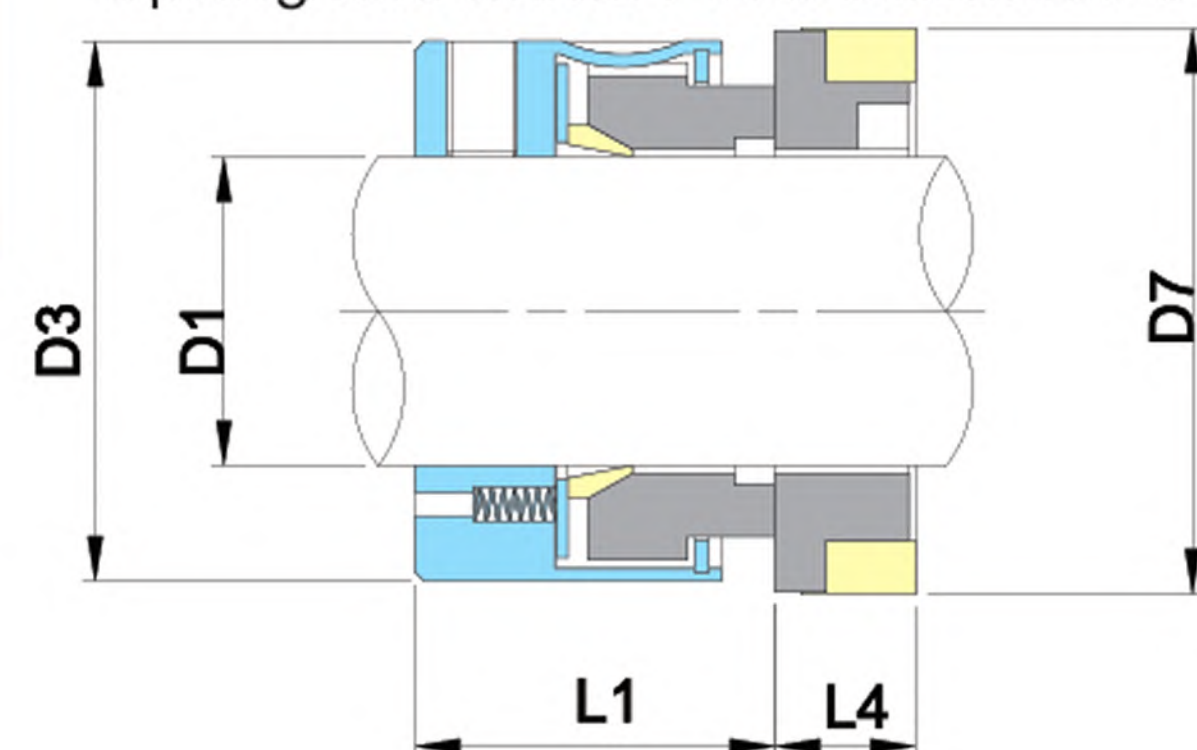
Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: PTFE

Spring and Metal Part: Stainless Steel



TS 109

主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -30°C to 200°C

压力: $\leq 1.7\text{MPa}$

转速: $\leq 25\text{m/s}$

材料:

静环: Ceramic/Sic/TC

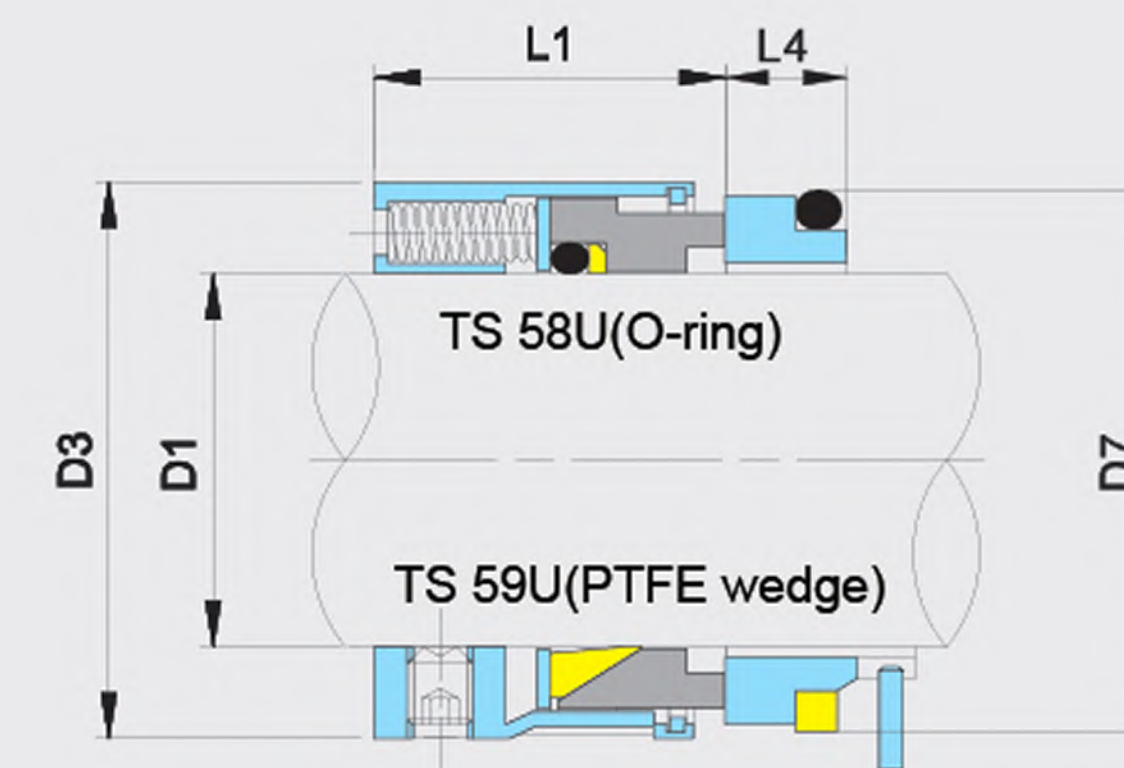
动环: Carbon/Sic/TC

辅助密封: PTFE

弹簧及金属件: 不锈钢

D1(inch)	Size Code	D3	D7	L1	L4
0.500	0127	26.7	25.40	20.6	8.0
0.625	0158	30.7	31.75	19.0	10.3
0.750	0191	34.0	34.93	22.2	10.3
0.875	0222	37.2	38.10	23.8	10.3
1.000	0254	40.3	41.28	25.4	11.1
1.125	0285	43.5	44.45	27.0	11.1
1.250	0317	48.3	47.63	27.0	11.0
1.375	0349	51.5	50.80	28.6	11.1
1.500	0381	54.6	53.98	28.6	11.1
1.625	0412	61.0	60.33	35.0	12.7
1.750	0444	64.2	63.50	35.0	12.7
1.875	0476	67.3	66.68	35.0	12.7
2.000	0508	70.5	69.85	35.0	12.7
2.125	0539	76.9	76.20	43.0	14.3
2.250	0571	80.0	79.38	43.0	14.3
2.375	0603	83.2	82.55	43.0	14.3
2.500	0635	86.4	85.73	43.0	14.6
2.625	0666	89.6	85.73	43.0	15.9
2.750	0698	92.7	88.90	43.0	15.9

D1(inch)	Size Code	D3	D7	L1	L4
2.875	0730	95.9	85.25	43.0	15.9
3.000	0762	97.5	98.43	43.0	15.9
3.125	0793	100.7	101.60	43.0	19.8
3.250	0825	105.4	104.78	43.0	19.8
3.375	0857	108.6	107.95	43.0	19.8
3.500	0889	111.8	111.13	43.0	19.8
3.625	0920	115.0	114.30	43.0	19.8
3.750	0952	118.1	117.48	43.0	19.8
3.875	0984	121.3	120.65	43.0	19.8
4.000	1016	124.5	123.83	43.0	19.8
4.125	1047	127.7	130.18	43.0	19.8
4.250	1079	130.8	133.35	43.0	19.8
4.375	1111	134.0	136.53	43.0	19.8
4.500	1143	137.2	139.70	43.0	19.8
4.625	1175	149.9	142.88	51.0	19.8
4.750	1206	153.1	146.05	51.0	19.8
4.875	1238	156.2	149.23	51.0	19.8
5.000	1270	159.4	152.40	51.0	19.8



Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.

Temperature: -20°C to 200°C

Pressure: $\leq 1.7\text{MPa}$

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

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: PTFE

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	D7	L1	L4
16	0160	26.0	27.0	23.0	12.0
18	0180	32.0	33.0	24.0	13.5
20	0200	34.0	35.0	24.0	13.5
22	0220	36.0	37.0	24.0	13.5
24	0240	38.0	39.0	26.7	13.3
25	0250	39.0	40.0	27.0	13.0
28	0280	42.0	43.0	30.0	12.5
30	0300	44.0	45.0	30.5	12.0
32	0320	46.0	48.0	30.5	12.0
33	0330	47.0	48.0	30.5	12.0
35	0350	49.0	50.0	30.5	12.0
38	0380	54.0	56.0	32.0	13.0
40	0400	56.0	58.0	32.0	13.0
43	0430	59.0	61.0	32.0	13.0
45	0450	61.0	63.0	32.0	13.0
48	0480	64.0	66.0	32.0	13.0
50	0500	66.0	70.0	34.0	13.5
53	0530	69.0	73.0	34.0	13.5
55	0550	71.0	75.0	34.0	13.5
58	0580	78.0	78.0	39.0	13.5
60	0600	80.0	80.0	39.0	13.5
63	0630	83.0	83.0	39.0	13.5
65	0650	85.0	85.0	39.0	13.5
68	0680	88.0	90.0	39.0	13.5
70	0700	90.0	92.0	45.5	14.5
75	0750	95.0	97.0	45.5	14.5
80	0800	104.0	105.0	45.0	15.0
85	0850	109.0	110.0	45.0	15.0
90	0900	114.0	115.0	50.0	15.0
95	0950	119.0	120.0	50.0	15.0
100	1000	124.0	125.0	50.0	15.0



TS 59U TS 58U

主要技术参数

介质:石油制品、化工溶剂、中弱腐蚀酸类

温度: -20°C to 200°C

压力: $\leq 1.7\text{MPa}$

转速: $\leq 25\text{m/s}$

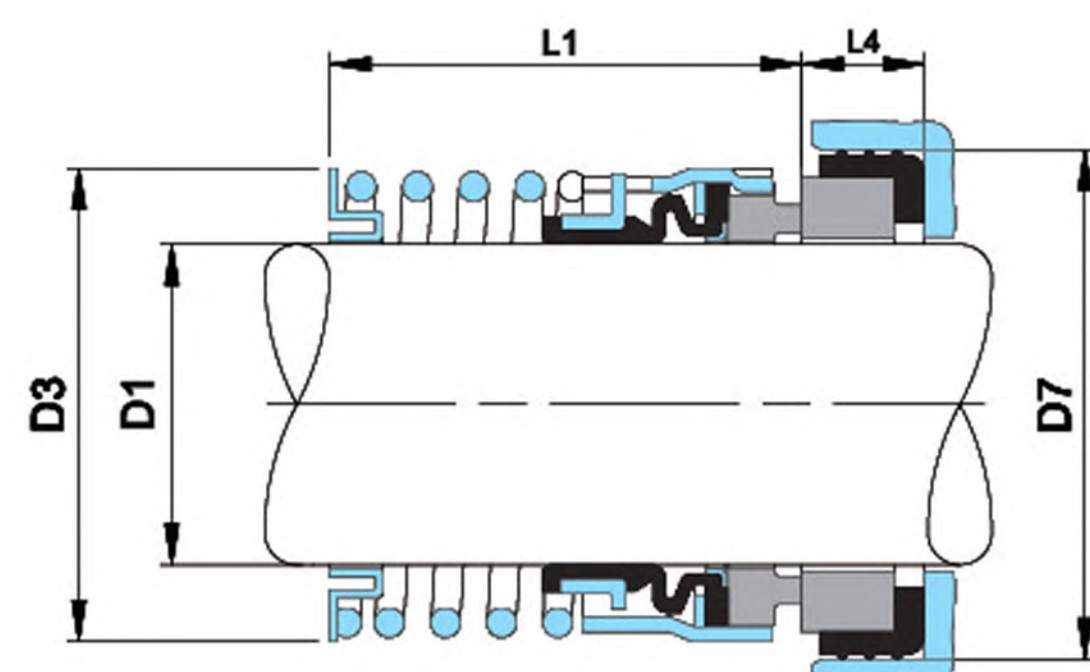
材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: PTFE

弹簧及金属件: 不锈钢



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: $\leq 1.4\text{MPa}$

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

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.4\text{MPa}$

转速: $\leq 15\text{m/s}$

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

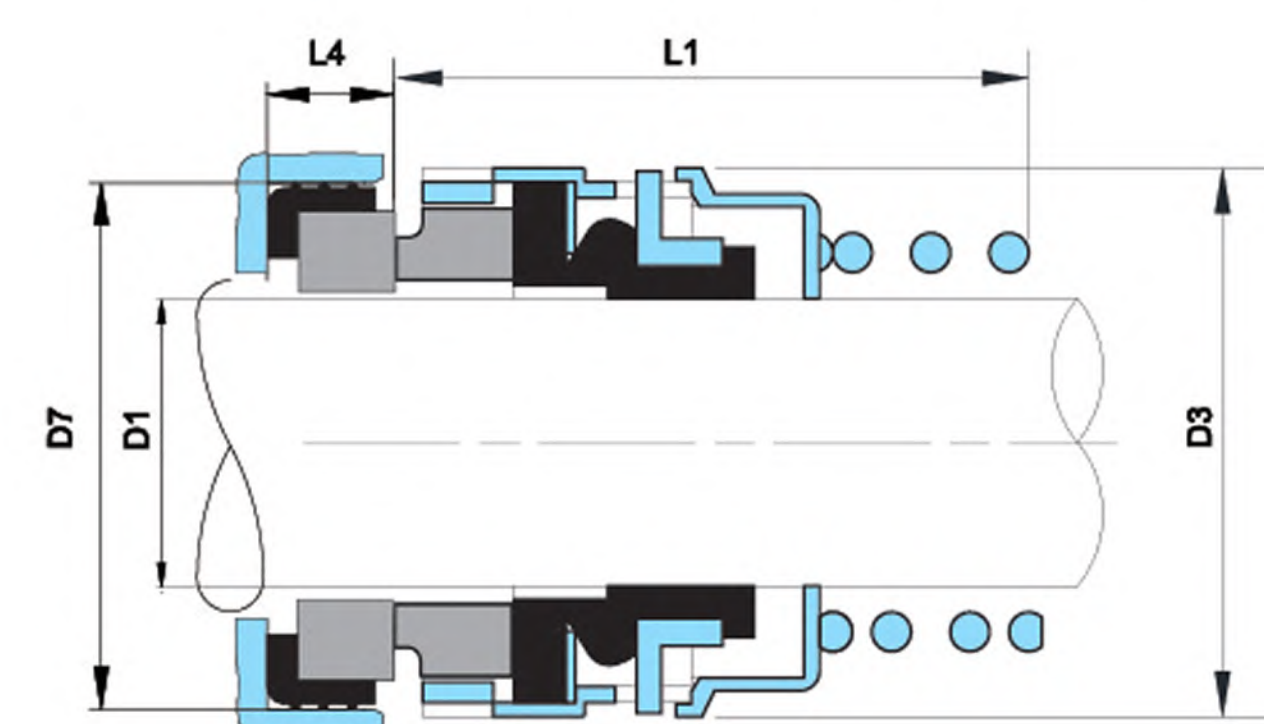
弹簧及金属件: 不锈钢



TS 1

D1(inch)	Size Code	D1(mm)	Size Code	D3	D7	L1	L4
0.500	0127	12	0120	23.80	25.40	30.16	7.93
		14	0140	27.76	31.75	33.32	10.30
0.625	0158	16	0160	27.76	31.75	33.32	10.30
0.750	0191	18	0180	30.94	34.93	33.32	10.30
		20	0200	34.11	38.10	34.93	10.30
0.875	0222	22	0220	34.11	38.10	34.93	10.30
		24	0240	38.10	41.28	39.67	11.10
1.000	0254	25	0250	38.10	41.28	39.67	11.10
1.125	0286	28	0280	41.28	44.44	41.28	11.10
		30	0300	46.02	47.63	41.28	11.10
1.250	0317	32	0320	46.02	47.63	41.28	11.10
		33	0330	48.68	50.80	42.85	11.10
1.375	0349	35	0350	48.68	50.80	42.85	11.10
1.500	0381	38	0380	51.85	53.98	42.85	11.10
1.625	0412	40	0400	58.10	60.38	50.80	12.70
		43	0430	61.27	63.50	50.80	12.70
1.750	0444	45	0450	61.27	63.50	50.80	12.70
1.875	0476	48	0480	64.44	66.68	53.98	12.70
2.000	0508	50	0500	67.21	69.85	53.98	12.70
2.125	0539	53	0530	72.02	76.20	60.33	14.28
2.250	0571	55	0550	75.30	79.38	60.33	14.28
2.375	0603	60	0600	78.30	82.55	63.50	14.28
2.500	0635	63	0630	81.54	85.73	63.50	14.28
2.625	0666	65	0650	86.22	85.73	69.85	15.90
2.750	0698	70	0700	89.40	88.90	73.03	15.90
2.875	0730	73	0730	92.57	95.25	73.03	15.90
3.000	0762	75	0750	95.75	98.43	73.03	15.90

D1(inch)	Size Code	D1(mm)	Size Code	D3	D7	L1	L4
0.500	0127	12	0120	25.00	27.79	44.00	8.74
		14	0140	29.00	30.95	44.00	10.32
0.625	0158	16	0160	29.00	30.95	44.00	10.32
0.750	0191	18	0180	32.00	34.15	44.00	10.32
		20	0200	33.00	35.70	44.00	10.32
0.875	0222	22	0220	35.00	37.30	44.00	10.32
		24	0240	38.00	40.50	44.00	10.32
1.000	0254	25	0250	38.00	40.50	44.00	10.32
1.125	0286	28	0280	46.00	47.63	60.00	11.99
		30	0300	49.00	50.80	60.00	11.99
1.250	0317	32	0320	49.00	50.80	60.00	11.99
		33	0330	52.00	53.98	60.00	11.99
1.375	0349	35	0350	52.00	53.98	60.00	11.99
1.500	0381	38	0380	56.00	57.15	60.00	11.99
1.625	0412	40	0400	59.00	60.35	60.00	11.99
		43	0430	62.00	63.50	71.00	11.99
1.750	0444	45	0450	62.00	63.50	71.00	11.99
1.875	0476	48	0480	65.00	66.70	71.00	11.99
2.000	0508	50	0500	68.00	69.85	71.00	13.50
2.125	0539	53	0530	71.00	73.05	71.00	13.50
2.250	0571	55	0550	75.00	76.20	71.00	13.50
2.375	0603	60	0600	78.00	79.40	71.00	13.50
2.500	0635	63	0630	81.00	82.55	71.00	13.50
2.625	0666	65	0650	86.00	92.10	71.00	15.90
2.750	0698	70	0700	89.00	95.25	70.00	15.90
2.875	0730	73	0730	92.00	98.45	73.00	15.90
3.000	0762	75	0750	95.00	101.65	73.00	15.90



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: $\leq 1.4\text{MPa}$

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

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.4\text{MPa}$

转速: $\leq 15\text{m/s}$

材料:

静环: Ceramic/Sic/TC

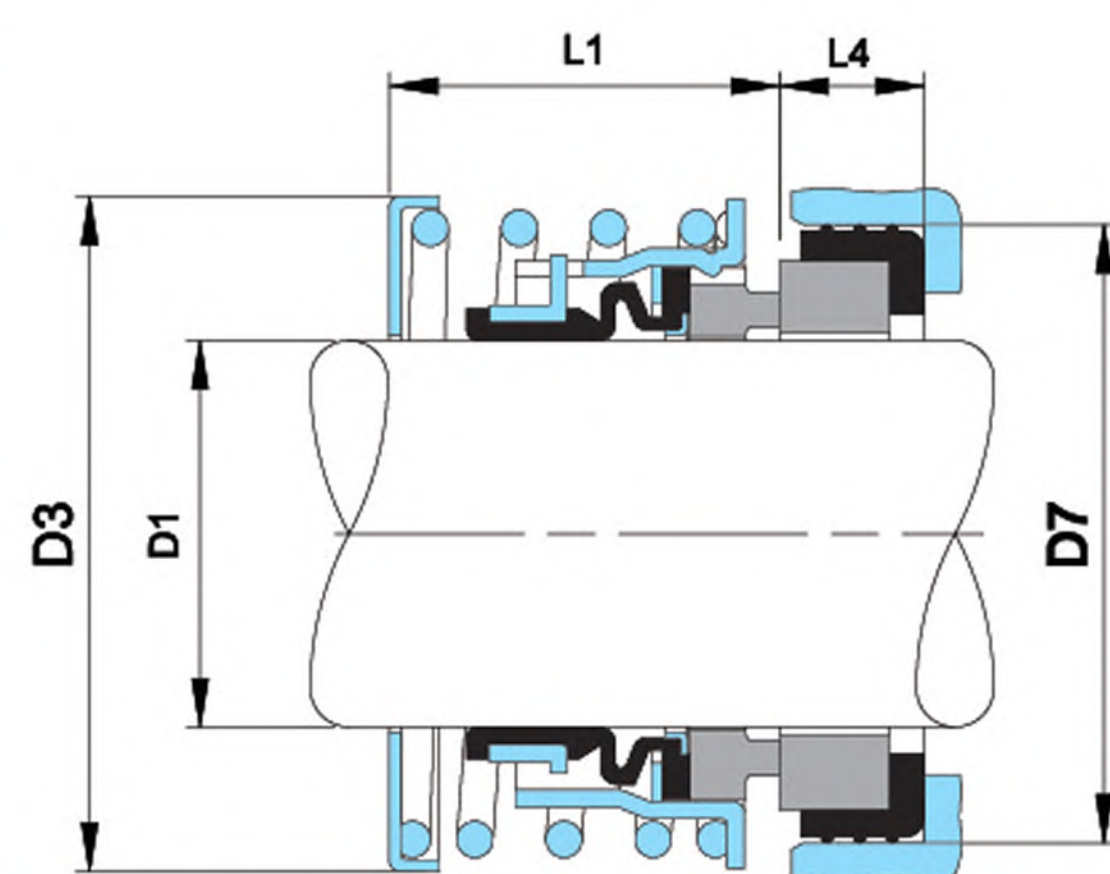
动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 1A



主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质
 温度: -20°C to 120°C
 压力: $\leq 1.4\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:
 静环: Ceramic/Sic/TC
 动环: Carbon/Sic/TC
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢

Working Conditions

Mediums: Water, oil and weakly-corrosive
 mediums
 Temperature: -20°C to 120°C
 Pressure: $\leq 1.4\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

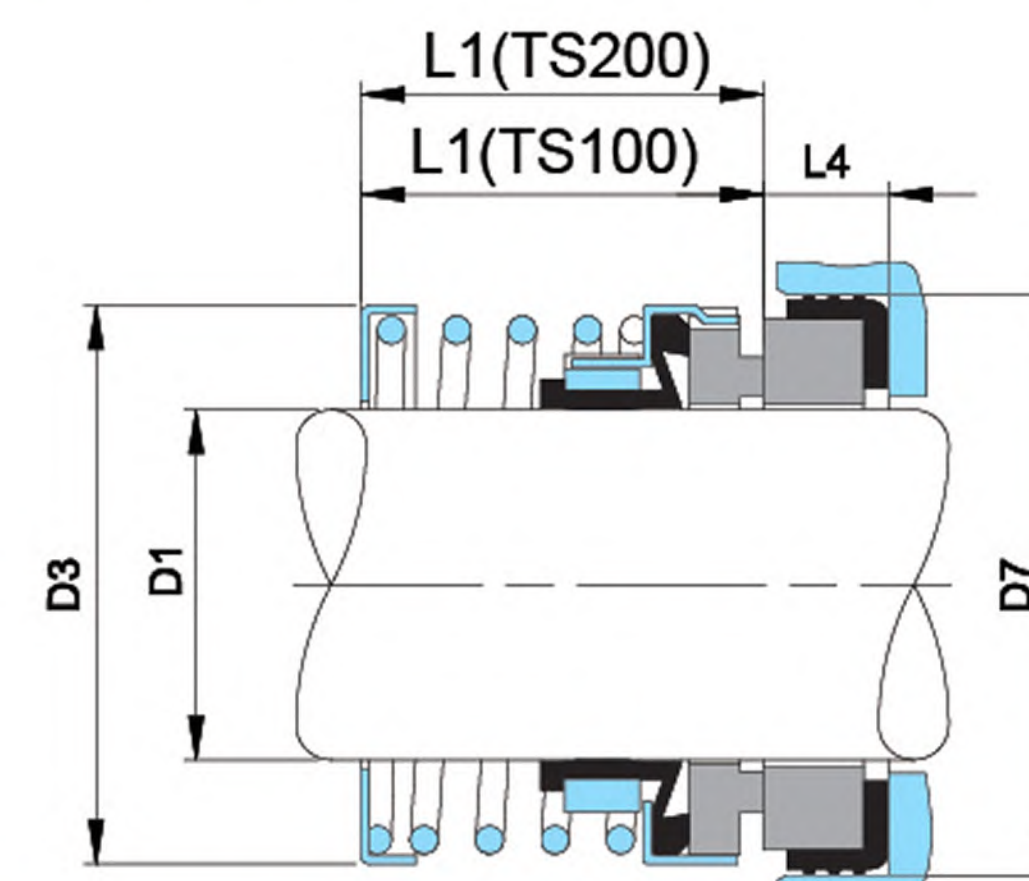
Stationary Ring: Ceramic/Sic/TC
 Rotary Ring : Carbon/Sic/TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



TS 2

D1(inch)	Size Code	D1(mm)	Size Code	D3	D7	L1	L4
0.500	0127	12	0120	30.14	25.40	20.64	7.93
		14	0140	33.32	31.75	22.23	10.30
0.625	0158	16	0160	33.32	31.75	22.23	10.30
0.750	0191	18	0180	36.50	34.93	22.23	10.30
		20	0200	39.67	38.10	23.80	10.30
0.875	0222	22	0220	39.67	38.10	23.80	10.30
		24	0240	45.50	41.28	25.40	11.10
1.000	0254	25	0250	45.50	41.28	25.40	11.10
1.125	0286	28	0280	48.50	44.44	26.97	11.10
		30	0300	52.37	47.63	26.97	11.10
1.250	0317	32	0320	52.37	47.63	26.97	11.10
		33	0330	56.00	50.80	28.58	11.10
1.375	0349	35	0350	56.00	50.80	28.58	11.10
1.500	0381	38	0380	59.20	53.98	28.58	11.10
1.625	0412	40	0400	67.00	60.33	34.93	12.70
		43	0430	69.85	63.50	34.93	12.70
1.750	0444	45	0450	69.85	63.50	34.93	12.70
1.875	0476	48	0480	73.03	66.68	38.10	12.70
2.000	0508	50	0500	76.20	69.85	38.10	12.70
2.125	0539	53	0530	82.55	76.20	42.85	14.28
2.250	0571	55	0550	85.73	79.38	42.85	14.28
2.375	0603	60	0600	88.90	82.55	46.02	14.28
2.500	0635	63	0630	92.08	85.73	46.02	14.28
2.625	0666	65	0650	98.43	85.73	49.20	15.90
2.750	0698	70	0700	101.60	88.90	49.20	15.90
2.875	0730	73	0730	104.78	95.25	52.37	15.90
3.000	0762	75	0750	107.95	98.43	52.37	15.90

D1(mm)	Size Code	D3	D7	L4	L1	L11
10	0100	22.95	24.60	8.74	43.65	25.40
12	0120	23.90	27.79	8.74	43.65	25.40
13	0130	23.90	27.79	8.74	43.65	25.40
14	0140	26.70	30.95	10.32	43.65	25.40
15	0150	26.70	30.95	10.32	43.65	25.40
16	0160	26.70	30.95	10.32	43.65	25.40
18	0180	31.10	34.15	10.32	43.65	25.40
19	0190	31.10	34.15	10.32	43.65	25.40
20	0200	33.40	35.70	10.32	43.65	25.40
22	0220	33.40	37.30	10.32	43.65	25.40
24	0240	39.20	40.50	10.32	43.65	25.40
25	0250	39.20	40.50	10.32	43.65	25.40
28	0280	46.30	47.63	11.99	60.33	33.34
30	0300	49.40	50.80	11.99	60.33	33.34
32	0320	49.40	50.80	11.99	60.33	33.34
33	0330	52.60	53.98	11.99	60.33	33.34
34	0340	52.60	53.98	11.99	60.33	33.34
35	0350	52.60	53.98	11.99	60.33	33.34
38	0381	55.80	57.15	11.99	60.33	33.34
40	0400	62.20	60.35	11.99	60.33	33.34
42	0420	66.00	63.50	11.99	70.64	40.48
43	0430	66.00	63.50	11.99	70.64	40.48
44	0440	66.00	63.50	11.99	70.64	40.48
45	0450	66.00	63.50	11.99	70.64	40.48
48	0480	66.60	66.70	11.99	70.64	40.48
50	0500	71.65	69.85	11.99	70.64	40.48
53	0530	73.30	73.05	13.50	71.00	41.00
55	0550	78.40	76.20	13.50	71.00	41.00
58	0580	82.00	79.40	13.50	71.00	41.00
60	0600	82.00	79.40	13.50	71.00	41.00
63	0630	84.90	82.55	13.50	71.00	41.00
65	0650	88.40	92.10	15.90	70.00	49.00
70	0700	92.60	95.25	15.90	70.00	49.00
73	0730	94.85	98.45	15.90	73.00	49.00
75	0750	101.90	101.65	15.90	73.00	49.00



Working Conditions

Mediums: Water, oil and weakly-corrosive
 mediums
 Temperature: -20°C to 120°C
 Pressure: $\leq 1.0\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Ceramic/Sic/TC
 Rotary Ring : Carbon/Sic/TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel

主要技术参数

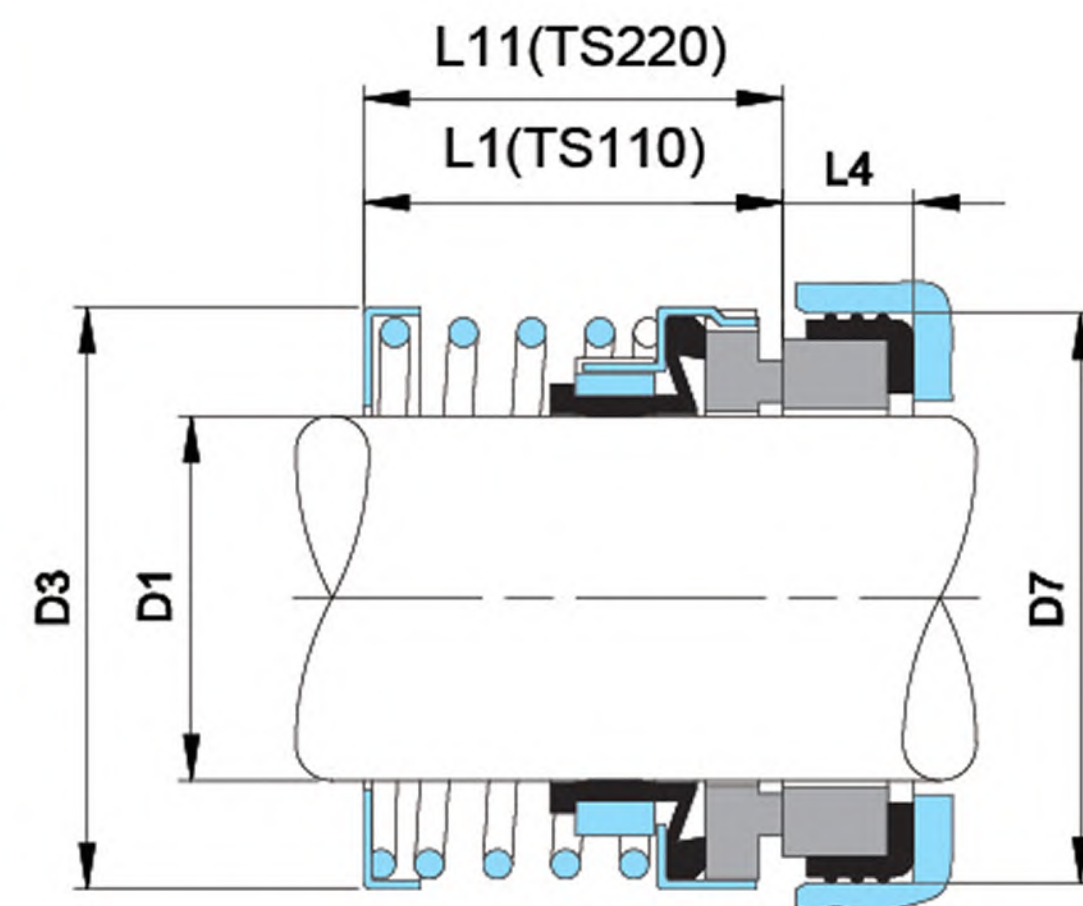
介质: 水, 油及一般弱腐蚀性化工介质
 温度: -20°C to 120°C
 压力: $\leq 1.0\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:

静环: Ceramic/Sic/TC
 动环: Carbon/Sic/TC
 辅助密封: NBR/EPDM/Viton
 弹簧及金属件: 不锈钢



TS 100 TS 200



主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质
 温度: -20°C to 120°C
 压力: $\leq 1.0\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: $\leq 1.0\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

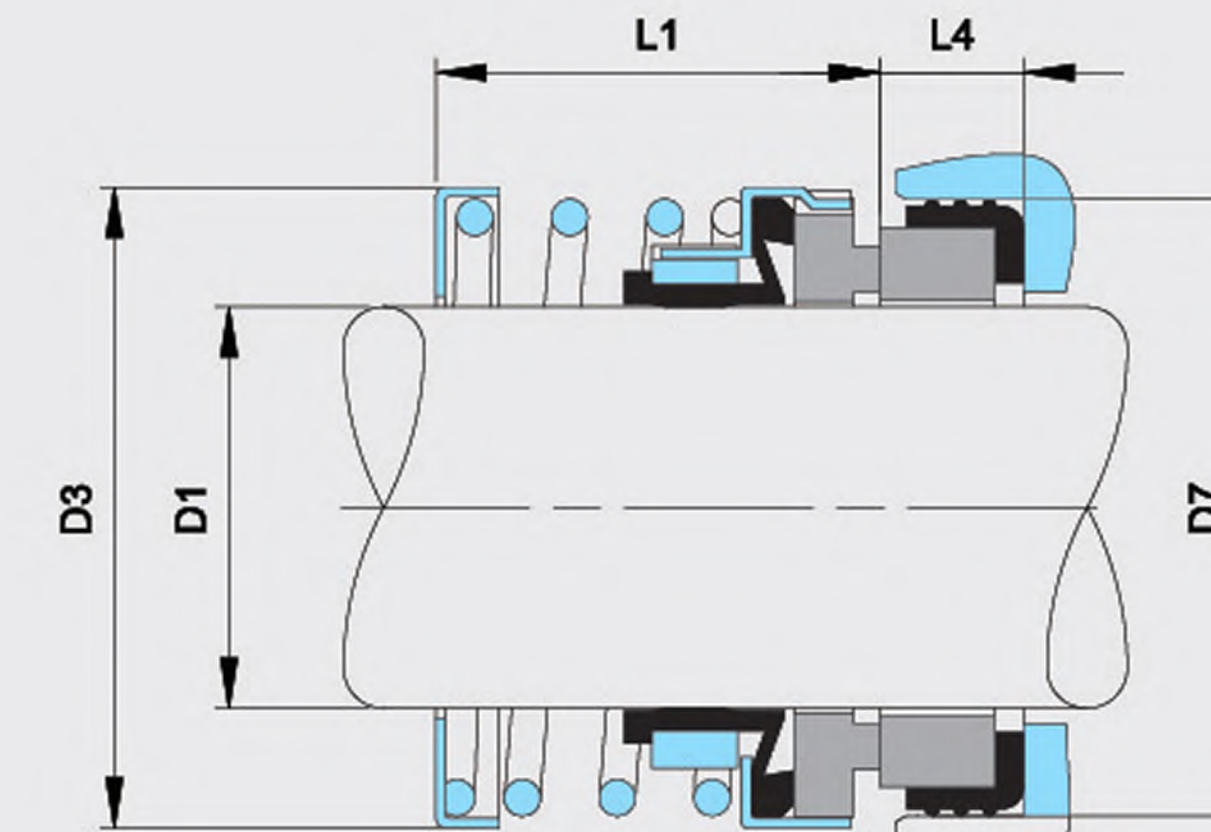
Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 110 TS 220

D1(inch)	Size Code	D3	D7	L4	L1	L11
0.500'	0127	23.90	25.40	7.93	20.62	31.75
0.625'	0158	26.70	31.75	10.28	22.22	34.93
0.750'	0191	31.10	34.93	10.28	22.22	34.93
0.875'	0222	33.40	38.10	10.28	23.80	36.50
1.000'	0254	43.20	41.28	11.10	25.40	41.28
1.125'	0286	46.30	44.44	11.10	26.97	42.85
1.250'	0317	49.40	47.63	11.10	26.97	42.85
1.375'	0349	52.60	50.80	11.10	28.58	42.85
1.500'	0381	55.80	53.98	11.10	28.58	42.85
1.625'	0412	62.20	60.33	12.70	34.93	50.80
1.750'	0444	66.00	63.50	12.70	34.93	50.80
1.875'	0476	66.60	66.68	12.70	38.10	53.98
2.000'	0508	73.00	69.85	12.70	38.10	53.98
2.125'	0539	73.30	76.20	14.28	42.88	60.32
2.250'	0571	78.40	79.38	14.28	42.88	60.32
2.375'	0603	82.00	82.55	14.28	46.02	63.50
2.500'	0635	84.90	85.73	14.28	46.02	63.50
2.625'	0666	88.40	85.73	15.90	49.20	69.85
2.750'	0698	92.60	88.90	15.90	49.20	69.85
2.875'	0730	94.85	95.25	15.90	52.37	73.03
3.000'	0762	101.90	98.43	15.90	52.37	73.03



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: $\leq 1.0\text{MPa}$
 Speed: $\leq 15\text{m/s}$

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 24

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质
 温度: -20°C to 120°C
 压力: $\leq 1.0\text{MPa}$
 转速: $\leq 15\text{m/s}$

材料:

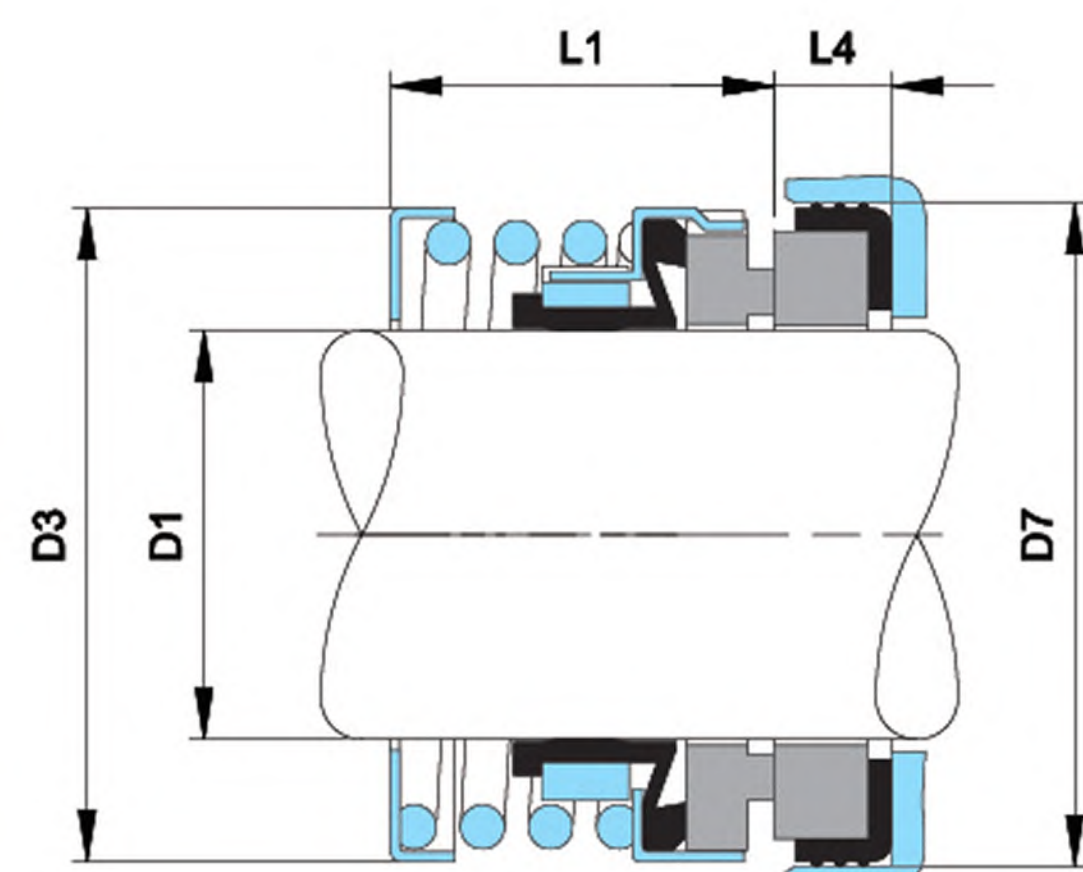
静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
12	0120	21.70	23.00	24.10	8.60
14	0140	24.50	25.00	26.60	8.60
16	0160	26.65	27.00	26.60	8.60
18	0180	30.35	33.00	27.70	10.00
20	0200	33.40	35.00	27.70	10.00
22	0220	33.55	37.00	27.70	10.00
24	0240	38.30	39.00	30.20	10.00
25	0250	39.30	40.00	30.20	10.00
28	0280	42.20	43.00	32.70	10.00
30	0300	43.95	45.00	32.70	10.00
32	0320	45.75	48.00	32.70	10.00
33	0330	45.85	48.00	32.70	10.00
35	0350	49.10	50.00	32.70	10.00
38	0380	52.60	56.00	34.20	11.00
40	0400	55.70	58.00	34.20	11.00
43	0430	58.80	61.00	34.20	11.00
45	0450	61.00	63.00	34.20	11.00
48	0480	64.20	66.00	34.20	11.00
50	0500	66.60	70.00	34.70	13.00
55	0550	71.65	75.00	34.70	13.00
58	0580	78.40	78.00	39.70	13.00
60	0600	78.40	80.00	39.70	13.00
63	0630	81.50	83.00	39.70	13.00
65	0650	84.30	85.00	39.70	13.00
68	0680	89.65	90.00	37.40	15.30
70	0700	89.65	92.00	44.90	15.30
75	0750	96.80	97.00	44.90	15.30



主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.0\text{MPa}$

转速: $\leq 15\text{m/s}$

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

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

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

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

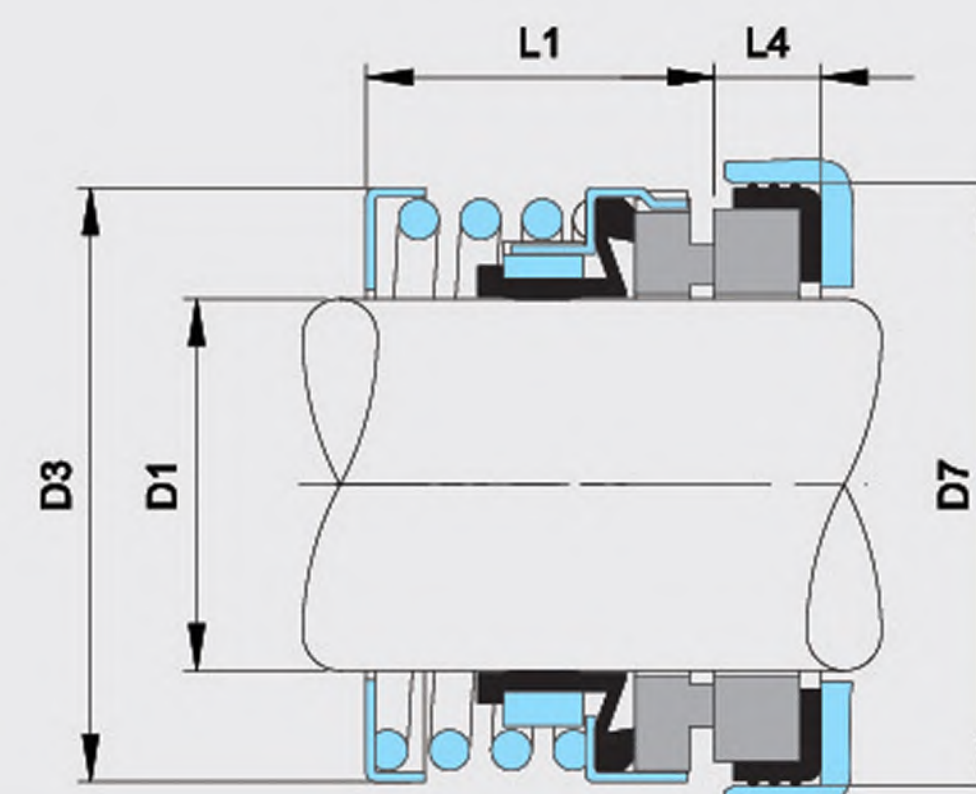
Spring and Metal Part: Stainless Steel



TS 560A

D1(mm)	Size Code	D3	D7	L1	L4
8	0008	18.2	21.0	11.2	7.0
9	0009	18.2	24.0	16.2	7.0
10	0100	20.6	24.0	16.2	7.0
11	0110	20.6	24.0	16.2	7.0
12	0120	21.8	26.0	17.2	7.0
13	0130	21.8	26.0	17.2	7.0
14	0140	26.4	28.0	18.2	7.0
15	0150	26.4	28.0	18.2	7.0
16	0160	26.4	32.0	19.2	8.0
17	0170	29.5	32.0	19.2	8.0
18	0180	29.5	35.0	19.2	8.0
19	0190	29.5	35.0	19.2	8.0
20	0200	31.6	38.0	20.2	8.0
22	0220	33.6	40.0	20.2	8.0
25	0250	39.6	44.0	20.2	9.0
28	0280	45.0	46.0	21.2	9.0
30	0300	46.6	50.0	22.2	9.0
32	0320	46.6	54.0	24.2	9.0
35	0350	50.8	58.0	26.2	10.0
38	0380	54.3	60.0	27.2	10.0
40	0400	57.3	64.0	28.2	10.0
45	0450	61.3	66.0	30.2	10.0
50	0500	67.8	72.0	32.2	10.0

D1(inch)	Size Code	D3	D7	L1	L4
3/8"	0095	23.50	22.23	22.20	6.40
1/2"	0127	26.00	25.40	22.20	6.40
5/8"	0158	30.00	31.75	23.80	8.70
3/4"	0190	32.50	34.93	23.80	8.70
7/8"	0222	37.50	38.10	25.40	8.70
1"	0254	44.00	41.28	27.00	9.50
1 1/8"	0286	48.00	44.45	28.60	9.50
1 1/4"	0317	50.00	47.63	28.60	9.50
1 3/8"	0349	54.50	50.80	30.20	9.50
1 1/2"	0381	58.50	53.98	30.20	9.50
1 5/8"	0412	64.00	60.33	36.50	11.10
1 3/4"	0444	67.00	63.50	36.50	11.10
1 7/8"	0476	71.00	66.68	39.70	11.10
2"	0508	73.50	69.85	39.70	11.10



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

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

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

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS BIA

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.0\text{MPa}$

转速: $\leq 15\text{m/s}$

材料:

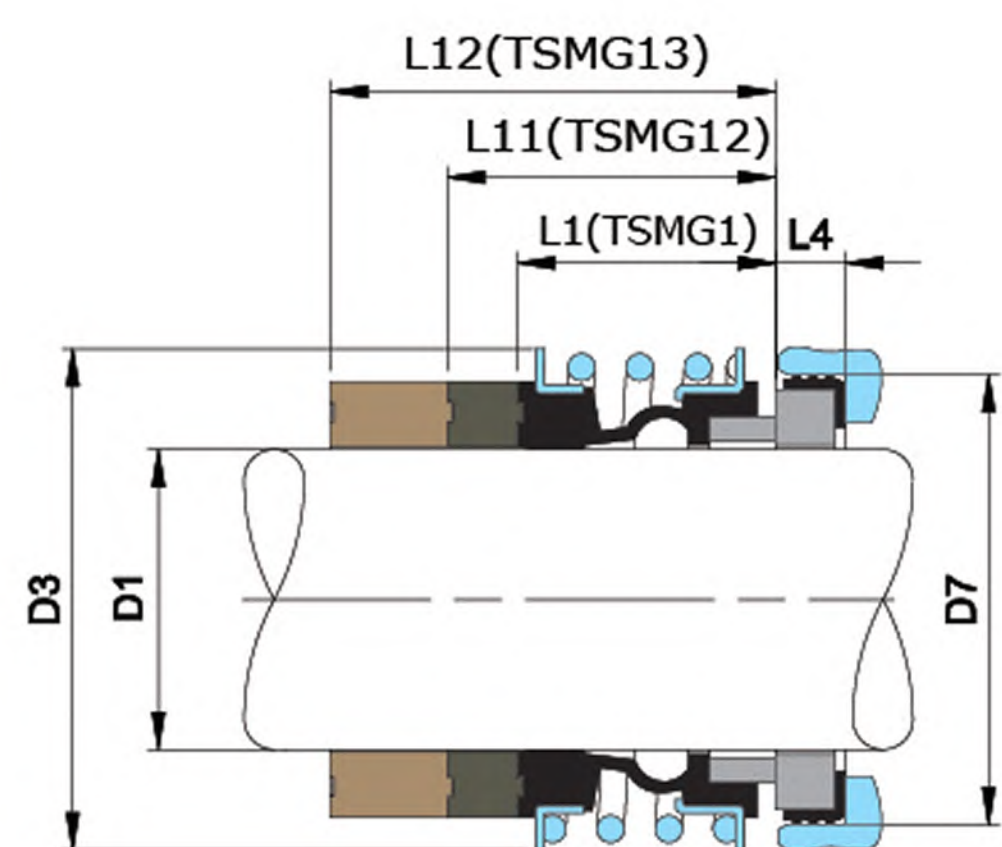
静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
14	0140	27.50	30.00	18.70	5.00
16	0160	28.50	32.00	21.00	5.00
18	0180	31.20	35.00	22.50	7.50
20	0200	31.70	35.00	21.00	8.00
24	0240	40.20	39.00	25.50	8.00
25	0250	40.20	40.00	25.50	8.00
28	0280	44.10	43.00	25.50	8.00
30	0300	45.10	45.00	25.50	9.00
32	0320	49.00	48.00	33.50	9.00
33	0330	49.00	48.00	33.50	9.00
35	0350	50.20	50.00	33.50	9.00
38	0380	55.30	56.00	33.50	9.00
40	0400	57.00	58.00	33.50	9.00
43	0430	60.70	61.00	36.50	9.50
45	0450	62.50	63.00	38.00	9.50
48	0480	66.50	66.00	38.00	9.50
50	0500	68.60	70.00	38.00	9.50
53	0530	70.80	73.00	41.00	9.50
55	0550	72.40	75.00	41.00	9.50
58	0580	80.00	78.00	42.00	9.50
60	0600	83.00	80.00	42.00	9.50
65	0650	87.20	85.00	43.00	10.00
70	0700	91.60	92.00	45.00	11.00
75	0750	99.40	97.00	48.00	12.00
80	0800	104.60	104.00	55.00	12.00
85	0850	111.00	109.00	64.20	12.00
90	0900	113.00	114.00	66.20	12.00



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

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

Speed: $\leq 12\text{m/s}$

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 12\text{m/s}$

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

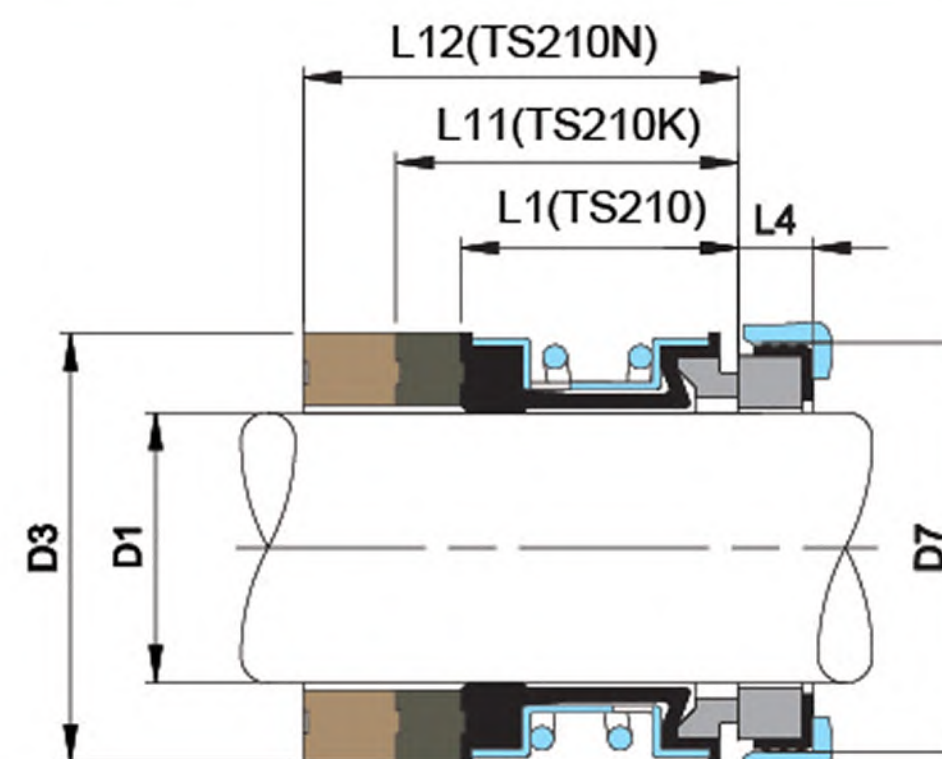
弹簧及金属件: 不锈钢



TS MG1&MG12&MG13

D1(mm)	Size Code	D3	D7	L4	L1	L11	L12
10	0100	22.50	21.00	6.60	14.50	25.90	33.40
12	0120	25.00	23.00	6.60	15.00	25.90	33.40
14	0140	28.50	25.00	6.60	17.00	28.40	33.40
15	0150	28.50	27.00	6.60	17.00	28.40	33.40
16	0160	28.50	27.00	6.60	17.00	28.40	33.40
18	0180	32.00	33.00	7.50	19.50	30.00	37.50
20	0200	37.00	35.00	7.50	21.50	30.00	37.50
22	0220	37.00	37.00	7.50	21.50	30.00	37.50
24	0240	42.50	39.00	7.50	22.50	32.50	42.50
25	0250	42.50	40.00	7.50	23.00	32.50	42.50
28	0280	49.00	43.00	7.50	26.50	35.00	42.50
30	0300	49.00	45.00	7.50	26.50	35.00	42.50
32	0320	53.50	48.00	7.50	27.50	35.00	47.50
33	0330	53.50	48.00	7.50	27.50	35.00	47.50
35	0350	57.00	50.00	7.50	28.50	35.00	47.50
38	0380	59.00	56.00	9.00	30.00	36.00	46.00
40	0400	62.00	58.00	9.00	30.00	36.00	46.00
43	0430	65.50	61.00	9.00	30.00	36.00	51.00
45	0450	68.00	63.00	9.00	30.00	36.00	51.00
48	0480	70.50	66.00	9.00	30.50	36.00	51.00
50	0500	74.00	70.00	9.50	30.50	38.00	50.50
53	0530	78.50	73.00	11.00	33.00	36.50	59.00
55	0550	81.00	75.00	11.00	35.00	36.50	59.00
58	0580	85.50	78.00	11.00	37.00	41.50	59.00
60	0600	88.80	80.00	11.00	38.00	41.50	59.00
65	0650	93.50	85.00	11.00	40.00	41.50	69.00
68	0680	96.50	90.00	11.30	40.00	41.20	68.70
70	0700	99.50	92.00	11.30	40.00	48.70	68.70
75	0750	107.00	97.00	11.30	40.00	48.00	68.70
80	0800	112.00	105.00	12.00	40.00	48.00	78.00
85	0850	120.00	110.00	14.00	41.00	46.00	76.00
90	0900	127.00	115.00	14.00	45.00	51.00	76.00
95	0950	132.00	120.00	14.00	46.00	51.00	76.00
100	1000	137.00	125.00	14.00	47.00	51.00	76.00

D1(mm)	Size Code	D3	D7	L4	L1	L11	L12
10	0100	20.0	21.0	5.0	15.0	27.5	35.0
12	0120	22.0	23.0	6.0	15.0	26.5	34.0
14	0140	24.0	25.0	6.0	15.0	29.0	34.0
15	0150	25.0	26.0	6.0	15.0	29.0	34.0
16	0160	26.0	27.0	6.0	15.0	29.0	34.0
18	0180	32.0	33.0	6.0	20.0	31.5	39.0
20	0200	34.0	35.0	6.0	20.0	31.5	39.0
22	0220	36.0	37.0	6.0	20.0	31.5	39.0
24	0240	38.0	39.0	6.0	20.0	34.0	44.0
25	0250	39.0	40.0	6.0	20.0	34.0	44.0
28	0280	42.0	43.0	6.0	26.0	36.5	44.0
30	0300	44.0	45.0	7.0	26.0	35.5	43.0
32	0320	46.0	48.0	7.0	26.0	35.5	48.0
33	0330	47.0	48.0	7.0	26.0	35.5	48.0
35	0350	49.0	50.0	8.0	26.0	34.5	47.0
38	0380	54.0	56.0	8.0	30.0	37.0	47.0
40	0400	56.0	58.0	8.0	30.0	37.0	47.0
43	0430	59.0	61.0	8.0	30.0	37.0	52.0
45	0450	61.0	63.0	8.0	30.0	37.0	52.0
48	0480	64.0	66.0	10.0	30.0	35.0	50.0
50	0500	66.0	70.0	10.0	30.0	37.5	50.0
53	0530	69.0	73.0	10.0	30.0	37.5	60.0
55	0550	71.0	75.0	10.0	30.0	37.5	60.0
58	0580	78.0	78.0	10.0	33.0	42.5	60.0
60	0600	80.0	80.0	12.0	33.0	40.5	58.0
63	0630	83.0	83.0	12.0	33.0	40.5	58.0
65	0650	85.0	85.0	12.0	33.0	40.5	68.0
68	0680	88.0	90.0	12.0	33.0	40.5	68.0
70	0700	90.0	92.0	12.0	33.0	48.0	68.0
75	0750	99.0	97.0	12.0	40.0	48.0	68.0
80	0800	104.0	105.0	12.5	40.0	47.5	77.5
85	0850	109.0	110.0	12.5	40.0	47.5	77.5
90	0900	114.0	115.0	12.5	40.0	52.5	77.5
95	0950	119.0	120.0	12.5	40.0	52.5	77.5
100	1000	124.0	125.0	12.5	40.0	52.5	77.5



主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 1.2\text{MPa}$

转速: $\leq 12\text{m/s}$

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

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

Speed: $\leq 12\text{m/s}$

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 210

主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度: -20℃ to 100℃

压力: ≤0.3MPa

转速: ≤10m/s

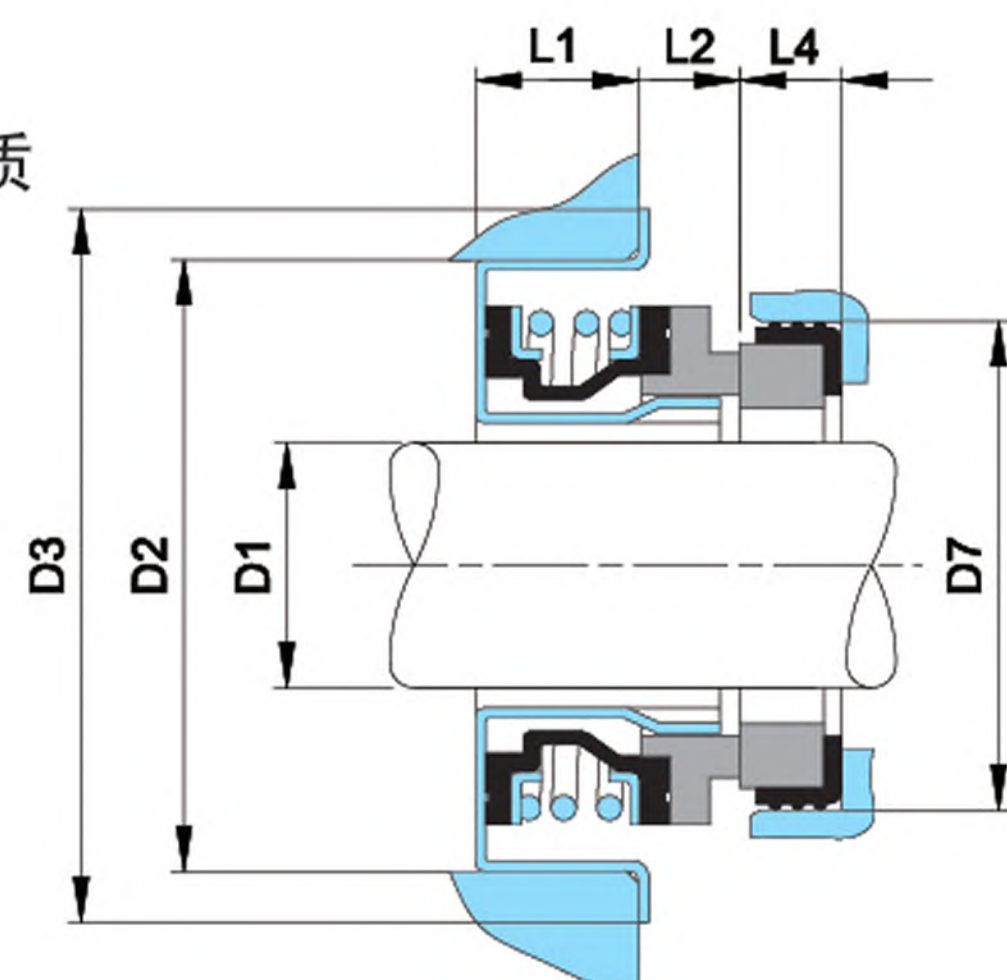
材料:

静环: Carbon/Sic

动环: Ceramic/Sic

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20℃ to 100℃

Pressure: ≤0.3MPa

Speed: ≤10m/s

Materials

Stationary Ring: Carbon/Sic

Rotary Ring : Ceramic/Sic

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

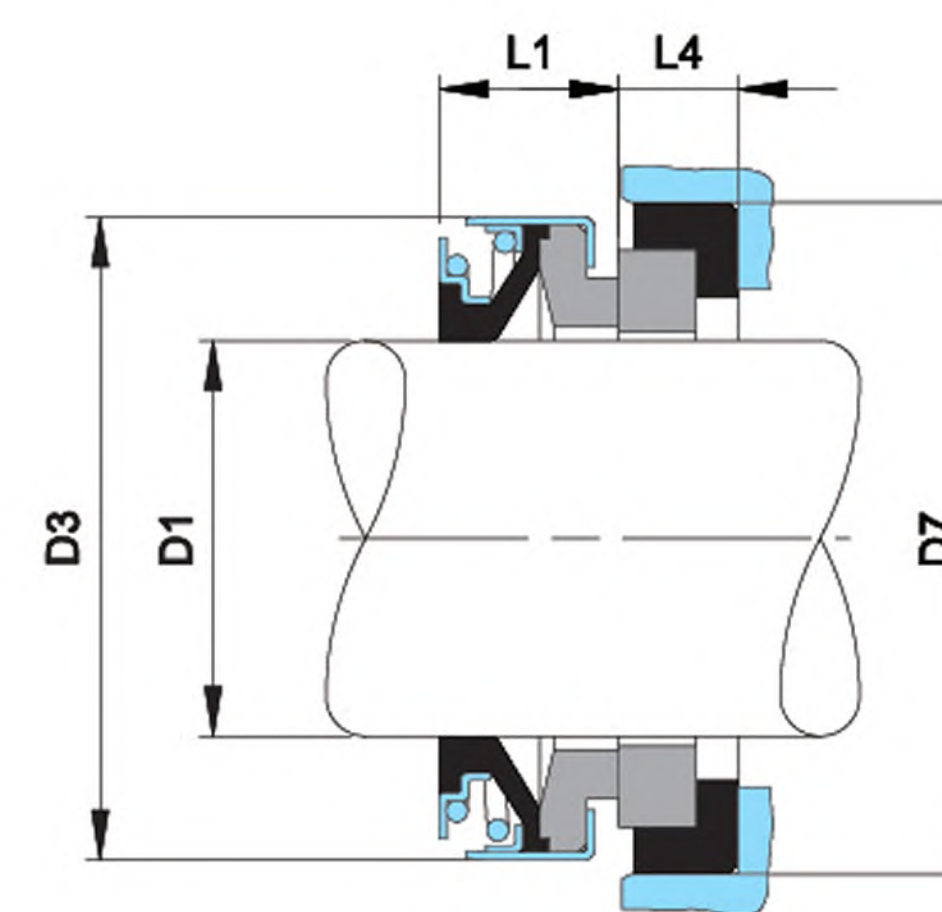


TS 700

Model	Shaft	D2	D3	D7	L1	L2	L4
10	10	24.0	29.0	23.0	7.0	6.0	4.0
12S	12	28.6	32.0	25.0	8.0	5.2	5.0
12M	12	30.0	35.0	24.0	8.0	5.0	5.0
12L	12	33.4	38.0	25.0	6.7	6.3	5.0
16	16	36.5	41.5	31.0	8.0	6.8	5.0
16L	16	38.1	43.5	31.0	8.0	6.8	5.0
16LD	16	38.1	43.5	31.0	8.0	6.8	5.0
20S	20	38.0	43.8	35.0	9.5	6.0	5.0
20	20	40.0	43.8	35.0	9.5	6.0	5.0
25S	25	46.0	51.0	44.0	10.0	8.0	7.0
25M	25	47.0	51.0	44.0	12.0	6.0	7.0
25L	25	52.0	57.0	48.0	12.0	6.0	7.0
30	30	52.0	57.0	48.0	11.0	8.0	8.0
1/2"	12.7	30.0	35.0	25.4	8.0	5.0	6.2
5/8"	25.9	36.5	41.5	31.8	8.0	6.7	10.3
3/4"	19.1	40.0	43.8	34.9	9.5	6.0	10.3
1"	25.4	47.0	51.0	41.3	12.0	5.9	11.1

D1(mm)	Size Code	D3	D7	L1	L4
6	0060	18.0	22.0	11.0	4.0
8	0080	18.0	22.0	11.0	4.0
8	0080L	24.0	26.0	11.0	8.0
10	0100	24.0	26.0	13.0	8.0
11	0110	24.0	26.0	13.0	8.0
12	0120	24.0	26.0	13.0	8.0
13	0130	24.0	26.0	13.0	5.5
14P	0140P	27.5	28.5	13.0	8.0
14	0140	32.0	29.5	13.5	8.0
15P	0150P	27.5	30.0	13.0	8.0
15	0150	32.0	29.5	13.5	8.0
16P	0160P	27.5	30.0	13.0	8.0
16	0160	32.0	29.5	13.5	8.0
16L	0160L	39.0	42.0	13.0	8.0
17	0170	39.0	42.0	13.0	8.0
18	0180	39.0	42.0	13.0	8.0
19	0190	39.0	42.0	13.0	8.0
20P	0200P	35.0	38.0	13.0	8.0
20	0200	39.0	42.0	13.0	8.0
20L	0200L	42.0	45.0	13.0	10.0

D1(mm)	Size Code	D3	D7	L1	L4
22P	0220P	39.0	42.0	13.0	8.0
22	0220	42.0	45.0	13.0	10.0
23	0230	47.0	50.0	13.5	10.0
24	0240	47.0	50.0	13.5	10.0
25	0250	47.0	50.0	13.5	10.0
25P	0250P	42.0	45.0	13.0	10.0
26	0260	47.0	50.0	13.5	10.0
27	0270	47.0	50.0	13.5	10.0
28	0280	54.0	57.0	15.0	10.0
30	0300	54.0	57.0	15.0	10.0
32	0320	54.0	57.0	15.0	10.0
35	0350	60.0	63.0	16.0	10.0
38	0380	65.0	68.0	18.0	12.0
40	0400	65.0	68.0	18.0	12.0
45	0450	70.0	73.0	20.0	12.0
50	0500	85.0	88.0	23.0	15.0
55	0550	85.0	88.0	23.0	15.0
60	0600	105.0	110.0	30.0	15.0
65	0650	105.0	110.0	30.0	15.0
70	0700	105.0	110.0	32.0	15.0



Working Conditions

Pumps: Water pumps and household pumps

Temperature: -20℃ to 100℃

Pressure: ≤0.5MPa

Speed: ≤10m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

主要用于: 家用泵及清水泵

温度: -20℃ to 100℃

压力: ≤0.5MPa

转速: ≤10m/s

材料:

静环: Ceramic/Sic/TC

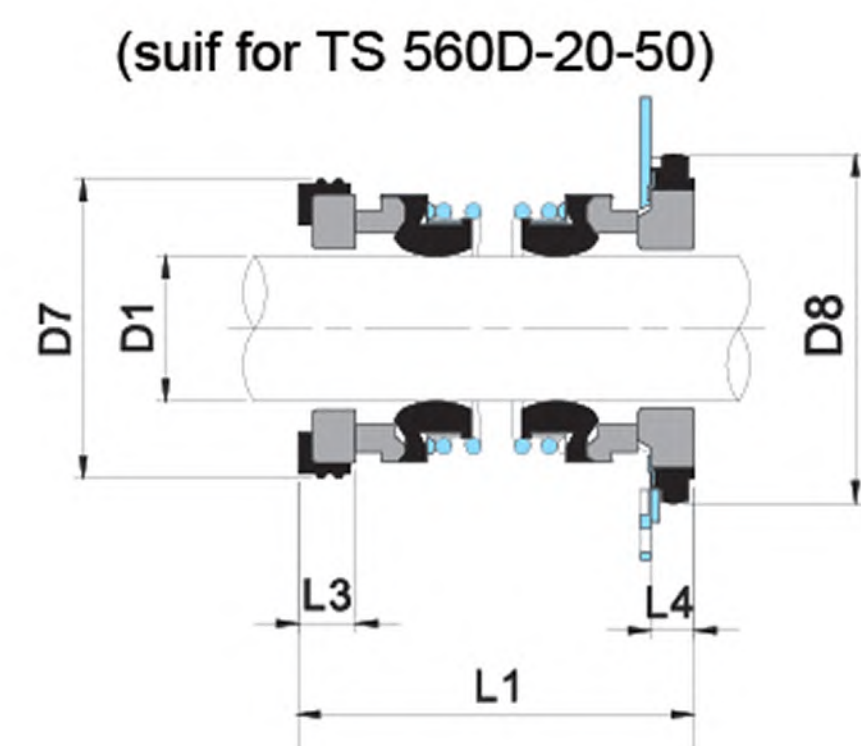
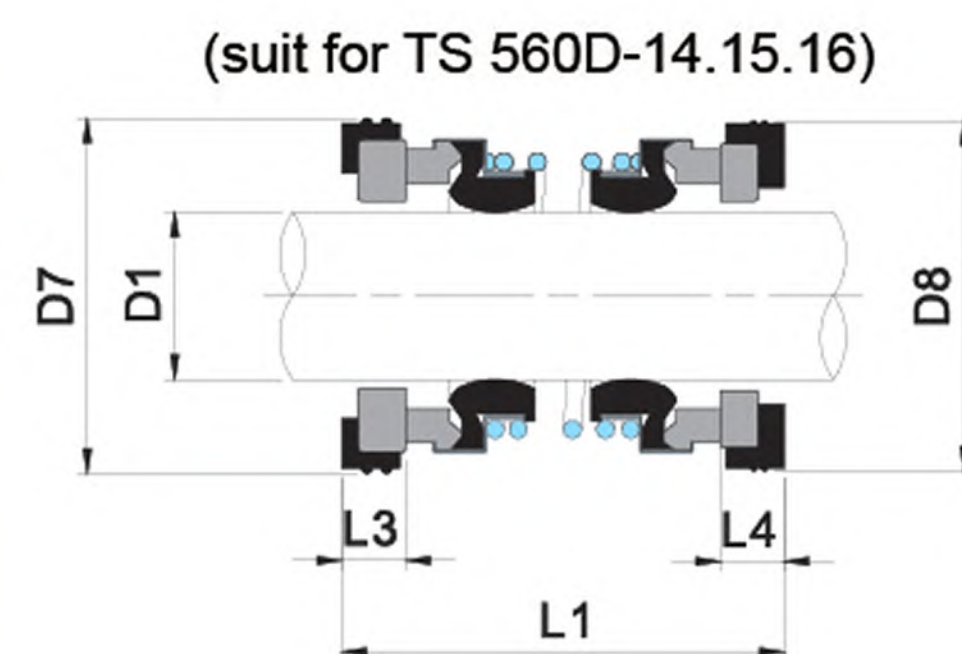
动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 301



Working Conditions

Mediums: Submersible pumps, sewage pumps, applied to the muddy water, sewage water or weakly-corrosive fluids with solid grains.

Temperature: -20°C to 100°C

Pressure: ≤0.5MPa

Speed: ≤8m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



TS 560D

主要技术参数

介质:各种潜水泵、污水泵、泥水、污水或含固体颗粒等一般弱腐蚀性介质

温度:-20°C to 100°C

压力:≤0.5MPa

转速:≤8m/s

材料:

静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D7	D8	L1	L3	L4
14	0140	30	30	37	5	5
15	0150	30	30	37	5	5
16	0160	30	30	37	5	5
20	0200	38	38/44	50	8/7	7
25	0250	44	44/50	51	8.5	7
30	0300	44/50	57	59	8.3	9
35	0350	54	57	61	9.5	8.5
40	0400	64	70	65	9	10
45	0450	66	70	65	9	10
50	0500	72	80	69	9	10

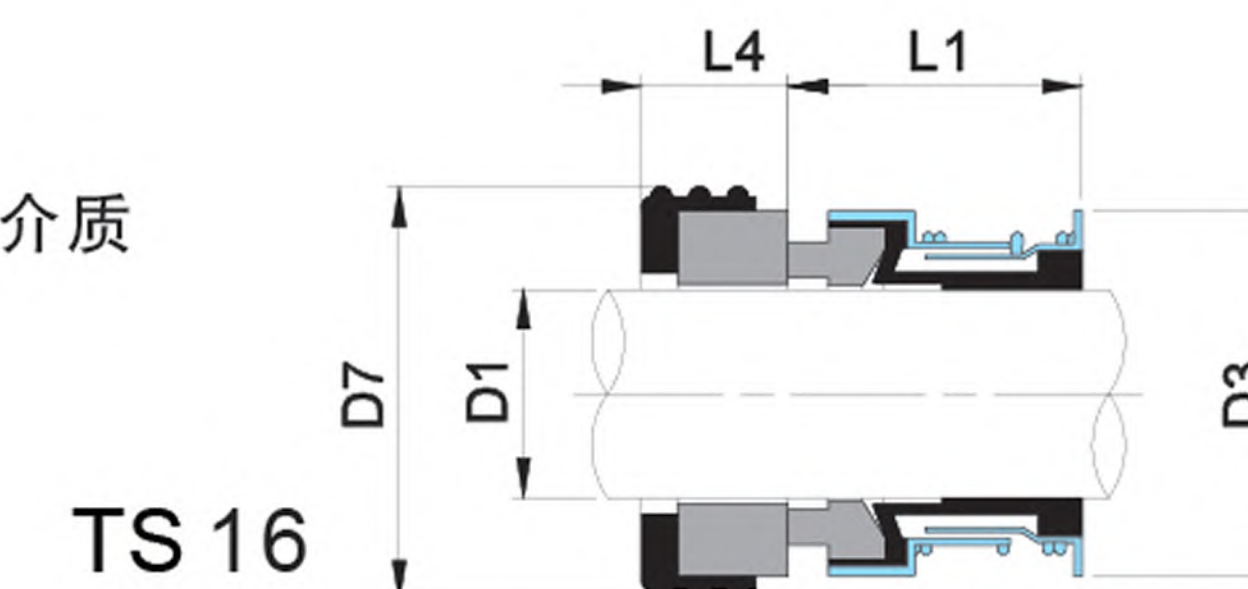
主要技术参数

介质: 水, 油及一般弱腐蚀性化工介质

温度:-20°C to 100°C

压力: ≤0.5MPa

转速: ≤10m/s



D1(inch)	Size Code	D3	D7	L1	L4
0.500	0127	23.3	25.4	16.86	6.35
0.500A	0127A	23.3	25.4	16.86	7.93
0.625	0158	30.1	31.75	18.44	10.31
0.750	0191	33	34.93	18.44	10.31
0.875	0222	36.3	38.1	20.82	10.31
1.000	0254	39.42	41.28	20.82	11.1

材料:

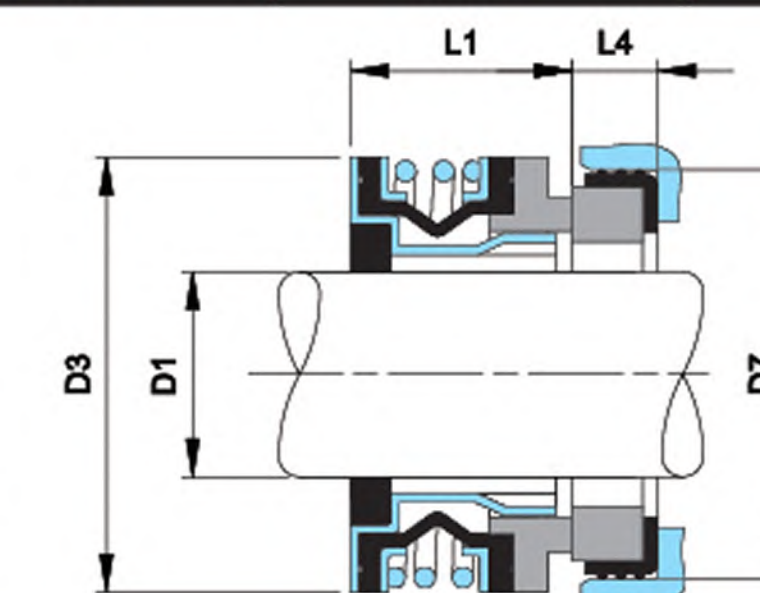
静环: Ceramic/Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

TS 600



D1(inch)	Size Code	D3	D7	L1	L4
0.375	0095	23.8	22.23	16.08	6.35
0.375A	0095A	26.97	25.4	16.86	7.93
0.500	0127	26.97	25.4	16.86	6.35
0.500A	0127A	26.97	25.4	16.86	7.93
0.625	0158	30.94	31.75	18.44	10.31
0.750	0191	34.11	34.93	18.44	10.31
0.875	0222	42.85	41.28	20.82	11.1
1.000	0254	42.85	41.28	20.82	11.1



TS16 TS600

Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 100°C

Pressure: ≤0.5MPa

Speed: ≤10m/s

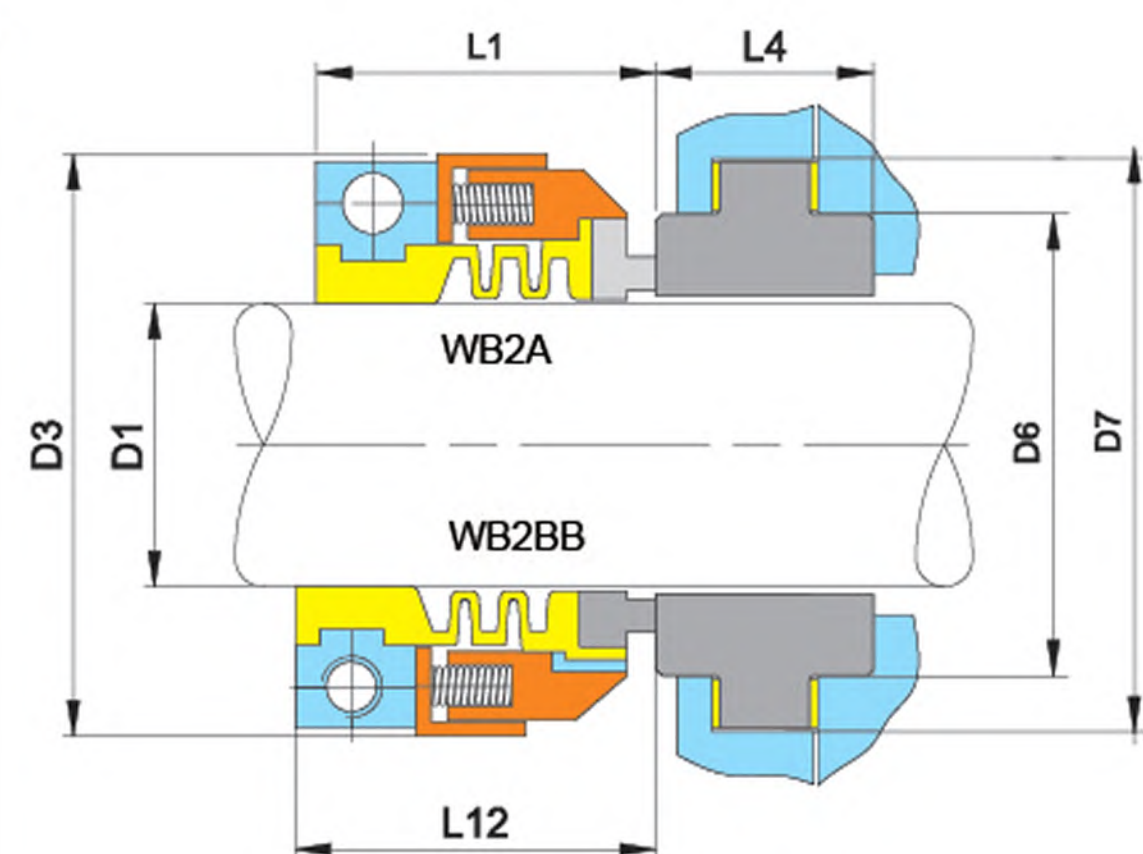
Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



主要技术参数

介质: 各种浓度的硫酸、盐酸、磷酸、醋酸、稀硝酸等强腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 0.5\text{MPa}$

转速: $\leq 10\text{m/s}$

材料:

静环: Ceramic/Sic/Ssic

动环: Teflon/Sic/Ssic

辅助密封: Teflon

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Sulfuric acid, hydrochloric acid, phosphoric acid, acetic acid, and nitric acid with various degrees, etc.

Temperature: -20°C to 120°C

Pressure: $\leq 0.5\text{MPa}$

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

Materials

Stationary Ring: Ceramic/Sic/Ssic

Rotary Ring: Teflon/Sic/Ssic

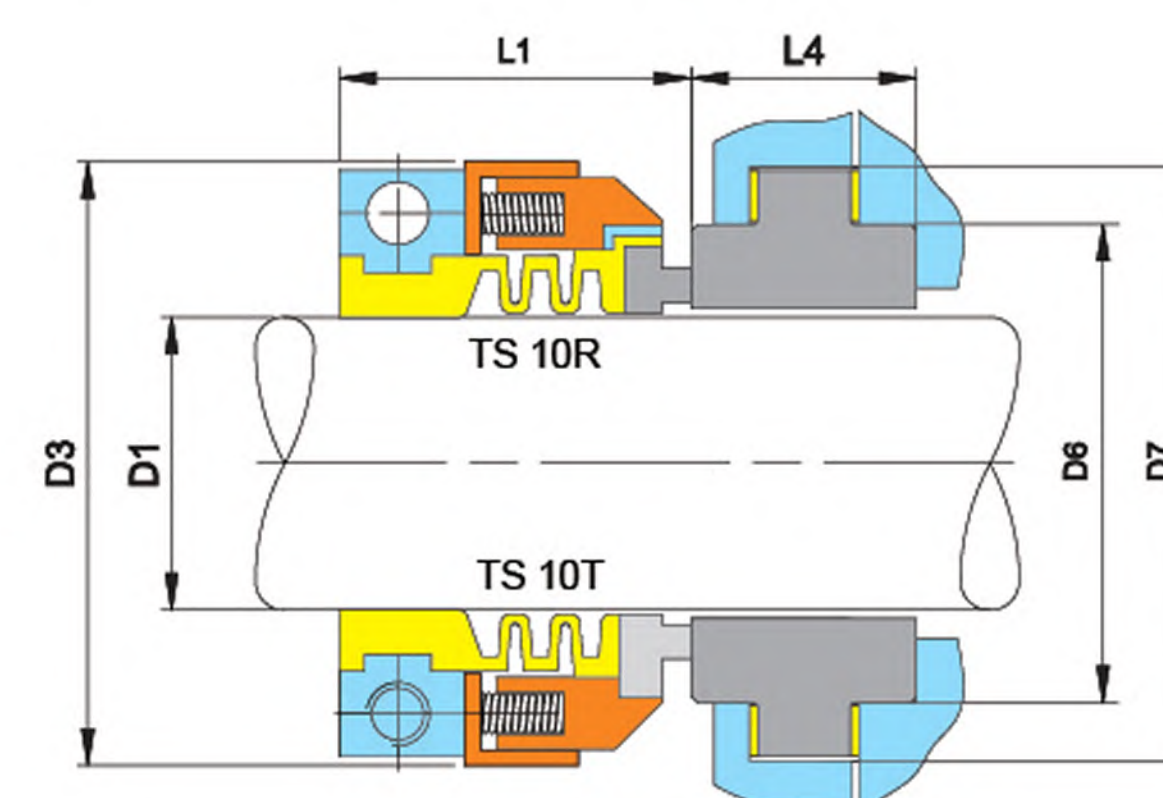
Secondary Seal: Teflon

Spring and Metal Part: Stainless Steel



TS WB2

D1(mm)	Size	D1(inch)	Seat	D3	D7	D6	L4	L1
16	0160	0.750	0191	54	48.00	36.51	17.60	31.00
18	0180	0.750	0191	54	48.00	36.51	17.60	31.00
20	0200	0.875	0222	57	51.00	39.69	17.60	31.00
22	0220	0.875	0222	57	51.00	39.69	17.60	31.00
24	0240	1.000	0254	61	54.00	42.86	17.60	33.00
25	0250	1.000	0254	61	54.00	42.86	17.60	33.00
28	0280	1.125	0317	67	65.00	50.80	27.00	36.00
30	0300	1.250	0349	70	68.00	53.98	27.00	37.00
32	0320	1.250	0350	70	68.00	53.98	27.00	37.00
33	0330	1.375	0381	73	71.00	57.15	27.00	38.00
35	0350	1.375	0381	73	71.00	57.15	27.00	38.00
38	0380	1.500	0412	76	78.00	63.50	27.00	38.00
40	0400	1.625	0444	80	81.00	66.68	27.00	40.00
43	0430	1.750	0476	83	84.00	69.85	27.00	40.00
45	0450	1.750	0476	83	84.00	69.85	27.00	40.00
48	0476	1.875	0508	86	87.00	73.03	27.00	43.00
50	0500	2.000	0539	89	97.00	79.38	33.40	43.00
53	0530	2.125	0571	103	100.00	82.55	33.40	53.00
55	0550	2.250	0603	107	103.00	85.73	33.40	53.00
58	0580	2.375	0635	110	106.00	88.90	33.40	53.00
60	0600	2.375	0635	110	106.00	88.90	33.40	53.00



主要技术参数

介质: 各种浓度的硫酸、盐酸、磷酸、醋酸、稀硝酸等强腐蚀性化工介质

温度: -20°C to 120°C

压力: $\leq 0.5\text{MPa}$

转速: $\leq 10\text{m/s}$

材料:

静环: Ceramic/Sic/Ssic

动环: Teflon/Sic/Ssic

辅助密封: Teflon

弹簧及金属件: 不锈钢

Working Conditions

Mediums: Sulfuric acid, hydrochloric acid, phosphoric acid, acetic acid, and nitric acid with various degrees, etc.

Temperature: -20°C to 120°C

Pressure: $\leq 0.5\text{MPa}$

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

Materials

Stationary Ring: Ceramic/Sic/Ssic

Rotary Ring: Teflon/Sic/Ssic

Secondary Seal: Teflon

Spring and Metal Part: Stainless Steel



TS 10R TS 10T



TS 609

主要技术参数

介质: 油类, 轻烃, 芳烃, 有机溶剂, 弱酸, 碱液、氨水等清洁或含颗粒流体
 温度: -75°C to 400°C
 压力: $\leq 2.0\text{MPa}$ (单层), $\leq 6.0\text{MPa}$ (双层)
 转速: $\leq 23\text{m/s}$

材料:

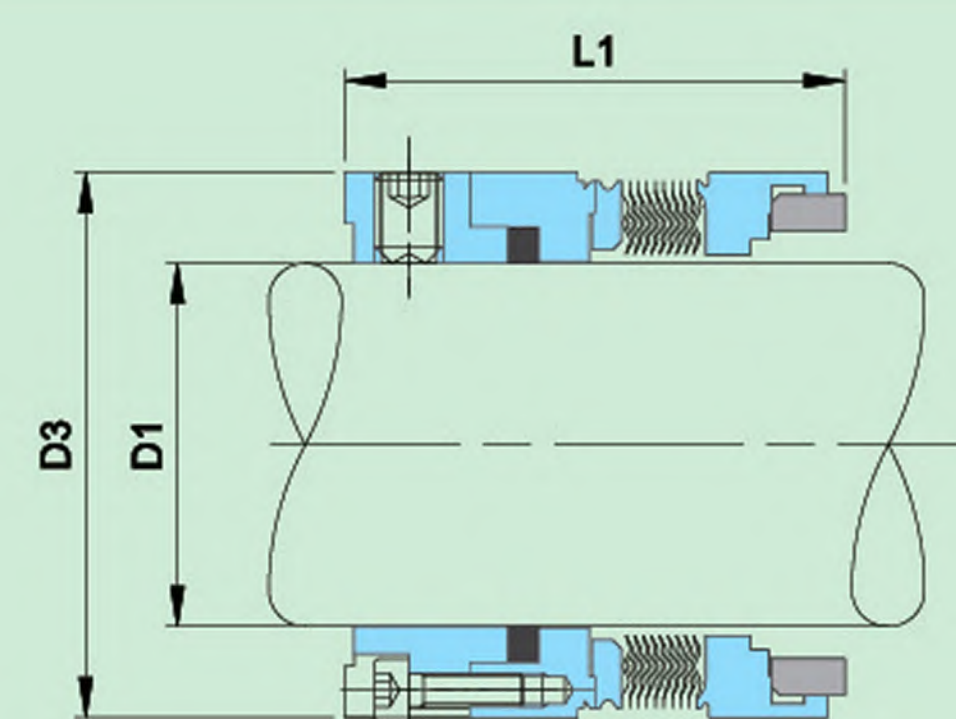
静环: Sic/TC

动环: Carbon/Sic/TC

辅助密封: 柔性石墨

弹簧及金属件: 不锈钢

D1(inch)	Size Code	D3	L1
1.000	0254	41.28	38.89
1.125	0286	44.45	39.67
1.250	0317	47.63	40.46
1.375	0349	50.80	40.46
1.500	0381	53.98	40.46
1.625	0412	57.15	40.46
1.750	0444	60.33	41.28
1.875	0476	63.50	41.28
2.000	0508	66.68	42.06
2.125	0539	69.85	42.06
2.250	0571	73.03	43.66
2.375	0603	76.20	43.66
2.500	0635	82.55	44.45
2.625	0666	85.73	45.24
2.750	0698	88.90	45.24
2.875	0730	93.65	47.63
3.000	0762	96.82	47.63
3.125	0794	101.60	47.63
3.250	0826	104.78	47.63
3.375	0857	107.95	47.63
3.500	0889	111.13	47.63
3.625	0921	114.30	47.63
3.750	0953	117.48	47.63
3.875	0984	120.65	47.63
4.000	1016	123.83	47.63



Working Conditions

Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.
 Temperature: -75°C to 400°C
 Pressure: $\leq 2.0\text{MPa}$ (Single), $\leq 6.0\text{MPa}$ (Double)
 Speed: $\leq 23\text{m/s}$

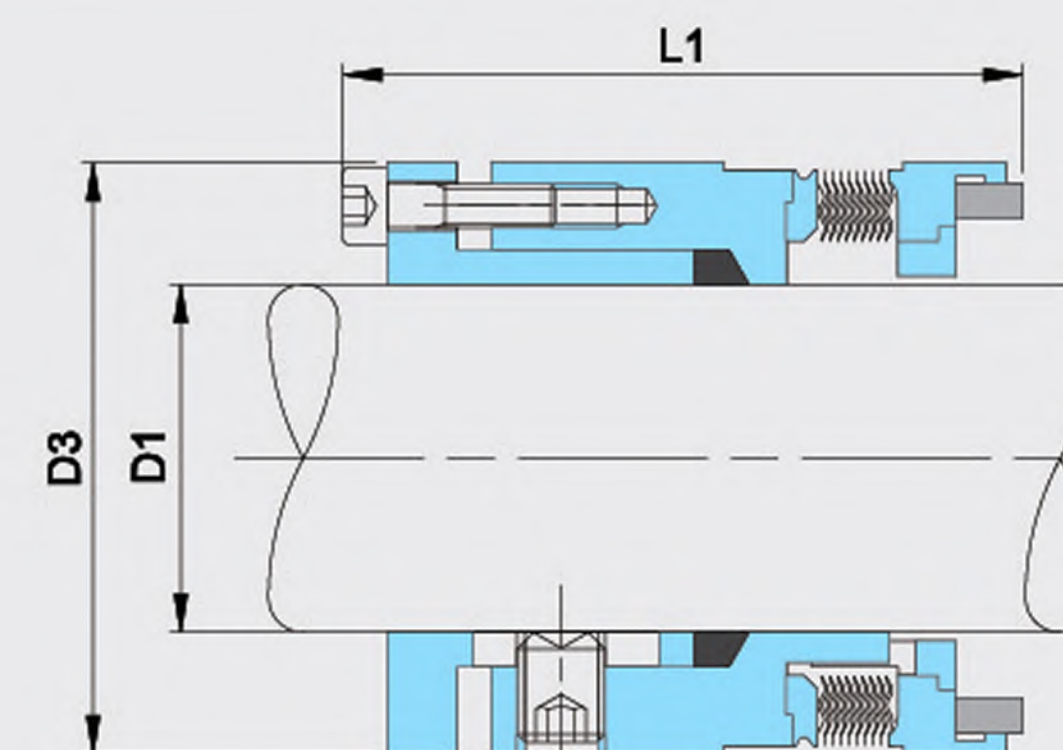
Materials

Stationary Ring: Sic/TC

Rotary Ring: Carbon/Sic/TC

Secondary Seal: Graphite

Spring and Metal Part: Stainless Steel



Working Conditions

Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.
 Temperature: -75°C to 400°C
 Pressure: $\leq 2.0\text{MPa}$ (Single), $\leq 6.0\text{MPa}$ (Double)
 Speed: $\leq 23\text{m/s}$

Materials

Stationary Ring: Sic/TC

Rotary Ring: Carbon/Sic/TC

Secondary Seal: Graphite

Spring and Metal Part: Stainless Steel

主要技术参数

介质: 油类, 轻烃, 芳烃, 有机溶剂, 弱酸, 碱液、氨水等清洁或含颗粒流体
 温度: -75°C to 400°C
 压力: $\leq 2.0\text{MPa}$ (单层), $\leq 6.0\text{MPa}$ (双层)
 转速: $\leq 23\text{m/s}$

材料:

静环: Sic/TC

动环: Carbon/Sic/TC

辅助密封: 柔性石墨

弹簧及金属件: 不锈钢



TS 606



TS 85N

主要技术参数

介质: 油类, 轻烃, 芳烃, 有机溶剂, 弱酸, 碱液、氨水等清洁或含颗粒流体

温度: -20°C to 200°C

压力: $\leq 2.0\text{MPa}$

转速: $\leq 23\text{m/s}$

材料:

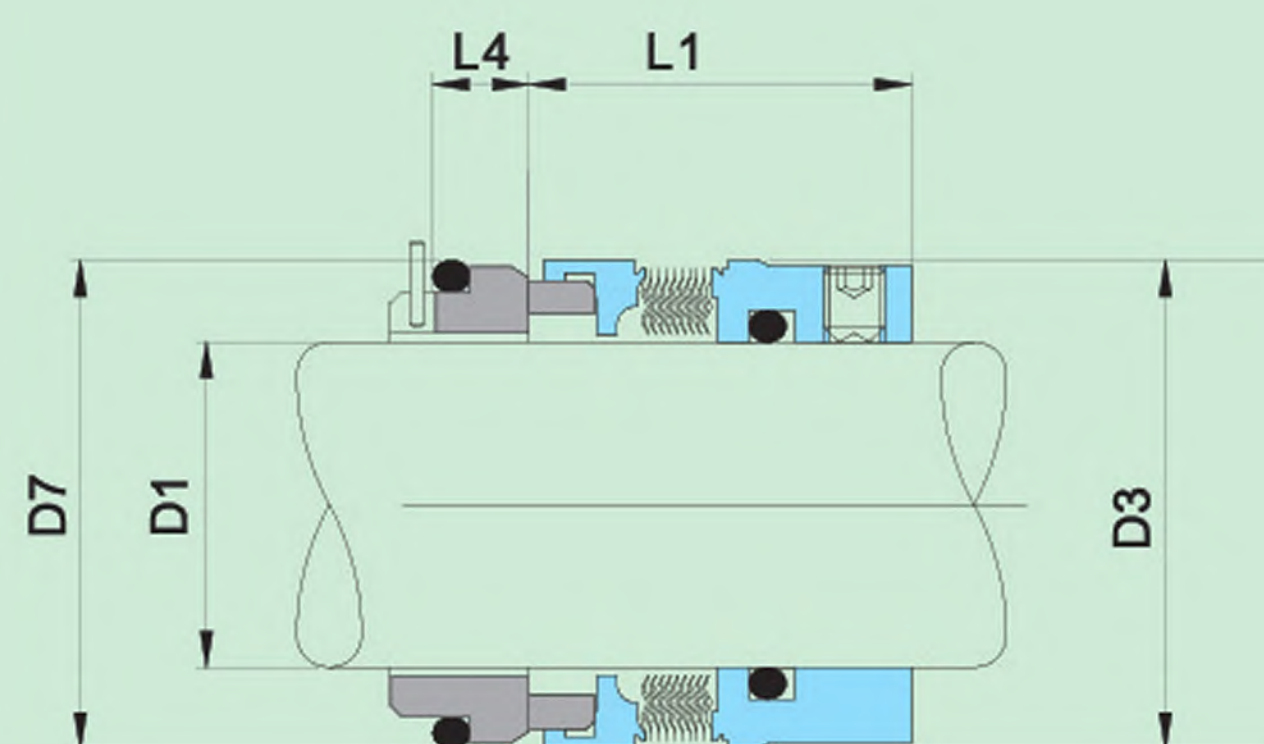
静环: Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢

D1(mm)	Size Code	D3	D7	L1	L4
16	0160	30.0	27.0	32.7	7.0
18	0180	32.0	33.0	30.7	7.0
20	0200	33.5	35.0	30.7	7.0
22	0220	36.5	37.0	30.7	7.0
24	0240	39.0	39.0	28.7	11.5
25	0250	39.6	40.0	28.7	11.5
28	0280	42.8	43.0	31.2	11.5
30	0300	45.0	45.0	31.2	11.5
32	0320	46.0	48.0	31.2	11.5
33	0330	48.0	48.0	31.2	11.5
35	0350	49.2	50.0	31.2	11.5
38	0380	52.3	56.0	31.2	14.0
40	0400	55.5	58.0	31.2	14.0
43	0430	57.5	61.0	31.2	14.0
45	0450	58.7	63.0	31.2	14.0
48	0480	61.9	66.0	31.2	14.0
50	0500	65.0	70.0	32.7	15.0
53	0530	68.2	73.0	32.7	15.0
55	0550	70.0	75.0	32.7	15.0
58	0580	71.7	78.0	37.7	15.0
60	0600	74.6	80.0	37.7	15.0
63	0630	79.0	83.0	37.7	15.0
65	0650	84.1	85.0	37.7	15.0
68	0680	87.3	90.0	34.7	18.0
70	0700	87.3	92.0	42.2	18.0
75	0750	95.0	97.0	42.2	18.0
80	0800	98.4	105.0	42.0	18.2
85	0850	104.7	110.0	42.0	18.2
90	0900	111.0	115.0	47.0	18.2
95	0950	114.0	120.0	48.0	17.2
100	1000	117.4	125.0	48.0	17.2



Working Conditions

Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.

Temperature: -20°C to 200°C

Pressure: $\leq 2.0\text{MPa}$

Speed: $\leq 23\text{m/s}$

Materials

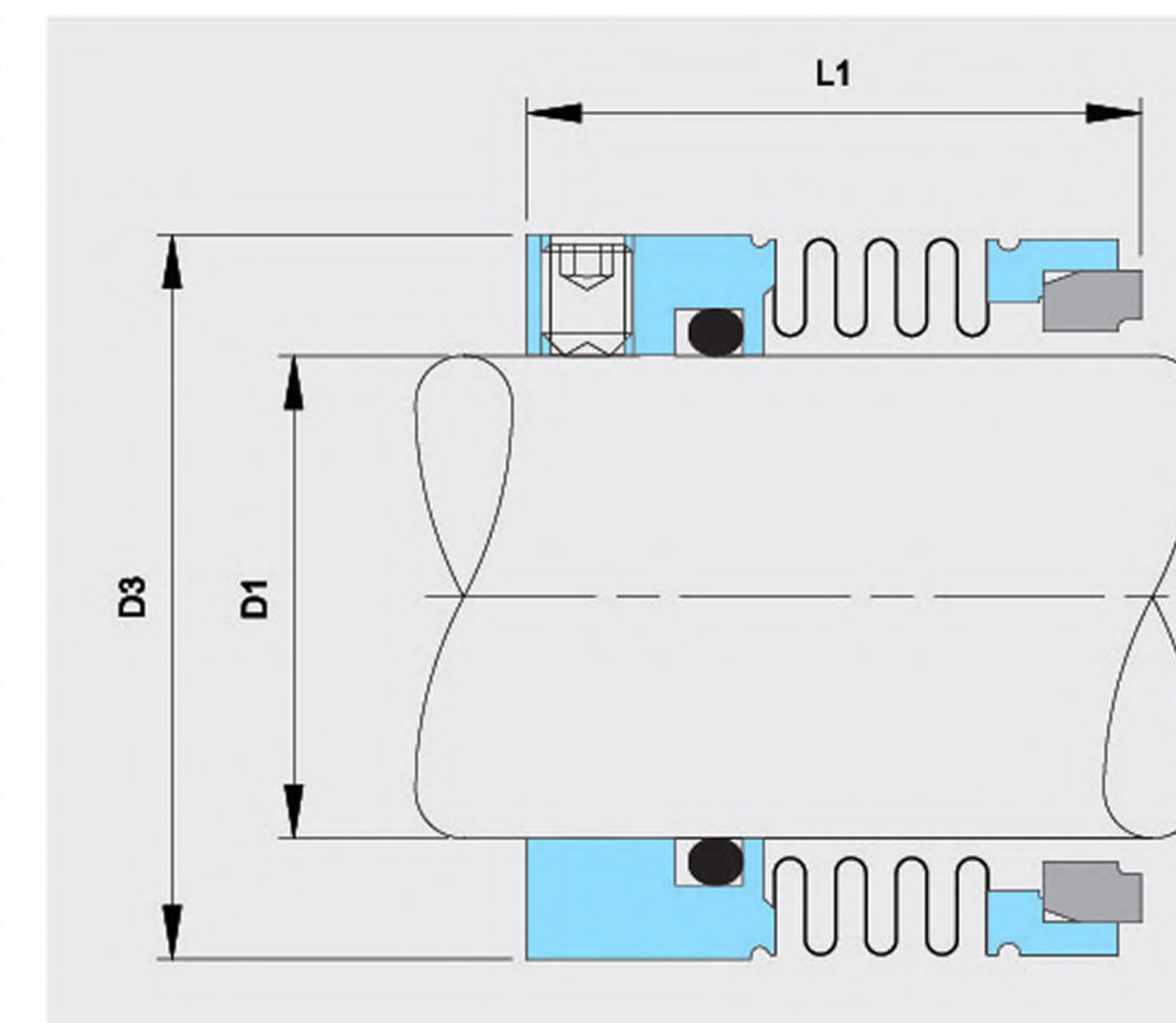
Stationary Ring: Sic/TC

Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	L1
30	0300	44.5	38.0
35	0350	48.8	43.0
38	0380	53.6	42.0
40	0400	56.6	42.0
45	0450	61.9	47.0
50	0500A	65.4	46.5
50	0500	66.3	46.5
55	0550	72.0	56.5
60	0600	76.6	56.5
65	0650	83.5	66.5
70	0700	90.0	65.5
75	0750	93.8	65.5
80	0800	96.8	75.0
85	0850	102.7	75.0
90	0900	110.0	75.0



主要技术参数

介质: 油类, 轻烃, 芳烃, 有机溶剂, 弱酸, 碱液、氨水等清洁或含颗粒流体

温度: -20°C to 200°C

压力: $\leq 2.0\text{MPa}$

转速: $\leq 23\text{m/s}$

材料:

静环: Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

弹簧及金属件: 不锈钢



TS 515



Working Conditions

Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.

Temperature: -20°C to 200°C

Pressure: $\leq 2.0\text{MPa}$

Speed: $\leq 23\text{m/s}$

Materials

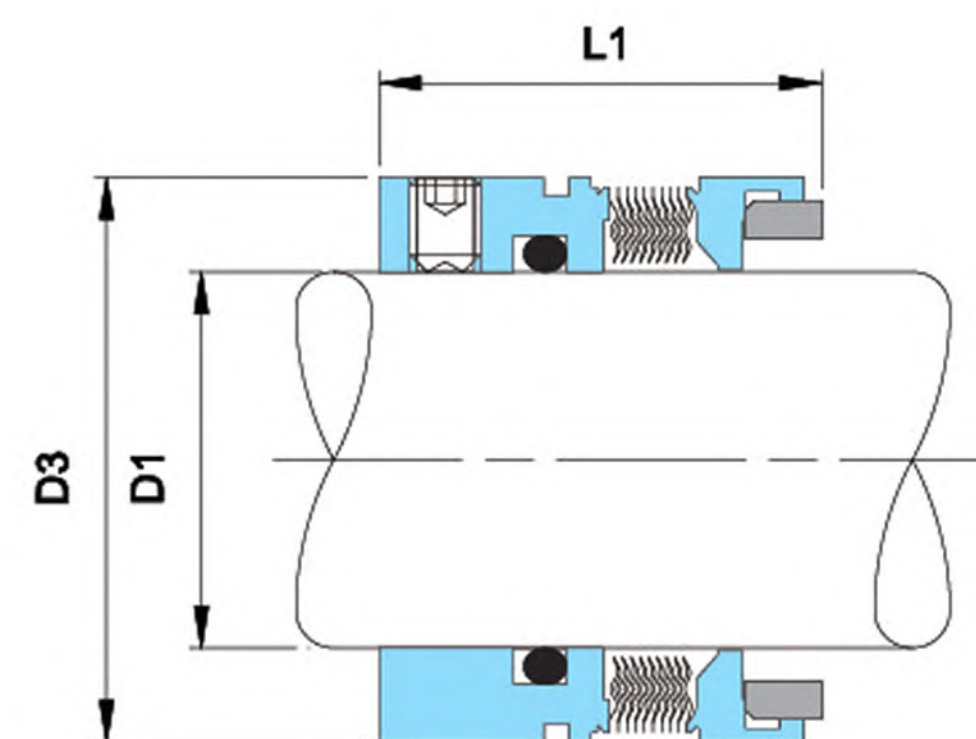
Stationary Ring: Sic/TC

Rotary Ring: Carbon/Sic/TC

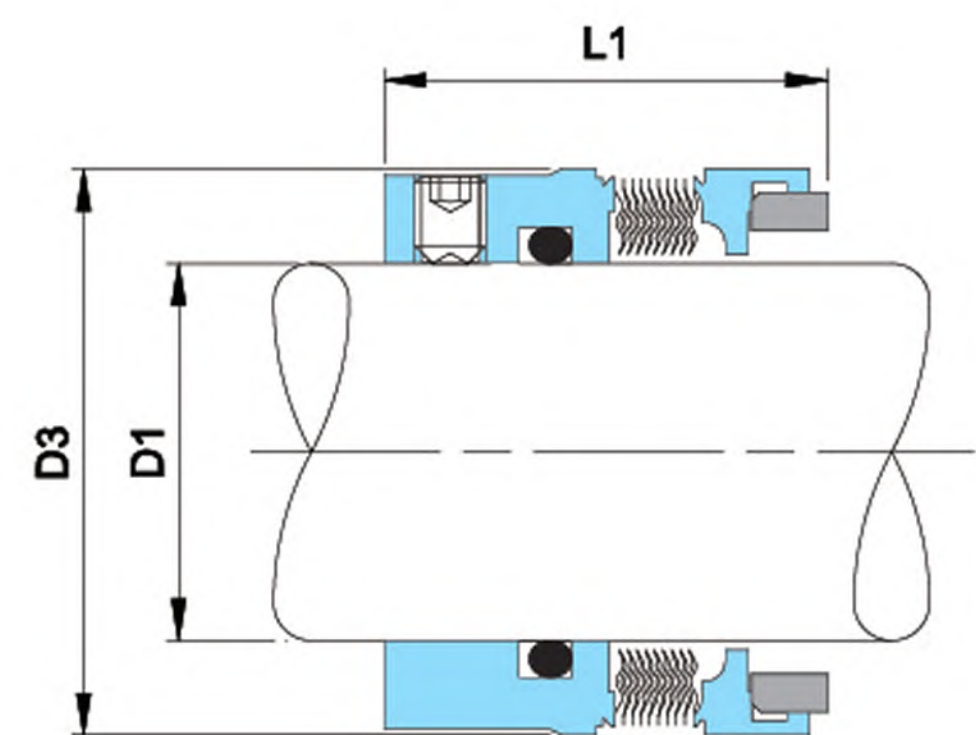
Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

D1(mm)	Size Code	D3	L1
18	0180	32.0	27.5
20	0200	33.3	27.5
22	0220	36.0	27.5
24	0240	38.1	30.0
25	0250	39.0	30.0
28	0280	42.0	32.5
30	0300	44.0	32.5
32	0320	46.0	32.5
33	0330	47.0	32.5
35	0350	49.2	32.5
38	0380	52.4	34.0
40	0400	55.6	34.0
43	0430	58.7	34.0
45	0450	58.7	34.0
48	0480	61.9	34.0
50	0500	65.1	34.5
53	0530	68.3	34.5
55	0550	71.0	34.5
60	0600	74.6	39.5
65	0650	84.1	39.5
70	0700	87.3	45.0
75	0750	95.3	45.0
80	0800	98.4	44.5
85	0850	104.8	44.5
90	0900	108.0	49.5
95	0950	114.3	49.5
100	1000	120.7	49.5
105	1050	131.7	48.3
110	1100	138.1	48.3
115	1150	144.5	48.3
120	1200	144.5	48.3
125	1250	150.8	48.3
130	1300	157.8	48.3
140	1400	170.5	48.3
150	1500	176.9	48.3



TS 680



TS 670

Working Conditions

Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.

Temperature: -20°C to 200°C

Pressure: ≤2.0MPa

Speed: ≤23m/s

Materials

Stationary Ring: Sic/TC

Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

主要技术参数

介质: 油类, 轻烃, 芳烃, 有机溶剂, 弱酸, 碱液、氨水等清洁或含颗粒流体

温度: -20°C to 200°C

压力: ≤2.0MPa

转速: ≤23m/s

材料:

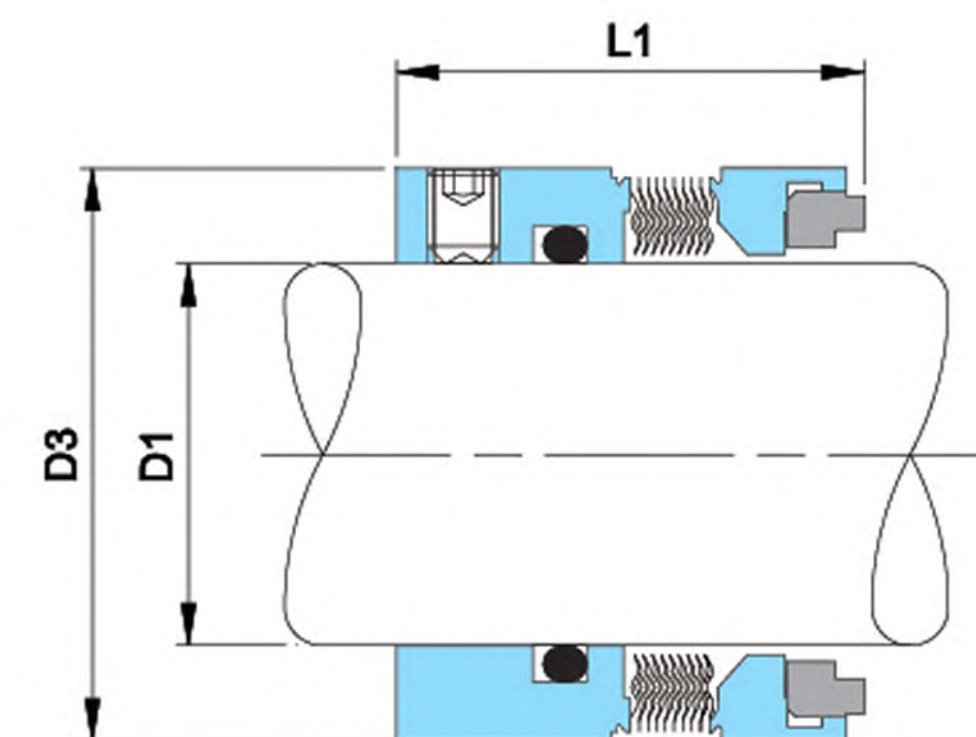
静环: Sic/TC

动环: Carbon/Sic/TC

辅助密封: NBR/EPDM/Viton

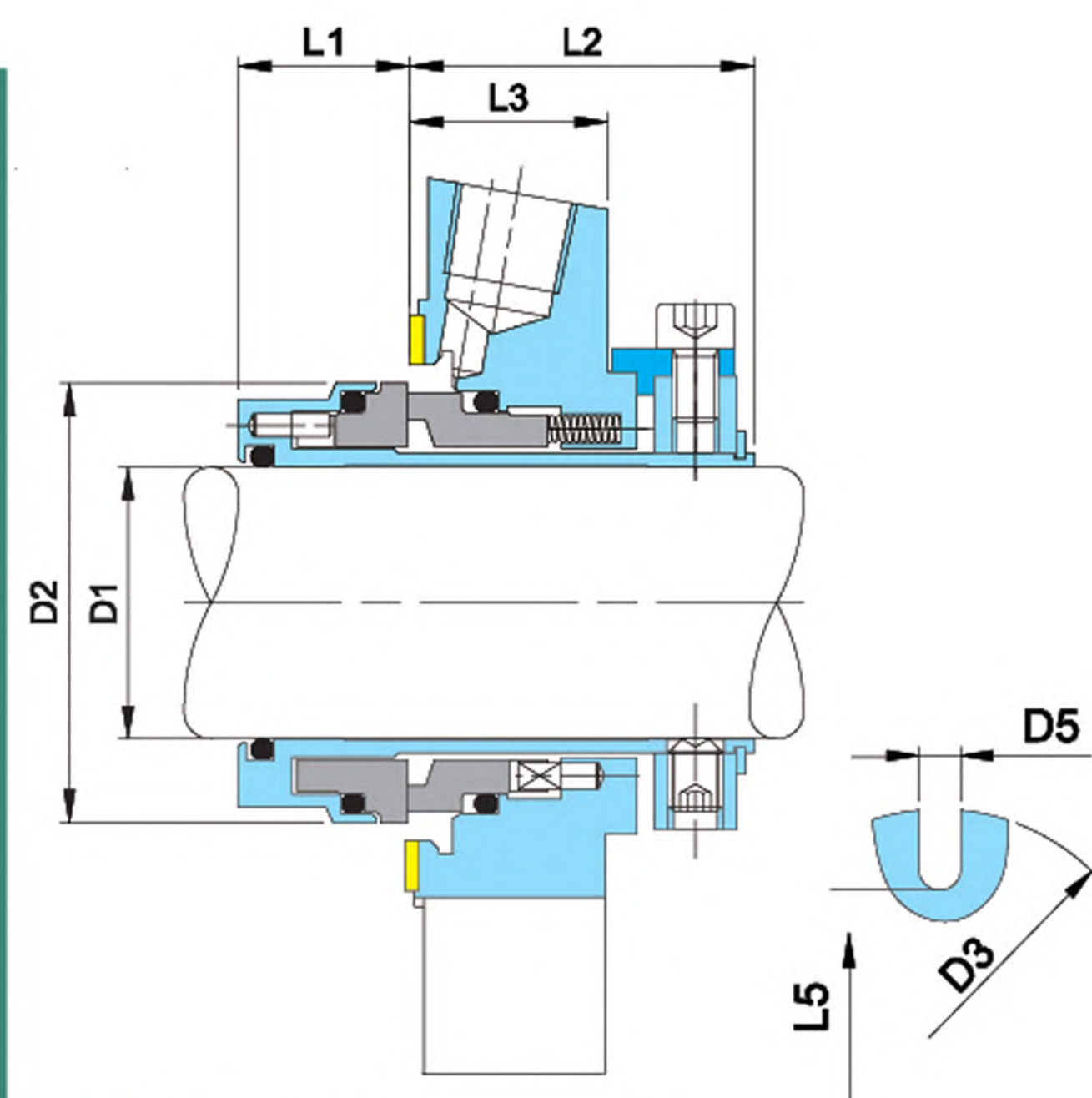
弹簧及金属件: 不锈钢

TS 680



TS 676

D1(inch)	Size Code	D3	L1
0.750	0191	33.32	31.75
0.875	0222	36.50	31.75
0.937	0238	38.10	31.75
1.000	0254	39.67	31.75
1.125	0286	42.85	31.75
1.250	0317	46.02	33.32
1.375	0349	49.20	36.50
1.500	0381	52.37	36.50
1.625	0412	55.55	36.50
1.750	0444	58.72	36.50
1.875	0476	61.90	38.10
2.000	0508	65.07	38.10
2.125	0539	68.25	38.10
2.250	0571	71.42	39.67
2.375	0603	74.60	39.67
2.500	0635	80.95	39.67
2.625	0666	84.12	41.28
2.750	0698	87.30	41.28
2.875	0730	92.08	42.85
3.000	0762	95.25	42.85
3.125	0794	98.43	44.45
3.250	0826	101.60	44.45
3.375	0857	104.78	44.45
3.500	0889	107.95	47.63
3.625	0921	111.13	47.63
3.750	0953	114.30	47.63
3.875	0984	117.48	47.63
4.000	1016	120.65	47.63
4.250	1080	131.75	48.34
4.500	1143	138.13	48.34
4.750	1207	144.48	48.34
5.000	1270	150.70	48.34
5.250	1334	157.81	48.34
5.500	1397	164.16	48.34
5.750	1461	170.54	48.34
6.000	1524	176.89	48.34



主要技术参数

介质:化工、食品、石油、制药、造纸、纸浆和污水处理

温度:根据密封圈材质而定

压力:≤2.8MPa

转速:≤35m/s

材料:

静环: Carbon/Sic/Ssic/TC

动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金

Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: ≤2.8MPa

Speed: ≤35m/s

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

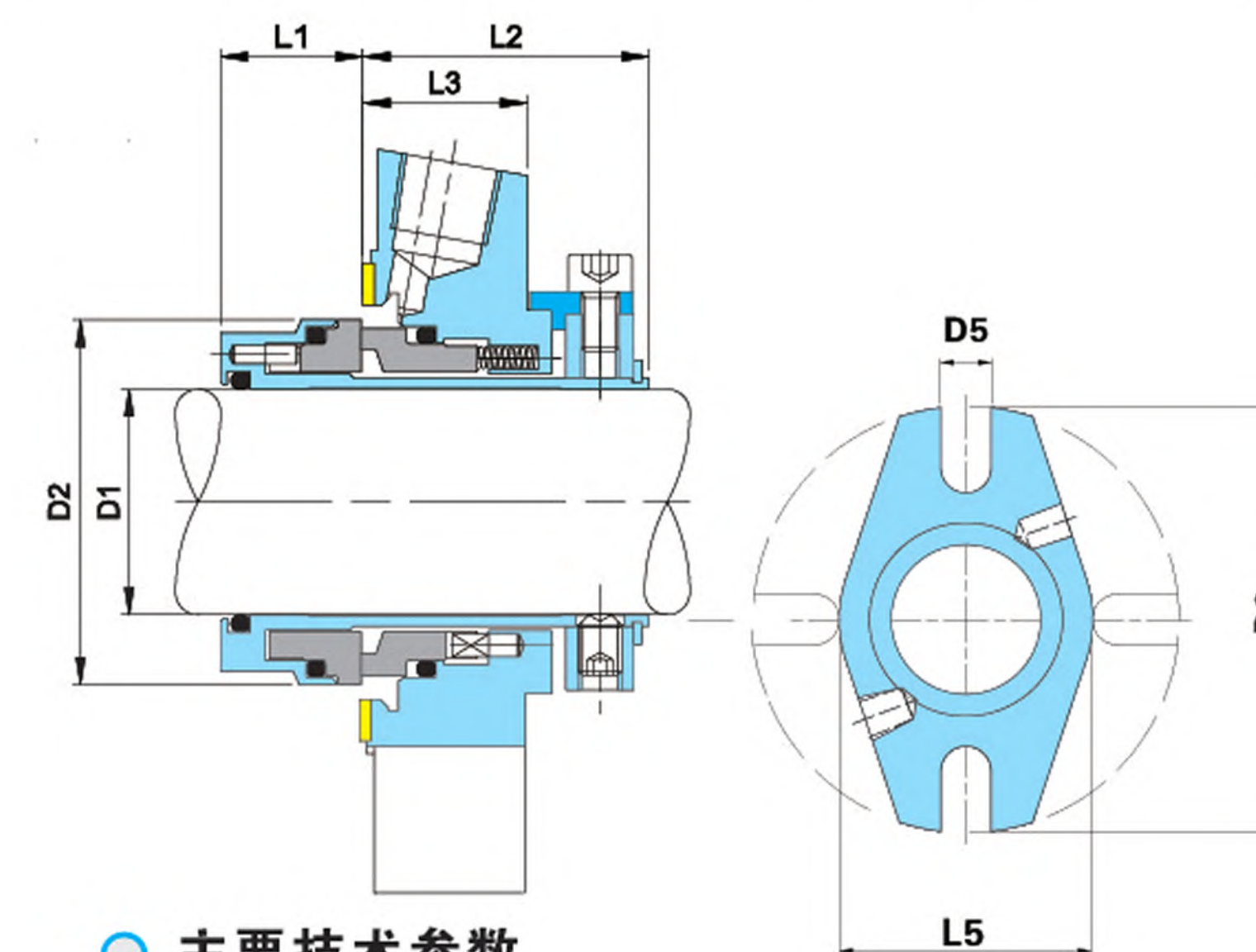
Spring and Metal Part: Stainless Steel/Hast C



TS 300

D1(mm)	D2	D3	D5	L1	L2	L3	L5	D1(inch)	D2	D3	D5	L1	L2	L3	L5
24	43.5	104	12.5	19	38	25	62	1.000	1.713	4.094	0.492	0.748	1.496	0.984	2.441
25	43.5	104	12.5	19	38	25	62	1.125	1.831	4.094	0.492	0.748	1.496	0.984	2.441
28	46.5	104	12.5	19	38	25	62	1.250	1.988	4.094	0.492	0.748	1.496	0.984	2.638
30	48.5	104	12.5	19	38	25	67	1.375	2.107	4.331	0.492	0.748	1.496	0.984	2.756
32	50.5	104	12.5	19	38	25	67	1.500	2.225	4.921	0.579	0.748	1.496	0.984	2.953
33	50.5	104	12.5	19	38	25	67	1.625	2.382	5.236	0.579	0.748	1.496	0.984	3.150
35	53.5	110	12.5	19	38	25	70	1.750	2.500	5.512	0.579	0.748	1.496	0.984	3.228
38	56.5	125	14.7	19	38	25	75	1.875	2.618	5.512	0.579	0.748	1.496	0.984	3.228
40	58.5	125	14.7	19	38	25	75	2.000	2.697	5.906	0.579	0.748	1.496	0.984	3.425
42	60.5	133	14.7	19	38	25	80	2.125	2.815	6.102	0.689	0.748	1.496	0.984	3.622
43	61.5	133	14.7	19	38	25	80	2.250	3.012	6.299	0.689	0.748	1.496	0.984	3.937
45	63.5	140	14.7	19	38	25	82	2.375	3.091	6.469	0.689	0.748	1.496	0.984	3.937
48	66.5	140	14.7	19	38	25	82	2.500	3.209	6.693	0.689	0.748	1.496	0.984	4.055
50	68.5	140	14.7	19	38	25	87	2.625	3.406	7.067	0.689	0.748	1.496	0.984	4.724
53	71.5	150	17.5	19	38	25	92	2.750	3.484	7.480	0.689	0.748	1.496	0.984	4.724
55	73.5	150	17.5	19	38	25	92	2.875	3.858	7.480	0.689	0.807	1.634	1.181	4.843
60	78.5	160	17.5	19	38	25	100	3.000	3.937	7.480	0.689	0.807	1.634	1.181	4.921
65	83.5	165	17.5	19	38	25	105	3.125	4.134	8.661	0.689	0.807	1.634	1.181	5.118
70	88.5	180	17.5	19	38	25	120	3.250	4.252	8.661	0.846	0.807	1.634	1.181	5.236
75	100	190	17.5	20.5	41.5	30	125	3.375	4.331	8.661	0.846	0.807	1.634	1.181	5.315
80	105	190	17.5	20.5	41.5	30	130	3.500	4.528	8.661	0.846	0.807	1.634	1.181	5.512
85	110	220	21.5	20.5	41.5	30	135	3.625	4.606	8.661	0.846	0.807	1.634	1.181	5.591
90	115	220	21.5	20.5	41.5	30	140	3.750	4.725	8.661	0.846	0.807	1.634	1.181	5.709
95	120	220	21.5	20.5	41.5	30	145	3.875	4.921	8.661	0.846	0.807	1.634	1.181	5.906
100	125	220	21.5	20.5	41.5	30	150	4.000	4.921	8.661	0.846	0.807	1.634	1.181	5.906

D1(mm)	D2	D3	D5	L1	L2	L3	L5	D1(inch)	D2	D3	D5	L1	L2	L3	L5
24	43.5	104	12.5	19	38	25	62	1.000	1.713	4.094	0.492	0.748	1.496	0.984	2.441
25	43.5	104	12.5	19	38	25	62	1.125	1.831	4.094	0.492	0.748	1.496	0.984	2.441
28	46.5	104	12.5	19	38	25	62	1.250	1.988	4.094	0.492	0.748	1.496	0.984	2.638
30	48.5	104	12.5	19	38	25	67	1.375	2.107	4.331	0.492	0.748	1.496	0.984	2.756
32	50.5	104	12.5	19	38	25	67	1.500	2.225	4.921	0.579	0.748	1.496	0.984	2.953
33	50.5	104	12.5	19	38	25	67	1.625	2.382	5.236	0.579	0.748	1.496	0.984	3.150
35	53.5	110	12.5	19	38	25	70	1.750	2.500	5.512	0.579	0.748	1.496	0.984	3.228
38	56.5	125	14.7	19	38	25	75	1.875	2.618	5.512	0.579	0.748	1.496	0.984	3.228
40	58.5	125	14.7	19	38	25	75	2.000	2.697	5.906	0.579	0.748	1.496	0.984	3.425
42	60.5	133	14.7	19	38	25	80	2.125	2.815	6.102	0.689	0.748	1.496	0.984	3.622
43	61.5	133	14.7	19	38	25	80	2.250	3.012	6.299	0.689	0.748	1.496	0.984	3.937
45	63.5	140	14.7	19	38	25	82	2.375	3.091	6.469	0.689	0.748	1.496	0.984	3.937
48	66.5	140	14.7	19	38	25	82	2.500	3.209	6.693	0.689	0.748	1.496	0.984	4.055
50	68.5	140	14.7	19	38	25	87	2.625	3.406	7.067	0.689	0.748	1.496	0.984	4.724
53	71.5	150	17.5	19	38	25	92	2.750	3.484	7.480	0.689	0.748	1.496	0.984	4.724
55	73.5	150	17.5	19	38	25	92	2.875	3.858	7.480	0.689	0.807	1.634	1.181	4.843
60	78.5	160	17.5	19	38	25	100	3.000	3.937	7.480	0.689	0.807	1.634	1.181	4.921
65	83.5	165	17.5	19	38	25	105	3.125	4.134	8.661	0.689	0.807	1.634	1.181	5.118
70	88.5	180	17.5	19	38	25	120	3.250	4.252	8.661	0.846	0.807	1.634	1.181	5.236
75	100	190	17.5	20.5	41.5	30	125	3.375	4.331	8.661	0.846	0.807	1.634	1.181	5.315
80	105	190	17.5	20.5	41.5	30	130	3.500	4.528	8.661	0.846	0.807	1.634	1.181	5.512
85	110	220	21.5	20.5	41.5	30	135	3.625	4.606	8.661	0.846	0.807	1.634	1.181	5.591
90	115	220	21.5	20.5	41.5	30	140	3.750	4.725	8.661	0.846	0.807	1.634	1.181	5.709
95	120	220	21.5	20.5	41.5	30	145	3.875	4.921	8.661	0.846	0.807	1.634	1.181	5.906
100	125	220	21.5	20.5	41.5	30	150	4.000	4.921	8.661	0.846	0.807	1.634	1.181	5.906



主要技术参数

介质:化工、食品、石油、制药、造纸、纸浆和污水处理

温度:根据密封圈材质而定

压力:≤2.8MPa

转速:≤35m/s

材料:

静环: Carbon/Sic/Ssic/TC

动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金

Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: ≤2.8MPa

Speed: ≤35m/s

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

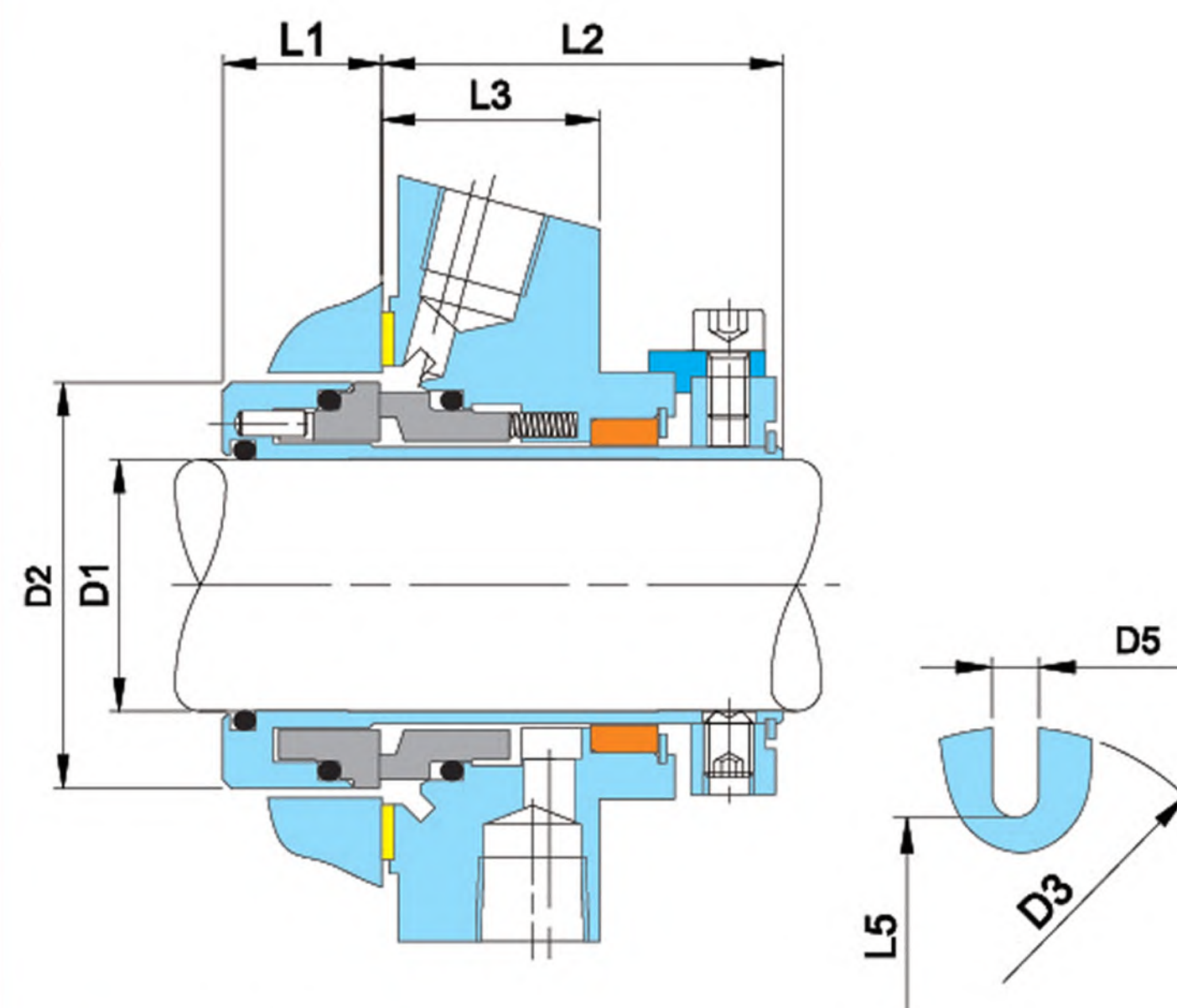
Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

Spring and Metal Part: Stainless Steel/Hast C



TS 270



主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理

温度: 根据密封圈材质而定

压力: $\leq 2.8\text{MPa}$

转速: $\leq 35\text{m/s}$

材料:

静环: Carbon/Sic/Ssic/TC

动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金

Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: $\leq 2.8\text{MPa}$

Speed: $\leq 35\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

Spring and Metal Part: Stainless Steel/Hast C

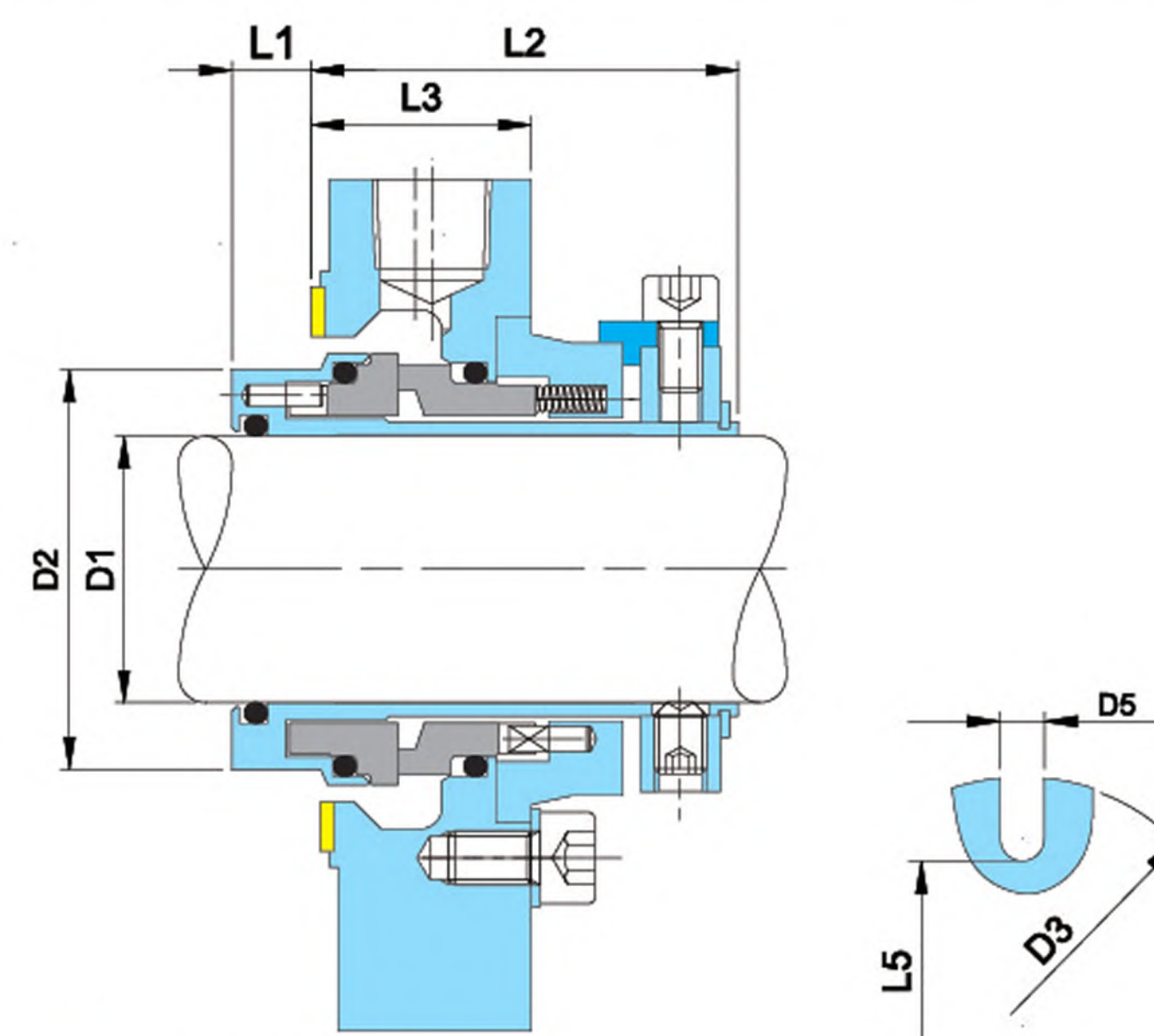


TS 300Q

D1(mm)	D2	D3	D5	L1	L2	L3	L5
24	43.5	104	12.5	19	48	25	62
25	43.5	104	12.5	19	48	25	62
28	46.5	104	12.5	19	48	25	62
30	48.5	104	12.5	19	48	25	67
32	50.5	104	12.5	19	48	25	67
33	50.5	104	12.5	19	48	25	67
35	53.5	110	12.5	19	48	25	70
38	56.5	125	14.7	19	48	25	75
40	58.5	125	14.7	19	48	25	75
42	60.5	133	14.7	19	48	25	80
43	61.5	133	14.7	19	48	25	80
45	63.5	140	14.7	19	48	25	82
48	66.5	140	14.7	19	48	25	82
50	68.5	140	14.7	19	48	25	87
53	71.5	150	17.5	19	48	25	92
55	73.5	150	17.5	19	48	25	92
60	78.5	160	17.5	19	48	25	100
65	83.5	165	17.5	19	48	25	105
70	88.5	180	17.5	19	48	25	120
75	100	190	17.5	20.5	51.5	30	125
80	105	190	17.5	20.5	51.5	30	130
85	110	220	21.5	20.5	51.5	30	135
90	115	220	21.5	20.5	51.5	30	140
95	120	220	21.5	20.5	51.5	30	145
100	125	220	21.5	20.5	51.5	30	150

D1(inch)	D2	D3	D5	L1	L2	L3	L5
1.000	1.713	4.094	0.492	0.748	1.890	0.984	2.441
1.125	1.831	4.094	0.492	0.748	1.890	0.984	2.441
1.250	1.988	4.094	0.492	0.748	1.890	0.984	2.638
1.375	2.107	4.331	0.492	0.748	1.890	0.984	2.756
1.500	2.225	4.921	0.579	0.748	1.890	0.984	2.953
1.625	2.382	5.236	0.579	0.748	1.890	0.984	3.150
1.750	2.500	5.512	0.579	0.748	1.890	0.984	3.228
1.875	2.618	5.512	0.579	0.748	1.890	0.984	3.228
2.000	2.697	5.906	0.579	0.748	1.890	0.984	3.425
2.125	2.815	6.102	0.689	0.748	1.890	0.984	3.622
2.250	3.012	6.299	0.689	0.748	1.890	0.984	3.937
2.375	3.091	6.469	0.689	0.748	1.890	0.984	3.937
2.500	3.209	6.693	0.689	0.748	1.890	0.984	4.055
2.625	3.406	7.067	0.689	0.748	1.890	0.984	4.724
2.750	3.484	7.480	0.689	0.748	1.890	0.984	4.724
2.875	3.858	7.480	0.689	0.807	2.027	1.181	4.843
3.000	3.937	7.480	0.689	0.807	2.027	1.181	4.921
3.125	4.134	8.661	0.689	0.807	2.027	1.181	5.118
3.250	4.252	8.661	0.846	0.807	2.027	1.181	5.236
3.375	4.331	8.661	0.846	0.807	2.027	1.181	5.315
3.500	4.528	8.661	0.846	0.807	2.027	1.181	5.512
3.625	4.606	8.661	0.846	0.807	2.027	1.181	5.591
3.750	4.725	8.661	0.846	0.807	2.027	1.181	5.709
3.875	4.921	8.661	0.846	0.807	2.027	1.181	5.906
4.000	4.921	8.661	0.846	0.807	2.027	1.181	5.906

D1(mm)	D2	D3	D5	L1	L2	L3	L5
24	40	104	12.5	9	48	25	62
25	40	104	12.5	9	48	25	62
28	43	104	12.5	9	48	25	62
30	45	104	12.5	9	48	25	67
32	47	104	12.5	9	48	25	67
33	47	104	12.5	9	48	25	67
35	50	110	12.5	9	48	25	70
38	53	125	14.7	9	48	25	75
40	55	125	14.7	9	48	25	75
42	57	133	14.7	9	48	25	80
43	58	133	14.7	9	48	25	80
45	60	140	14.7	9	48	25	82
48	63	140	14.7	9	48	25	82
50	65	140	14.7	9	48	25	87
53	68	150	17.5	9	48	25	92
55	70	150	17.5	9	48	25	92
60	75	160	17.5	9	48	25	100
65	80	165	17.5	9	48	25	105
70	85	180	17.5	9	48	25	120
75	95	190	17.5	8	54	30	125
80	100	190	17.5	8	54	30	130
85	105	220	21.5	8	54	30	135
90	110	220	21.5	8	54	30	140
95	115	220	21.5	8	54	30	145
100	120	220	21.5	8	54	30	150



主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理

温度: 根据密封圈材质而定

压力: $\leq 2.8\text{MPa}$

转速: $\leq 35\text{m/s}$

材料:

静环: Carbon/Sic/Ssic/TC

动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金

Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: $\leq 2.8\text{MPa}$

Speed: $\leq 35\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

Spring and Metal Part: Stainless Steel/Hast C



TS 300A



TS 380Q

主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理

温度: 根据密封圈材质而定

压力: $\leq 2.8\text{MPa}$

转速: $\leq 35\text{m/s}$

材料:

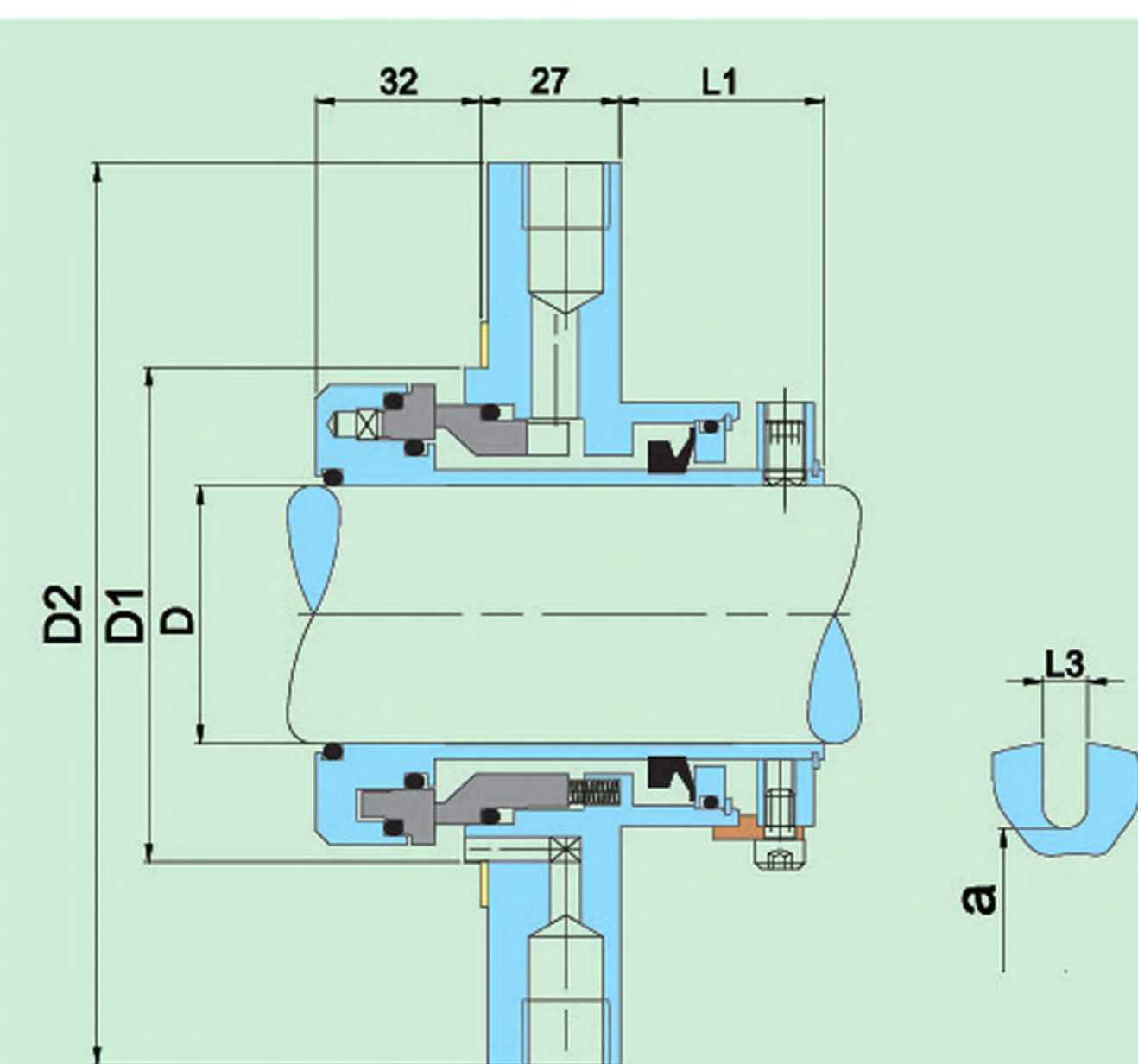
静环: Carbon/Sic/Ssic/TC

动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金

D(mm)	D1	D2	L1	L3	a
50	95	180	37.6	17.5	113
55	100	185	37.6	17.5	118
60	105	190	37.6	17.5	123
65	110	195	39.6	17.5	128
70	115	200	39.6	17.5	133
75	120	205	39.6	17.5	138
80	125	210	39.6	17.5	143
85	130	215	39.6	21.5	148
90	135	220	39.6	21.5	153
95	140	225	39.6	21.5	158
100	145	230	38.6	21.5	163
105	150	235	38.6	21.5	168
110	155	240	38.6	21.5	173
115	160	245	38.6	21.5	178
120	165	250	38.6	21.5	183
125	170	255	38.6	21.5	188
130	175	260	38.6	21.5	193
135	180	265	38.6	21.5	198
140	185	270	38.6	21.5	203
145	190	275	38.6	21.5	208
150	195	280	38.6	21.5	213
155	200	285	38.6	21.5	218
160	205	290	38.6	21.5	223
165	210	295	38.6	21.5	228
170	215	300	38.6	21.5	233
175	220	305	38.6	21.5	238
180	225	310	38.6	21.5	243
185	230	315	38.6	21.5	248
190	235	320	38.6	21.5	253
195	240	325	38.6	21.5	258
200	245	330	38.6	21.5	263
205	250	335	38.6	21.5	268
210	255	340	38.6	21.5	273
215	260	345	38.6	21.5	278
220	265	350	38.6	21.5	283



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: $\leq 2.8\text{MPa}$

Speed: $\leq 35\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

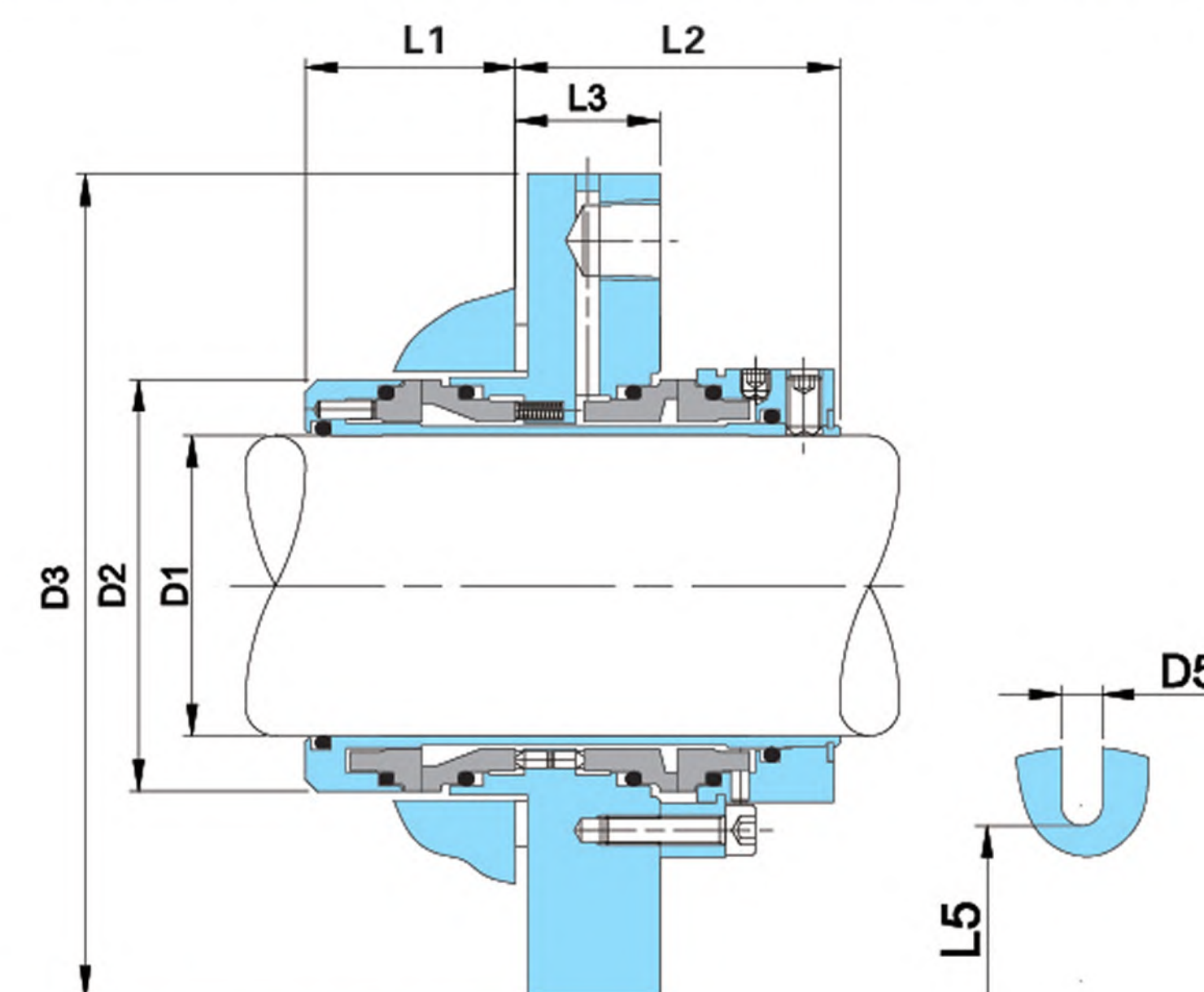
Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

Spring and Metal Part: Stainless Steel/Hast C

D1(mm)	D2	D3	D5	L1	L2	L3	L5
24	44.5	104	12.5	35	54	24	62
25	44.5	104	12.5	35	54	24	62
28	47.5	104	12.5	35	54	24	62
30	49.5	104	12.5	35	54	24	67
32	51.5	104	12.5	35	54	24	67
33	51.5	104	12.5	35	54	24	67
35	54.5	110	12.5	35	54	24	70
38	57.5	125	14.7	35	54	24	75
40	59.5	125	14.7	35	54	24	75
42	61.5	133	14.7	35	54	24	80
43	62.5	133	14.7	35	54	24	80
45	64.5	140	14.7	35	54	24	82
48	67.5	140	14.7	35	54	24	82
50	69.5	140	14.7	35	54	24	87
53	72.5	150	17.5	35	54	24	92
55	74.5	150	17.5	35	54	24	92
60	79.5	160	17.5	35	54	24	100
65	84.5	165	17.5	35	54	24	105
70	89.5	180	17.5	35	54	24	120
75	102	190	17.5	39	58	26	125
80	107	190	17.5	39	58	26	130
85	112	220	21.5	39	58	26	135
90	117	220	21.5	39	58	26	140
95	122	220	21.5	39	58	26	145
100	127	220	21.5	39	58	26	150

D1(inch)	D2	D3	D5	L1	L2	L3	L5
1.000	1.752	4.094	0.492	1.378	2.126	0.984	2.441
1.125	1.870	4.094	0.492	1.378	2.126	0.984	2.441
1.250	2.027	4.094	0.492	1.378	2.126	0.984	2.638
1.375	2.146	4.331	0.492	1.378	2.126	0.984	2.756
1.500	2.264	4.921	0.579	1.378	2.126	0.984	2.953
1.625	2.421	5.236	0.579	1.378	2.126	0.984	3.150
1.750	2.539	5.512	0.579	1.378	2.126	0.984	3.228
1.875	2.657	5.512	0.579	1.378	2.126	0.984	3.228
2.000	2.736	5.906	0.579	1.378	2.126	0.984	3.425
2.125	2.854	6.102	0.689	1.378	2.126	0.984	3.622
2.250	3.051	6.299	0.689	1.378	2.126	0.984	3.937
2.375	3.130	6.469	0.689	1.378	2.126	0.984	3.937
2.500	3.248	6.693	0.689	1.378	2.126	0.984	4.055
2.625	3.445	7.067	0.689	1.378	2.126	0.984	4.724
2.750	3.523	7.480	0.689	1.378	2.126	0.984	4.724
2.875	3.937	7.480	0.689	1.535	2.283	1.181	4.843
3.000	4.016	7.480	0.689	1.535	2.283	1.181	4.921
3.125	4.213	8.661	0.689	1.535	2.283	1.181	5.118
3.250	4.331	8.661	0.846	1.535	2.283	1.181	5.236
3.375	4.410	8.661	0.846	1.535	2.283	1.181	5.315
3.500	4.607	8.661	0.846	1.535	2.283	1.181	5.512
3.625	4.685	8.661	0.846	1.535	2.283	1.181	5.591
3.750	4.804	8.661	0.846	1.535	2.283	1.181	5.709
3.875	5.000	8.661	0.846	1.535	2.283	1.181	5.906
4.000	5.000	8.661	0.846	1.535	2.283	1.181	5.906



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment

Temperature: Elastomer Dependent

Pressure: $\leq 2.8\text{MPa}$

Speed: $\leq 35\text{m/s}$

Materials

Stationary Ring: Carbon/Sic/Ssic/TC

Rotary Ring: Sic/Ssic/TC

Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

Spring and Metal Part: Stainless Steel/Hast C

主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理

温度: 根据密封圈材质而定

压力: $\leq 2.8\text{MPa}$

转速: $\leq 35\text{m/s}$

材料:

静环: Carbon/Sic/Ssic/TC

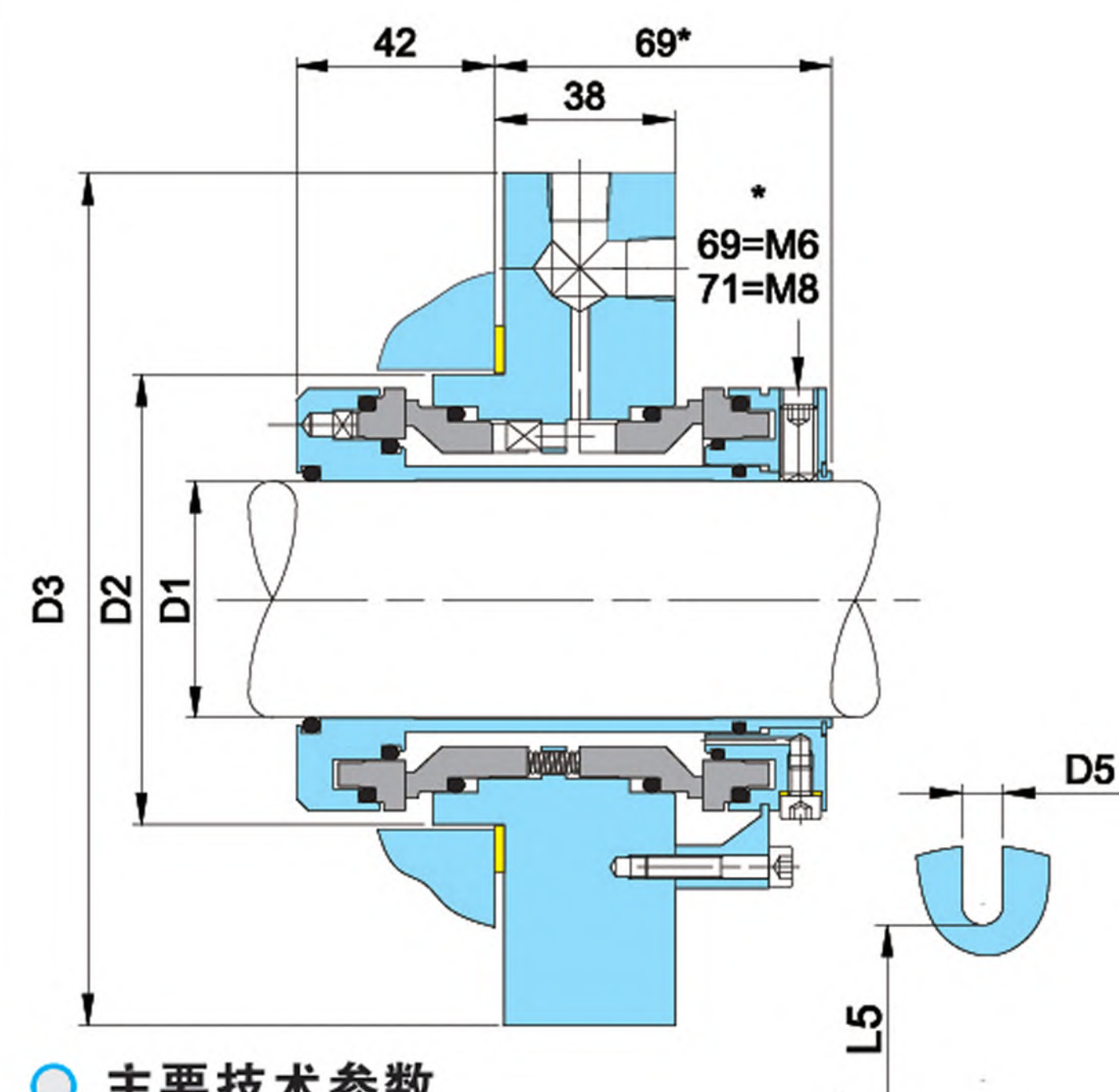
动环: Sic/Ssic/TC

辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

弹簧及金属件: 不锈钢/哈氏合金



TS 320



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment
 Temperature: Elastomer Dependent
 Pressure: $\leq 2.8\text{MPa}$
 Speed: $\leq 25\text{m/s}$

Materials
 Stationary Ring: Carbon/Sic/Ssic/TC
 Rotary Ring: Sic/Ssic/TC
 Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 Spring and Metal Part: Stainless Steel/Hast C



TS 365

主要技术参数

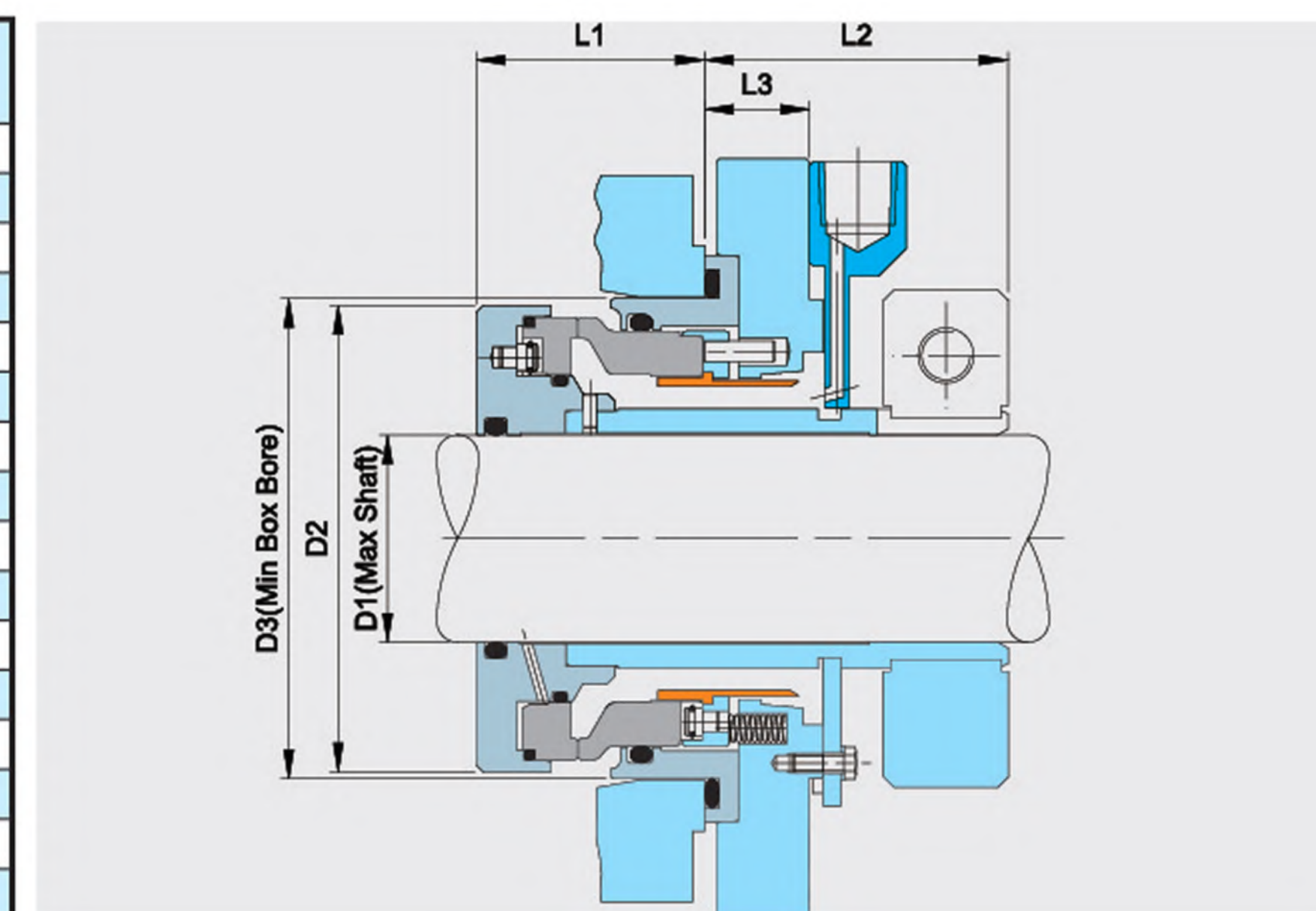
介质: 化工、食品、石油、制药、造纸、纸浆和污水处理
 温度: 根据密封圈材质而定
 压力: $\leq 2.8\text{MPa}$
 转速: $\leq 25\text{m/s}$

材料:
 静环: Carbon/Sic/Ssic/TC
 动环: Sic/Ssic/TC
 辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.

D1(mm)	D2	D3	L5	D5
50	95.0	180.0	113.0	17.5
55	100.0	185.0	118.0	17.5
60	105.0	190.0	123.0	17.5
65	110.0	195.0	128.0	17.5
70	115.0	200.0	133.0	17.5
75	120.0	205.0	138.0	17.5
80	125.0	210.0	143.0	17.5
85	130.0	215.0	148.0	21.5
90	135.0	220.0	153.0	21.5
95	140.0	225.0	158.0	21.5
100	145.0	230.0	163.0	21.5
105	150.0	235.0	168.0	21.5
110	155.0	240.0	173.0	21.5
115	160.0	245.0	178.0	21.5
120	165.0	250.0	183.0	21.5
125	170.0	255.0	188.0	21.5
130	175.0	260.0	193.0	21.5
135	180.0	265.0	198.0	21.5
140	185.0	270.0	203.0	21.5
145	190.0	275.0	208.0	21.5
150	195.0	280.0	213.0	21.5
155	200.0	285.0	218.0	21.5
160	205.0	290.0	223.0	21.5
165	210.0	295.0	228.0	21.5
170	215.0	300.0	233.0	21.5
175	220.0	305.0	238.0	21.5
180	225.0	310.0	243.0	21.5
185	230.0	315.0	248.0	21.5
190	235.0	320.0	253.0	21.5
195	240.0	325.0	258.0	21.5
200	245.0	330.0	263.0	21.5

D1(inch)	D2	D3	L5	D5
2.000	3.937	7.283	4.646	0.689
2.125	3.937	7.283	4.646	0.689
2.375	4.134	7.480	4.843	0.689
2.625	4.528	7.874	5.236	0.689
2.750	4.528	7.874	5.236	0.689
2.875	4.724	8.071	5.433	0.689
3.000	4.921	8.268	5.630	0.689
3.125	4.921	8.268	5.630	0.689
3.250	5.118	8.465	5.827	0.846
3.375	5.315	8.661	6.024	0.846
3.500	5.315	8.661	6.024	0.846
3.625	5.512	8.858	6.220	0.846
3.750	5.512	8.858	6.220	0.846
3.875	5.709	9.055	6.417	0.846
4.000	5.906	9.252	6.614	0.846
4.250	6.102	9.449	6.811	0.846
4.500	6.299	9.646	7.008	0.846
4.750	6.693	10.039	7.402	0.846
5.000	6.890	10.236	7.598	0.846
5.250	7.087	10.433	7.795	0.846
5.500	7.283	10.630	7.992	0.846
5.750	7.677	11.024	8.386	0.846
6.000	7.874	11.220	8.583	0.846
6.250	8.071	11.417	8.780	0.846
6.500	8.268	11.614	8.976	0.846
6.750	8.661	12.008	9.370	0.846
7.000	8.858	12.205	9.567	0.846
7.250	9.055	12.402	9.764	0.846
7.500	9.449	12.795	10.157	0.846

D1(mm)	D2	D3	L1	L2	L3
30	67.0	73.0	32.5	54.5	20.0
41.3	85.0	91.0	32.5	60.5	23.0
48	90.0	96.0	34.5	63.5	26.0
55	100.0	106.0	34.5	63.5	26.0
70	119.0	125.0	40.5	63.5	26.0
76.2	130.0	136.0	47.5	66.5	27.0
86	138.5	144.5	45.5	66.5	27.0
92	148.0	154.0	45.5	66.5	27.0
112	172.0	178.0	59.0	75.0	28.5
124	187.0	193.0	59.0	75.0	28.5
140	205.0	211.0	59.0	75.0	28.5
158	225.0	231.0	60.5	78.5	32.0
165.1	240.0	246.0	60.0	79.0	32.5
194	266.0	272.0	60.0	79.0	32.5
200	275.0	281.0	67.4	82.0	35.5
220	288.0	294.0	69.3	82.0	35.5



TS 5860

主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理
 温度: 根据密封圈材质而定
 压力: $\leq 2.8\text{MPa}$
 转速: $\leq 25\text{m/s}$

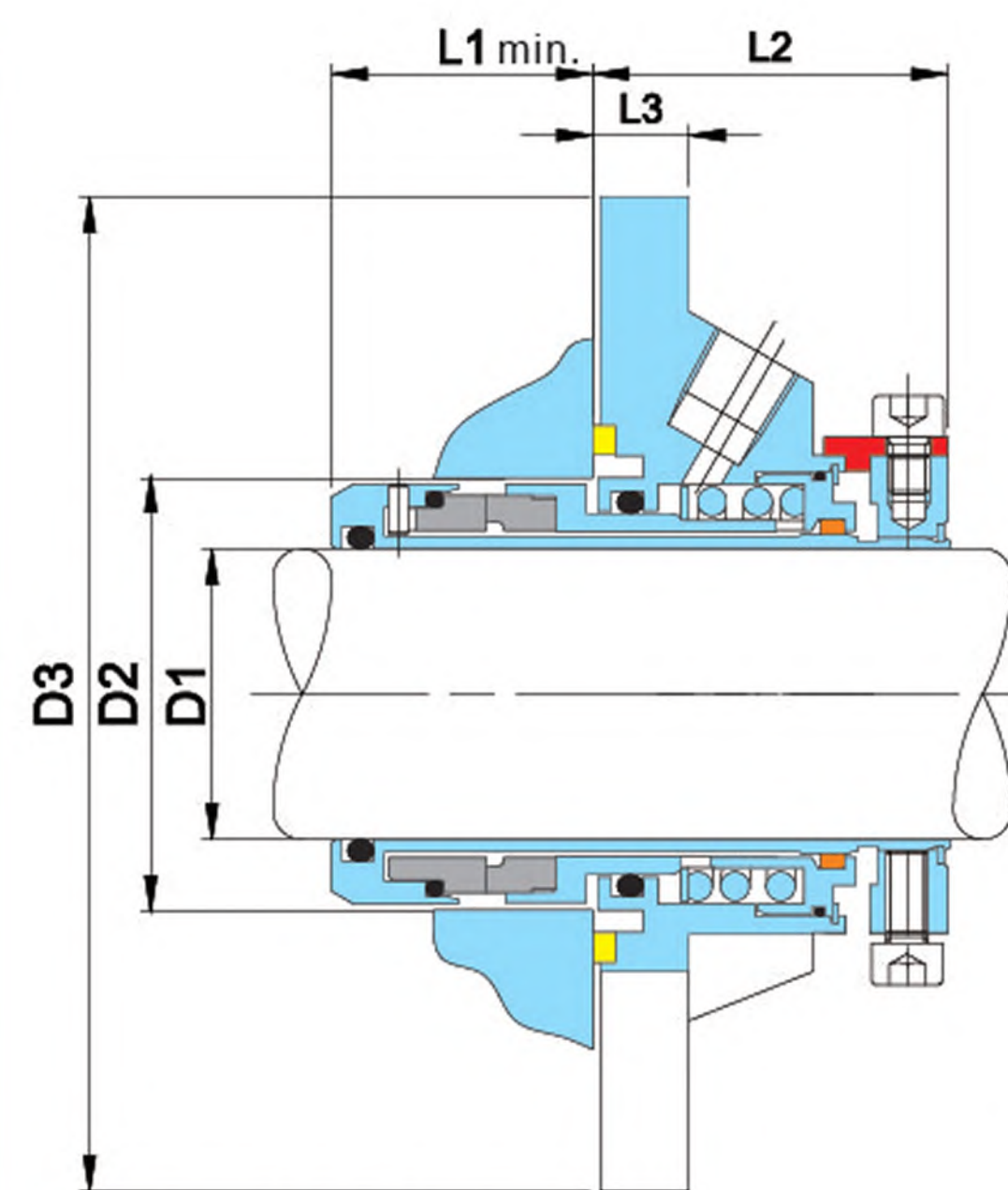
材料:
 静环: Carbon/Sic/Ssic/TC
 动环: Sic/Ssic/TC
 辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 弹簧及金属件: 不锈钢/哈氏合金



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment
 Temperature: Elastomer Dependent
 Pressure: $\leq 2.8\text{MPa}$
 Speed: $\leq 25\text{m/s}$

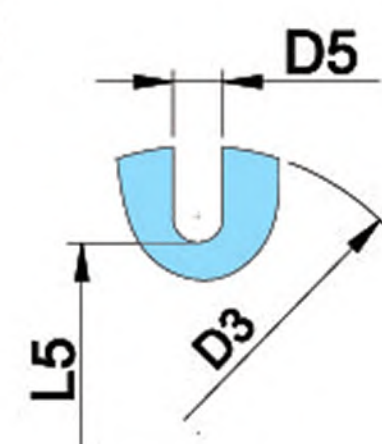
Materials
 Stationary Ring: Carbon/Sic/Ssic/TC
 Rotary Ring: Sic/Ssic/TC
 Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 Spring and Metal Part: Stainless Steel/Hast C



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment
 Temperature: Elastomer Dependent
 Pressure: $\leq 2.8\text{MPa}$
 Speed: $\leq 25\text{m/s}$

Materials
 Stationary Ring: Carbon/Sic/Ssic/TC
 Rotary Ring: Sic/Ssic/TC
 Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 Spring and Metal Part: Stainless Steel/Hast C



主要技术参数

介质: 化工、食品、石油、制药、造纸、纸浆和污水处理
 温度: 根据密封圈材质而定
 压力: $\leq 2.8\text{MPa}$
 转速: $\leq 25\text{m/s}$

材料:
 静环: Carbon/Sic/Ssic/TC
 动环: Sic/Ssic/TC
 辅助密封: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 弹簧及金属件: 不锈钢/哈氏合金

TS FET



P06-25.4/38.1



P07-22A



P07-22B



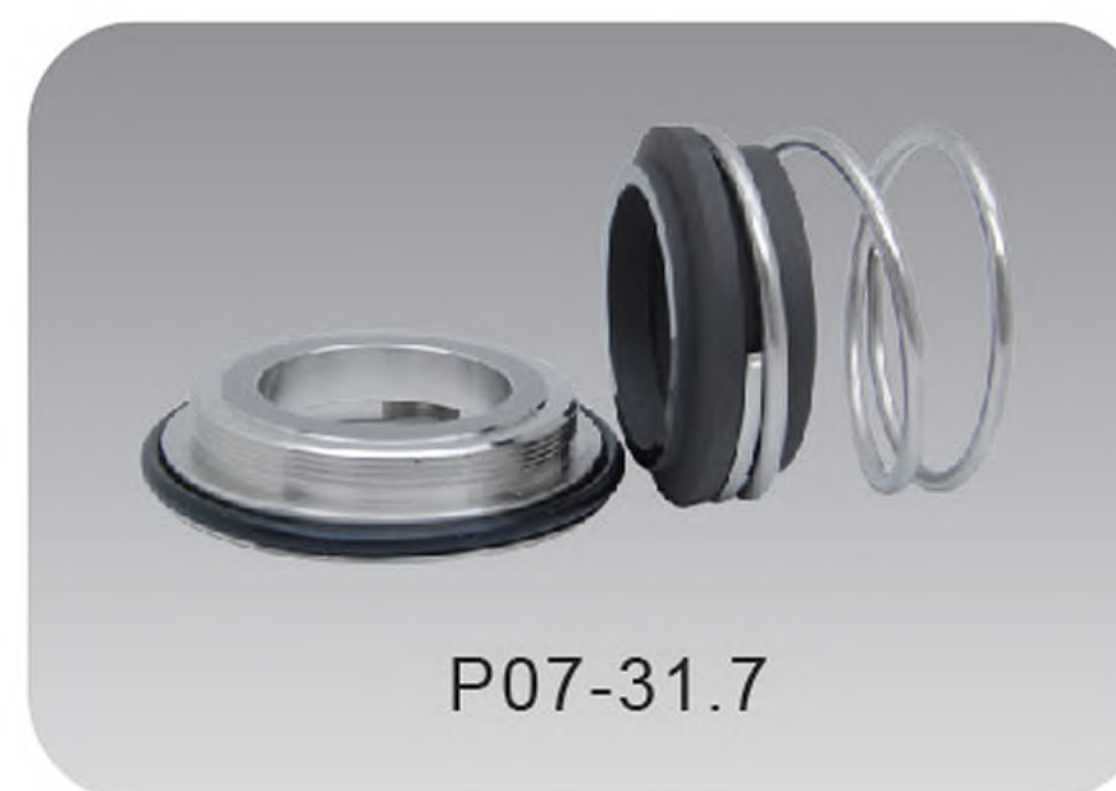
P07-22C



P07-22D



P07-27



P07-31.7



P09-21/28

Metric Shaft D1(mm)	Size Code	D2		D3	D5	L1	L2	L3	L5
		Min	Max						
25	0250	41.0	47.5	112.0	9.53	38.0	48.0	12	58.0
28	0280	44.0	50.5	116.0	9.53	38.0	48.0	12	61.0
30	0300	46.0	52.5	117.0	9.53	38.0	48.0	12	63.0
32	0320	48.0	54.5	119.0	9.53	38.0	48.0	12	65.0
33	0330	51.0	57.5	122.0	9.53	38.0	48.0	12	68.0
35	0350	51.0	57.5	122.0	9.53	38.0	48.0	12	68.0
38	0380	57.0	63.5	128.0	9.53	40.0	48.0	12	74.0
40	0400	60.0	66.5	136.0	12.70	40.0	48.0	12	76.5
43	0430	63.5	70.0	140.0	12.70	40.0	48.0	12	81.0
45	0450	63.5	70.0	140.0	12.70	40.0	48.0	12	81.0
48	0480	66.8	73.0	145.0	12.70	40.0	50.0	13	74.0
50	0500	70.0	76.5	150.0	12.70	40.0	50.0	13	87.0
53	0530	73.0	79.5	155.0	12.70	40.0	50.0	13	91.0
55	0550	73.0	79.5	155.0	12.70	40.0	50.0	13	91.0
60	0600	79.4	85.5	165.0	12.70	40.0	50.0	13	98.5
65	0650	90.0	96.5	190.0	15.87	46.0	57.0	13	111.5
70	0700	95.0	101.4	200.0	15.87	46.0	57.0	13	118.5
75	0750	101.6	108.0	205.0	15.87	46.0	57.0	13	125.0
80	0800	108.0	114.5	210.0	15.87	46.0	57.0	13	131.5
85	0850	111.0	124.0	240.0	15.87	48.0	60.5	13	138.0
90	0900	117.5	131.0	275.0	19.05	48.0	62.5	13	146.00
95	0950	120.5	131.0	275.0	19.05	48.0	62.5	16	146.00
100	1000	127.0	136.0	280.0	19.05	48.0	62.5	16	152.00



TOR-20/25



TOW-25/35



TOR2-20/25



TOWP-25/35



TOR3-20/25



EMU-35/50/75



TOWD-25/35



T01F-22A/30A



T01F-22B/30B



T01F-22C/30C



T01FI-35



T38-15/20



W08-48



M07-15.8/25.4/38.1



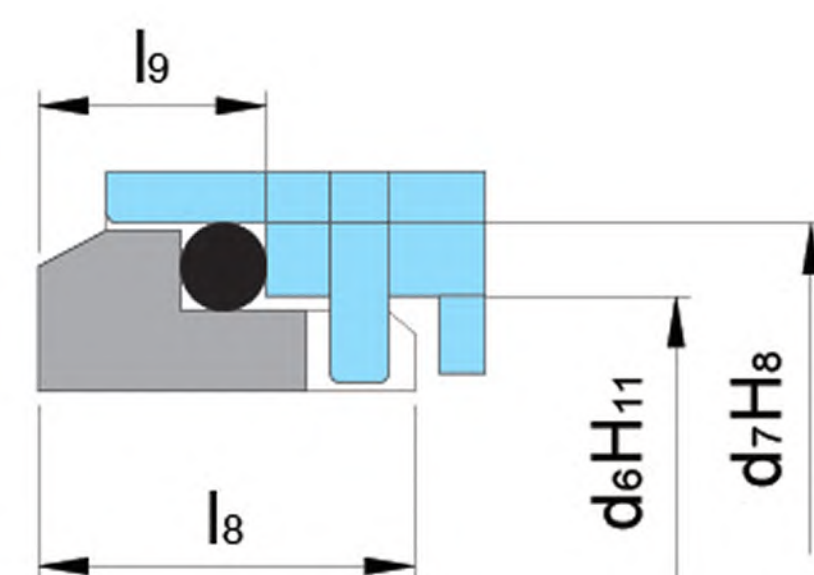
T01FE-22/30



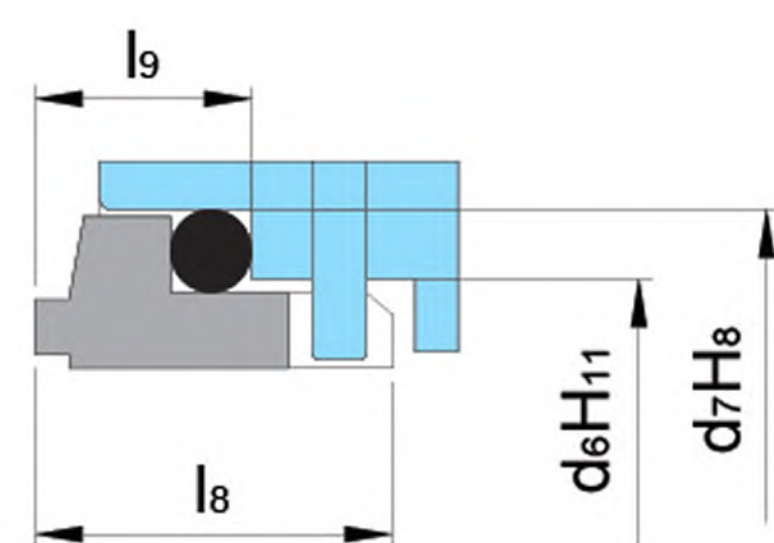
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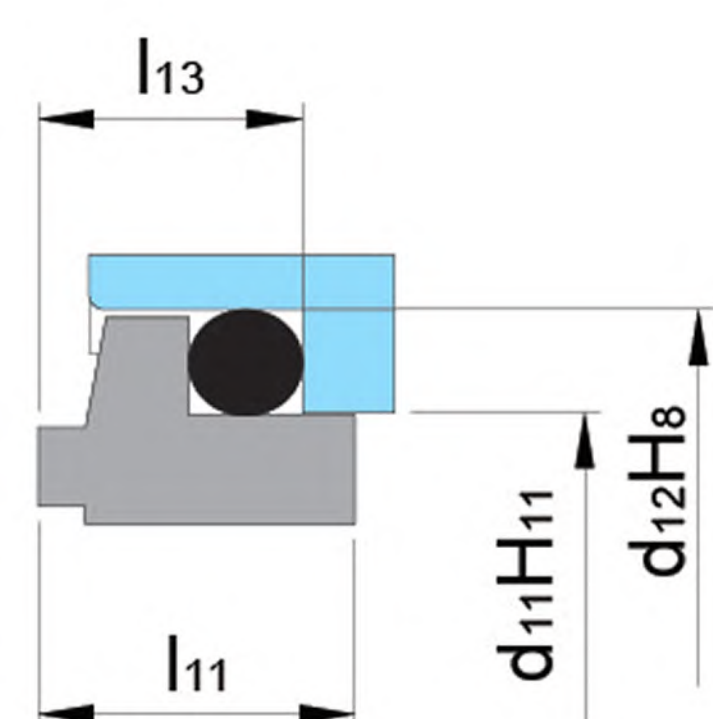
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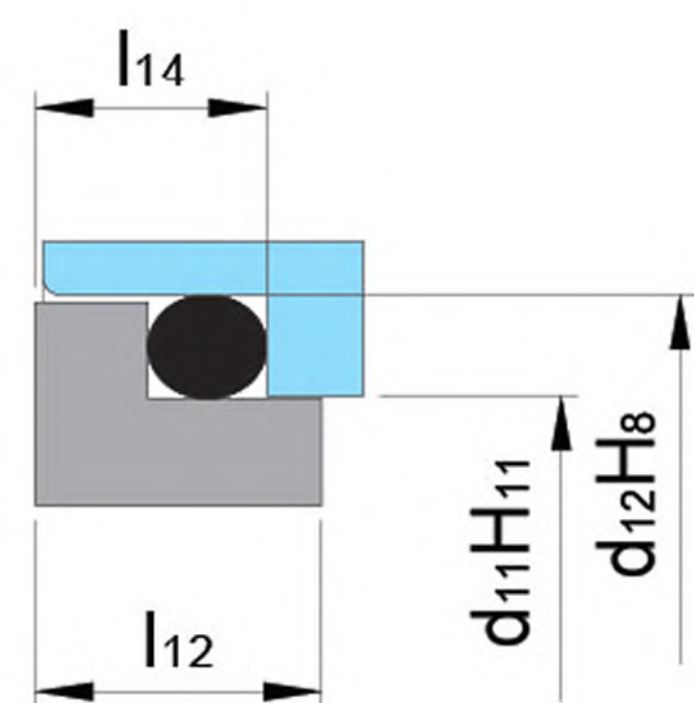
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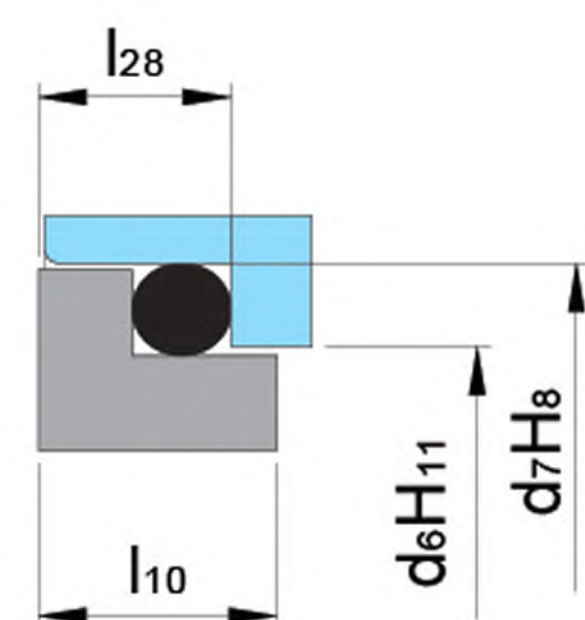
G9/DIN24960(Carbon)



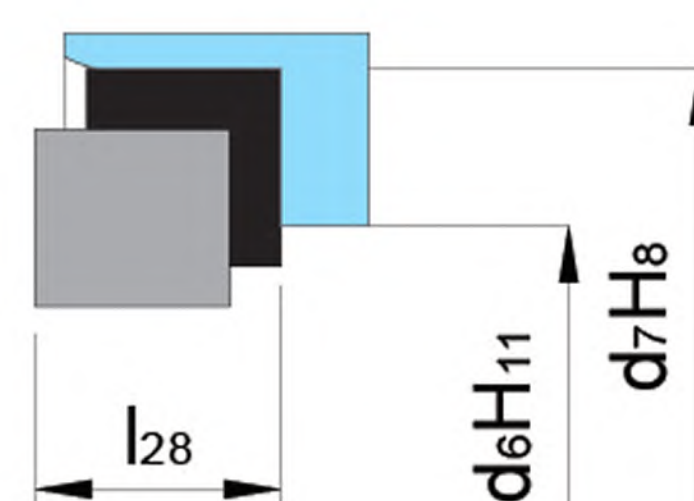
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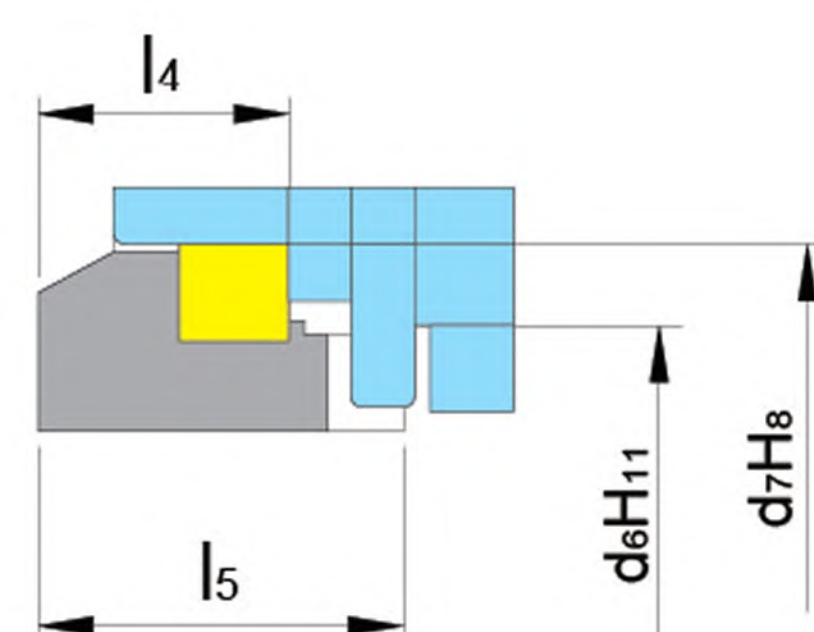
G4/DIN24250



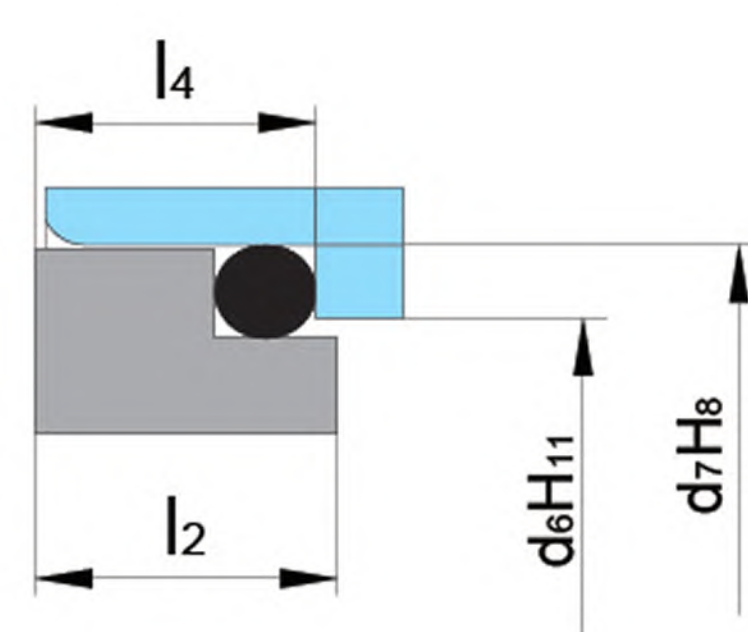
G6/DIN24960



G60/DIN24960



BP/DIN24960



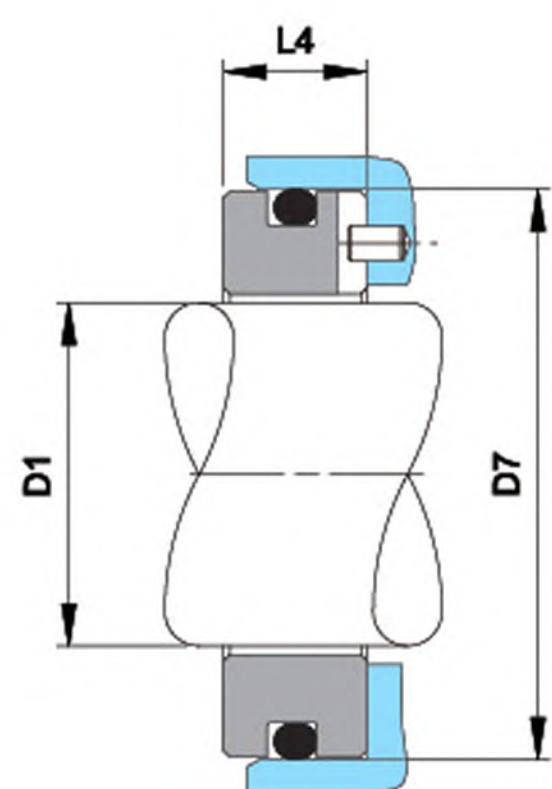
BO/DIN24960

静环尺寸表

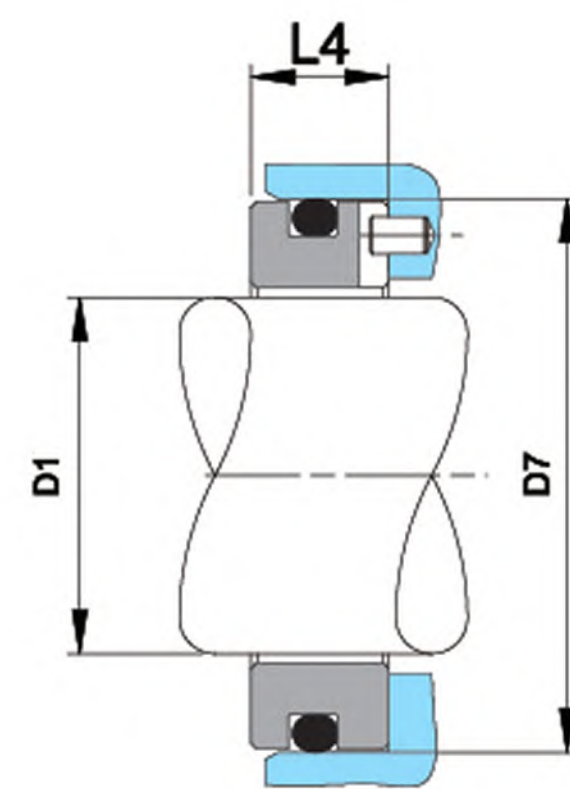
Stationary Seats Dimension Data (mm)

Shaft Size	d ₆	d ₇	G4/G13		BO	BO/BP	BP	G4		G6		G9/G92		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	15.3
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	15.2	14.5	21.5	15.2	14.8	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	14.8	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

Stationary Seat



TS T21



TS T31



材料：

静环: Ceramic/ Sic / TC/SUS304

辅助密封: NBR / EPDM / Viton

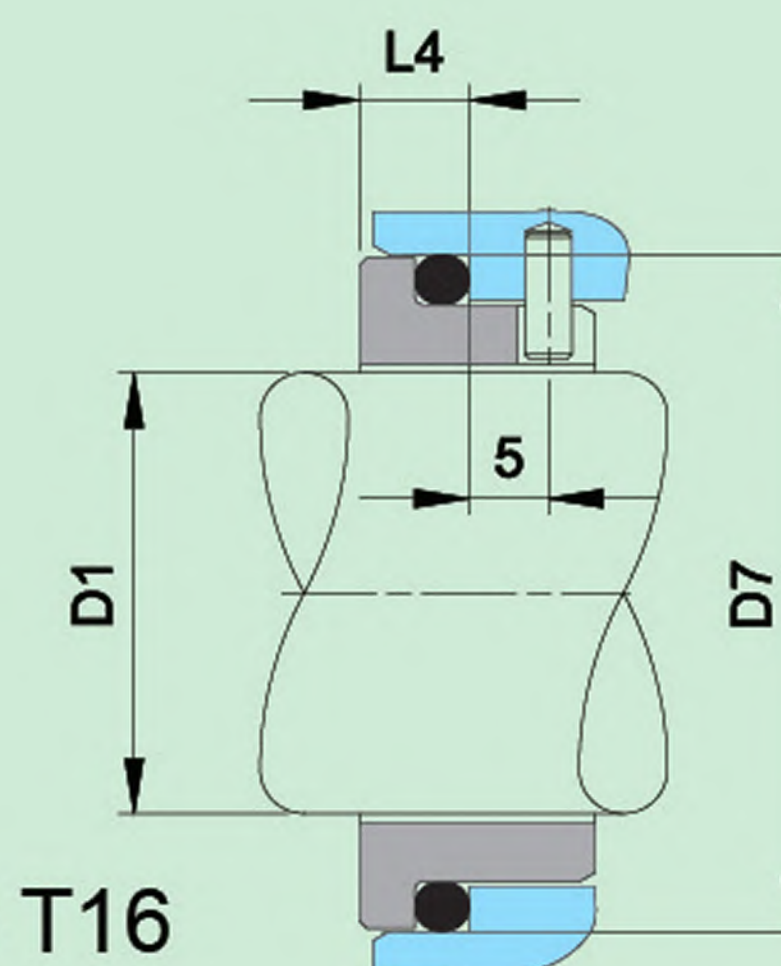
Materials

Stationary Ring :Ceramic/Sic / TC/SUS304

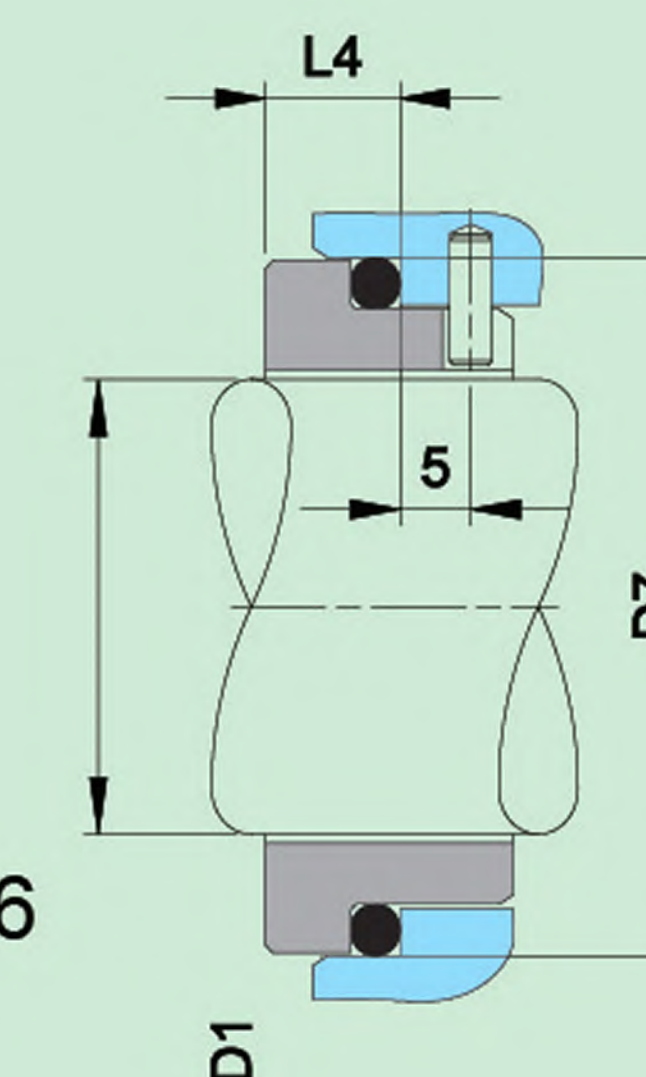
Secondary Seal NBR / EPDM / Viton

D1(mm)	Size Code	D1(inch)	Size Code	D7(T31)	L4(T31)	D7(T21)	L4(T21)
10	0100	0.375	0095	22.22	7.95	24.60	8.70
12	0120			22.22	7.95	24.60	8.70
				25.40	7.95	27.79	8.70
13	0130	0.500	0127	25.40	7.95	27.79	8.70
14	0140			25.40	7.95	27.79	8.70
15	0150			31.75	10.30	30.95	10.30
		0.625	0158	31.75	10.30	30.95	10.30
16	0160			31.75	10.30	30.95	10.30
18	0180			31.75	10.30	30.95	10.30
		0.750	0191	34.93	10.30	34.15	10.30
20	0200			34.93	10.30	34.15	10.30
22	0220			38.10	10.30	35.70	10.30
		0.875'	0222	38.10	10.30	37.30	10.30
24	0240			38.10	10.30	37.30	10.30
25	0250			41.28	11.10	40.50	10.30
		1.000	0254	41.28	11.10	40.50	10.30
28	0280			41.28	11.10	40.50	10.30
				44.44	11.10	47.63	11.90
30	0300	1.125	0286	44.44	11.10	47.63	11.90
				47.63	11.10	50.80	11.90
				47.63	11.10	50.80	11.90
33	0330	1.250	0317	50.80	11.10	53.98	11.90
				50.80	11.10	53.98	11.90
				50.80	11.10	53.98	11.90
35	0350	1.375	0349	50.80	11.10	53.98	11.90
38	0380			50.80	11.10	53.98	11.90
				53.98	11.10	57.15	11.90
40	0400	1.500	0381	53.98	11.10	57.15	11.90
				60.35	12.70	60.35	11.90
				60.35	12.70	60.35	11.90
42	0420	1.625	0412	60.35	12.70	60.35	11.90
43	0430			63.50	12.70	63.50	11.90
45	0450			63.50	12.70	63.50	11.90
		1.875	0476	66.68	12.70	66.70	11.90
48	0480			69.85	12.70	66.70	11.90
50	0500			69.85	12.70	69.85	13.50
		2.000	0508	69.85	12.70	69.85	13.50
53	0530			76.20	14.30	73.05	13.50
				76.20	14.30	73.05	13.50
55	0550	2.125	0539	76.20	14.30	73.05	13.50
				79.38	14.30	76.20	13.50
				79.38	14.30	76.20	13.50
58	0580	2.250	0571	82.55	14.30	79.40	13.50
60	0600			82.55	14.30	79.40	13.50
				82.55	14.30	79.40	13.50
		2.375	0603	82.55	14.30	79.40	13.50
63	0630			85.73	14.30	82.55	13.50
				85.73	14.30	82.55	13.50
65	0650	2.500	0635	85.73	15.90	92.10	15.90
				85.73	15.90	92.10	15.90
				88.90	15.90	95.25	15.90
70	0700	2.750	0698	88.90	15.90	95.25	15.90
				92.25	15.90	98.45	15.90
				92.25	15.90	98.45	15.90
75	0750	2.875	0730	98.43	15.90	101.65	15.90
				98.43	15.90	101.65	15.90
				101.60	19.88	111.15	19.90
80	0800	3.000	0762	101.60	19.88	111.15	19.90
90	0900			111.13	19.88	120.65	19.90
100	1000			123.83	19.88	133.35	19.90

D1(mm)	Size Code	D7	L4(T16)	L4(T46)
18	0180	33.0	7.0	9.0
20	0200	35.0	7.0	9.0
22	0220	37.0	7.0	9.0
24	0240	39.0	7.0	9.0
25	0250	40.0	7.0	9.0
28	0280	43.0	7.0	9.5
30	0300	45.0	7.0	9.5
32	0320	48.0	7.0	9.5
33	0330	48.0	7.0	9.5
35	0350	50.0	7.0	9.5
38	0380	56.0	8.0	10.5
40	0400	58.0	8.0	10.5
43	0430	61.0	8.0	10.5
45	0450	63.0	8.0	10.5
48	0480	66.0	8.0	10.5
50	0500	70.0	9.5	12.0
53	0530	73.0	9.5	12.0
55	0550	75.0	9.5	12.0
58	0580	78.0	10.5	13.0
60	0600	80.0	10.5	13.0
65	0650	85.0	10.5	13.0
68	0680	90.0	11.0	13.5
70	0700	92.0	11.5	14.0
75	0750	97.0	11.5	14.0
80	0800	105.0	11.5	14.0
85	0850	110.0	11.5	14.0
90	0900	115.0	13.0	15.5
95	0950	120.0	13.0	15.5
100	1000	125.0	13.0	15.5



TS T16



TS T46



TS T16 TS T46

材料:

静环: Ceramic/ Sic / TC

辅助密封: NBR / EPDM / Viton

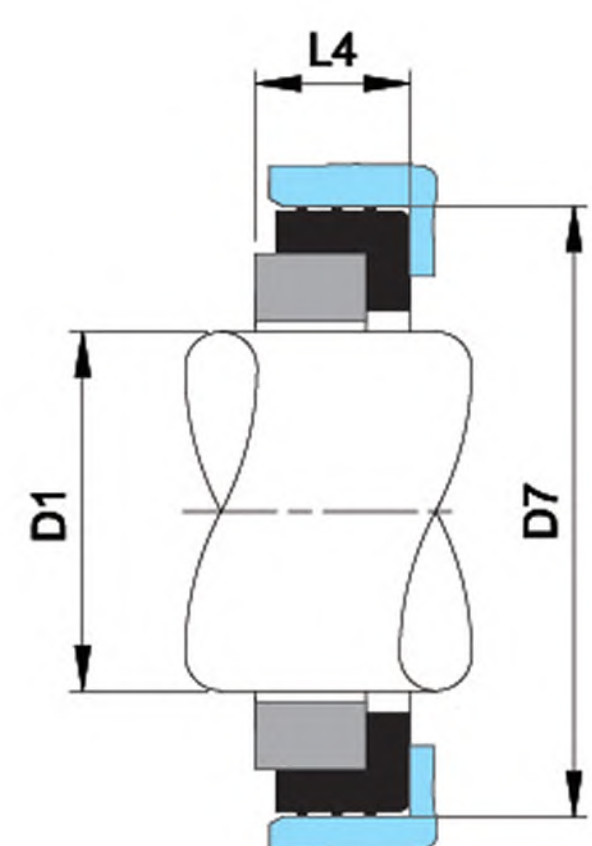
Materials

Stationary Ring :Ceramic/Sic / TC

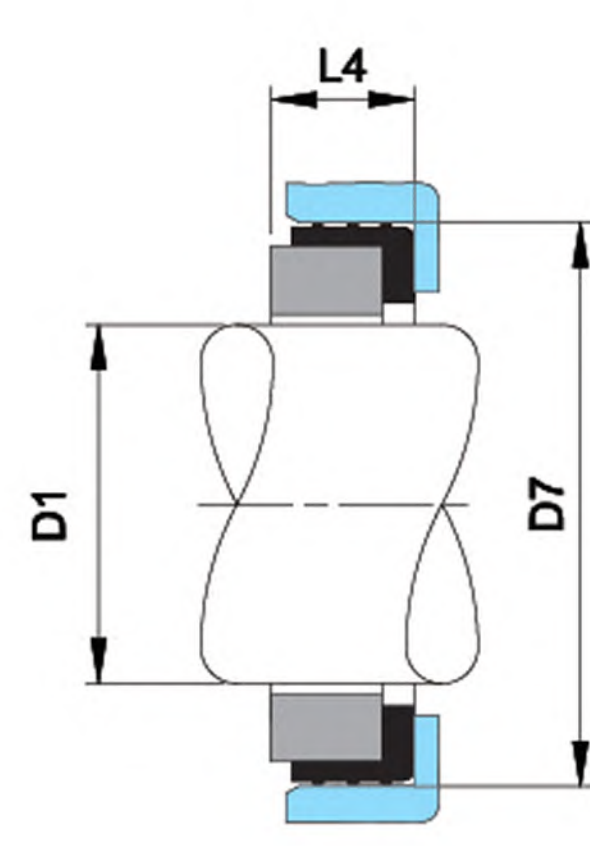
Secondary Seal : NBR / EPDM / Viton

Stationary Seat

Stationary Seat



TS T20



TS T11



材料:

静环: Ceramic/ Sic / TC

辅助密封: NBR / EPDM / Viton

Materials

Stationary Ring :Ceramic/Sic / TC

Secondary Seal : NBR / EPDM / Viton

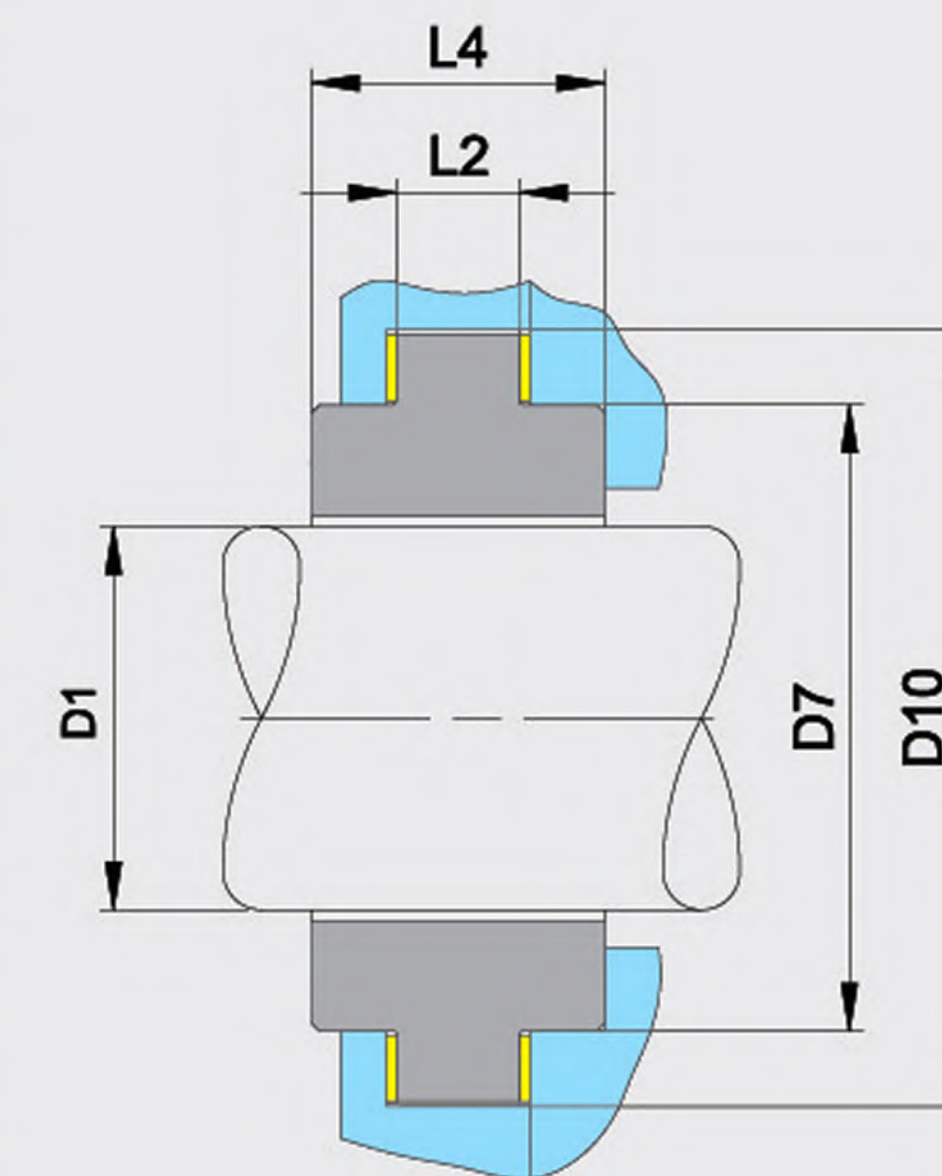
TS T20 size chart

D1(mm)	Size Code	D1(inch)	Size Code	D7	L4
10	0100	0.375	0095	24.60	8.70
12	0120	0.5	0127	27.80	8.70
14	0140			30.95	10.30
15	0150			30.95	10.30
16	0160	0.625	0158	30.95	10.30
18	0180			34.15	10.30
19	0190	0.75	0191	34.15	10.30
20	0200	0.813	0206	35.70	10.30
22	0220	0.875	0222	37.30	10.30
24	0240			40.50	10.30
25	0250	1	0254	40.50	10.30
28	0280	1.125	0286	46.65	12.00
30	0300			50.80	12.00
32	0320	1.25	0317	50.80	12.00
33	0330			54.00	12.00
35	0350	1.375	0349	54.00	12.00
38	0380	1.5	0381	57.15	12.00
40	0400	1.625	0412	60.35	12.00
42	0420			63.50	12.00
43	0430			63.50	12.00
45	0450	1.75	0444	63.50	12.00
48	0480	1.875	0476	66.70	12.00
50	0500	2	0508	69.85	13.50
53	0530	2.125	0539	73.05	13.50
55	0550	2.25	0571	76.20	13.50
58	0580			79.40	13.50
60	0600	2.375	0603	79.40	13.50
63	0630	2.5	0635	82.50	16.00
65	0650	2.625	0666	92.10	16.00
68	0680			95.25	16.00
70	0700	2.75	0698	95.25	16.00
73	0730	2.875	0730	98.45	16.00
75	0750	3.000	0762	101.65	16.00

TS T11 size chart

D1(inch)	Size Code	D7	L4
0.375	0095	22.20	7.95
0.500	0127	25.40	7.95
0.625	0158	31.75	10.31
0.750	0191	34.93	10.31
0.875	0222	38.10	10.31
1.000	0254	41.28	11.10
1.125	0286	44.44	11.10
1.250	0317	47.63	11.10
1.375	0349	50.80	11.10
1.500	0381	53.98	11.10
1.625	0412	60.33	12.70
1.750	0444	63.50	12.70
1.875	0476	66.68	12.70
2.000	0508	69.85	12.70
2.125	0539	76.20	14.27
2.250	0571	79.38	14.27
2.375	0603	82.55	14.27
2.500	0635	85.73	14.27
2.625	0666	85.73	15.88
2.750	0698	88.90	15.88
2.875	0730	95.25	15.88
3.000	0762	98.43	15.88
3.125	0794	101.60	19.84
3.250	0826	104.78	19.84
3.375	0875	107.95	19.84
3.500	0889	111.13	19.84
3.625	0921	114.30	19.84
3.750	0953	117.48	19.84
3.875	0984	120.65	19.84
4.000	1016	123.85	19.84

D1(inch)	Size Code	D7	D10	L2	L4
0.750	0191	36.51	48.00	7.90	17.40
0.875	0222	39.69	51.00	7.90	17.40
1.000	0254	42.86	54.00	7.90	17.40
1.125	0286	50.80	65.00	11.10	26.90
1.250	0317	53.98	68.00	11.10	26.90
1.375	0349	57.15	71.00	11.10	26.90
1.500	0381	63.50	78.00	11.10	26.90
1.625	0412	66.68	81.00	11.10	26.90
1.750	0444	69.85	84.00	11.10	26.90
1.875	0476	73.03	87.00	11.10	26.90
2.000	0508	79.38	97.00	14.30	26.90
2.125	0539	82.55	100.00	14.30	33.40
2.250	0571	85.73	103.00	14.30	33.40
2.375	0603	88.90	106.00	14.30	33.40
2.500	0635	92.08	110.00	14.30	33.40
2.625	0666	95.25	113.00	14.30	33.40
2.750	0698	98.43	116.00	14.30	33.40
2.875	0730	100.01	117.00	14.30	33.40
3.000	0762	103.19	121.00	14.30	33.40
3.250	0826	114.30	132.00	14.30	33.40
3.500	0889	120.65	138.00	14.30	33.40
3.750	0953	127.00	144.00	14.30	33.40
4.000	1016	133.35	151.00	14.30	33.40



材料:

静环: Ceramic/ Sic / TC

辅助密封: NBR / EPDM / Viton

Materials

Stationary Ring :Ceramic/Sic / TC

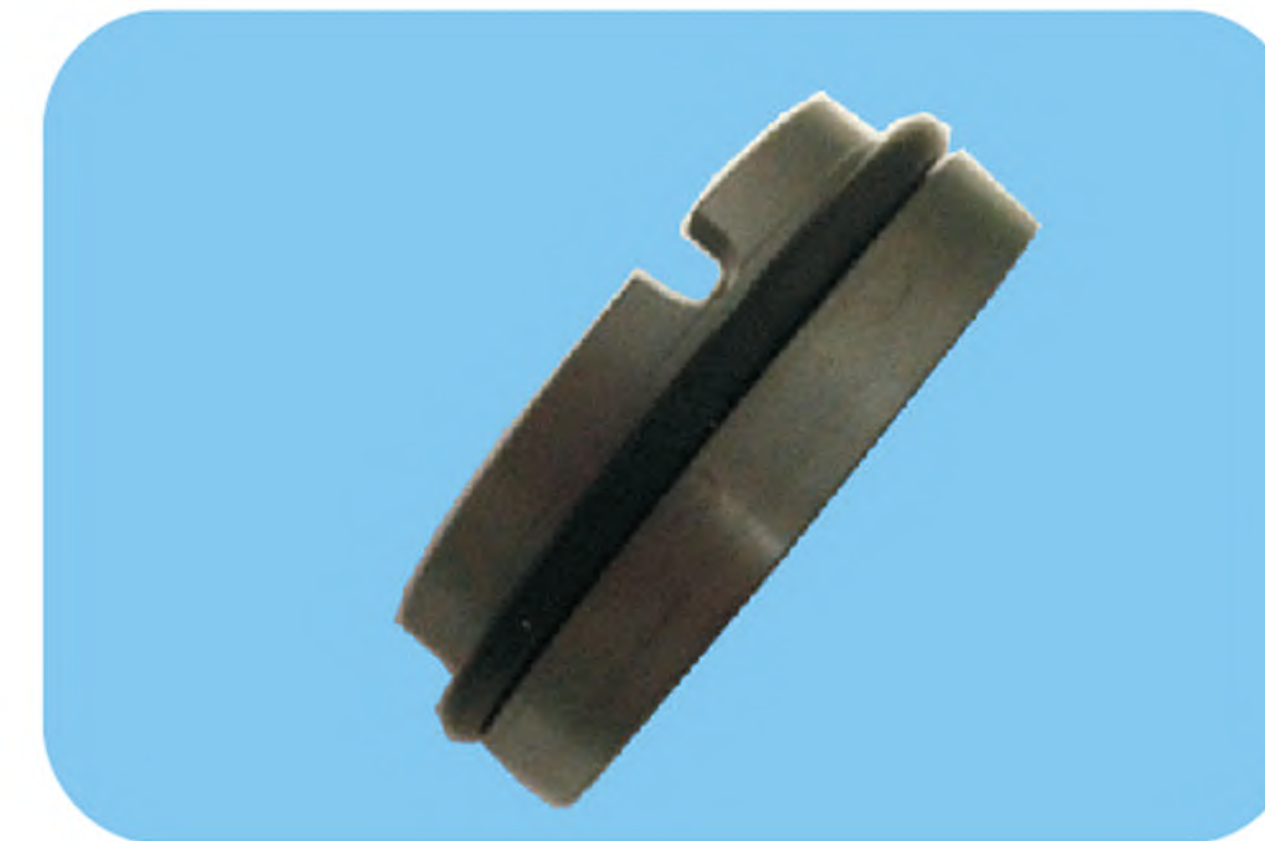
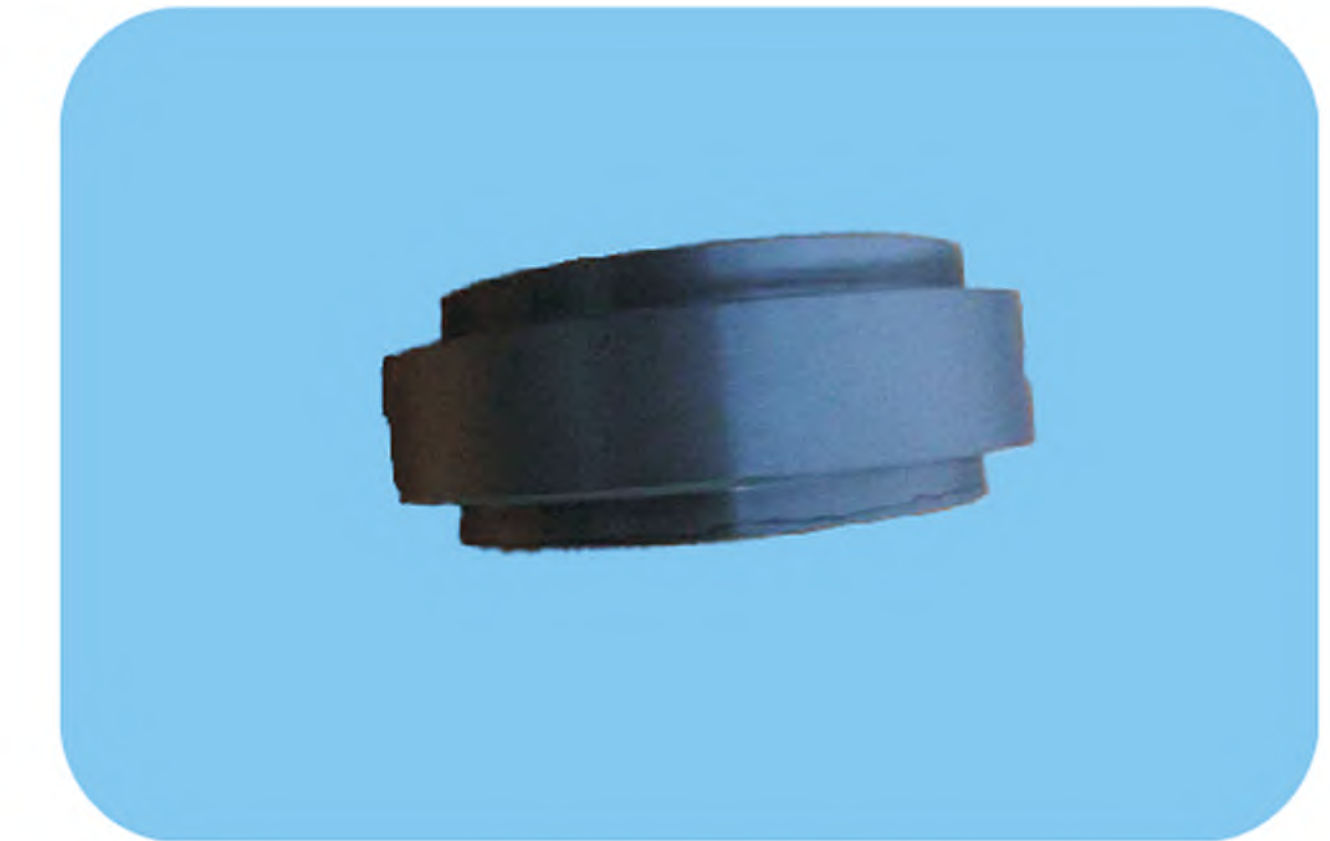
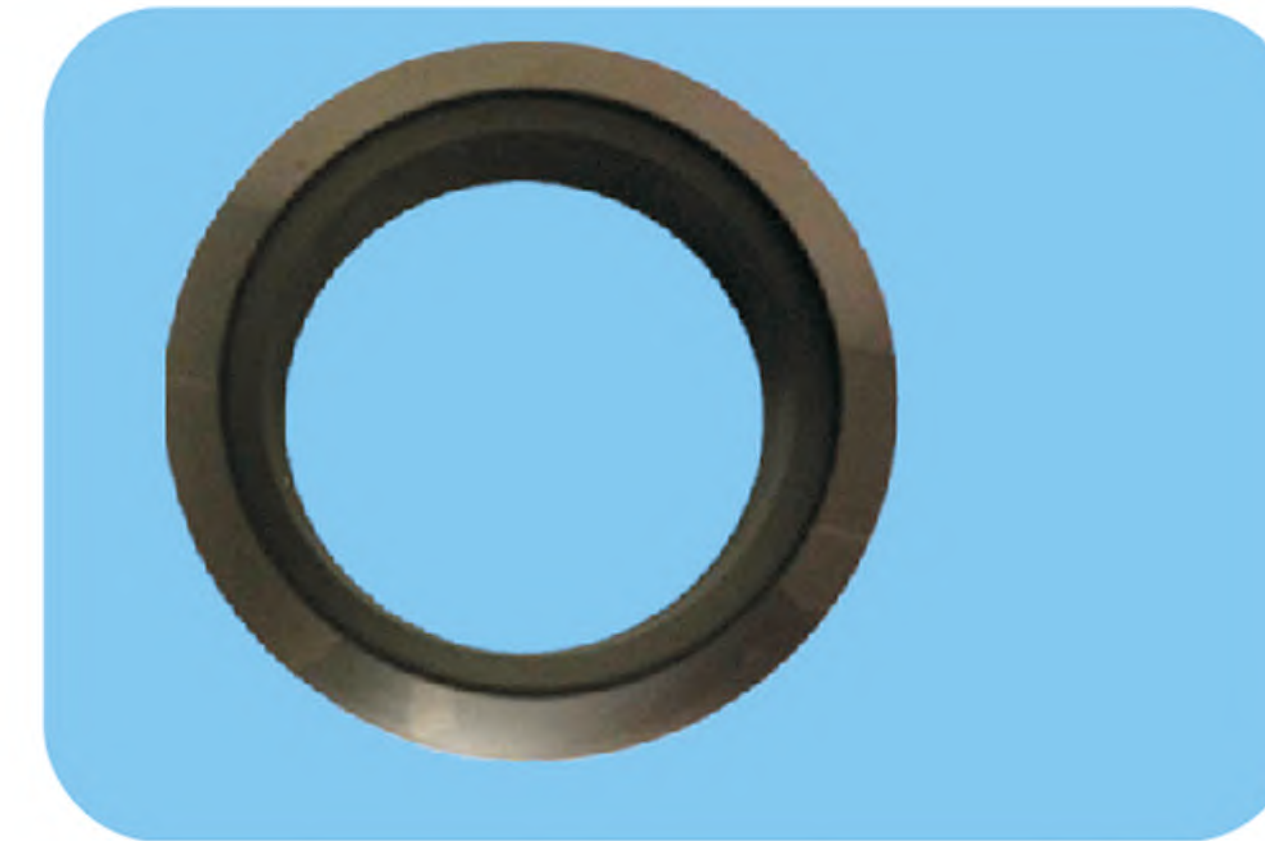
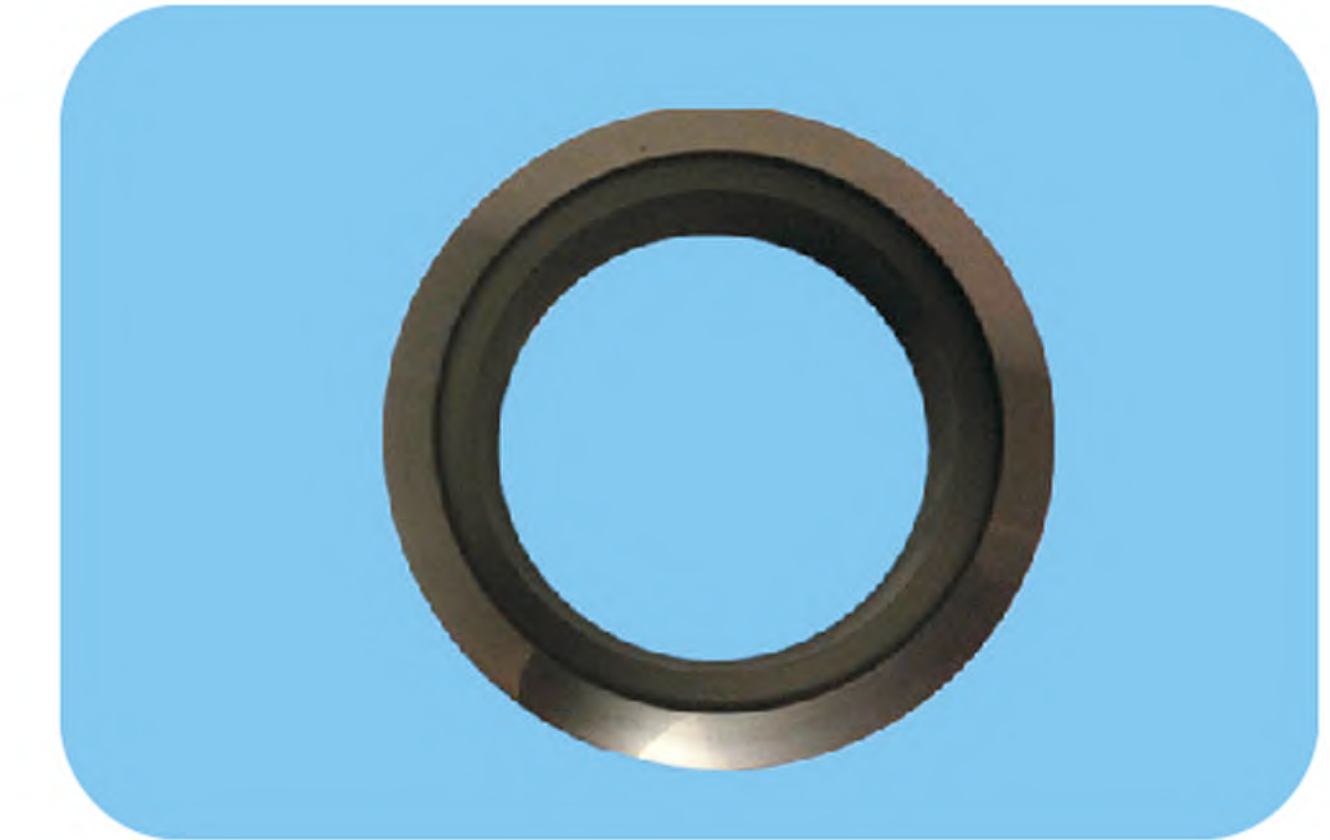
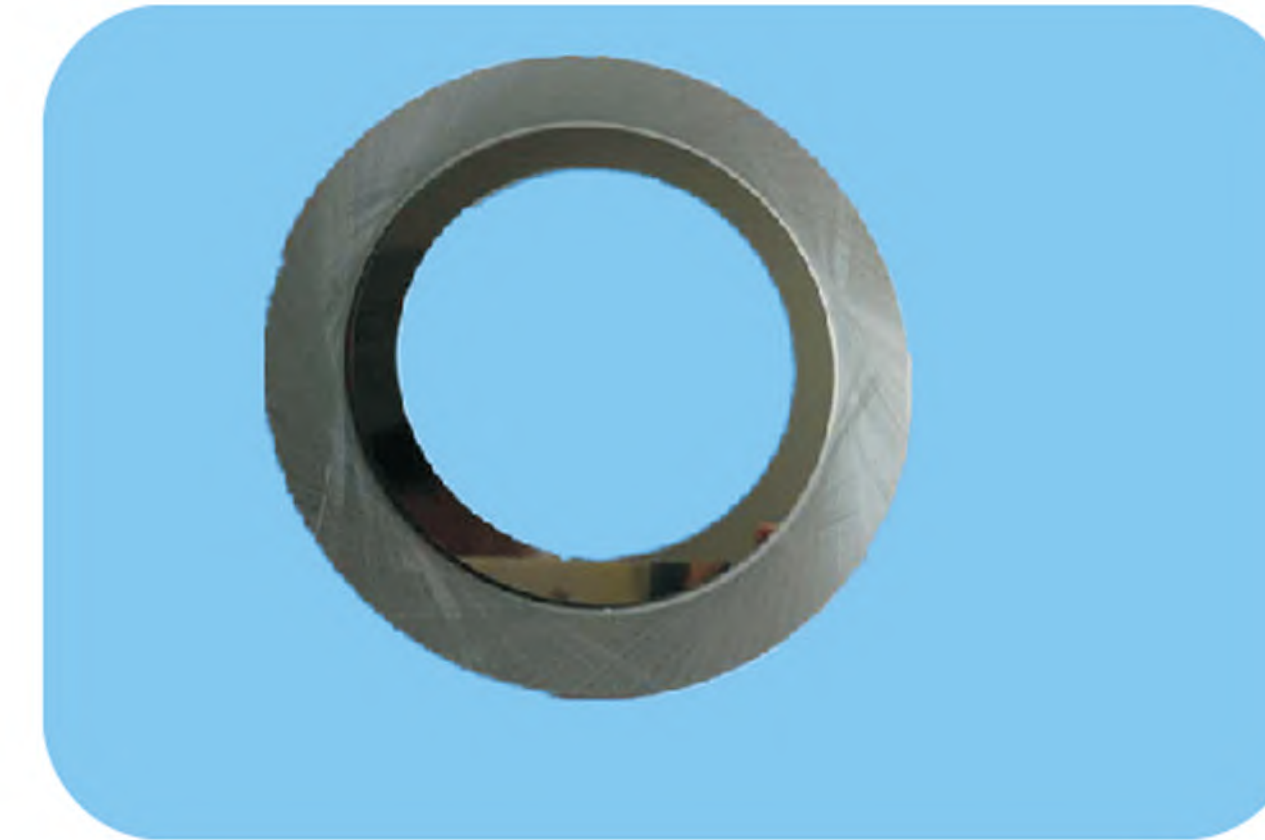
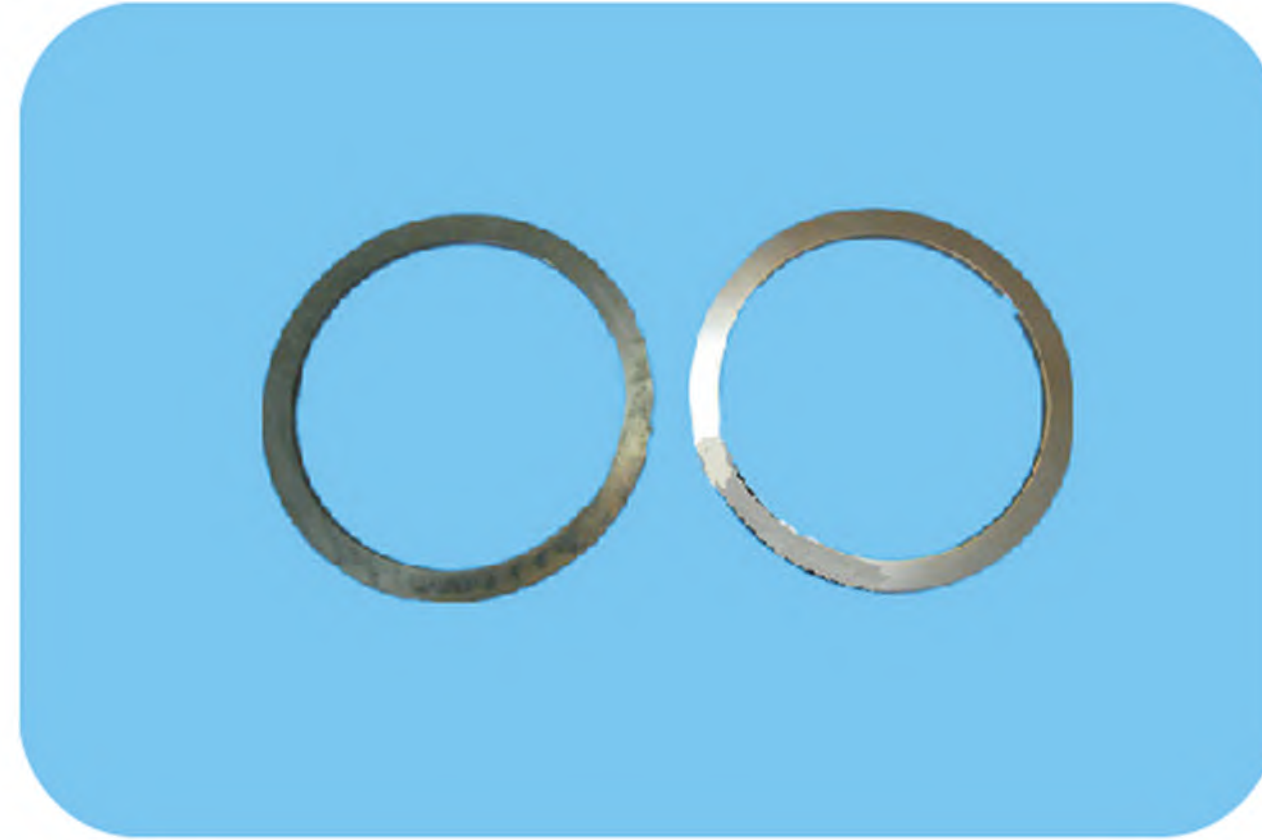
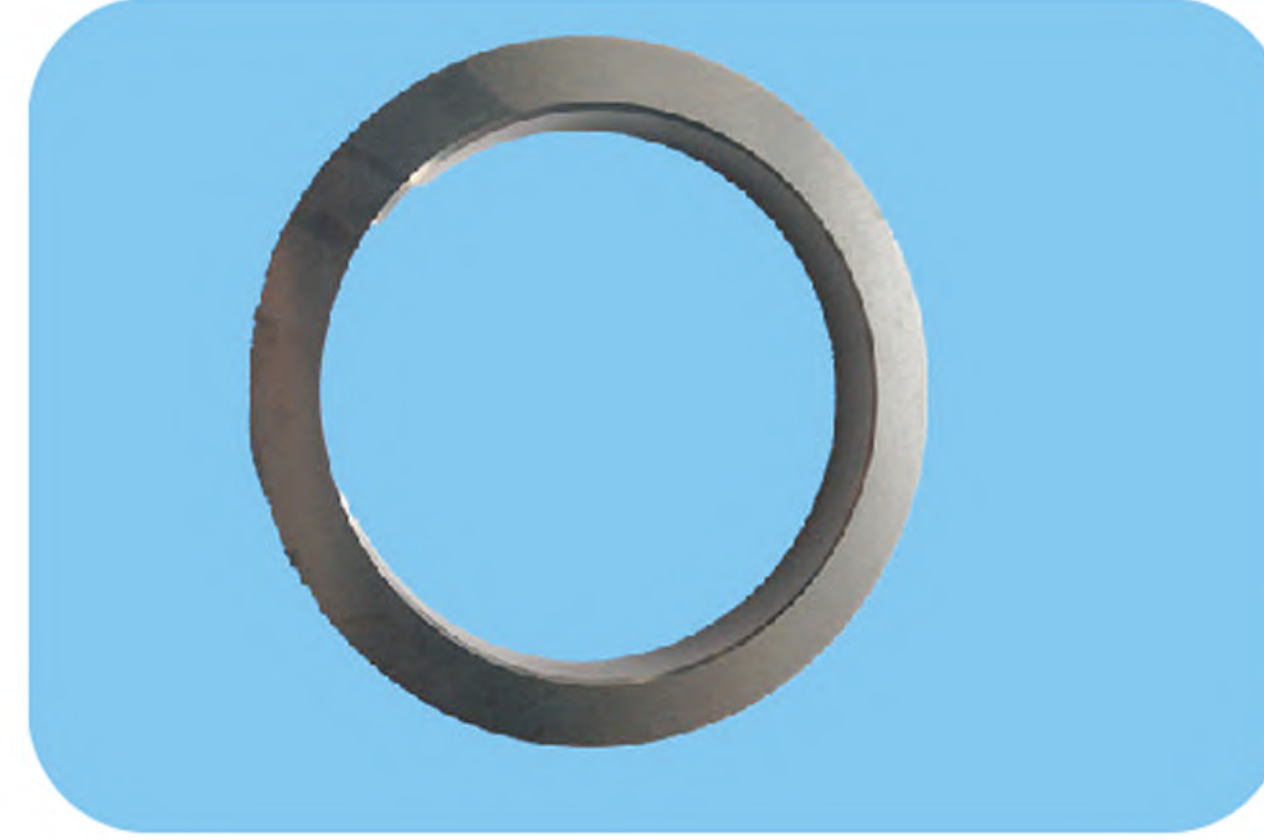
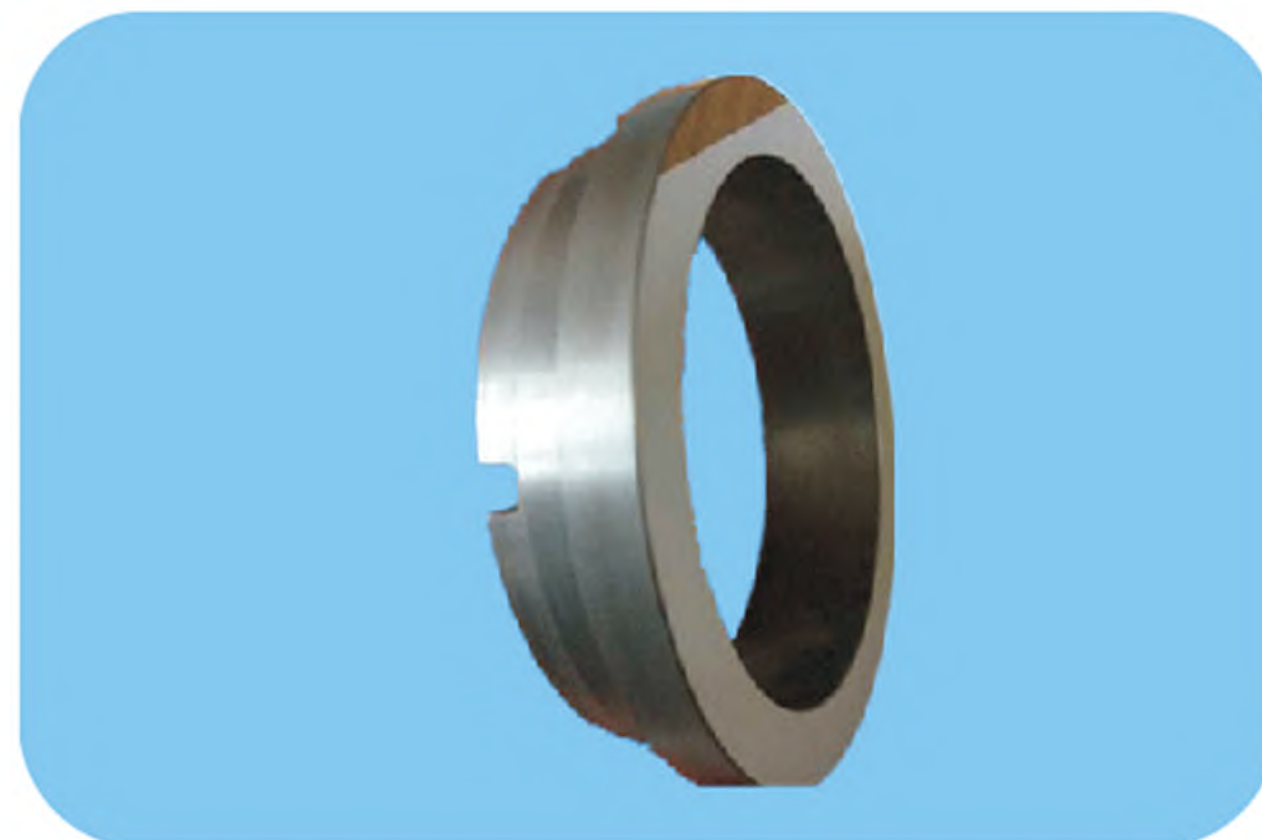
Secondary Seal : NBR / EPDM / Viton



TS V

Stationary Seat

Seals Ring



SIC Ring

氧化铝物理性能参数 Al₂O₃ Ceramic Physical Property

技术参数 Technical Parameter	单位 Unit	95%	99%	99.5%
氧化铝含量 Content Of Al ₂ O ₃	%	95	99	99.5
体积密度 Density	g/cm ³	3.7	3.88	3.9
硬度 Hardness	HRA	85	88	90
显气孔率 Porosity Rate	%	<0.4	<0.2	<0.15
抗折强度 Fractural Strength	MPa	250	310	350
热膨胀系数 Coefficient Of Heat Expansion	10 ⁻⁶ /K	5.5	5.3	5.2
导热系数 Thermal Conductivity	W/M.K	27.8	26.7	26

氧化铝陶瓷密封环具有耐高温、耐化学腐蚀、耐磨损、密封性好的优点，能使用于各种耐酸、耐碱、耐油的密封泵及其他密封产品，广泛适用于石油、化工、制药、汽车制造、军工、航空、冶金、印染、食品、机械等诸多行业的密封。

Ceramic seal faces have the property of the resistant high temperature, resistant-corrosion, resistant-wearing and good sealing and are widely used in the spacecraft, machinery, metallurgy, printing and dyeing, foodstuff, pharmaceutical, auto industry and so on.

硬质合金是机械密封摩擦材料中用量较多的硬面材料，使用范围较广泛，耐磨性好，抗弯强度高，导热系数高，膨胀系数小，是所有硬面材料中耐热冲击系数最高的材料。

Tungsten carbide is widely used as seal faces with resistant-wearing, high fractural strength, high thermal conductivity, small heat expansion co-efficient. It is the best material to resist heat and fracture in all hard face materials.

硬质合金（TC）物理性能参数 TC physical property

技术参数 Technical Parameter		单位	YWN6	YWN8	YG6	YG8	DYNT60
化学成份 Composition	WC	%	94	92	94	92	
	Ni	%	6	8			
	Co	%			6	8	
密度 Density		g/cm ³	14.5-14.9	14.4-14.8	14.6-15	14.5-14.9	6.5-6.8
硬度 Hardness		HRA	88.5	88	89.5	89	90
抗弯强度 Fractural Strength		MPa	1490	1470	1421	1470	1480
线膨胀系数 Heat Expansion Co-efficient		10 ⁻⁶ /K	5.2	5.3	5	5.1	7.5

碳石墨物理性能参数 Graphite chemical property

类别 Category		型号	密度	抗折强度	抗压强度	肖氏硬度	气孔率	温度
		Model	Density(g/cm)	Fractural Strength(MPa)	Compressive Strength(MPa)	Shaw Hardness(HS)	Porosity(%)	Temperature(℃)
Carbon - graphite 碳石墨	浸环氧树脂 Impregnated Epoxy Resin(H)	M106H	1.75	65	200	85	<1	250
		M120H	1.7	60	180	80	<1	250
	浸呋喃树脂 Impregnated Furan Resin(K)	M106K	1.75	67	200	90	<1	250
		M120K	1.7	62	180	85	<1	250
	浸酚醛树脂 Impregnated Phenol Aldehyde Resin(F)	M106F	1.75	60	200	85	<1	250
		M120F	1.7	55	180	80	<1	250
	浸涕石墨 Antimony Carbon(D)	M106D	2.3	65	220	90	<1.5	400
		M120D	2.3	60	220	90	<1.5	400
		M254D	2.3	55	210	65	<1.5	450

碳石墨材料具有良好的耐腐蚀性，较高的导热系数，低的摩擦系数，自润滑性好，膨胀系数小，可制作各种形状规格的密封环、石墨轴承、石墨摩擦片等产品，是机械密封较理想的摩擦副材料。

Graphite has the good property of good resistant-corrosion, high thermal conductivity and lower friction, good self-lubrication, the smaller expansion. They can be made into the seal faces, bearings and so on. It is ideal to choose it as the frictional mating rings.

碳化硅材料具有以下优点：极高化学耐腐蚀性，高的机械强度，高热导率，耐磨自润性好，适用生产各种机械密封环、轴承、轴套等摩擦材料。故广泛应用于石油化工、电力、轻工、航天、汽车、造纸及污水处理等各工业领域。且与碳石墨配对，摩擦系数最小，可用作高参数机械密封。

They have the property of excellent resistant-corrosion, high mechanical strength, high thermal conductivity, good self-lubrication, used as seal faces, bearings and tubes in spacecraft, machinery, metallurgy, printing and dyeing, foodstuff, pharmaceutical, auto industry and so on. When the sic faces are combined with graphite faces the friction is the smallest and they can be made into mechanical seals which are able to work in highest working requirements.

碳化硅（Sic）物理性能参数 Sic Physical Property

技术参数 Technical Parameter	单位 Unit	反应烧结 Sic	无压烧结 Ssic
硬度 Hardness	HS	110	115
显气孔率 Porosity Rate	%	<0.3	<0.2
体积密度 Density	g/cm ³	3.00-3.05	>3.1
抗压强度 Compressive Strength	MPa	> 2200	> 2500
抗弯强度 Fractural Strength	MPa	>350	>380
热膨胀系数 Coefficient Of Heat Expansion	10 ⁻⁶ /℃	4	4.2
碳化硅含量 Content of Sic	%	≥90	≥98
游离硅含量 Content of Free Silicone	%	≤ 10	≤ 1
弹性模量 Elastic Modulus	GPa	≥400	≥410
温度 Temperature	℃	1300	1400

Seal Materials

全氟醚橡胶 / FFKM

Perfluoroelastomer (FFKM) is synthetic elastomer,without C–H linkage.This kind of ruber,which can effectively work under the max temperature of 327℃ and bear corrosion of any chemical mediator,has perfect tolerance to oil,chemical & heat. Fluocarbon linkage is the main reason tohigh stability performance.The refractory compression permanent deformation performance of Perfluoroelastomer is superior to that of Viton.It is widely used in semiconductor manufacture,petrochemical, gas extraction,medical food and aerospace industries because of the champion nature.

全氟醚橡胶（FFKM）是一种合成弹性体，一种完全不含 C–H 键的橡胶。该橡胶有很强的耐油类。化学品性能，最高可在 327℃温度下有效工作，几乎能承受一切化学介质的腐蚀。氟碳键的高键能是全氟醚橡胶具有高稳定性的主要原因。全氟醚橡胶的耐高温压缩永久变形性能优于氟橡胶。全氟醚橡胶因为具有优异特性被广泛用于半导体制造、石油化工、天然气开采、医药食品、航空航天领域。

China –FFKM		
Property	unit	
Hardness	HS	72
Tensile Strength @ Break	Mpa	20
Enlogation Percentage @ Break	%	175
Modulous @100%	Mpa	10.5
Heat Resistance Temperature	℃	270℃
70 hr in room temperature	/	19
70 hr at 204 ℃	/	49

NBR	耐油、耐压、耐磨、弹性好、强度高；适用于—20℃~100℃的清水、油、醇等介质 Resistant to oil, pressure and wear, good elasticity and mechanical strength; applicable to the mediums including water, oil, alcohol, etc from —20℃ to 100℃
乙丙橡胶 EPDM	耐热、耐气候性好、抗臭氧和各种化学药品；适用于—35℃~150℃的含弱碱的介质 Resistant to high or low temperatures, ozone and chemicals; applicable to weak acids with temperatures from –35℃ to 150℃
氟橡胶 Viton	耐热、耐油、耐药品性好、耐中等酸碱；适用于—20℃~180℃各种腐蚀性介质 Resistant to heat, oil, medicine and chemical reagents, acid and alkali with medium corrosive degrees; applicable to the corrosive mediums from –20℃ to 180℃
硅橡胶 Silica Gel	耐臭氧老化、光老化、耐醋酸、氨水、乙醇；适用于—50℃~210℃的醇、碱介质 Resistant to ozone, aging, acetic acid, ammonia and alcohol; applicable to alcohol, alkali, etc from –50℃ to 210℃
氯醇橡胶 Chlorinated Rubber	耐氟里昂、石油；适用于—30℃~130℃的无机酸、碱介质 Resistant to Freon, petroleum; applicable to inorganic acid, alkali, running from –30℃ to 130℃

安 装 指 导 书

Installation Instructions

准备工作:

- 1.轴外径公差范围±0.002 “ (±0.05mm)
- 2.轴窜动<0.004 “ (0.1mm)
- 3.轴端浮动<0.005 “ (0.13mm)
- 4.轴上与O形圈接触处没有毛刺

注意：安装过程中，注意不要划伤或损坏O形圈。

安装指导:

- 1.产品在出厂组装之前已经严格质检，清洗和气密检漏，用户不必重新拆洗以免损坏零件
- 2.机封与轴配合要求为轴d1h6▽0.8，轴端部须有导入角，在紧定螺钉部位轴的外径要小0.1~0.2mm

避免因拧紧时轴表面拧毛引起装拆受阻，并用润滑油润滑轴。

- 3.将集装式机封推入泵轴之后，依次工序为：
 - a. 先拧紧4个法兰连接螺栓，此时应确认介质引入孔“G”处在顶部。
 - b. 拧紧4个紧定螺钉使轴套在轴上定位。
 - c. 拆掉4个定位板（妥善保管以后装拆均要使用）。
 - d. 接装介质引入管于“G”孔.使泵运行时介质从G孔流入带走摩擦热及冲洗密封腔。

注意：安装完成后，用手轻轻旋转轴，检验轴是否可以自由旋转.如果轴不能自由旋转，则说明安装不正确。

Preparation:

- 1.Shaft Outside Diameter is within tolerance±0.002 “(0.05mm)
- 2.Shaft run out<0.004 “(0.1mm)
- 3.Shaft end float<0.005 “ (0.13mm) .
- 4.No sharp edges on the shaft over the O ring.

Note: During the installation, don't scratch or damage the O ring.

Installation instructions:

- 1.The full set of cartridge seal is cleaned and exactly passed leakage examine before sale. In order to avoid damage, don't disassemble and clean the parts again before fixing.
- 2.The fitting allowance between the seal and shaft is d1h6▽0.8, and there should be leading-in edge at the end of shaft. The outside diameter of shaft at the position of screw should be 0.1~0.2mm smaller, resisting the screw over-tighten. Lubricate the shaft with oil.
- 3.Place the cartridge seal into the pump chamber, then:
 - a.Tighten four screw bolts of flanges, ensuring the medium leading in hole “G” at the top position.
 - b.Tighten four set screws and position the shaft sleeve on the shaft.
 - c.Remove four gauge plates. Please keep them and they will be used in future installation and disassemble.
 - d.Connect the medium lead-in pipe with hole “G” in order to flush away the friction heat and flushing the seal chamber when pump running.

Note: After complete the installation, turning the shaft by hand to check for the rotation. If the shaft could not rotate smoothly, seal has been improperly installed.