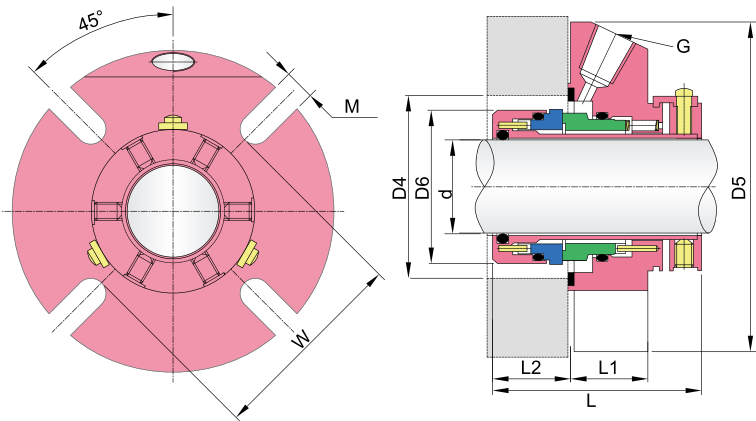
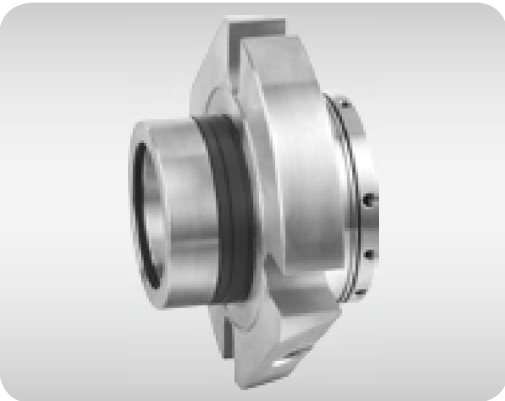




TSCARTEX



Operational Conditions:

- Temperature: -20°C to +150°C
- Pressure: ≤ 2.0MPa
- Speed: ≤ 15m/s

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: Carbon / SiC / TC
- O-Ring: VITON, EPDM, Kalrez
- Spring and Metal Parts: SUS304 / SUS316

Seal Size d	D6	D5	L	L2	D4		L1	W	M	G
					min	max				
25	43.0	105.0	67.0	24.6	44.0	51.5	25.4	62.0	13.2	1/4"
28	46.0	105.0	67.0	24.6	47.0	52.0	25.4	62.0	13.2	1/4"
30	48.0	105.0	67.0	24.6	49.0	56.0	25.4	65.0	13.2	1/4"
32	49.8	108.0	67.0	24.6	51.0	57.0	25.4	67.0	13.2	1/4"
33	49.8	108.0	67.0	24.6	51.0	57.0	25.4	67.0	13.2	1/4"
35	53.0	113.0	67.0	24.6	54.0	61.5	25.4	70.0	13.2	1/4"
38	56.0	123.0	67.0	24.6	57.0	66.0	25.4	75.0	13.2	1/4"
40	58.0	123.0	67.0	24.6	59.0	68.0	25.4	75.0	14.2	3/8"
42	60.5	133.0	67.0	24.6	61.5	69.5	25.4	80.0	14.2	3/8"
43	60.5	133.0	67.0	24.6	61.5	70.5	25.4	80.0	14.2	3/8"
45	62.5	138.0	67.0	24.6	64.0	73.0	25.4	81.0	14.2	3/8"
48	65.6	138.0	67.0	24.6	67.0	75.0	25.4	84.0	14.2	3/8"
50	68.0	148.0	67.0	24.6	69.0	78.0	25.4	87.0	14.2	3/8"
53	72.0	148.0	67.0	24.6	73.0	87.0	25.4	97.0	18.0	3/8"
55	73.0	148.0	67.0	24.6	74.0	83.0	25.4	90.0	18.0	3/8"
60	78.0	157.0	67.0	24.6	79.0	91.0	25.4	102.0	18.0	3/8"
65	84.8	163.0	67.0	24.6	85.7	98.5	25.4	109.0	18.0	3/8"
70	93.0	178.0	67.0	24.6	95.0	108.0	25.4	118.0	18.0	3/8"
75	100.0	190.0	84.0	26.6	101.6	118.0	28.0	129.0	18.0	3/8"
80	106.4	195.0	84.0	26.6	108.0	124.0	28.0	135.0	18.0	3/8"
85	109.5	198.0	84.0	26.6	111.1	128.0	28.0	139.0	22.0	3/8"
90	115.9	205.0	84.0	26.6	117.5	135.0	28.0	145.0	22.0	3/8"
95	119.1	208.0	84.0	26.6	120.7	138.0	28.0	148.0	22.0	3/8"
100	125.4	218.0	84.0	26.6	127.0	144.0	28.0	154.0	22.0	3/8"

TSL9

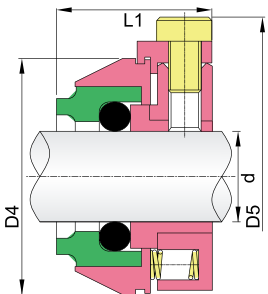


Operational Conditions:

- Temperature: -50°C to +204°C
- Pressure: ≤ 1.0MPa
- Speed: ≤ 15m/s

Material:

- Rotary Ring: Carbon / SiC / TC
- O-Ring: VITON, EPDM, Kalrez
- Spring and Metal Parts: SUS304 / SUS316



Size(Metric)	L1	D4	D5
20	27.91	45.30	59.80
22	27.91	47.30	61.80
24	27.90	49.30	63.80
25	27.90	50.30	64.80
28	27.91	53.30	67.80
30	27.91	55.30	69.80
32	27.91	57.30	71.80
33	27.90	58.30	72.80
35	27.91	60.30	74.80
38	27.91	63.30	77.80
40	27.91	65.30	79.80
42	27.90	67.30	81.80
43	27.90	68.30	82.80
45	27.91	70.30	84.80
48	27.91	73.30	87.80
50	27.90	75.30	89.80
53	27.91	78.30	92.80
55	27.90	80.30	94.80
60	27.91	85.30	99.70
65	30.30	96.50	111.00
70	30.28	101.50	116.00
75	30.28	106.50	121.00
80	30.28	111.50	126.00
85	30.28	116.50	131.00
90	30.28	121.50	136.00
95	30.30	126.50	141.00
100	30.28	131.50	146.00

Size(Inch)	L1	D4	D5
0.625"	1.098	1.622	2.192
0.750"	1.098	1.747	2.317
0.875"	1.098	1.872	2.442
1.000"	1.098	1.997	2.567
1.125"	1.098	2.122	2.692
1.250"	1.098	2.247	2.817
1.375"	1.098	2.372	2.942
1.500"	1.098	2.497	2.067
1.625"	1.098	2.622	3.192
1.750"	1.098	2.747	3.317
1.875"	1.098	2.872	3.442
2.000"	1.098	2.997	3.567
2.125"	1.098	3.122	3.692
2.250"	1.098	3.247	3.817
2.375"	1.098	3.372	3.942
2.500"	1.098	3.497	4.067
2.625"	1.192	3.866	4.436
2.750"	1.192	3.991	4.561
2.875"	1.192	4.116	4.686
3.000"	1.192	4.241	4.811
3.125"	1.192	4.366	4.936
3.250"	1.192	4.491	5.061
3.375"	1.192	4.616	5.186
3.500"	1.192	4.741	5.311
3.625"	1.192	4.866	5.436
2.750"	1.192	4.991	5.561
2.875"	1.192	5.116	5.686
4.000"	1.192	5.241	5.811

TSPCM

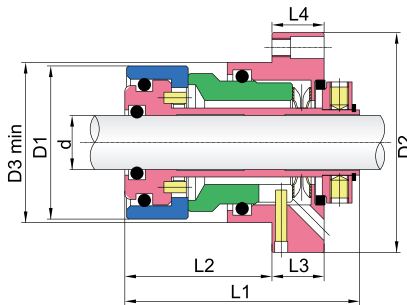


Operational Conditions:

- Temperature: -20°C to +150°C
- Pressure: ≤ 2.0MPa
- Speed: ≤ 15m/s

Material:

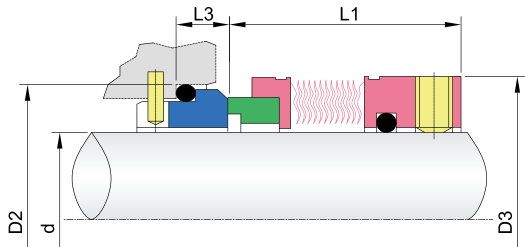
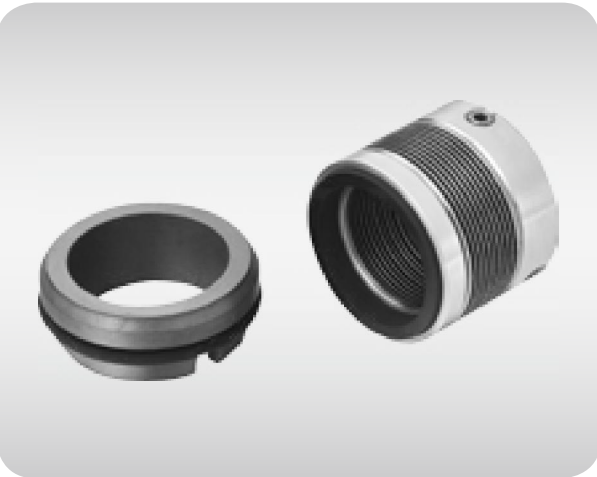
- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: Carbon / SiC / TC
- O-Ring: VITON, EPDM, Kalrez
- Spring and Metal Parts: SUS304 / SUS316



Seal Size d	D1	D2	D3 min	L1	L2	L3	L4
35	62	80	64	63	39	24	14
60	88	129	92	91	57	34	22
80	113	185	140	102	36	66	52



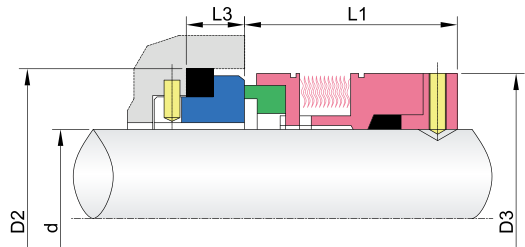
TS685



- Operational Conditions:**
 - Temperature: -20℃ to +200℃
 - Pressure: ≤ 2.1MPa
 - Speed: ≤ 23m/s
- Stationary Seat:**
 - TSG9
- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: 99% Ceramic / SiC / TC
 - O-Ring: VITON, Encasulated Ring, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Seal Size	D3	D2	L1	L3
16	30.0	27.0	32.5	10.0
18	32.0	33.0	30.5	11.5
20	33.5	35.0	30.5	11.5
22	36.5	37.0	30.5	11.5
24	39.0	39.0	28.5	11.5
25	39.6	40.0	28.5	11.5
28	42.8	43.0	31.0	11.5
30	45.0	45.0	31.0	11.5
32	46.0	48.0	31.0	11.5
33	48.0	48.0	31.0	11.5
35	49.2	50.0	31.0	11.5
38	52.3	56.0	31.0	14.0
40	55.5	58.0	31.0	14.0
43	57.5	61.0	31.0	14.0
45	58.7	63.0	31.0	14.0
48	61.9	66.0	31.0	14.0
50	65.0	70.0	32.5	15.0
53	68.2	73.0	32.5	15.0
55	70.0	75.0	32.5	15.0
58	71.7	78.0	37.5	15.0
60	74.6	80.0	37.5	15.0
63	79.0	83.0	37.5	15.0
65	84.1	85.0	37.5	15.0
68	87.3	90.0	34.5	18.0
70	87.3	92.0	42.0	18.0
75	95.0	97.0	42.0	18.0
80	98.4	105.0	41.8	18.2
85	104.7	110.0	41.8	18.2
90	111.0	115.0	46.8	18.2
95	114.0	120.0	47.8	17.2
100	117.4	125.0	47.8	17.2

TS686

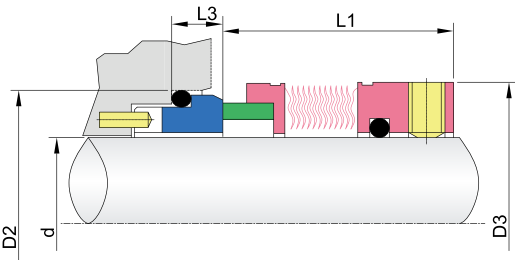
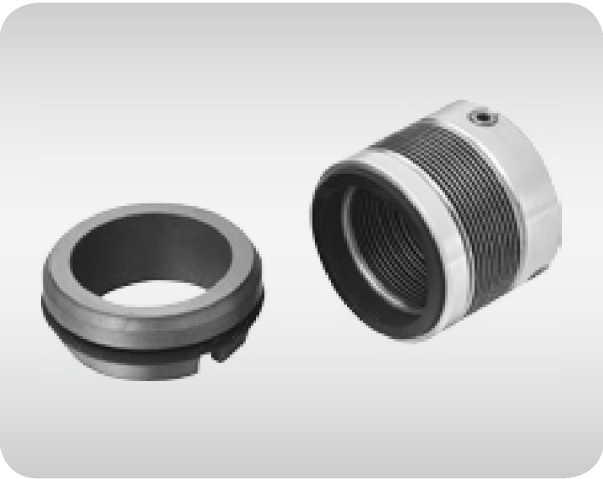


- Operational Conditions:**
 - Temperature: -20℃ to +370℃
 - Pressure: ≤ 2.1MPa
 - Speed: ≤ 23m/s
- Stationary Seat:**
 - TSG9
- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: 99% Ceramic / SiC / TC
 - O-Ring: Encasulated Ring,Expanded Graphite
 - Spring and Metal Parts: SUS304 / SUS316

Seal Size	D3	D2	L1	L3
16	38	35.0	46.7	10.0
18	40	37.0	46.7	11.5
20	42	40.0	46.7	11.5
22	44	43.0	46.7	11.5
24	46	43.0	46.7	11.5
25	47	45.0	46.7	11.5
28	50	48.0	46.7	11.5
30	52	50.0	46.7	11.5
32	54	56.0	46.7	14.0
33	55	56.0	46.7	14.0
35	57	58.0	46.7	14.0
38	60	61.0	46.7	14.0
40	66	63.0	47.7	14.0
43	69	66.0	47.7	14.0
45	71	70.0	47.7	15.0
48	74	73.0	47.7	15.0
50	76	75.0	47.7	15.0
53	79	78.0	47.7	15.0
55	81	80.0	47.7	15.0
58	85	83.0	53.2	15.0
60	87	85.0	53.2	15.0
63	90	90.0	53.2	18.0
65	92	92.0	53.2	18.0
68	95	97.0	53.2	18.0
70	97	97.0	53.2	18.0
75	102	105.0	53.0	18.2
80	107	110.0	53.0	18.2
85	112	115.0	53.0	18.2
90	117	120.0	54.0	17.2
95	122	125.0	54.0	17.2
100	127	134.3	54.2	20.0



TS687

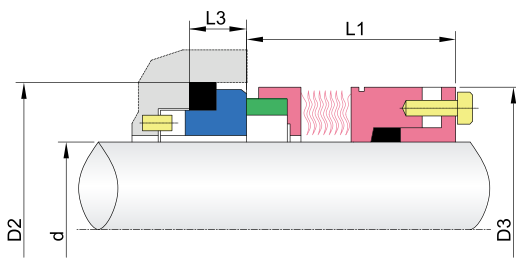


- Operational Conditions:**
 - Temperature: -75°C to +200°C
 - Pressure: ≤ 2.1MPa
 - Speed: ≤ 23m/s
- Stationary Seat:**
 - TSG9
- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: 99% Ceramic / SiC / TC
 - O-Ring: VITON, Encasulated Ring, EPDM
 - Spring and Metal Parts: SUS304 / SUS316
- Bellow:**
 - AM350

Inches Size	D3	L1
0.750	1.312	1.250
0.875	1.437	1.250
0.937	1.500	1.250
1.000	1.562	1.250
1.125	1.687	1.250
1.250	1.812	1.312
1.375	1.937	1.437
1.500	2.063	1.437
1.625	2.187	1.437
1.750	2.312	1.437
1.875	2.437	1.500
2.000	2.562	1.500
2.125	2.687	1.500
2.250	2.812	1.562
2.375	2.937	1.562
2.500	3.187	1.562
2.625	3.312	1.625
2.750	3.437	1.625
2.875	3.625	1.687
3.000	3.750	1.687
3.125	3.875	1.750
3.250	4.000	1.750
3.375	4.125	1.750
3.500	4.250	1.875
3.625	4.375	1.875
3.750	4.500	1.875
3.880	4.625	1.875
4.000	4.750	1.875

Seal Size	D3	L1
18	32.00	27.70
20	33.30	27.70
22	36.00	27.70
24	38.10	30.20
25	39.00	30.20
28	42.00	32.70
30	44.00	32.70
32	46.00	32.70
33	47.00	32.70
35	49.20	32.70
38	52.40	34.20
40	55.60	34.20
43	58.70	34.20
45	58.70	34.20
48	61.90	34.20
50	65.10	34.70
53	68.30	34.70
55	71.00	34.70
60	74.60	39.70
65	84.10	39.70
70	87.30	45.20
75	95.30	45.20
80	98.40	44.70
85	104.80	44.70
90	108.00	49.70
95	114.30	49.70

TS688



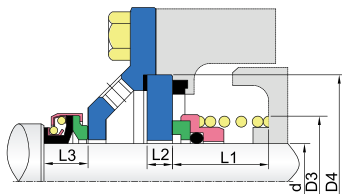
- Operational Conditions:**
 - Temperature: -75°C to +370°C
 - Pressure: ≤ 2.1MPa
 - Speed: ≤ 23m/s
- Stationary Seat:**
 - TSG9
- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: 99% Ceramic / SiC / TC
 - O-Ring: Encasulated Ring,Expanded Graphite
 - Spring and Metal Parts: SUS304 / SUS316
- Bellow:**
 - AM350

Seal Size d	D3	L1
25.40	41.28	38.95
28.58	44.45	39.87
31.75	47.63	40.66
34.93	50.80	40.66
38.10	53.98	40.66
41.28	57.15	40.66
44.45	60.33	41.48
47.63	63.50	41.48
50.80	66.68	42.26
53.98	69.85	42.26
57.15	73.03	43.86
60.33	76.20	43.86
63.50	82.55	44.65
66.68	85.73	45.44
69.85	88.90	45.44
73.03	93.65	47.83
76.20	96.82	47.83
79.38	101.60	47.83
82.55	104.78	47.83
85.73	107.95	47.83
88.90	111.13	47.83
92.08	114.30	47.83
95.25	117.48	47.83
98.43	120.65	47.83
101.60	123.83	47.83

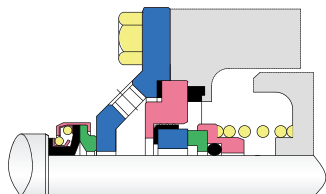


TS260

TS260 Seals used on the 1.0" and 1.5" shaft APV Puma pumps



260-001



260-002

Material:

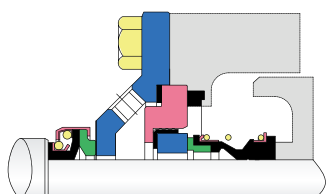
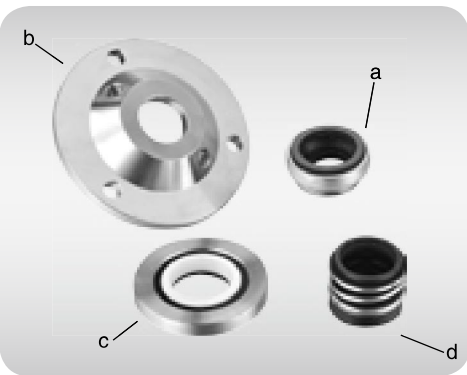
- a.d.Rotary Ring: Carbon
- b.c.Stationary Ring: SUS304 / SUS316 / Ceramic / Sic
- Secondary Seal: VITON,NBR,EPDM
- Spring and Metal Parts: SUS304 / SUS316

Seal Size:

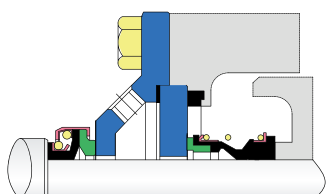
- 1.0"
- 1.5"

TS260A

TS260 Seals used on the 1.0" and 1.5" shaft APV Puma pumps



260A-001



260A-002

Material:

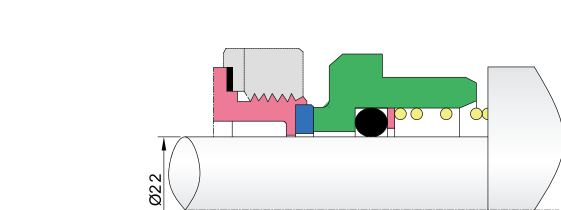
- a.d.Rotary Ring: Carbon
- b.c.Stationary Ring: SUS304 / SUS316 / SiC
- Secondary Seal: VITON,NBR,EPDM
- Spring and Metal Parts: SUS304 / SUS316

Seal Size:

- 1.0"
- 1.5"

TS91-22

TS91-22 Seal for Alfa Laval Pumps

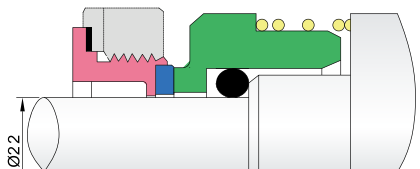


Material:

- Rotary Ring: Carbon / SiC
- Stationary Ring: SUS304 / SUS316 / SiC / TC
- Secondary Seal: VITON,EPDM
- Spring and Metal Parts: SUS304 / SUS316

TS91B-22

TS91B-22 Seal for Alfa Laval Pumps

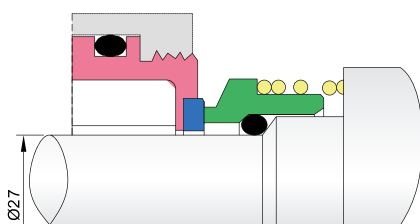


Material:

- Rotary Ring: Carbon / SiC
- Stationary Ring: SUS304 / SUS316 / SiC / TC
- Secondary Seal: VITON,EPDM
- Spring and Metal Parts: SUS304 / SUS316

TS92-27

TS92-27 Seal for Alfa Laval Pumps

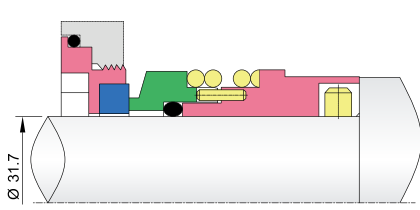


Material:

- Rotary Ring: Carbon / SiC
- Stationary Ring: SUS304 / SUS316 / SiC / TC
- Secondary Seal: VITON,EPDM
- Spring and Metal Parts: SUS304 / SUS316

TS92-35

TS92-35 Seal for Alfa Laval Pumps with single seals

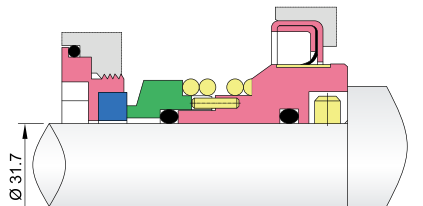


Material:

- Rotary Ring: Carbon / SiC
- Stationary Ring: SUS304 / SUS316 / SiC / TC
- Secondary Seal: VITON,EPDM
- Spring and Metal Parts: SUS304 / SUS316

TS92A-35

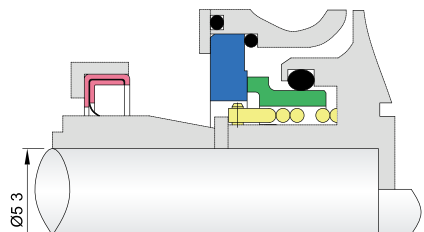
Sleeve with Stainless steel spray chromium oxide
TS92A-35 Seal for Alfa Laval Pumps with flushed seals fitted



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

TS92-53

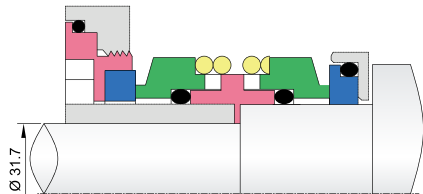
TS92-53 Seal for Alfa Laval Pumps



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / Ceramic
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

TS92B-35

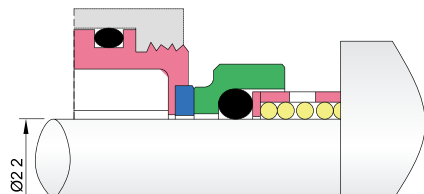
TS92B-35 Seal for Alfa Laval Pumps with double seals



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

TST93-22

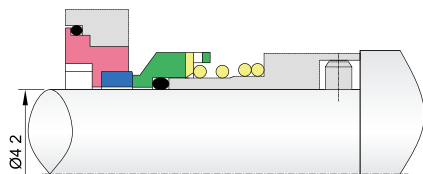
TST93-22 Seal for Alfa Laval Pumps



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

TS92-42

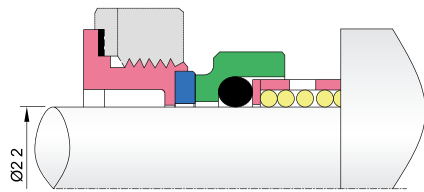
TS92-42 Seal for Alfa Laval Pumps



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

TST93B-22

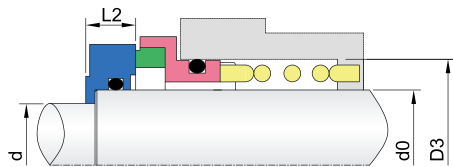
TST93B-22 Seal for Alfa Laval Pumps



- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316



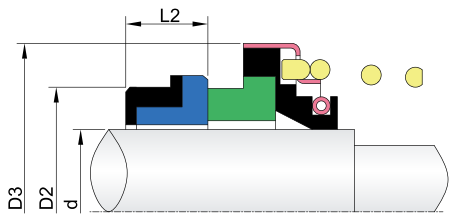
TS94



- Operational Conditions:**
- Temperature: -20°C to +200°C
 - Pressure: ≤ 2.5MPa
 - Speed: ≤ 20m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON, NBR, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	d0	D3	L2
12	16	30	7
18	25	50	11
21	25	50	11
28	36	50	11
40	50	64	14

TS290

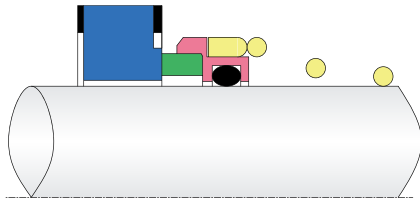


- Operational Conditions:**
- Temperature: -40°C to +180°C
 - Pressure: ≤ 0.8MPa
 - Speed: ≤ 15m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON, NBR, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D2	D3	L2
20	30.0	40.6	9.8
25	35.0	45.4	9.8
30	42.0	57.0	13.0

TS160

TS160 Seal suit APV World Pumps in shingle configuration

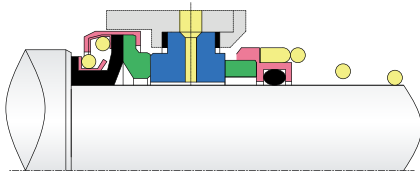


- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SiC
 - Secondary Seal: VITON, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 25MM
 - 35MM

TS160A

TS160A Seal suit APV World Pumps in shingle configuration

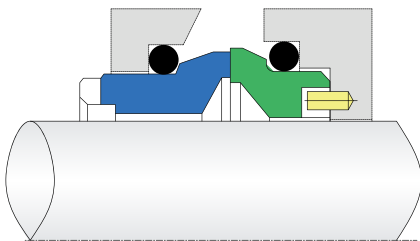


- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SiC
 - Secondary Seal: VITON, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 25MM
 - 35MM

TS160B

TS160B Seal suit APV World + Pumps



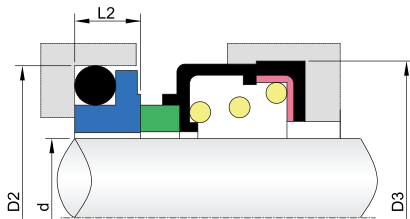
- Material:**
- Rotary Ring: Carbon / SiC
 - Stationary Ring: SiC / Carbon
 - Secondary Seal: VITON, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 25MM
 - 35MM
 - 55MM



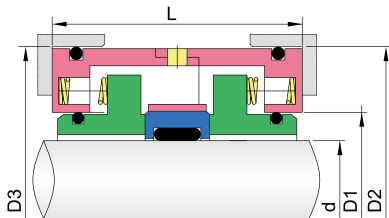
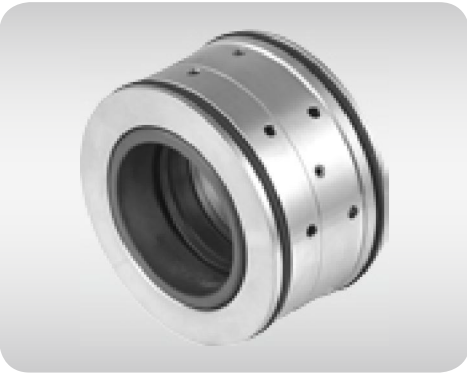
TS28

TS28 Seals For Common O.E.M Pumps, the type suit imperial Machine Company waste-disposal units



- Material:**
 - Rotary Ring: Carbon / SiC
 - Stationary Ring: SiC / SUS304 / SUS316
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316
- Seal Size:**
 - 44.4MM

TSEMLL

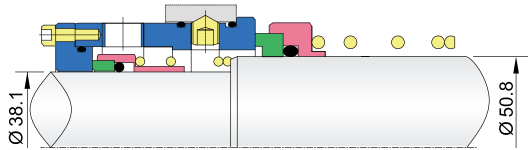


- Operational Conditions:**
 - Temperature: -40°C to +200°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 20m/s
- Material:**
 - Rotary Ring: SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D1	D2	D3	L
35	47.0	72.0	72.0	47
50	63.0	90.0	92.0	52
75	95.0	128.0	130.0	75

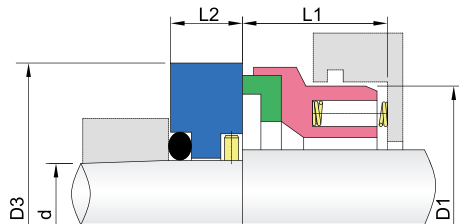
TSHOM2

TSHOM2 Seals For Alfa Laval Contherm scraped surface heat exchangers



- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / SUS304 / SUS316 / SiC / pray chromium oxide / TC
 - Secondary Seal: VITON,EPDM
 - Spring and Metal Parts: SUS304 / SUS316
- Seal Size:**
 - 38.1MM/50.8MM

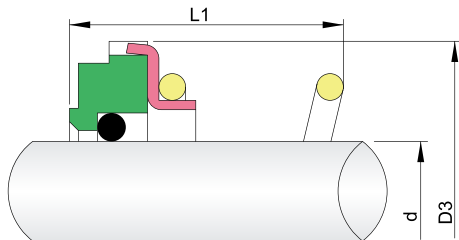
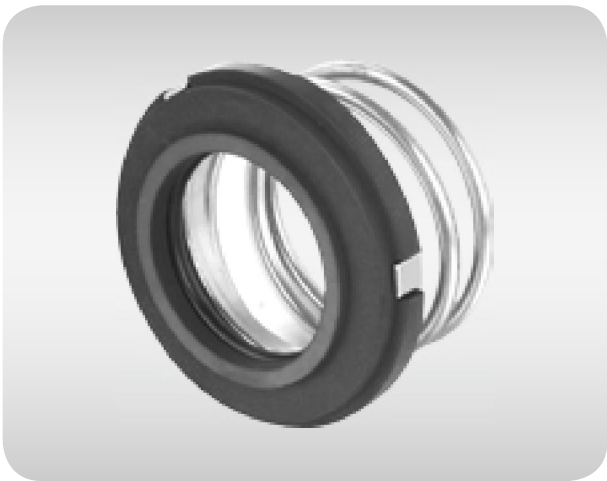
TST50



- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SUS304 / SUS316 / SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D3	D1	L1	L2
15.8	44.5	36.1	24.0	10.5
25.4	53.5	44.0	24.0	10.0
38.1	74.0	64.0	28.0	15.5

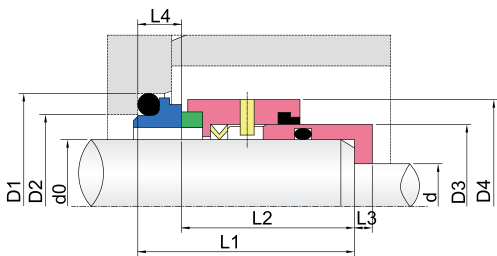
TS293



- Operational Conditions:**
 - Temperature: -30°C to +180°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 10m/s
- Material:**
 - Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / SUS / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D3	L1
1.000	39.50	47.00
1.125	53.95	39.00
1.500	66.60	33.50

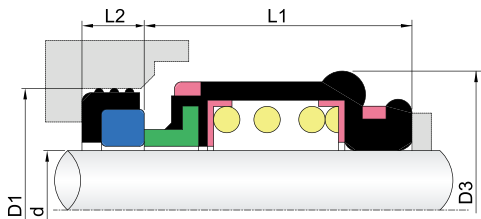
TSAK5M



- Operational Conditions:**
- Temperature: -10°C to +100°C
 - Pressure: ≤ 1.6MPa
 - Speed: ≤ 10m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / SiC
 - Secondary Seal: EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d0	d	D1	D2	D3	D4	L1	L2	L3	L4
38	29.00	56.00	49.00	44.20	54.00	45.00	36.00	3.80	9.00
48	39.00	66.00	59.00	54.20	64.00	45.00	36.00	3.80	9.00
53	43.00	73.00	65.00	59.20	68.50	47.50	36.50	3.50	11.00
65	56.00	85.00	77.00	72.70	85.00	52.50	41.50	3.50	11.00
90	81.00	115.00	105.00	98.00	114.00	65.00	51.00	18.00	14.00

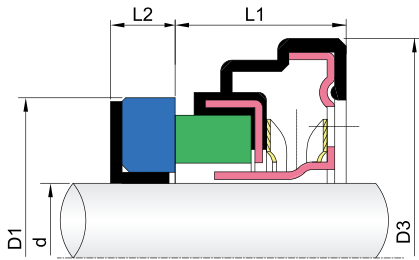
TSKB



- Operational Conditions:**
- Temperature: -30°C to +200°C
 - Pressure: ≤ 1.0MPa
 - Speed: ≤ 13m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: Ceramic / SiC / TC
 - Secondary Seal: VITON, NBR, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D3	D1	L1	L2
28	50.00	44.00	30.00	10.00
35	64.00	54.00	35.00	10.50
50	74.50	70.00	45.20	12.20
1-1/8"	50.00	44.50	30.00	11.10
1-1/2"	66.00	53.90	35.50	10.00
2"	75.50	69.80	45.20	13.00

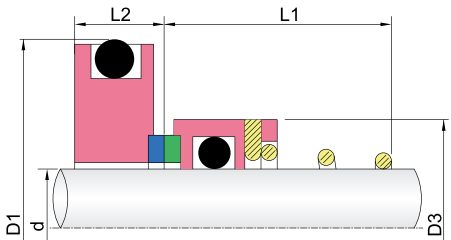
TSGCS



- Operational Conditions:**
- Temperature: -30°C to +120°C
 - Pressure: ≤ 1.5MPa
 - Speed: ≤ 13m/s
- Material:**
- Rotary Ring: Carbon
 - Stationary Ring: SUS
 - Secondary Seal: VITON, NBR, EPDM
 - Spring and Metal Parts: SUS304 / SUS316

Size d	D3	D1	L1	L2
40	68.00	58.00	12.00	5.00
50	80.00	70.00	13.00	5.00
58	88.00	75.00	18.00	7.00
90	130.00	112.00	20.00	8.50
100	140.00	122.00	20.00	7.00

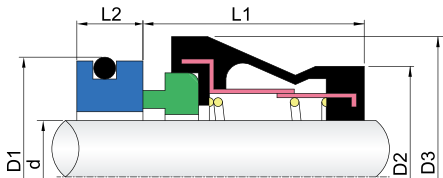
TS8W



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, EPDM, NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 15MM
 - 20MM

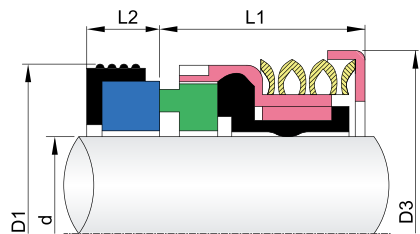
TS17B



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, EPDM, NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 20MM
 - 30MM
 - 40MM

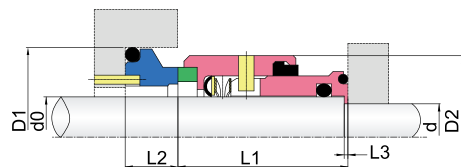
TS1577



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: Ceramic / SiC
 - Secondary Seal: VITON,EPDM,NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 50MM
 - 65MM

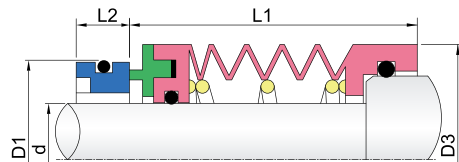
TSBS2



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON,EPDM,NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 19MM
 - 28MM
 - 38MM

TSWB3



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: Ceramic / SiC
 - Secondary Seal: VITON,EPDM,NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 25MM

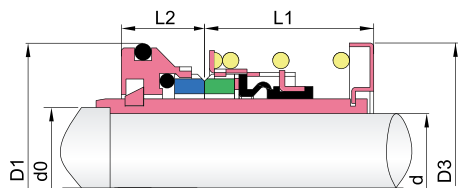
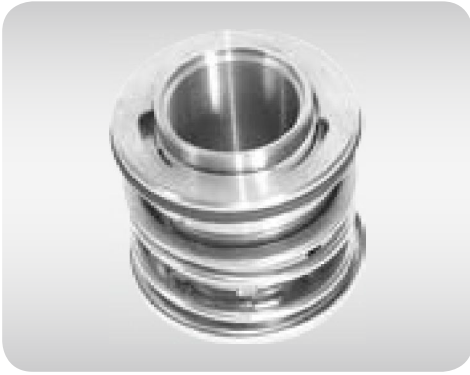
TSSB01



- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON,EPDM,NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 22MM

TSNULL

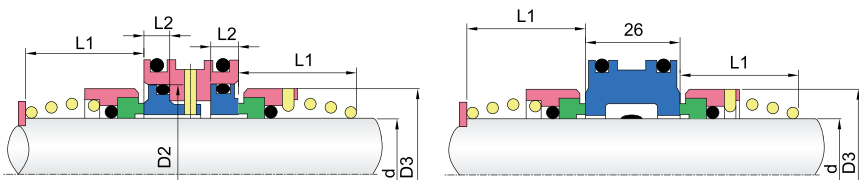


- Material:**
- Rotary Ring: TC
 - Stationary Ring: TC
 - Secondary Seal: VITON,EPDM,NBR
 - Spring and Metal Parts: SUS304 / SUS316

- Seal Size:**
- 1.5"
 - 1.875"
 - 2.75"

TS208

Inboard Rotary and seat , Outboard Rotary and Seat

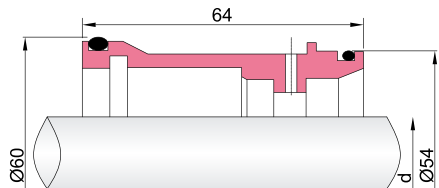


- Material:**
- Carbon / SiC / TC

- Seal Size:**
- 30MM
 - 35MM



TS208/01



TS208/01 sleeve for TS208 seals

Material:
• SUS304 / SUS316

Length:
• 64MM

TS208/11

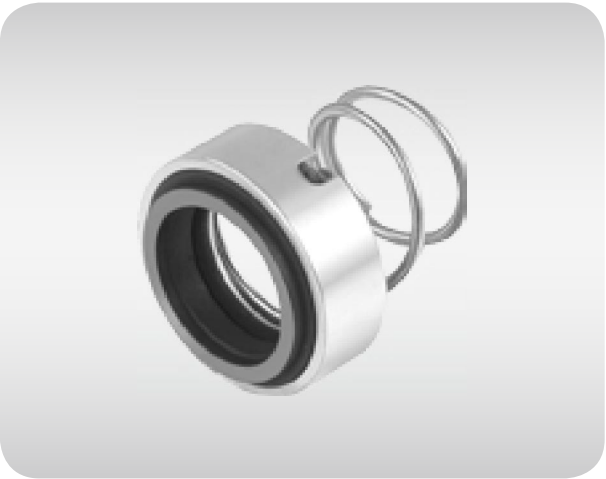


Inboard rotary ,with base plate

Material:
• SUS304 / SUS316 / SiC / Carbon / TC

Size:
• 22MM,30MM,35MM

TS208/12



Inboard rotary ,no base plate

Material:
• SUS304 / SUS316 / SiC / Carbon / TC

Size:
• 22MM,30MM,35MM

TS208/1

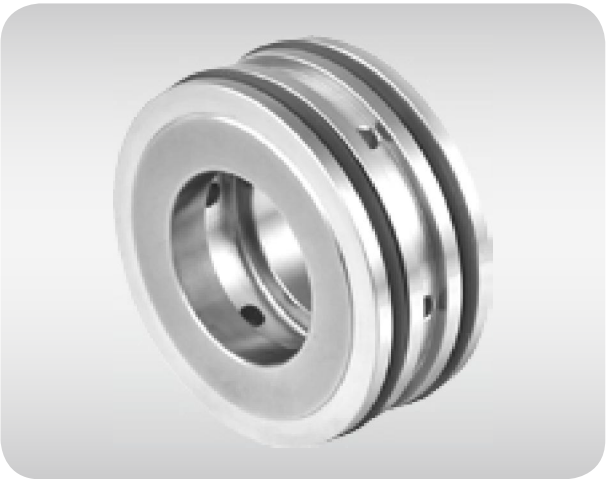


Centre collet, to accept inboard and outboard seals

Material:
• SUS304 / SUS316

Size:
• 30MM,35MM

TS208/2

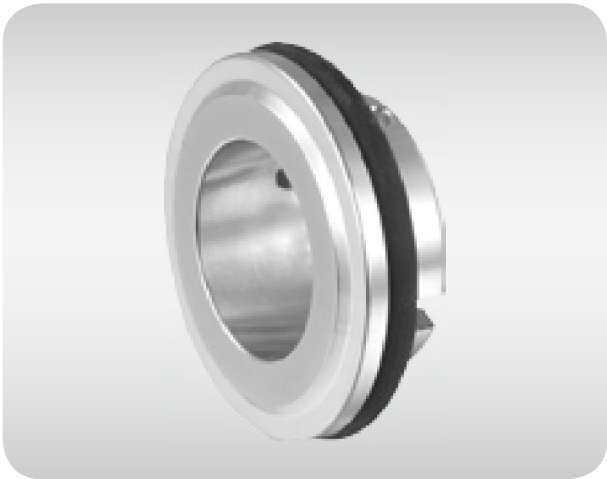


Centre seat with lapped face

Material:
• SUS304 / SUS316 / SiC

Size:
• 30MM,35MM

TS208/11B



Inboard pinned-seal

Material:
• SUS304 / SUS316 / SiC / TC

Size:
• 22MM,30MM,35MM

TS208/12B



Outboard seal

Material:
• SUS304 / SUS316 / SiC / Carbon / TC

Size:
• 22MM,30MM,35MM



TSGLF-1

TSGLF-1 is original Grundfos seal, single spring o-ring, mounted semi-cartridge seals with threaded Hex-head. suit for Grundfos CR,CRN and CRI 1, 3 , 10, 15, 20 and 5 series Pump.



Operational Conditions:

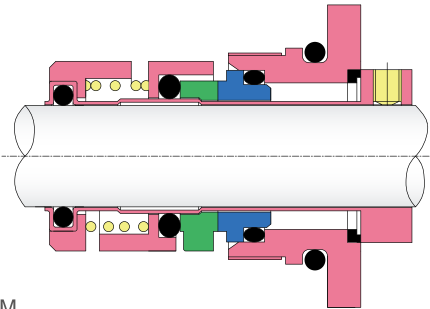
- Temperature: -30°C to +200°C
- Pressure: ≤ 2.5MPa
- Speed: ≤ 25m/s

Seal Size:

- 12MM,16MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC / CAR
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-2

TSGLF-2 is single spring o-ring, mounted semi-cartridge seals with threaded Hex-head. suit for Grundfos CR,CRN and CRI 1, 3 , 10, 15, 20 and 5 series Pump.



Operational Conditions:

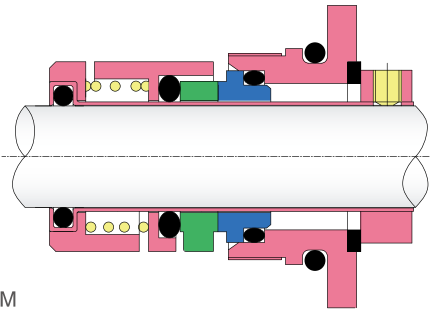
- Temperature: -30°C to +200°C
- Pressure: ≤ 2.5MPa
- Speed: ≤ 25m/s

Seal Size:

- 12MM,16MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC / CAR
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-3

TSGLF-3 is Original Grundfos, single spring o-ring, mounted semi-cartridge seals with push-fit head. Suit for Grundfos Pumps CR,CRI, CRN32, 45, 64 Series.



Operational Conditions:

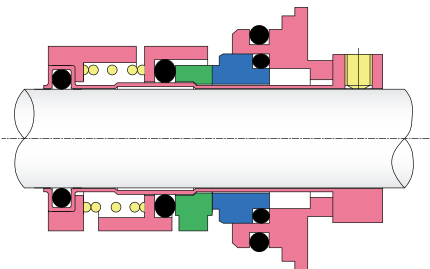
- Temperature: -30°C to +200°C
- Pressure: ≤ 2.5MPa
- Speed: ≤ 25m/s

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC / CAR
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-4

TSGLF-4 is single spring o-ring, mounted semi-cartridge seals with push-fit head. Suit for Grundfos Pumps CR,CRI, CRN32, 45, 64 Series.



Operational Conditions:

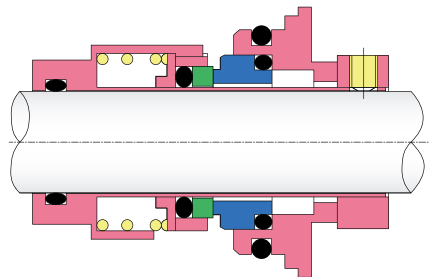
- Temperature: -30°C to +200°C
- Pressure: ≤ 2.5MPa
- Speed: ≤ 25m/s

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC / CAR
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-5

TSGLF-5 is an original Grundfos seal with single spring o-ring mounted seals for Grundfos pumps.



Operational Conditions:

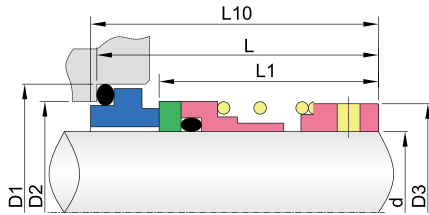
- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 15m/s

Seal Size:

- 12MM,16MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-6

TSGLF-6 is ruber bellow seals with warm,soapy water.Suit for Grundfos Pumps CR2,CR4 The rubber bellow design short and long two type.



Operational Conditions:

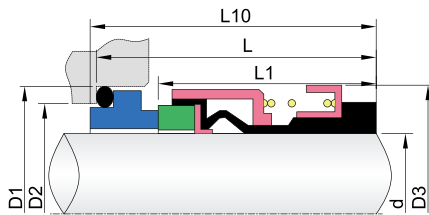
- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 12MM,16MM

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-7



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-8



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 12MM, 16MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-9



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 12MM

Material:

- Rotary Ring: SiC / TC / Ceramic
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-10

TSGLF-10 is single spring o-ring, mounted semi-cartridge seals with push-fit head.



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-11

TSGLF-11 is single spring o-ring, mounted semi-cartridge seals with push-fit head.



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-12

TSGLF-12 is single spring o-ring, mounted semi-cartridge seals with push-fit head.



Operational Conditions:

- Temperature: -20°C to $+180^{\circ}\text{C}$
- Pressure: $\leq 1.2\text{MPa}$
- Speed: $\leq 10\text{m/s}$

Seal Size:

- 22MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-13



Operational Conditions:

- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 22MM,32MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-14



Operational Conditions:

- Temperature: -20°C to +120°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 12MM,16MM

Material:

- Rotary Ring: SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-15



Operational Conditions:

- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 32MM,38MM,50MM,65MM

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304

TSGLF-16



Operational Conditions:

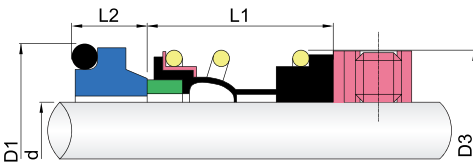
- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 16MM

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: Carbon / SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-17



Operational Conditions:

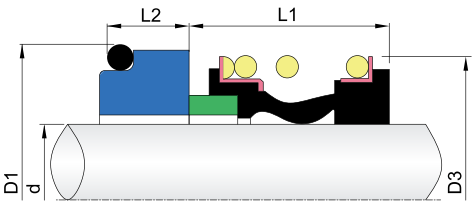
- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

- 12MM,16MM,22MM,33MM

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



TSGLF-18



Operational Conditions:

- Temperature: -20°C to +180°C
- Pressure: ≤ 1.2MPa
- Speed: ≤ 10m/s

Seal Size:

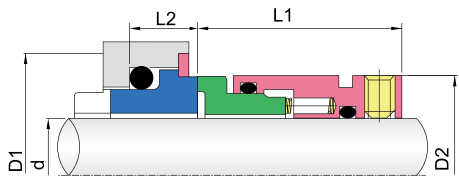
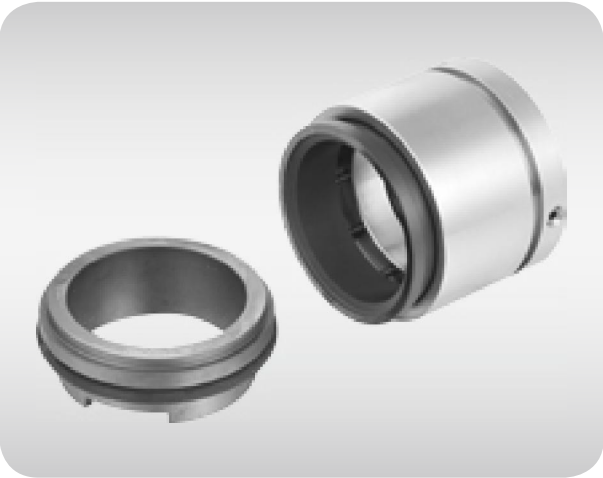
- 65MM

Material:

- Rotary Ring: Carbon / SiC / TC
- Stationary Ring: SiC / TC
- Secondary Seal: VITON, NBR.EPDM
- Spring and Metal Parts: SUS304



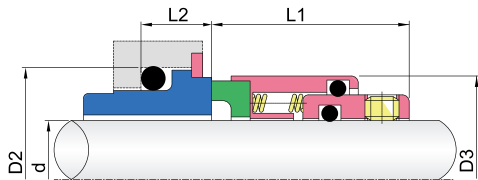
TSGLF-19



- Operational Conditions:**
- Temperature: -20°C to +180°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 10m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304

Seal Size d	D1	D2	L1	L2
32.0	46.0	46.0	34.0	11.0
38.0	54.0	53.0	34.0	11.2
50.0	66.0	65.6	34.5	14.0
65.0	85.0	84.2	66.0	15.3

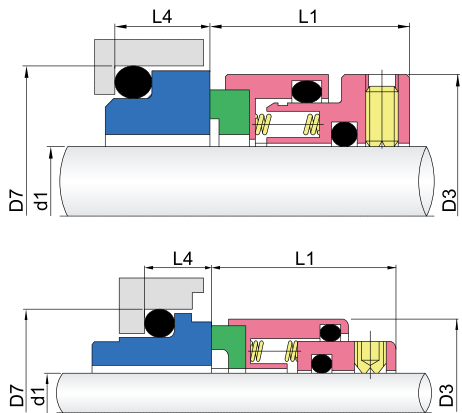
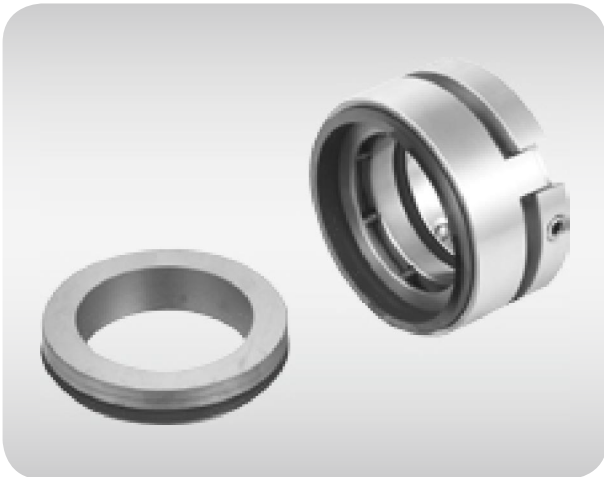
TSGLF-20



- Operational Conditions:**
- Temperature: -20°C to +180°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 10m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304

Metric Size d	D2	D3	L1	L2
25.0	39.0	38.0	29.9	9.6
32.0	46.0	48.0	32.4	11.0
38.0	54.0	55.0	33.9	11.2
50.0	66.0	69.3	34.4	14.0
65.0	85.0	85.4	38.9	15.3

TSGLF-21



- Operational Conditions:**
- Temperature: -20°C to +180°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 10m/s
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304

Metric Size d1	D7	D3	L1	L4
30.0	46.0	45.0	24.0	10.0
38.0	58.0	56.0	27.0	11.0
50.0	70.0	70.0	27.0	13.0
60.0	90.0	85.0	32.0	13.0

TSGLF-22



- Operational Conditions:**
- Temperature: -20°C to +180°C
 - Pressure: ≤ 1.2MPa
 - Speed: ≤ 10m/s
- Seal Size:**
- 16MM,25MM,38MM
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: Carbon / SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304

TSGLF-23

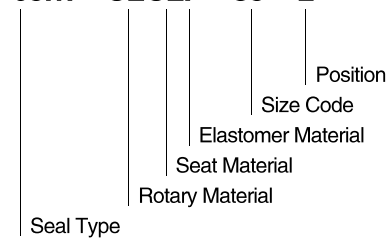


- Operational Conditions:**
- Temperature: -30°C to +200°C
 - Pressure: ≤ 2.5MPa
 - Speed: ≤ 25m/s
- Seal Size:**
- 12MM,16MM,22MM
- Material:**
- Rotary Ring: Carbon / SiC / TC
 - Stationary Ring: SiC / TC
 - Secondary Seal: VITON, NBR,EPDM
 - Spring and Metal Parts: SUS304



Seal Coding System

TS05M – U2U2P – 35 – L



EXAMPLES

Seal Code **TS05A - BFP - 22 - U**

Seal Type	Material Code	Size Code	Position
TS05A	B – Carbon(Rotary) F – Stainless Steel Seat P – Nitrile	22 =22mm	U =Upper Seal

Seal Code **TS05P - BU2P - 60 - U**

Seal Type	Material Code	Size Code	Position
TS05P	B – Carbon(Rotary) U2 – Tungsten Carbide Seat P – Nitrile	60 =60mm	U =Upper Seal

Seal Code **TS05T - U2U2P - 120 - L**

Seal Type	Material Code	Size Code	Position
TS05T	U2 – Tungsten Carbide Rotary	120 =120mm	L =Lower Seal
	U2 – Tungsten Carbide Seat		
	P – Nitrile		

MATERIAL CODE (Rotary & Seat)	MATERIAL CODE (Elastomer)	SIZE CODE	POSITION
B=Carbon	P=Nitrile	35=35mm	L=Lower
Q2=Silicon Carbide			U=Upper
F=Stainless Steel			
U2=Tunasten Carbide			

TS05 Cross Reference Charts

FLYGT Unit Type Model Version	TSSEAL Alternative Upper(inner)	Size	TSSEAL Alternative Lower(outer)	Size
600	TS05Q	60mm	TS05Q	60mm
605	TS05S	90mm	TS05S	80mm
615	TS05S	90mm	TS05S	80mm
665	TS05S	90mm	TS05S	80mm
670	TS05S	90mm	TS05S	80mm
680	TS05S	90mm	TS05S	80mm
705	TS05S	90mm	TS05S	80mm
705	TS05S	90mm	TS05T	120mm
705	TS05S	90mm	TS05U	90mm
715	TS05S	90mm	TS05S	80mm
715	TS05S	90mm	TS05T	120mm
715	TS05S	90mm	TS05U	90mm
720	TS05S	90mm	TS05S	80mm
720	TS05S	90mm	TS05T	120mm
720	TS05S	90mm	TS05U	90mm
721	TS05S	90mm	TS05S	80mm
721	TS05S	90mm	TS05T	120mm
721	TS05S	90mm	TS05U	90mm
735	TS05S	90mm	TS05S	80mm
735	TS05S	90mm	TS05T	120mm
735	TS05S	90mm	TS05U	90mm
745	TS05S	90mm	TS05S	80mm
745	TS05S	90mm	TS05T	120mm
745	TS05S	90mm	TS05U	90mm
760	TS05S	90mm	TS05S	80mm
760	TS05S	90mm	TS05T	120mm
760	TS05S	90mm	TS05U	90mm
765	TS05S	90mm	TS05S	80mm
765	TS05S	90mm	TS05T	120mm
765	TS05S	90mm	TS05U	90mm
770	TS05S	90mm	TS05S	80mm
770	TS05S	90mm	TS05T	120mm
770	TS05S	90mm	TS05U	90mm
775	TS05S	90mm	TS05S	80mm
775	TS05S	90mm	TS05T	120mm
775	TS05S	90mm	TS05U	90mm
805			TS05T	120mm
820	TS05S	90mm	TS05S	80mm
820	TS05S	90mm	TS05T	120mm
820	TS05S	90mm	TS05U	90mm
835			TS05T	120mm
840	TS05S	90mm	TS05S	80mm
840	TS05S	90mm	TS05T	120mm
840	TS05S	90mm	TS05U	90mm
841	TS05S	90mm	TS05S	80mm
841	TS05S	90mm	TS05T	120mm
841	TS05S	90mm	TS05U	90mm
860	TS05S	90mm	TS05S	80mm
860	TS05S	90mm	TS05T	120mm
860	TS05S	90mm	TS05U	90mm
865			TS05T	120mm
880	TS05S	90mm	TS05S	80mm
880	TS05S	90mm	TS05T	120mm
880	TS05S	90mm	TS05U	90mm

FLYGT Unit Type Model Version	TSSEAL Alternative Upper(inner)	Size	TSSEAL Alternative Lower(outer)	Size
881	TS05S	90mm	TS05S	80mm
881	TS05S	90mm	TS05T	120mm
881	TS05S	90mm	TS05U	90mm
900	TS05S	90mm	TS05S	80mm
900	TS05S	90mm	TS05T	120mm
900	TS05S	90mm	TS05U	90mm
905			TS05T	120mm
935			TS05T	120mm
2004	TS05D	15mm	N/A	
2008	TS05D	15mm	N/A	
2012	TS05D	15mm	N/A	
2016	TS05D	15mm	N/A	
2024	TS05A	20mm	TS05A	20mm
2040	TS05C or TS05F	22mm	TS05C or TS05F	22mm
2050	TS05D	15mm	N/A	
2052	TS05D	15mm	N/A	
2060	TS05G	20mm	TS05G	20mm
2066	TS05A	20mm	TS05A	20mm
2070	TS05E	22mm	TS05E	22mm
2071	TS05F	22mm	TS05F	22mm
2075	TS05A	20mm	TS05A	20mm
2082	TS05I	28mm	TS05I	28mm
2084	TS05K	35mm	TS05L	35mm
2090	TS05I	28mm	TS05I	28mm
2101	TS05A	20mm	TS05A	20mm
2102–210	TS05C or TS05F	22mm	TS05C or TS05F	22mm
2102–040	TS05E	22mm	TS05E	22mm
2102–041	TS05C or TS05F	22mm	TS05C or TS05F	22mm
2102–220	TS05C or TS05F	22mm	TS05C or TS05F	22mm
2125	TS05I	28mm	TS05I	28mm
2135	TS05K	35mm	TS05L	35mm
2140	TS05I	28mm	TS05I	28mm
2151–010	TS05K	35mm	TS05K	35mm
2151–011	TS05K	35mm	TS05L	35mm
2151–050	TS05K	35mm	TS05L	35mm
2201–430	TS05N	45mm	TS05N	35mm
2201–320	TS05N	45mm	TS05N	35mm
2201–010	TS05O	45mm	TS05K	35mm
2201–011 HT	TS05O	45mm	TS05N	35mm
2201–011 LT	TS05O	45mm	TS05O	45mm
2201–011 MT	TS05O	45mm	TS05N	35mm
2201 –480	TS05N	45mm	TS05N	35mm
2201 –590	TS05N	45mm	TS05N	35mm
2201 –690	TS05N	45mm	TS05N	35mm
2250	TS05P	60mm	TS05P	60mm
2290	TS05P	60mm	TS05P	60mm
2400	TS05R	60mm	TS05R	60mm
2540			TS05R	60mm
3041–171	TS05G	20mm	TS05G or TS05H	20mm
3041–180	TS05G	20mm	TS05G or TS05H	20mm
3041–281	TS05G	20mm	TS05G	20mm
3057	TS05G	20mm	TS05G or TS05H	20mm
3060	TS05G	20mm	TS05G	20mm
3065	TS05A Lower	20mm	TS05A	20mm



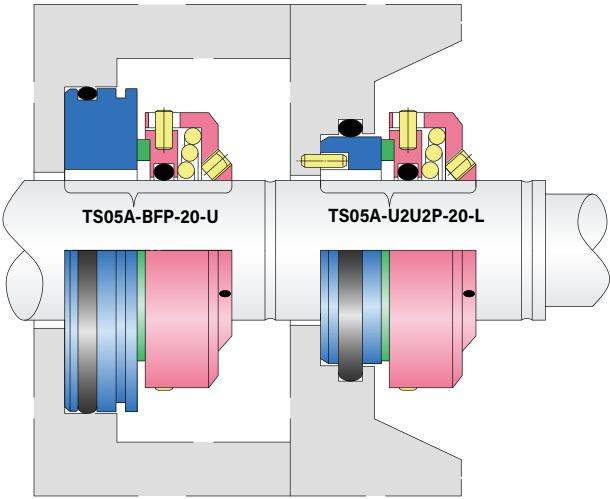
TS05 Cross Reference Charts

FLYGT Unit Type Model Version	TSSEAL Alternative Upper(inner)	Size	TSSEAL Alternative Lower(outer)	Size
3066	TS05G	20mm	TS05Gor TS05H	20mm
3067-890	TS05G	20mm	TS05Gor TS05H	20mm
3067-690	TS05G	20mm	TS05Gor TS05H	20mm
3067-590	TS05G	20mm	TS05Gor TS05H	20mm
3067-250	TS05G	20mm	TS05G	20mm
3067-170	TS05G	20mm	TS05G	20mm
3067-090	TS05G	20mm	TS05Gor TS05H	20mm
3067-180	TS05G	20mm	TS05Gor TS05H	20mm
3068	TS05G	20mm	TS05G	20mm
3080	TS05A	20mm	TS05A	20mm
3082	TS05E	20mm	TS05E	22mm
3085-290	TS05G	20mm	TS05H	20mm
3085-280	TS05G	20mm	TS05H	20mm
3085-091	TS05G	20mm	TS05G	20mm
3085-092	TS05G	20mm	TS05Gor TS05H	20mm
3085-120	TS05G	20mm	TS05Gor TS05H	20mm
3085-170	TS05G	20mm	TS05Gor TS05H	20mm
3085-171	TS05G	20mm	TS05Gor TS05H	20mm
3085-172	TS05G	20mm	TS05Gor TS05H	20mm
3085-180	TS05G	20mm	TS05Gor TS05H	20mm
3085-181	TS05G	20mm	TS05Gor TS05H	20mm
3085-182	TS05G	20mm	TS05Gor TS05H	20mm
3085-890	TS05G	20mm	TS05G	20mm
3085-891	TS05G	20mm	TS05Gor TS05H	20mm
3101	TS05B	28mm	TS05B	28mm
3102	TS05J	25mm	TS05J	25mm
3126-290	TS05K	35mm	TS05M	35mm
3126-280	TS05K	35mm	TS05M	35mm
3126-181	TS05M	35mm	TS05M	35mm
3126-090	TS05K	35mm	TS05K	35mm
3126-091	TS05K	35mm	TS05M	35mm
3126-180	TS05K	35mm	TS05K	35mm
3127	TS05M	35mm	TS05M	35mm
3140	TS05O	45mm	TS05O	45mm
3152	TS05O	45mm	TS05O	45mm
3170	TS05Q	60mm	TS05Q	60mm
3200	TS05P	60mm	TS05P	60mm
3201	TS05Q	60mm	TS05Q	60mm
3230	TS05S	90mm	TS05S	80mm
3300-091	TS05S	90mm	TS05S	80mm
3300-181	TS05S	90mm	TS05S	80mm
3300-280	TS05S	90mm	TS05S	80mm
3300-980	TS05S	90mm	TS05S	80mm
3305	TS05S	90mm	TS05S	80mm
3310	TS05S	90mm	TS05T	120mm
3311	TS05S	90mm	TS05T	120mm
3312	TS05S	90mm	TS05T	120mm
3350	TS05S	90mm	TS05T	120mm
3351	TS05S	90mm	TS05T	120mm
3355	TS05S	90mm	TS05S	80mm
3356	TS05S	90mm	TS05S	80mm
3357	TS05S	90mm	TS05S	80mm
3400	TS05S	90mm	TS05U	90mm
3500	TS05S	90mm	TS05T	120mm

FLYGT Unit Type Model Version	TSSEAL Alternative Upper(inner)	Size	TSSEAL Alternative Lower(outer)	Size
3501	TS05S	90mm	TS05T	120mm
3530	TS05S	90mm	TS05T	120mm
3531	TS05S	90mm	TS05T	120mm
3600	TS05S	90mm	TS05T	120mm
3601	TS05S	90mm	TS05T	120mm
3602	TS05S	90mm	TS05T	120mm
4351	TS05G	20mm	TS05H	20mm
4352	TS05G	20mm	TS05H	20mm
4400	TS05G	20mm	TS05H	20mm
4410	N/A		TS05Q	60mm
4430	N/A		TS05Q	60mm
4440	TS05M	35mm	TS05M	35mm
4650	TS05O	45mm	TS05O	45mm
4660	TS05O	45mm	TS05O	45mm
4670	TS05Q	60mm	TS05Q	60mm
4680	TS05Q	60mm	TS05Q	60mm
5100	TS05O	45mm		
5520			TS05J	25mm
5530	TS05M	35mm	TS05M	35mm
5540	TS05O	45mm		
5550	TS05Q	60mm		
5560	TS05S	90mm		
7045	TS05Q	60mm	TS05Q	60mm
7050	TS05S	90mm	TS05S	80mm
7051	TS05S	90mm	TS05S	80mm
7055	TS05S	90mm	TS05S	80mm
7060	TS05S	90mm	TS05S	80mm
7061	TS05S	90mm	TS05S	80mm
7076	TS05S	90mm	TS05S	80mm
7080	TS05S	90mm	TS05S	80mm
7080	TS05S	90mm	TS05T	120mm
7081	TS05S	90mm	TS05U	90mm
7101	TS05S	90mm	TS05U	90mm
7115	TS05S	90mm	TS05T	120mm
7556	TS05S	90mm	TS05S	80mm
7570	TS05S	90mm	TS05T	120mm
7585	TS05S	90mm	TS05T	120mm
Ready 4	TS05D	15mm	N/A	
Ready 8	TS05D	15mm	N/A	
Ready 12	TS05D	15mm	N/A	
Ready 16	TS05D	15mm	N/A	
Ready 24	TS05A	20mm	TS05A	20mm
Ready 40	TS05Cor TS05F	22mm	TS05Cor TS05F	22mm
Ready 56	TS05Cor TS05F	22mm	TS05Cor TS05F	22mm
Ready 90	TS05I	28mm	TS05I	28mm
Ready 7	TS05G	20mm	TS05G	20mm

Grindex Pump	TSSEAL Alternative Upper(inner)	TSSEAL Alternative Lower(outer)
Maxi	TS05O	TS05N
All other pumps	TS05Z	TS05Z

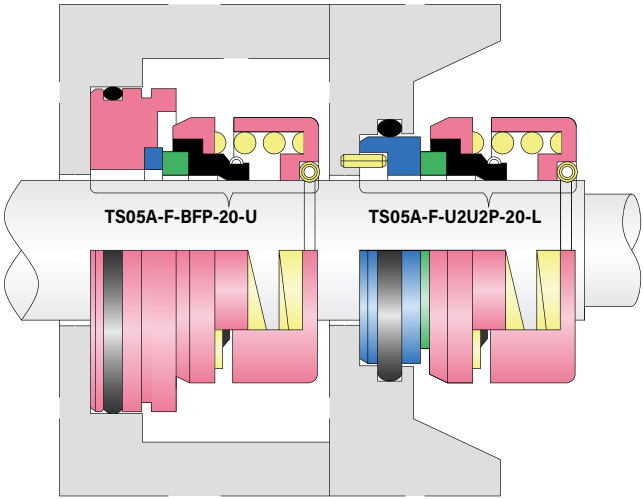
TS05A



TS05A seal instead of AES T05A seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Unitised rotary,no loose faces to fall out during installation

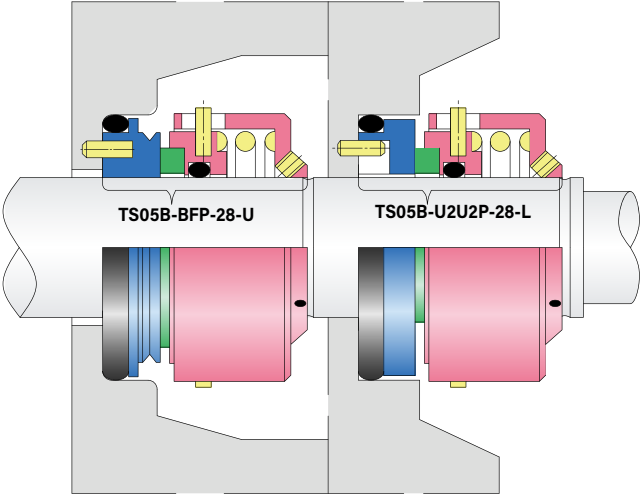
TS05A-F



TS05A-F seal instead of original Flygt seal used for Flygt pump no: 2024/2066/2075/2101/3065/3080/Ready 24

- Monolithic stationary faces
- Supplied with removable setting clip

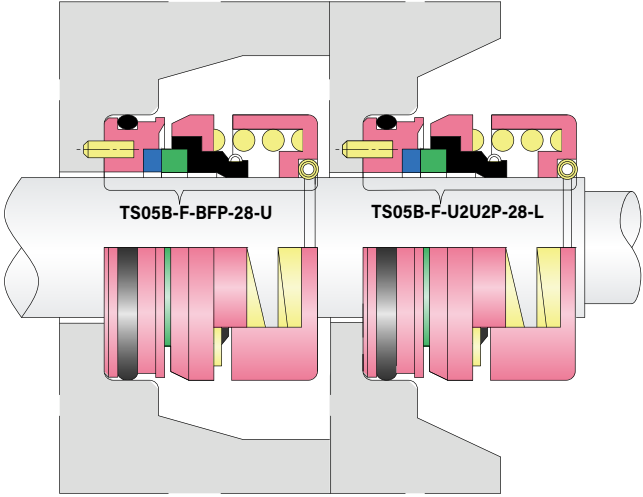
TS05B



TS05B seal instead of AES T05B seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Unitised rotary,no loose faces to fall out during installation

TS05B-F

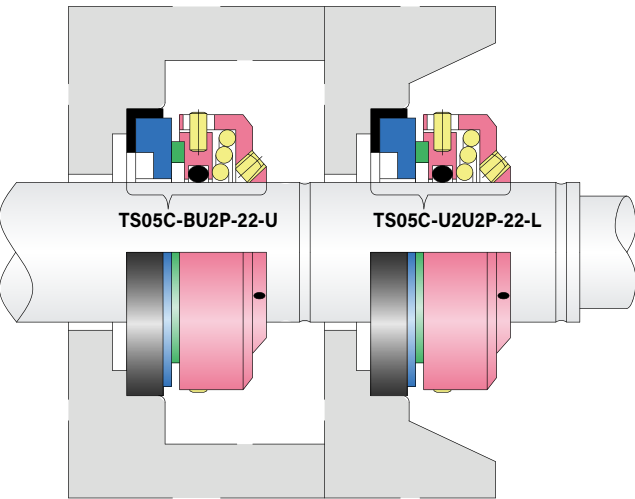


TS05B-F seal instead of original Flygt seal used for Flygt pump no: 3101

- Monolithic stationary faces
- Supplied with removable setting clip

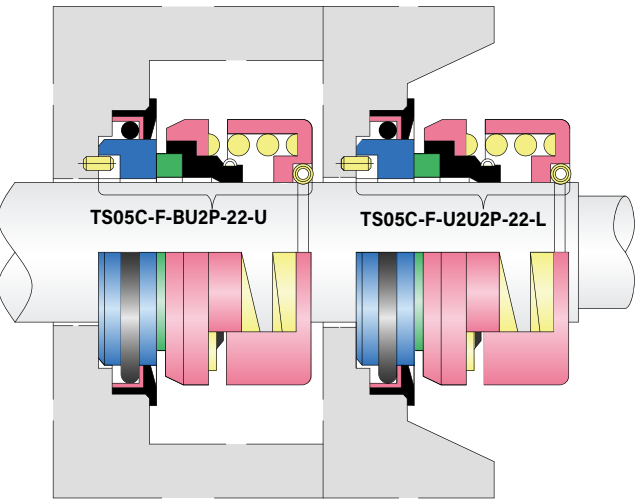


TS05C



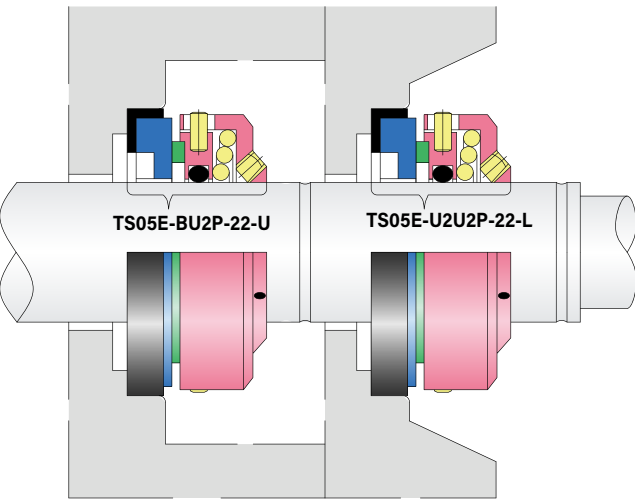
- TS05C seal instead of AES T05C seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - Unitised rotary,no loose faces to fall out during installation
 - Monolithic stationary faces

TS05C-F



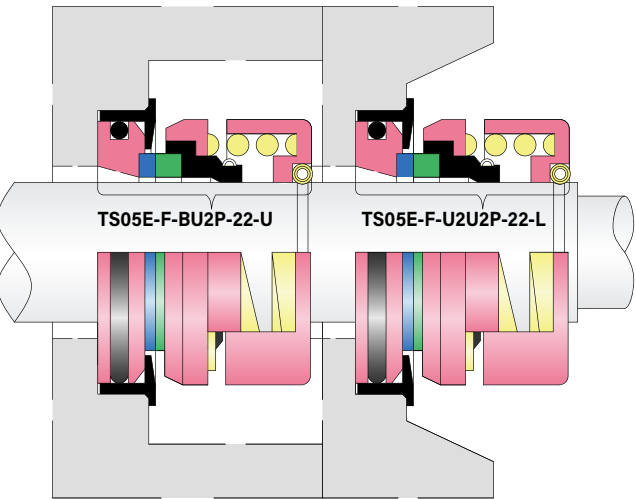
- TS05C-F seal instead of original Flygt seal used for Flygt pump no:2040/2102-210/2102-041/2102-220/Ready 40/Ready 56**
- Seats designed to replace original seat&wear protector
 - Supplied with removable setting clip
 - No plastic parts

TS05E



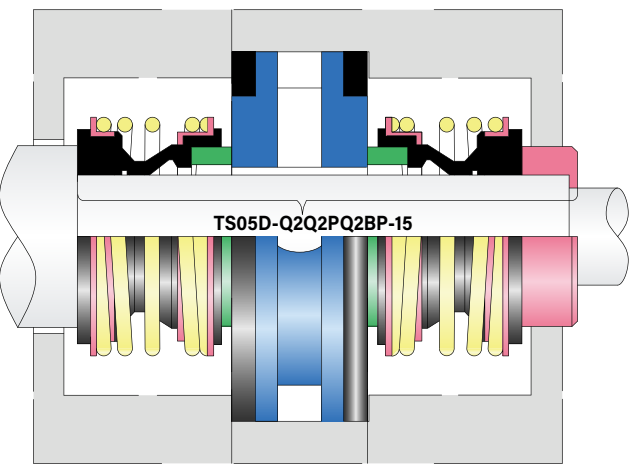
- TS05E seal instead of AES T05E seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation

TS05E-F



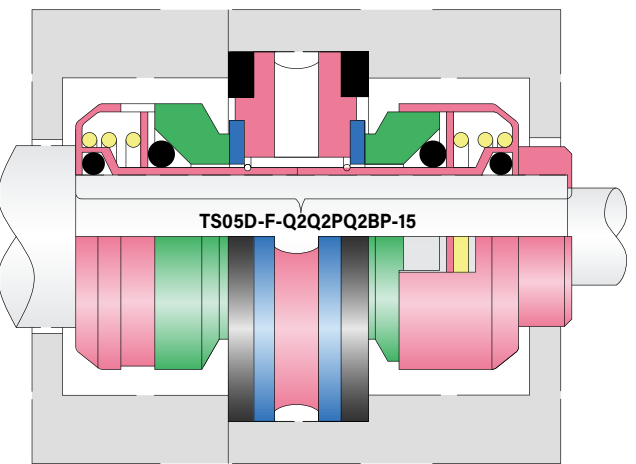
- TS05E-F seal instead of original Flygt seal used for Flygt pump no: 2070/2102-040/3082**
- Monolithic stationary faces
 - Supplied with removable setting clip

TS05D



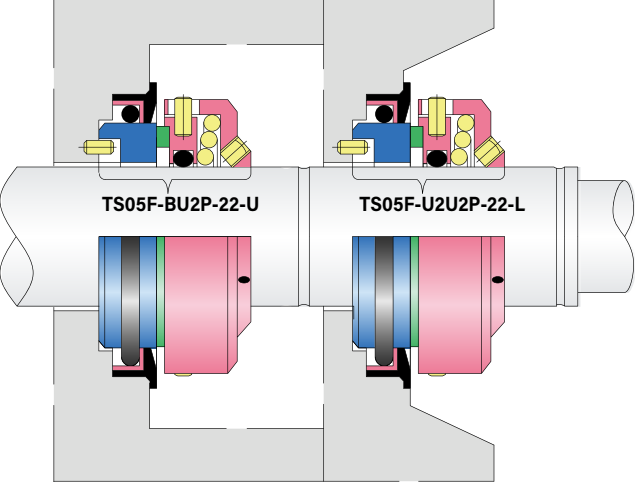
- TS05D seal instead of AES T05D seal**
- Enclosed Bellows rotary design
 - Stainless Steel metal parts
 - Monolithic stationary faces
 - Supplied with setting collar

TS05D-F



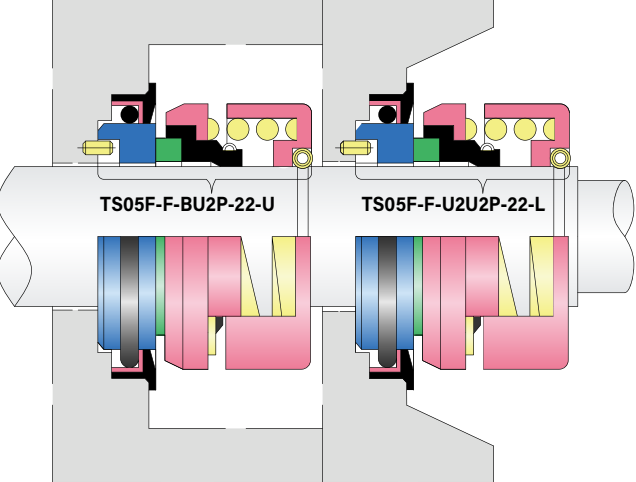
- TS05D-F seal instead of original Flygt seal used for Flygt pump no: 2004/2008/2012/2016/2050/2052/Ready 4/Ready 8/Ready 12/Ready 16**

TS05F



- TS05F seal instead of AES T05F seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation

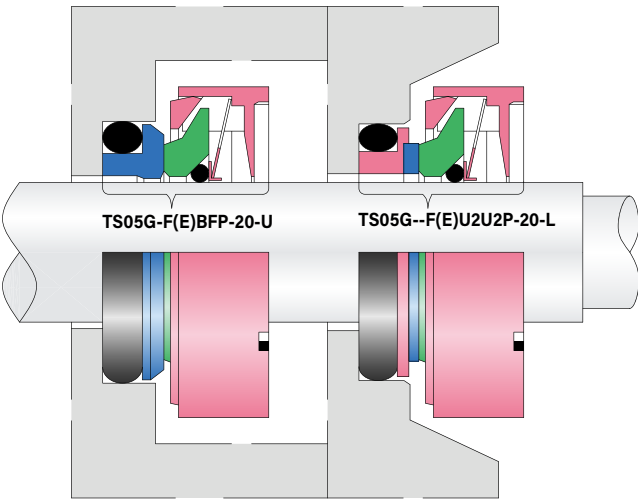
TS05F-F



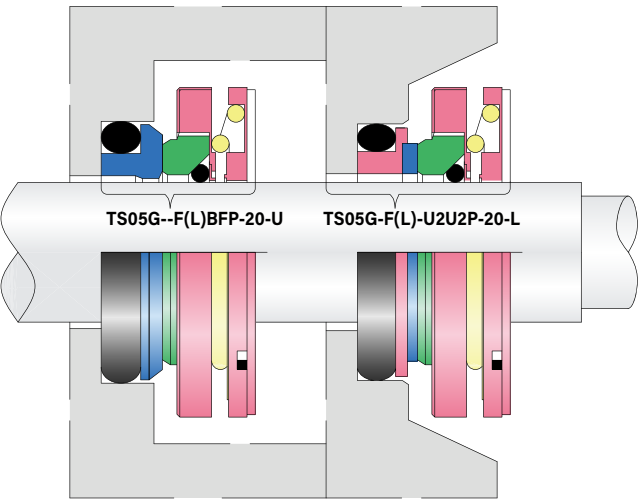
- TS05F-F seal instead of original Flygt seal used for Flygt pump no: 2040/2071/2102-210/2102-041/2102-220/Ready 40/Ready 56**
- Monolithic stationary faces
 - Supplied with removable setting clip



TS05G-F(E)

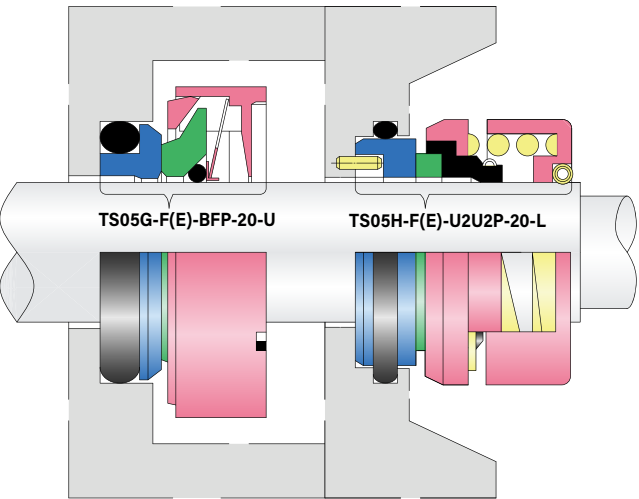


TS05G-F(L)

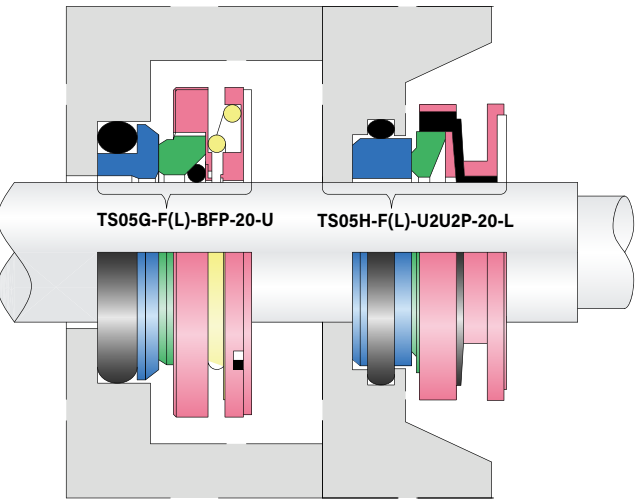


TS05G-F(E) seal and TS05G-F(L) seal instead of original Flygt seal used for Flygt pump no: 2060/3041-171/3041-180/3041-281/3057/3060/3066/3067-890/3067-690/3067-590/3067-250/3067-170/3067-090/3067-180/3068/3085-091/3085-092/3085-120/3085-170/3085-171/3085-172/3085-180/3085-181/3085-182/3085-890/3085-891/Steady 7

TS05GH-F(E)

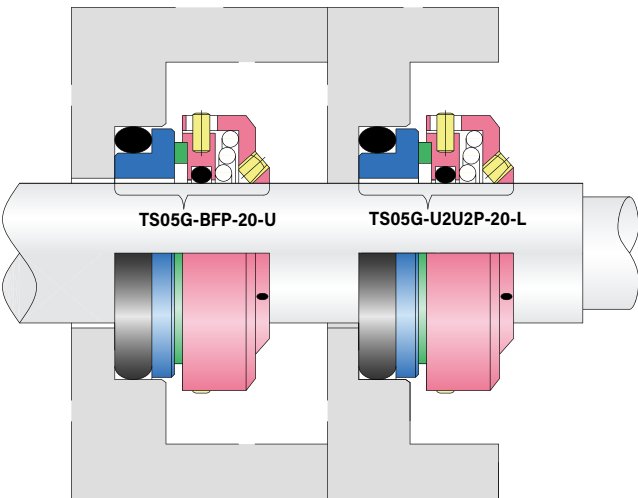


TS05GH-F(L)



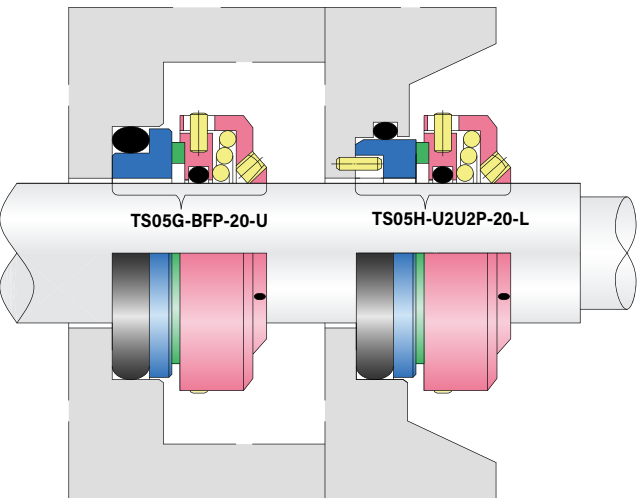
TS05GH-F(E) seal and TS05GH-F(L) seal instead of original Flygt seal used for Flygt pump no: 3041-171/3041-180/3057/3066/3067-890/3067-690/3067-590/3067-090/3067-180/3085-290/3085-280/3085-092/3085-120/3085-170/3085-171/3085-172/3085-180/3085-181/3085-182/3085-891/4351/4352/4400

TS05G



- TS05G seal instead of AES T05G seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Monolithic stationary faces
 - Supplied with removable setting clip
 - No special fitting tool required

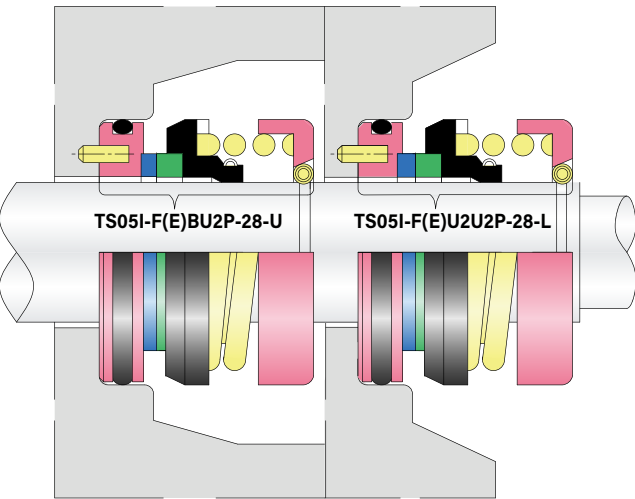
TS05GH



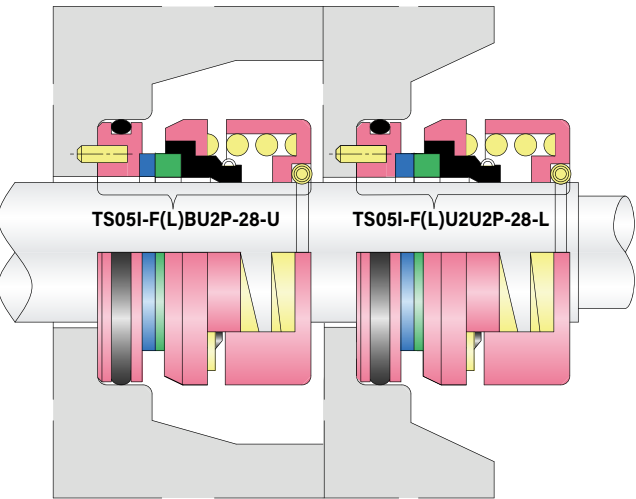
- TS05GH seal instead of AES T05GH seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Monolithic stationary faces
 - Supplied with removable setting clip
 - No special fitting tool required



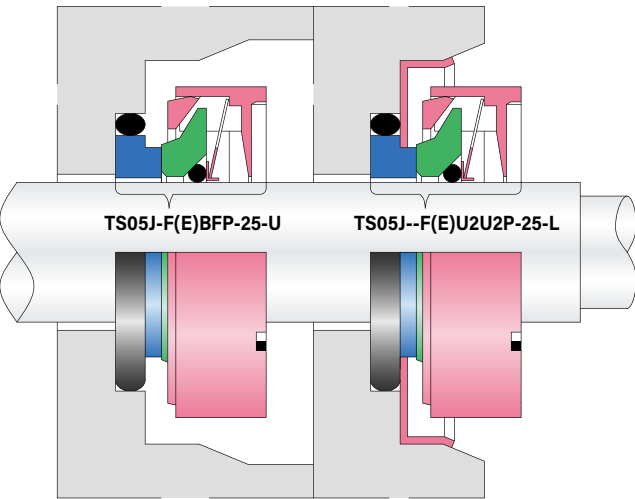
TS05I-F(E)



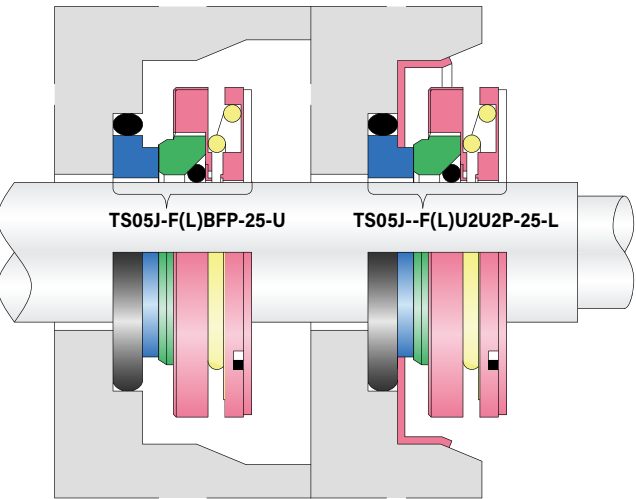
TS05I-F(L)



TS05J-F(E)



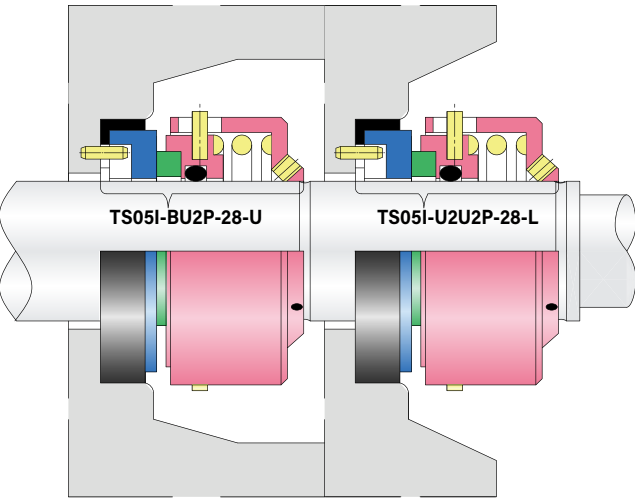
TS05J-F(L)



TS05I-F(E) seal and TS05I-F(L) seal instead of original Flygt seal used for Flygt pump no: 2082/2090/2125/2140/Ready 90

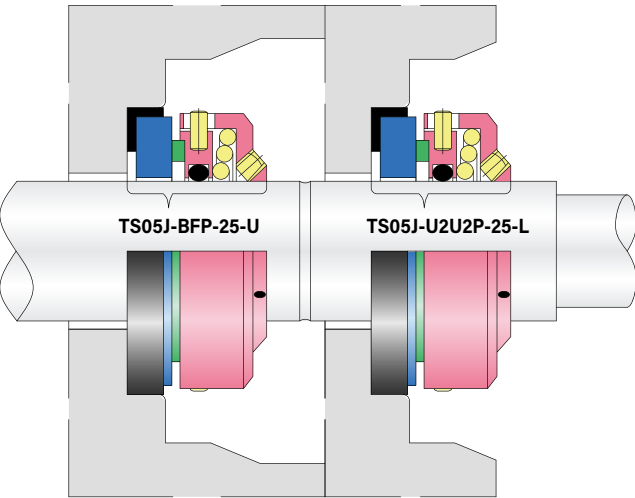
TS05J-F(E) seal and TS05J-F(L) seal instead of original Flygt seal used for Flygt pump no: 3102

TS05I



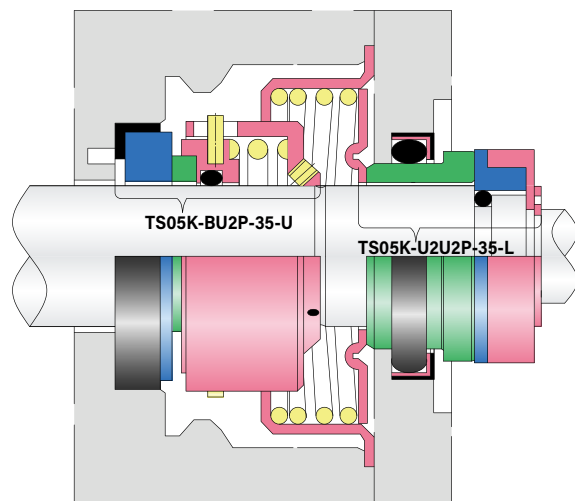
- TS05I seal instead of AES T05I seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation
 - Monolithic stationary faces
 - Boot mounted seats for improved sealing in worn or corroded housings
 - Supplied with removable setting clip

TS05J



- TS05J seal instead of AES T05J seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No plastic parts
 - Monolithic stationary faces
 - Boot mounted seats for improved sealing in worn or corroded housings
 - Supplied with removable setting clip
 - No special fitting tool required

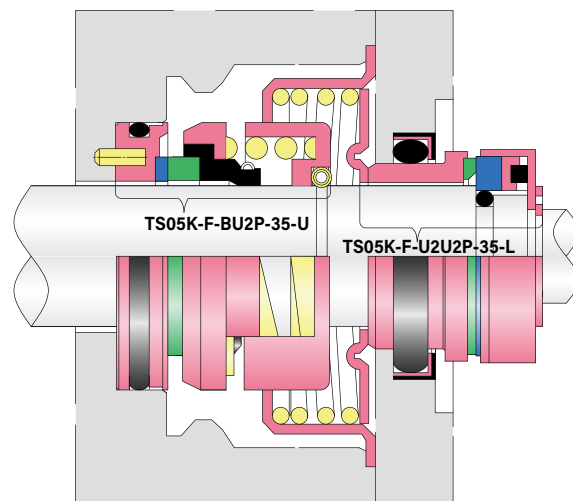
TS05K



TS05K seal instead of AES T05K seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Unitised rotary,no loose faces to fall out during installation
- Monolithic stationary faces

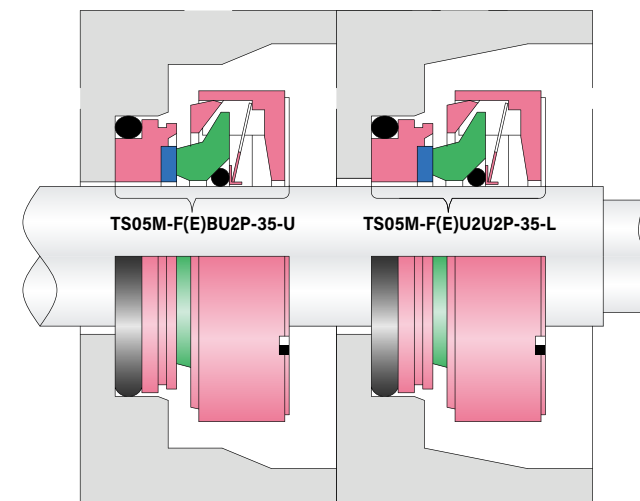
TS05K-F



TS05K-F seal instead of original Flygt seal used for Flygt pump no: 2151-010/3126-090/3126-180

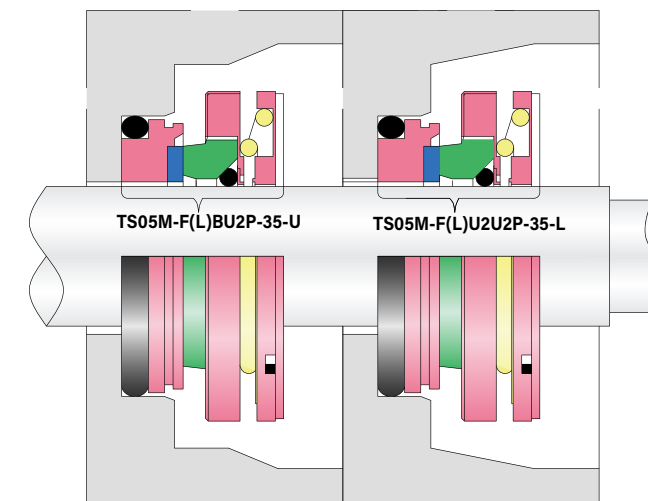
- Boot mounted seats for improved sealing in worn or corroded housings
- Stainless Steel metal parts
- No pressed steel parts
- Monolithic stationary faces

TS05M-F(E)

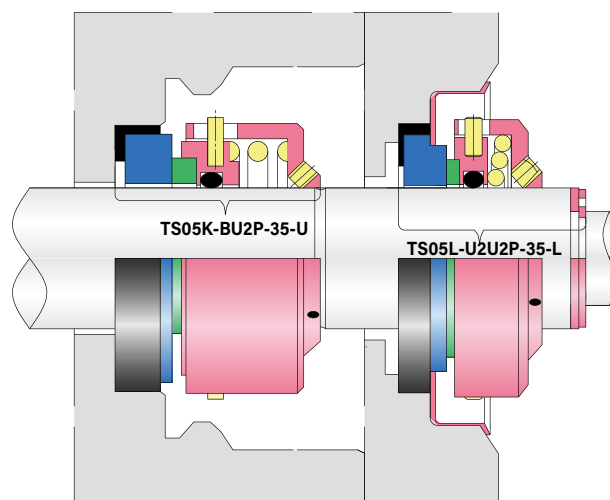


TS05M-F(E) seal and TS05M-F(L) seal instead of original Flygt seal used for Flygt pump no: 3126-181/3127/4440/5530

TS05M-F(L)



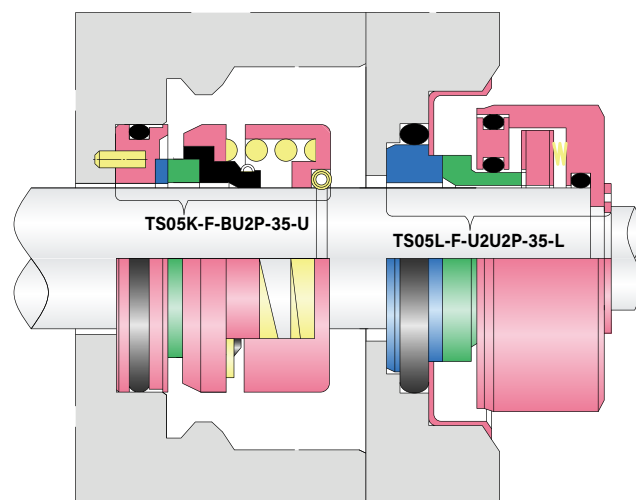
TS05KL



TS05KL seal instead of AES T05KL seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- Unitised rotary,no loose faces to fall out during installation
- No plastic parts
- Monolithic stationary faces

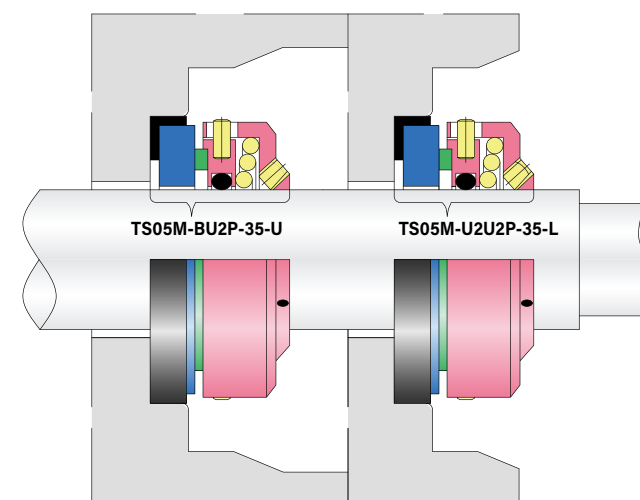
TS05KL-F



TS05KL-F seal instead of original Flygt seal used for Flygt pump no:2084/ 2135/2151-011/2151-050

- Boot mounted seats for improved sealing in worn or corroded housings
- Supplied with removable setting clip

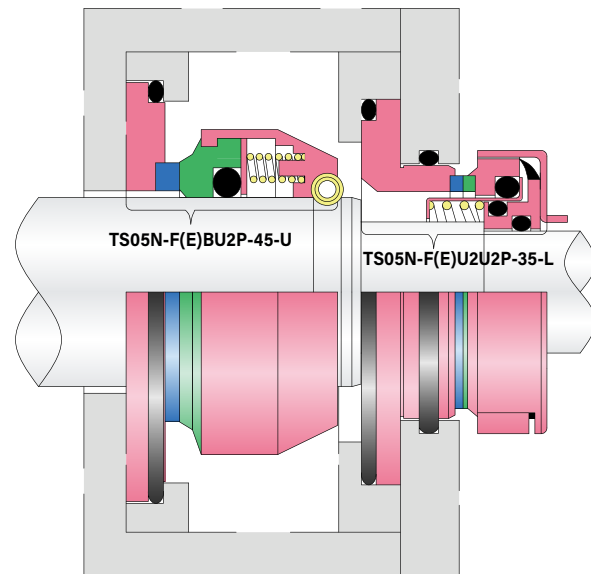
TS05M



TS05M seal instead of AES T05M seal

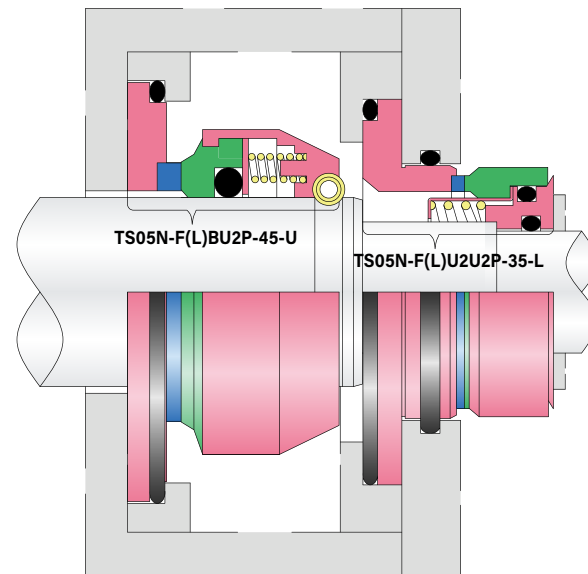
- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Monolithic stationary faces
- Boot mounted seats for improved sealing in worn or corroded housings
- Supplied with removable setting clip
- No special fitting tool required

TS05N-F(E)

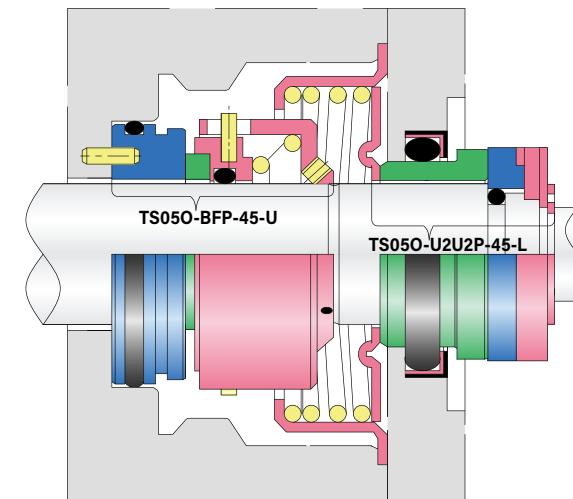


TS05N-F(E) seal and TS05N-F(L) seal instead of original Flygt seal used for Flygt pump no:2201-430/2201-320/2201-480/2201-590/2201-690

TS05N-F(L)



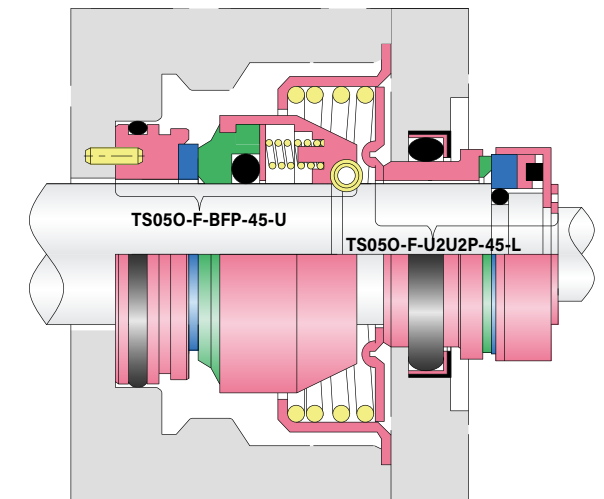
TS050



TS050 seal instead of AES T050 seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Monolithic stationary faces
- Supplied with removable setting clip

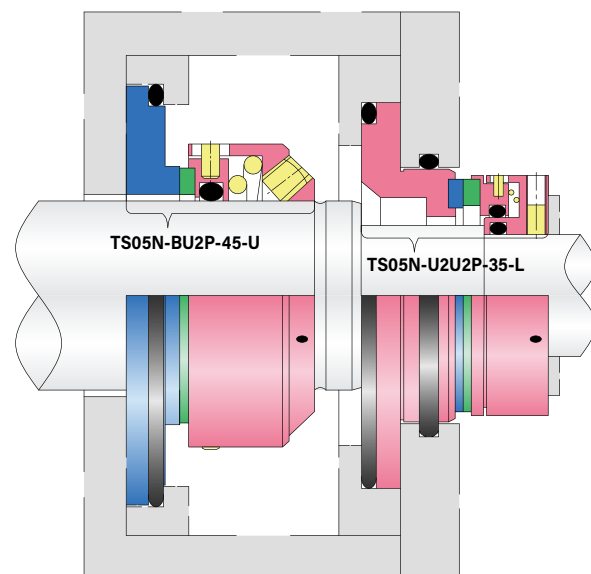
TS050-F



TS050-F seal instead of original Flygt seal used for Flygt pump no:2201-011 LT/3140/3152/4650/4660

- Unitised rotary, no loose faces to fall out during installation
- Stainless Steel metal parts
- No pressed steel parts
- Monolithic seal faces

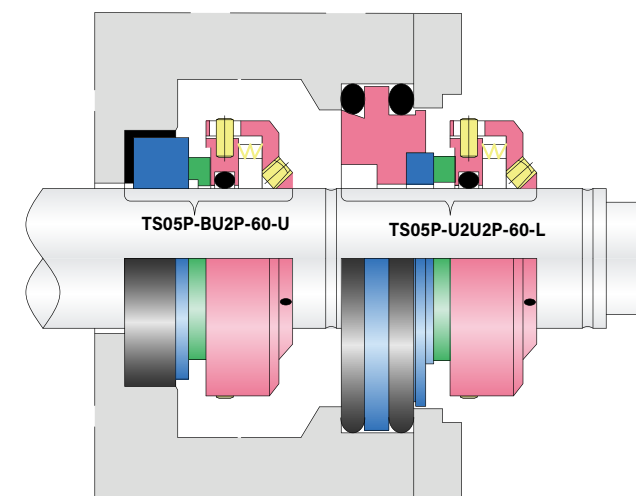
TS05N



TS05N seal instead of AES T05N seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No plastic parts
- Unitised rotary, no loose faces to fall out during installation
- Supplied with removable setting clip(Upper)

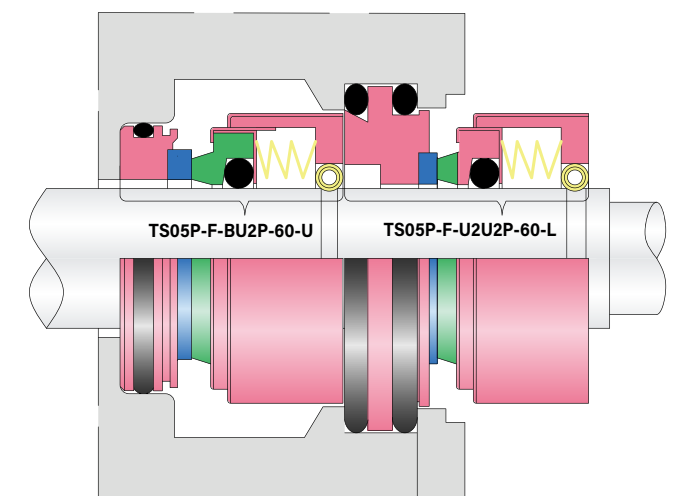
TS05P



TS05P seal instead of AES T05P seal

- Robust&compact rotary design
- Grub/set screwed(Allen Key included)
- Stainless Steel metal parts
- No pressed steel parts
- Monolithic stationary faces(Upper)

TS05P-F

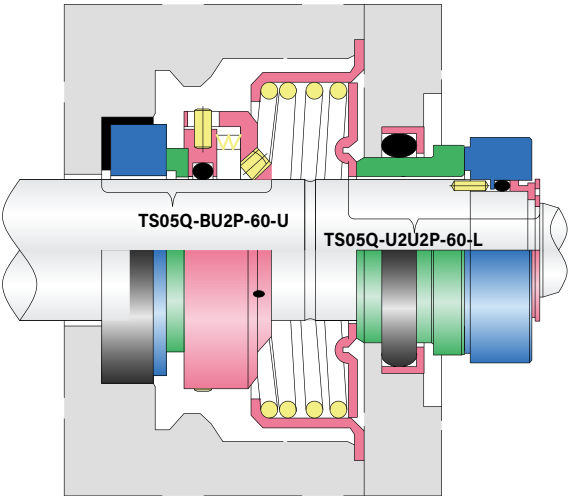


TS05P-F seal instead of original Flygt seal used for Flygt pump no:2250/2290/3200

- Boot mounted seats for improved sealing in worn or corroded housings(Upper)
- Supplied with removable setting clip

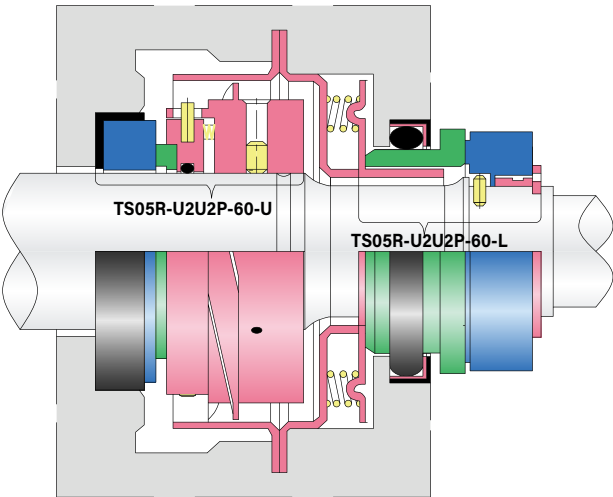


TS05Q



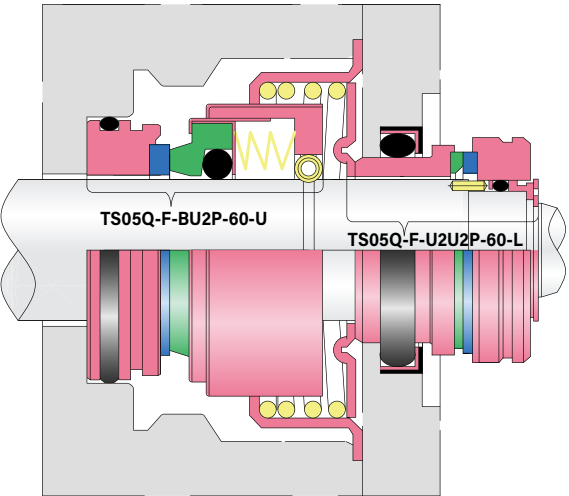
- TS05Q seal instead of AES T05Q seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No pressed steel parts
 - Monolithic stationary faces
 - Boot mounted seats for improved sealing in worn or corroded housings

TS05R



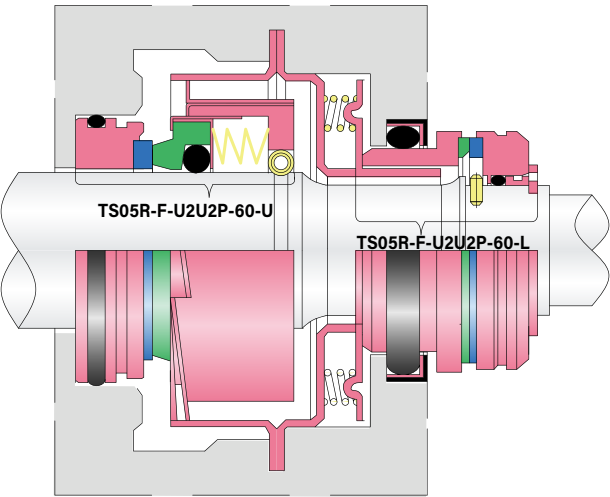
- TS05Rseal instead of AES T05R seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No pressed steel parts
 - Fully machined impeller
 - Monolithic stationary faces

TS05Q-F



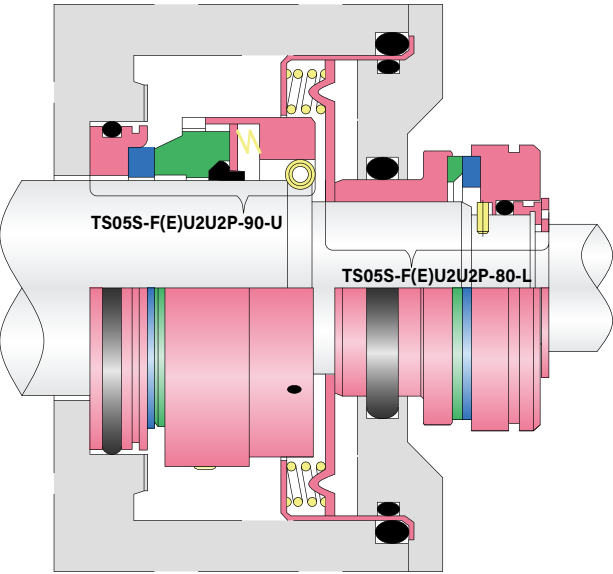
- TS05Q-F seal instead of original Flygt seal used for Flygt pump no:600/3170/3201/4670/4680/7045**
- Supplied with removable setting clip
 - Stainless Steel metal parts
 - Monolithic seal faces

TS05R-F



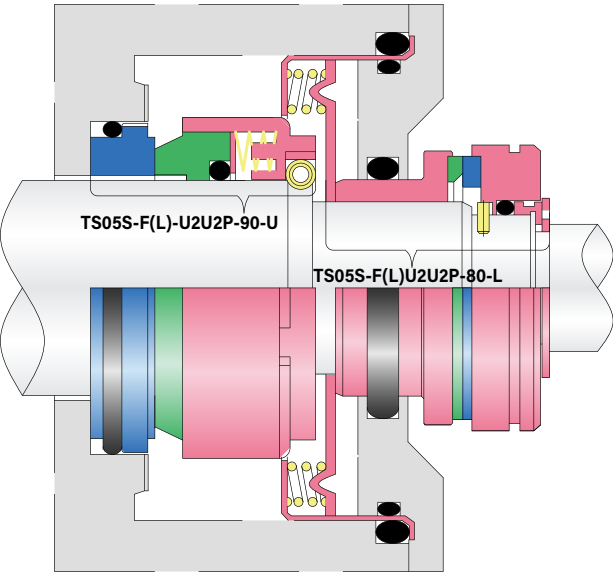
- TS05R-F seal instead of original Flygt seal used for Flygt pump no:2400**
- Boot mounted seats for improved sealing in worn or corroded housings
 - Supplied with removable setting clip
 - Stainless Steel metal parts
 - Monolithic seal faces

TS05S-F(E)

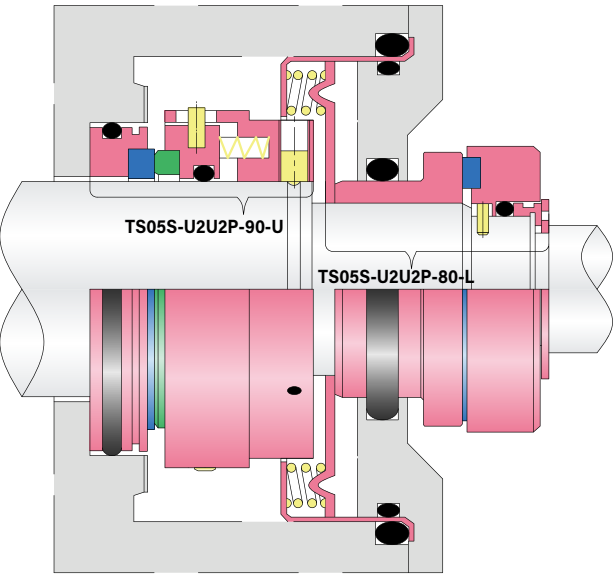


- TS05S-F(E) seal and TS05S-F(L) seal instead of original Flygt seal used for Flygt pump no:605/615/665/670/680/705/715/720/721/735/745/760/765/770/775/820/840/841/860/880/881/900/3230/3300-091/3300-181/3300-280/3300-980/3305/3355/3356/3357/7050/7051/7055/7060/7061/7076/70807556**

TS05S-F(L)



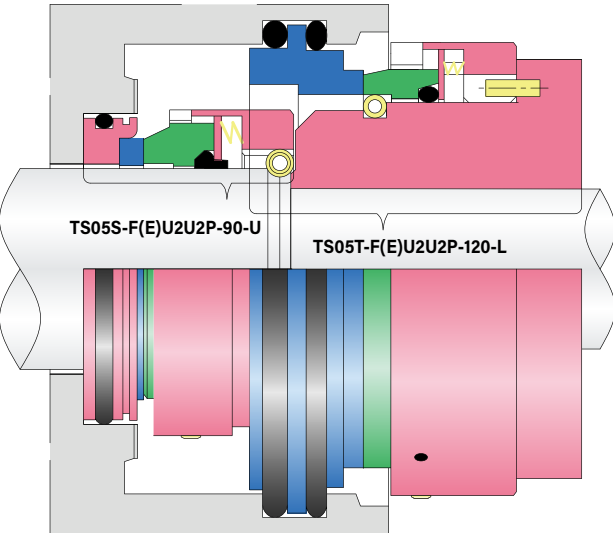
TS05S



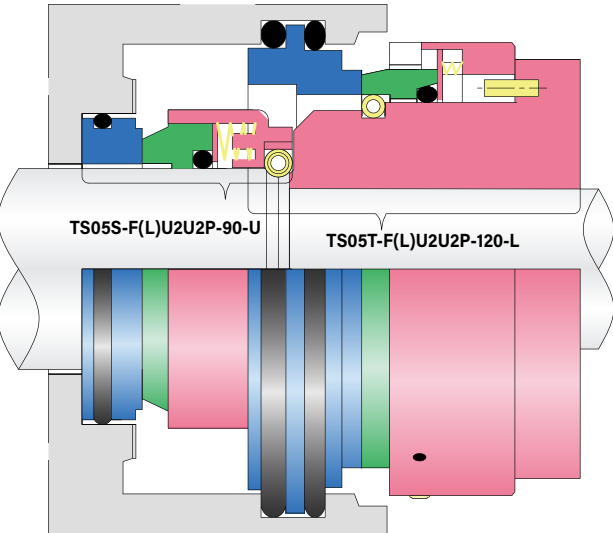
- TS05S seal instead of AES T05S seal**
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No pressed steel parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation
 - Monolithic stationary faces



TS05ST-F(E)

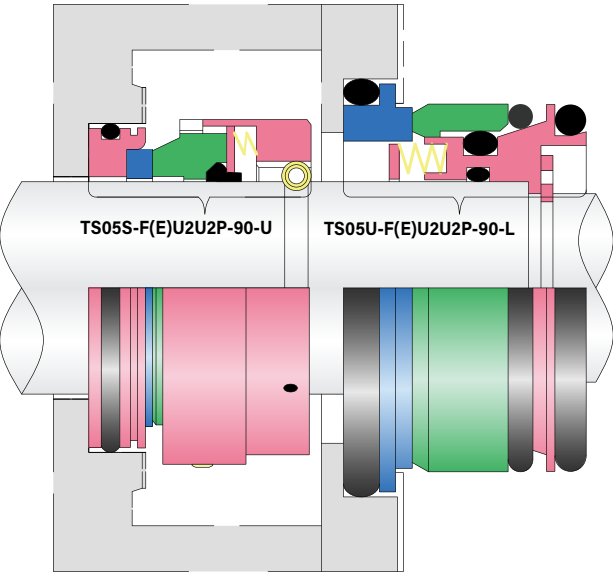


TS05ST-F(L)

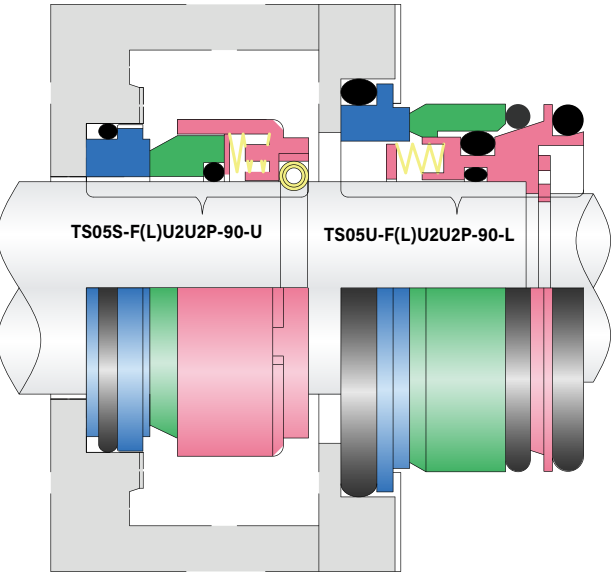


TS05ST-F(E) seal and TS05ST-F(L) seal instead of original Flygt seal used for Flygt pump no:705/715/720/721/735/745/760/765/770/775/820/840/841/860/880/881/900/3310/3311/3312/3350/3351/3500/3501/3530/3531/3600/3601/3602/7080/7115/7570/7585

TS05SU-F(E)

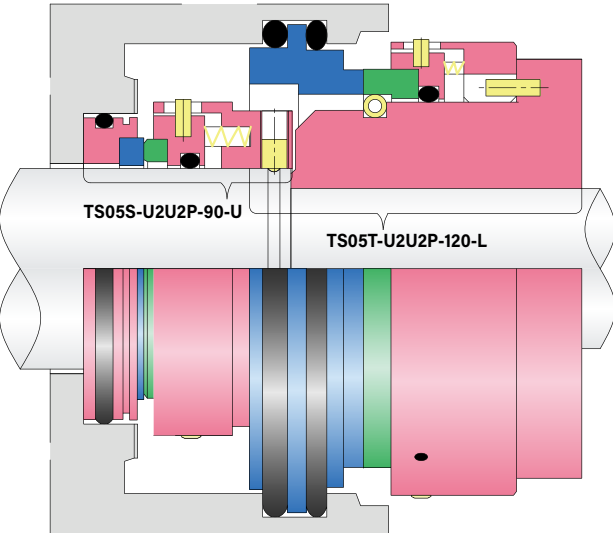


TS05SU-F(L)



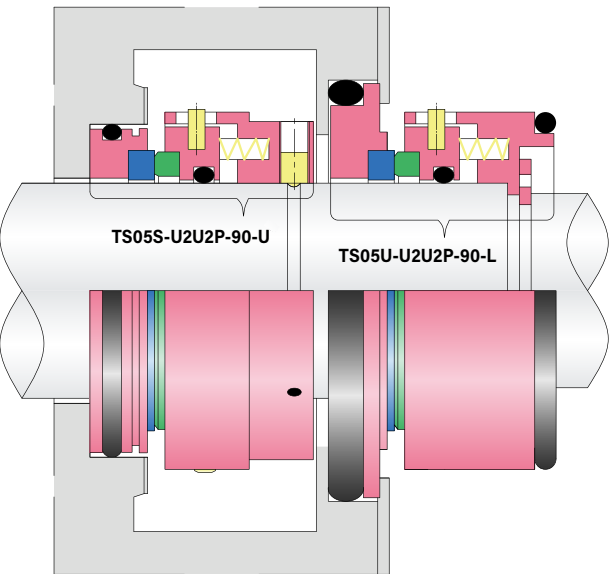
TS05SU-F(E) seal and TS05SU-F(L) seal instead of original Flygt seal used for Flygt pump no:705/715/720/721/735/745/760/765/770/775/820/840/841/860/880/881/900/3400/7081/7101

TS05ST



- TS05ST seal instead of AES T05ST seal
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No pressed steel parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation
 - Monolithic stationary faces

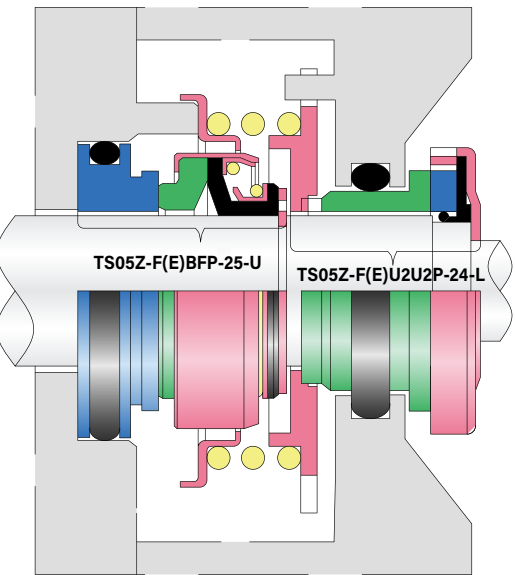
TS05SU



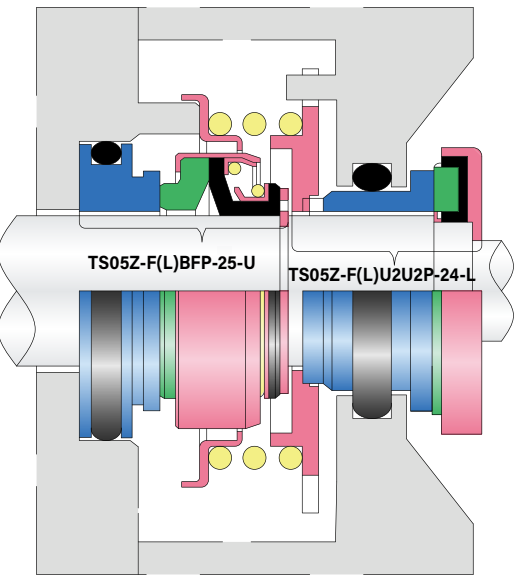
- TS05SU seal instead of AES T05SU seal
- Robust&compact rotary design
 - Grub/set screwed(Allen Key included)
 - Stainless Steel metal parts
 - No pressed steel parts
 - No plastic parts
 - Unitised rotary,no loose faces to fall out during installation



TS05Z-F(E)



TS05Z-F(L)

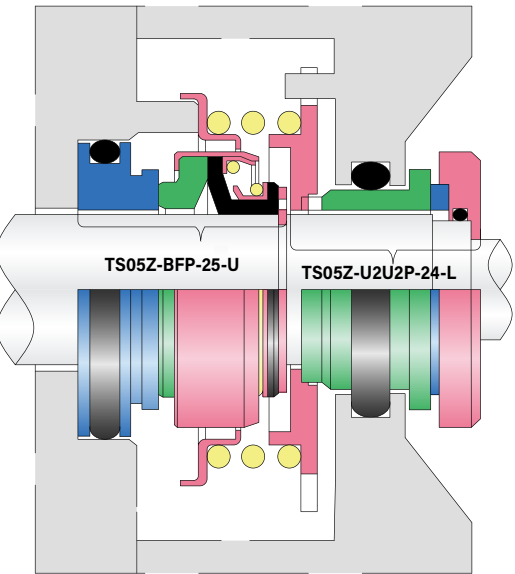


Flygt Plug-In Cartridge seal

TS CODE	AES CODE	Size	FLYGT PUMP CODE
TS05VC-020	N-T05VC-020	20MM	2610,2620,2630,2640,4610 & 4620
TS05VC-025	N-T05VC-025	25MM	4630&4640
TS05VC-035	N-T05VC-035	35MM	2670,3153,5100,,210, 5100.220
TS05VC-045	N-T05VC-045	45MM	3,137,465,046,605,100.00
TS05VC-060	N-T05VC-060	60MM	3202.4670,4680,5100.300,5150.300
TS05VC-090	N-T05VC-090	90MM	3301,5150.350 & 5150.360

TS05Z-F(E) seal and TS05SU-F(L) seal instead of original Flygt seal used for Flygt pump no:All other pumps

TS05Z



- TS05Z seal instead of AES T05Z seal
- Simple&compact rotary design
 - Stainless Steel metal parts
 - Monolithic stationary faces
 - Unitised rotary,no loose faces to fall out during installation

TS05VC-020



TS05VC-025



TS05VC-035



TS05VC-045



TS05VC-060



TS05VC-090





Tungsten Carbide



Tungsten Carbide is widely used as seal faces with resistan–wearing,high fractural Strength,high thermal conductivity, small heat expansion coefficient.It is the best material to resist heat and fracture in all hard face materials.

碳化钨的主要技术参数 / Main Tchnology Data of Tungsten Carbide(TC)

牌号 Brand No	YG6	YG8	YG15	YGN8
密度 Density	14.6–15.0	14.5–14.9	13.9–14.2	14.4–14.8
洛氏硬度 HRA	89.5	89	87	88
抗弯强度 Bending Stength	1421	1470	2058	1470
线胀性 Linear Expansivity(10–6/k(20C–500C)	5	5.1	6.3	5.3
介质 Medium	Resistant against:Oil, sewage water, weak acid/alkali ect.			Strong erosive medium

Ceramic



Ceramic seal faces have the property of the resistant–high–temperature, resistant–corrosion, resistand–wearing and good sealing and are wideky used in spacer craft, machinery, metallurgy, pringing and dyeing, food stuff, pharmaceutical, auto industry and so on.

陶瓷的主要寄出性能 / Main performance Index of Ceramic

Technical Parameter	Unit	95%	99%	99.50%
Content of Al2O3	%	≥ 95	≤ 99	≤ 99
Density	g/cm ³	3.7	3.88	3.9
Hardness	HRA	85	88	90
Porosity Rate	%	< 0.4	< 0.2	< 0.15
Fractural Strength	MPa	250	310	350
Coefficient of Heat Expansion	10–6/K	5.5	5.3	5.2
Therrmal Conductivity	W/M.K	27.8	26.7	26



Silicon Carbide



They have the property excellent resistant–corrosion,high mechanical strength, high thermal conductivity, good self–lubrication, used as seal faces, bearings and tubes in pacescraft, machinery, metallurgy, printing and dyeing. food stuff, auto industry industry, pharmaceutical 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 highext working requirements.

碳化硅的主要寄出性能 / Main performance Index of Silicon Carbide

Item	unit	Reaction Silicon CarbideSiC(反应碳化硅)	Sintered Silicon Carbide SSiC(无压碳化硅)
纯净度 Purity	%	≥ 90	≥ 98
密度 Density	g/cm ³	3.05	3.1
肖氏硬度 Shore Hardness	HS	110–125	120–130
弹性模量 Elastic Modulus	Mpa	4.12*105	4.12*105
抗拉强度 Tensile Strength	Mpa	2.75*102	2.8*102
抗弯强度 Bending Strength	Mpa	4.41*102	4.9*102
抗压强度 Compression Strength	Mpa	2.94*103	3.0*103
热导性 Thermal Conductivity	W/m.k	141 (W/m.k)	147 (W/m.k)
热膨胀系数 Coefficient of Tahermal Expansion	l/℃	4.3*10–6	4.0*10–6
抗热性 Heat Resistance	℃	1600℃	1650℃
热冲击系数 Thermal Impact Coefficient	cal/cm.sec	46.5	200
耐酸性 Acid Resistance		5 times higher than the usual TC	Resist chemical media

Carbon



Graphite had 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.

石墨性能表 / Carbon Performance Index

类型 Type	M106H	M120H	M106K	M120K	M106F	M120F	M106D	M120D	M254D
牌号 Brand	Impregnated Epoxy Resin(B1)		Impregnated Furan Resin(B)		Impregnated Phenol Aldehyde Resin(B2)		Antimony Carbon (A)		
Density (g/cm ³)	1.75	1.7	1.75	1.7	1.75	1.7	2.3	2.3	2.3
Fractural Strength (MPa)	65	60	67	62	60	55	65	60	55
Compressive Strength (MPa)	200	180	200	180	200	180	220	220	210
Hardness	85	80	90	85	85	80	90	90	65
Porosity	< 1	< 1	< 1	< 1	< 1	< 1	< 1.5	< 1.5	< 1.5
Temperatures (℃)	250	250	250	250	250	250	400	400	450

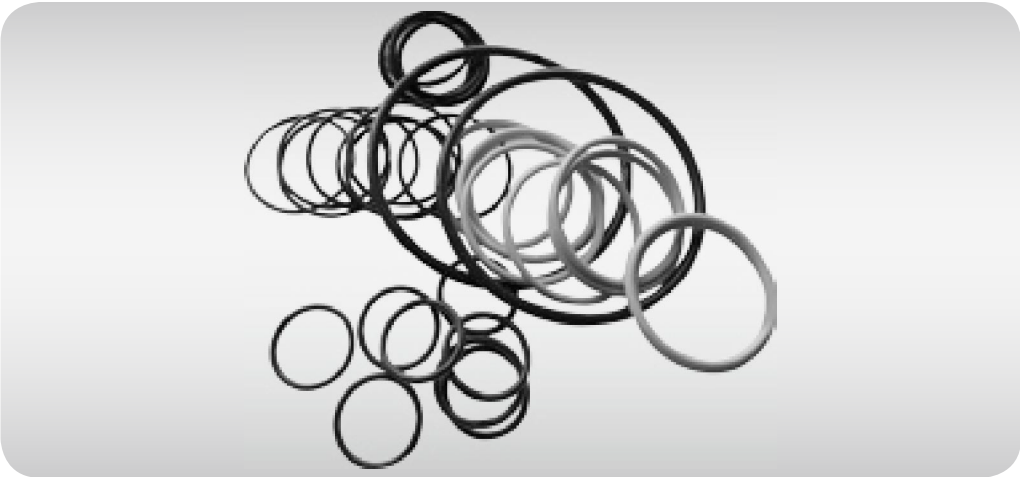
Rubber



橡胶种类特性 / Rubber Classification&Features

Rubber Variety	Main Feature and Suitable Scope
VITON	Resistant against: heat,oil,reagents,Suitable for high temperature and vacuum equipment. Application temperature: −30℃ ---+210℃
EPDM	Resistant against: chemical reagents,Suitable for hydraulic oil of orгнаic phosphate. Application temperature: −50℃ ---+150℃
NBR	Resistant against: oil,presure,abrasion.Hig elasticity and mechanical strength. Suitable for general hydraulic and pneumati seal;Unsuitable for working under sunlight and ultraviolet. Application temperature: −20℃ ----+120℃
SILICON RUBBER	Resistant against: hear,freeze,low mechanical strength,bad bending and abrasion.Suitable for fixed seal resistant to heat and freeze. Unsuitable for working under high mchanical strength. Application temperature: −80℃ ----+200℃
CR	Resistant against: oil,abrasion,efflorescence good bending.Especially suitable for pneuma machine and hydraulic fluid at high aniline po. Application temperature: −40℃ ----+120℃
HNBR	Resistant against: gasoline.Freon,oil,acid,zoone,alkali,heating and freeze. High mechanical stength high avrasion. Application temperature: −20℃ ----+180℃

Encapsulated Rings



Section

Solid Core

Hollow Core

Square

Rectangular

塑料 (FEP/PFA)

橡胶 (三元乙丙胶 / 氟胶 / 硅胶)

包覆橡胶圈 / Encapsulated Rings

Product Type
包 PTFE 的 O 型圈 /PTFE Encapsulated o-rings
包 FEP 的 O 型圈 /FEP encapsulated o-rings
包 PFA 的 O 型圈 /PFA Encapsulted O-rings
方形密封圈 /Square Cross -section Ring Seals
长方形密封圈 /Rectangular Cross-Section Ring Seals



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。

全氟醚橡胶 / FFKM

Dupont–Kalrez			
Property	Unit	Kalrez 6375	Kalrez 4079
Tensile Strength @ Break	Mpa	15.1	16.9
kgf/cm Modulous @100%	154Mpa	172 / 7.2	7.3
kgf/cm ²	73.4	74	/
Elongation percentage@Break	%	160	150
Hardness	HS	75	75
Heat Resistance Temperature	℃	275	316
70 hr in room temperature	/	/	22
70 ht ar 204℃	/	30	25

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

Installation Instructions

Preperation:

- 1. Shaft Outside Diameter is within tolerance +-0.05mm
- 2. Shaft run out <0.1mm
- 3. Shaf end float <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.If anything is damaged,please contact with our local agents to replace a new one.

Installation in strucstions:

- 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 dl h6 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 01–0.2 mm smaller,resisting the screw over–tighten.Lubricate the shaft with oil.
- 3. Place the cartridge seal into the pump chamber,then:
 - A: Tighter four screw bolts of flanges,ensuring the medium leading in hole"G"at the top Position.
 - B : Tighter 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 had been improperly installed.