



SEALS CATALOG



AG PRODUTOS E SERVIÇOS INDUSTRIAIS LTDA

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Installation Instructions

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 $d1h6 \nabla 0.8$, 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.

Seal Materials

Al₂O₃ Ceramic Physical Property

Technical Parameter	單位 Unit	95%	99%	99.5%
Content Of Al ₂ O ₃	%	95	99	99.5
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
Thermal Conductivity	W/M.K	27.8	26.7	26

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.

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.

TC physical property

Technical Parameter	單位	YWN6	YWN8	YG6	YG8	DYNT60
Composition	WC	%	94	92	94	92
	NI	%	6	8		
	Co	%			6	8
Density	g/cm ³	14.5-14.9	14.4-14.8	14.6-15	14.5-14.9	6.5-6.8
Hardness	HRA	88.5	88	89.5	89	90
Fractural Strength	MPa	1490	1470	1421	1470	1480
Heat Expansion Co-efficient	10 ⁻⁶ /K	5.2	5.3	5	5.1	7.5

Graphite chemical property								
Category		Model	Density(g/cm)	Fractural Strength(MPa)	Compressive Strength(MPa)	Shaw Hardness(HS)	Porosity(%)	Temperature(°C)
M120H	1.7	60	180	80	<1	250		
M106K	1.75	67	200	90	<1	250		
Impregnated Furan Resin(K)	M120K	1.7	62	180	85	<1	250	
	M106F	1.75	60	200	85	<1	250	
Impregnated Phenol Aldehyde Resin(F)	M120F	1.7	55	180	80	<1	250	
	M106D	2.3	65	220	90	<1.5	400	
Antimony Carbon(D)	M120D	2.3	60	220	90	<1.5	400	
	M254D	2.3	55	210	65	<1.5	450	

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.

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.

Sic Physical Property			
Technical Parameter	Unit	Sic	Ssic
Hardness	HS	110	115
Porosity Rate	%	<0.3	<0.2
Density	g/cm ³	3.00-3.05	>3.1
Compressive Strength	MPa	> 2200	> 2500
Fractural Strength	MPa	>350	>380
Coefficient Of Heat Expansion	10 ⁻⁶ /°C	4	4.2
Content of Sic	%	≥90	≥98
Content of Free Silicone	%	≤ 10	≤ 1
Elastic Modulus	GPa	≥400	≥410
Temperature	°C	1300	1400

Seal Materials



NBR	Resistant to oil, pressure and wear, good elasticity and mechanical strength; applicable to the mediums including water, oil, alcohol, etc from -20°C to 100°C
EPDM	Resistant to high or low temperatures, ozone and chemicals; applicable to weak acids with temperatures from -35°C to 150°C
Viton	Resistant to heat, oil, medicine and chemical reagents, acid and alkali with medium corrosive degrees; applicable to the corrosive mediums from -20°C to 180°C
Silica Gel	Resistant to ozone, aging, acetic acid, ammonia and alcohol; applicable to alcohol, alkali, etc from -50°C to 210°C
Chlorinated Rubber	Resistant to Freon, petroleum; applicable to inorganic acid, alkali, running from -30°C to 130°C

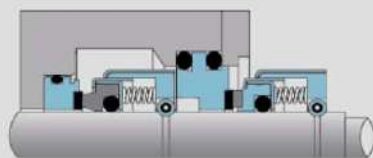
Seal Materials



CFSEALS FLYGT PUMP SEAL COMPARISON CHART

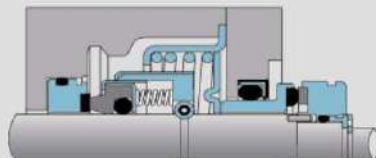
Flygt Pump Model	Shaft Size	WYS Upper Seal	WYS Lower Seal
3085-091, 3085-120, 3085-170, 3085-171, 3085-181, 3085-280, 3082-290, 3085-890	20mm	FS-G-U20	FS-G-L20 or FS-H-L20
3101	28mm	FS-B-U28	FS-B-L28
3102	25mm	FS-J-U25	FS-J-L25
3126-90, 3126-180	35mm	FS-K-U35	FS-K-L35
3126-91, 3126-280, 3126-290	35mm	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, 3300-950, 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 & 12 & 16	15mm	FS-D-U15	/
Ready 24	20mm	FS-A-U20	FS-A-L20
Ready 90	28mm	FS-I-U28	FS-I-L28
Steady 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-P-U60&FS-P-L60



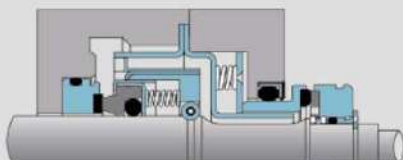
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FS-Q-U60&FS-Q-L-60



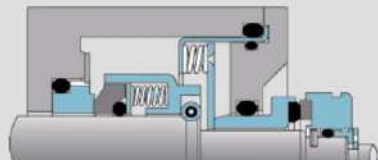
(600/3170/3201/4670/4680/7045)

FS-R-U60&FS-R-L60



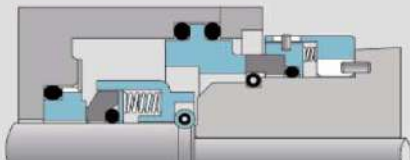
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FS-S-U90&FS-S-L-80



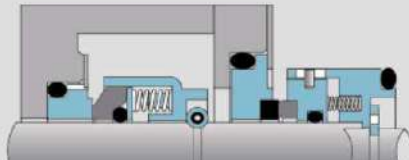
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3355/3356/3357/7050/7051/7066/7060/7061/7076/7080/7556)

FS-S-U90&FS-T-L120



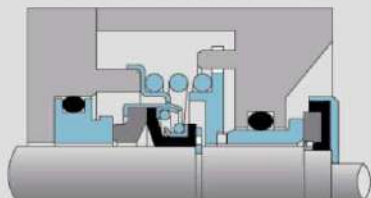
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3311/3312/3350/3351/3500/3501/3530/3531/3600/3601/3602/7080/7115/7570/7585)

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



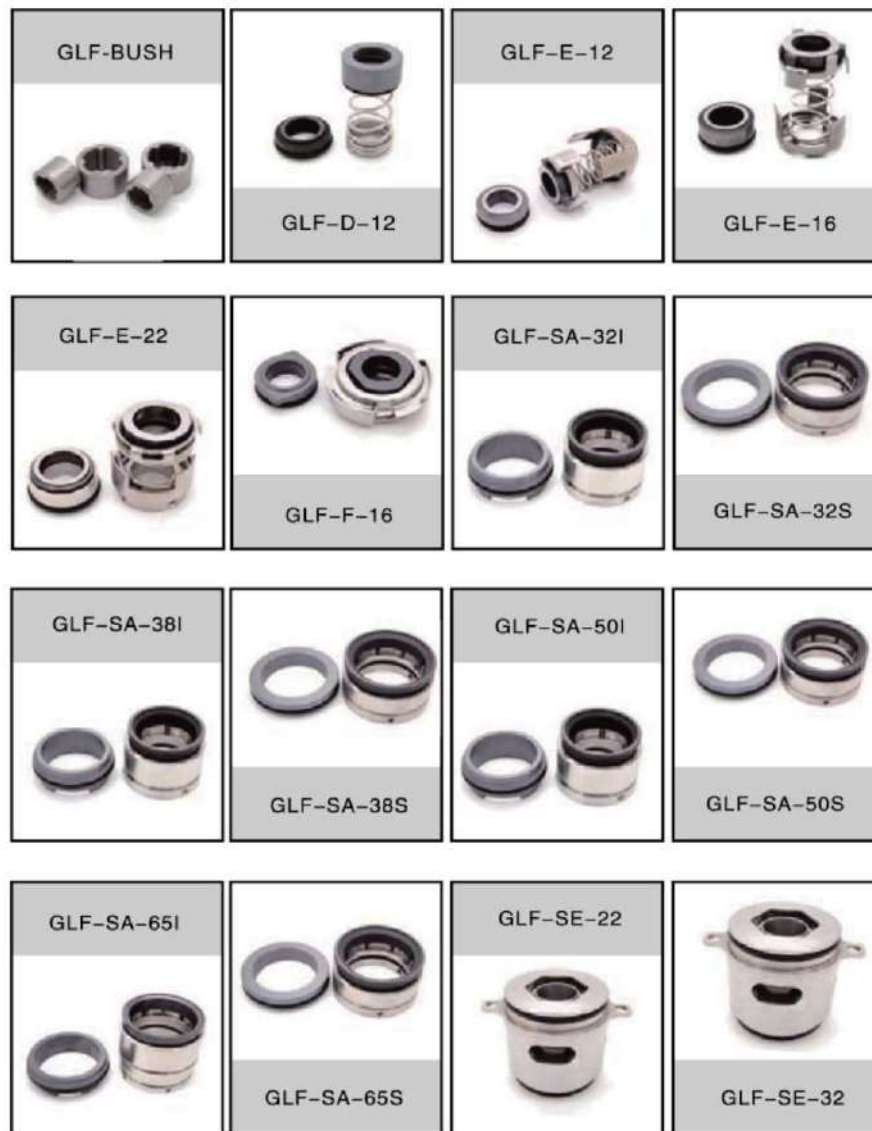
(Grindex Maior, Master, Matador, Midi, Minette, Salvador)

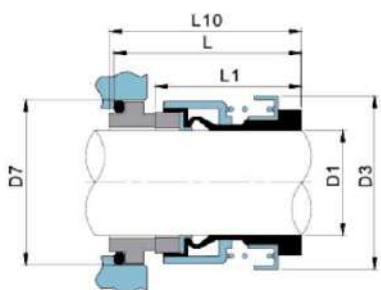


Xylem Flygt Pumps	Shaft Size	Seal Code
2610, 2620, 2630, 2640, 4610&4620	20mm	FS20
2660, 4630&4640	25mm	FS25
2670, 3153, 5100.210, 5100.211, 5100.220&5100.221	35mm	FS35
3171, 4650, 4660, 5100.250, 5100.251, 5100.260&5100.261	45mm	FS45
3202, 4670, 4680, 5100.300, 5100.310, 5150.300&5150.310	60mm	FS60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

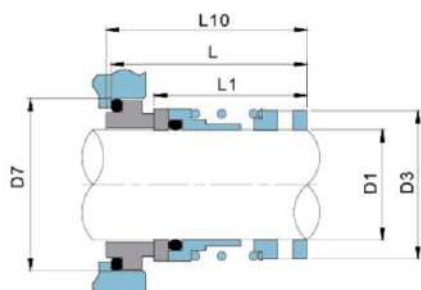


Xylem Flygt Pumps	Shaft Size	Seal Code
2610, 2620, 2630, 2640, 4610&4620	20mm	FSVC20
2660, 4630&4640	25mm	FSVC25
2670, 3153, 5100.210, 5100.211, 5100.220&5100.221	35mm	FSVC35
3171, 4650, 4660, 5100.250, 5100.251, 5100.260&5100.261	45mm	FSVC45
3202, 4670, 4680, 5100.300, 5100.310, 5150.300&5150.310	60mm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





GLF-A



GLF-B

Working Conditions

Temperature: -30°C to 200°C
 Pressure: ≤ 1.2MPa
 Speed: ≤ 10m/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

Working Conditions

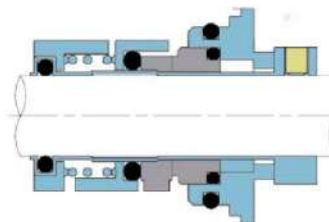
Temperature: -30°C to 200°C
 Pressure: ≤ 1.2MPa
 Speed: ≤ 10m/s

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

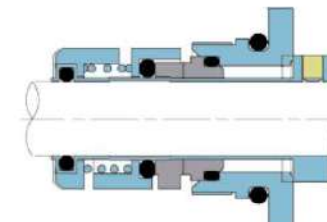
It is suitable to Grundfos Pumps:

- 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



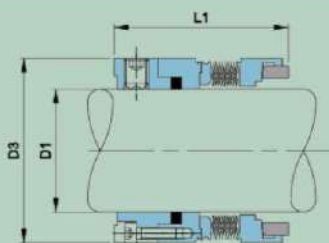
GLF-C-12/16





CF 609

Size/inch D1	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

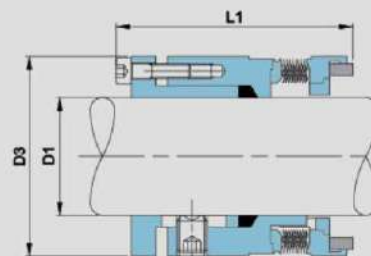


Working Conditions

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

Materials

Stationary Ring: Sic/TC
 Rotary Ring : Carbon/Sic/TC
 Secondary Seal: Graphite
 Spring and Metal Part: Stainless Steel

Size/inch D1	Size Code	D3	L1
0.750	0191	41.28	58.72
0.875	0222	44.45	59.51
1.000	0254	47.63	59.51
1.125	0286	50.80	60.33
1.250	0317	53.98	60.33
1.375	0349	57.15	62.89
1.500	0381	60.33	63.50
1.625	0412	63.50	63.50
1.750	0444	66.68	64.29
1.875	0476	69.85	64.29
2.000	0508	73.03	65.07
2.125	0539	76.20	65.07
2.250	0571	82.55	69.85
2.375	0603	85.73	70.64
2.500	0635	88.90	70.64
2.625	0666	93.65	73.03
2.750	0698	96.82	76.20
2.875	0730	101.60	76.20
3.000	0762	104.78	76.20
3.125	0794	107.95	76.20
3.250	0826	111.13	76.20
3.375	0857	114.30	76.20
3.500	0889	117.48	76.20
3.625	0921	120.65	76.20
3.750	0953	123.83	76.20

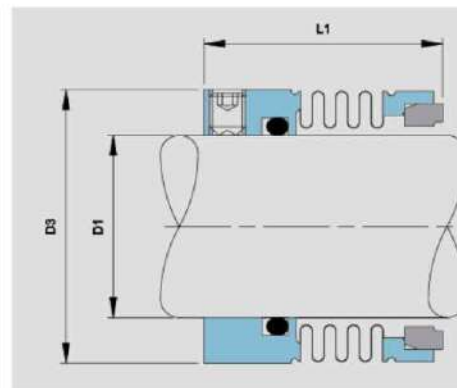


CF 606



CF 85N

Metric Shaft Size D1	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
50A	050A	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



Metric Shaft Size D1	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: ≤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



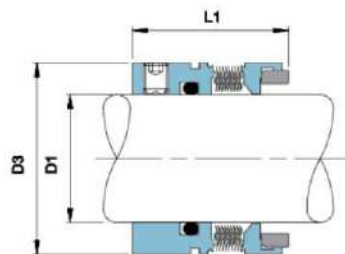
CF 515



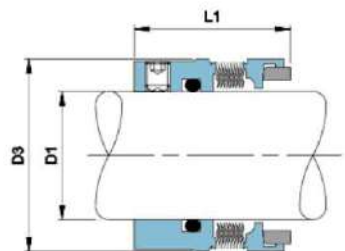
Working Conditions
 Mediums: Oil, light hydrocarbon, aromatic hydrocarbon, organic solvents, weak acids, alkali, Ammonia, etc.
 Temperature: 20°C to 200°C
 Pressure: ≤2.0MPa
 Speed: ≤23m/s

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

Size/Metric D1	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



CF 680



CF 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

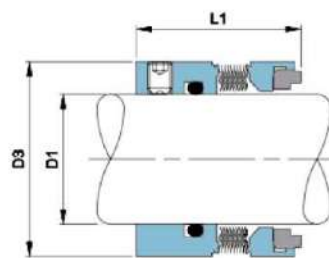
Rotary Ring: Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CF 680



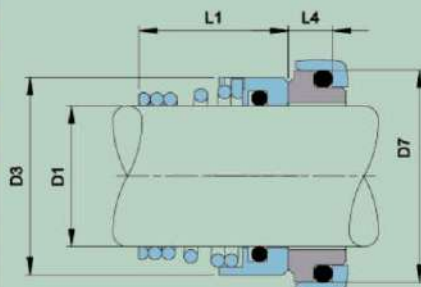
CF 676

Size/inch D1	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



CF 12

Metric Shaft Size D1	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: ≤ 1.6MPa

Speed: ≤ 15m/s

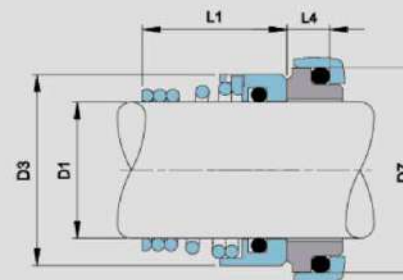
Materials

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: ≤ 1.6MPa

Speed: ≤ 15m/s

Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring : Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



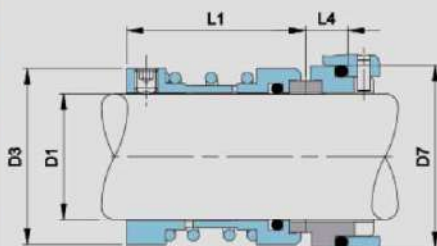
CF 12D

Metric Shaft Size D1	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



CF 250

Metric Shaft Size D1	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: ≤ 1.2MPa

Speed: ≤ 15m/s

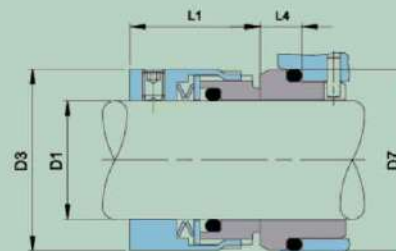
Materials

Stationary Ring: Carbon/Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CFM7N(wave spring)

Working Conditions

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

Temperature: -30°C to 200°C

Pressure: ≤ 1.2MPa

Speed: ≤ 18m/s

Materials

Stationary Ring: Carbon/Sic/TC

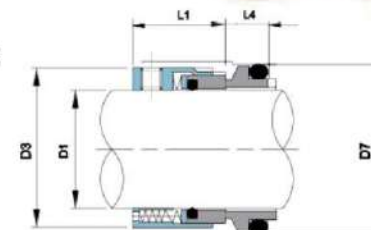
Rotary Ring : Carbon/Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

Metric Shaft Size D1	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

CFM7N CFM74



CFM74(multiple spring)

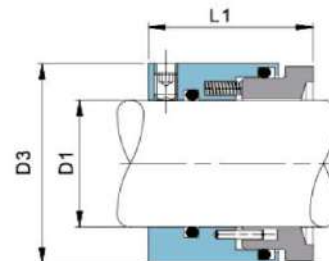
Metric Shaft Size D1	Size Code	D2	D3	D7	L1	L4	L3
14	0140	18	33.0	25.0	32.5	10.00	8.0
16	0160	20	35.0	27.0	32.5	10.00	8.0
18	0180	22	37.0	33.0	33.5	11.50	8.5
20	0200	24	39.0	35.0	33.5	11.50	8.5
22	0220	26	40.0	37.0	33.5	11.50	8.5
24	0240	28	43.0	37.0	36.0	11.50	8.5
25	0250	30	45.0	40.0	36.0	11.50	8.5
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



CFH7N CFH75

Inch Shaft D1	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

Metric Shaft Size D1	Size Code	D3	L1
20	0200	34.3	35.00
22	0220	36.3	35.00
24	0240	38.3	35.00
25	0250	39.3	35.00
28	0280	42.3	35.00
30	0300	44.3	35.00
32	0320	46.3	44.45
33	0330	47.9	44.45
35	0350	49.5	44.45
38	0380	54.3	44.45
40	0400	56.1	44.45
43	0430	59.0	44.45
45	0450	61.1	44.45
48	0480	64.1	44.45
50	0500	66.1	44.45
55	0550	71.1	44.45
60	0600	77.1	44.45
65	0650	83.0	44.45
70	0700	86.1	44.45
75	0750	98.4	50.80
80	0800	104.8	50.80
85	0850	108.0	50.80
90	0900	114.3	50.80
95	0950	117.5	50.80
100	1000	123.8	50.80



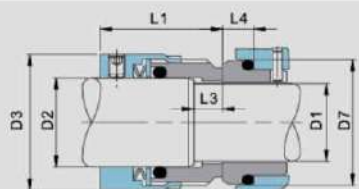
Working Conditions

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

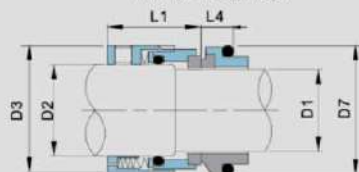
Materials
 Stationary Ring: Ceramic/Sic/TC
 Rotary Ring: Carbon/Sic/TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



CF 891



H7N(wave spring)



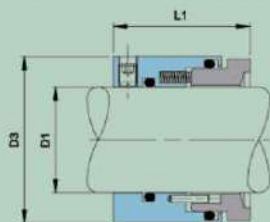
H75(multiple spring)

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

Metric Shaft D1	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

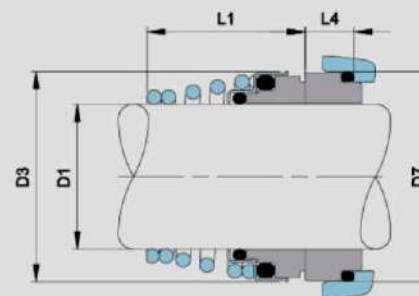


Working Conditions
 Mediums: Grain and high viscosity mediums, especially used in the sugar, pulp industry, and sewage disposal, etc.
 Temperature: -20°C to 180°C
 Pressure: ≤ 1.6MPa
 Speed: ≤ 15m/s

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



CF 491



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



CF 155 CF 155B

Metric Size D1	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

Metric Size D1	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

CFW01



Working Conditions

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

Temperature: -20°C to 180°C

Pressure: ≤ 0.8MPa

Speed: ≤ 15m/s

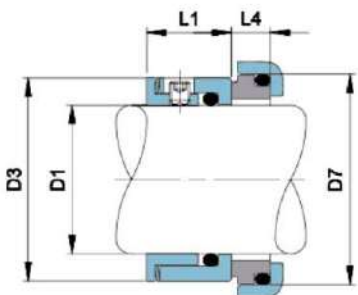
Materials

Stationary Ring: Carbon/Sic/TC

Rotary Ring: Sic/TC/SUS304

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



Metric Shaft D1	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



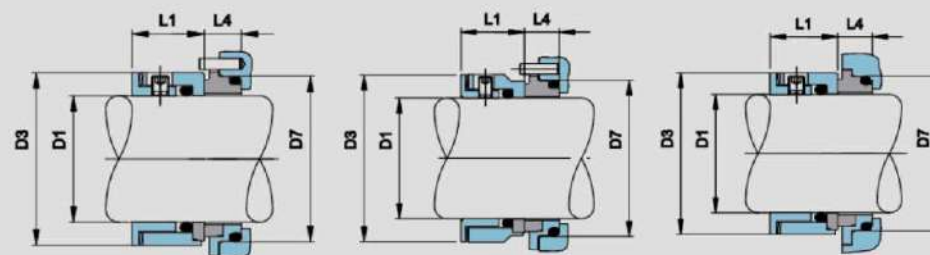
CFW03



CFW03S



CFW04



Seals to suit Alfa Laval SSP SR range CFW03

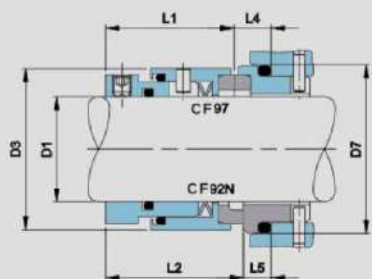
Pump Ref:	Metric Shaft D1	Size Code	D3	D7	L1	L4
SR1	20.0	0200	31.0	30.0	19.1	10.7
SR2	30.0	0300	41.0	41.3	19.1	10.9
SR3	35.0	0350	45.5	47.0	19.1	12.2
SR4	45.0	0450	58.2	58.3	21.1	11.6
SR5	55.0	0550	72.0	69.6	22.1	13.0
SR6	75.0	0750	96.0	92.2	25.8	14.5

Seals to suit Alfa Laval SSP SR Range CFW03S

Pump Ref:	Metric Shaft D1	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 CFW04

Pump Ref:	Metric Shaft D1	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



CF92N, CF97N

Working Conditions

Mediums: Paper, sugar and sewage disposal etc.
 Temperature: -20°C to 200°C
 Pressure: ≤ 2.5MPa
 Speed: ≤ 15m/s

Materials

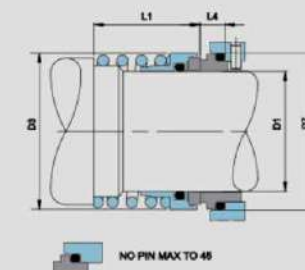
Stationary Ring: Ceramic / Sic / TC
 Rotary Ring: Carbon / Sic / TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



CF 92N&CF 97

Metric Shaft Size D1	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

Metric Shaft Size D1	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



NO PIN MAX TO 45

Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.
 Temperature: -20°C to 200°C
 Pressure: ≤ 1MPa
 Speed: ≤ 20m/s

Materials

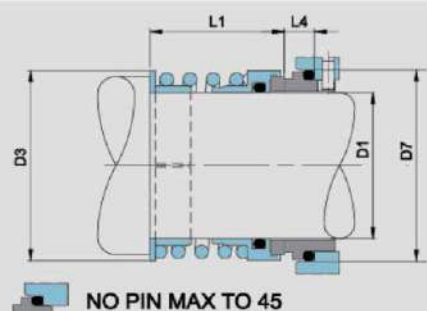
Stationary Ring: Carbon/Sic/TC
 Rotary Ring: Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



CF 95



CF 96



Metric Shaft Size D1	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

Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.
 Temperature: -20°C to 200°C
 Pressure: ≤ 1MPa
 Speed: ≤ 20m/s

Materials

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

Metric Shaft Size D1	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	56.5	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

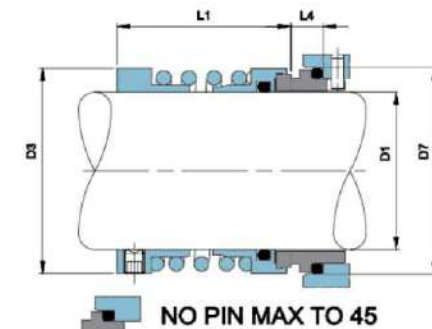
Inch Shaft Size D1	Size Code	D3	D7	L1	L4
0.625	0158	29.00	28.57	32.5	9.0
0.750	0191	32.50	31.75	32.5	9.0
0.875	0222	34.93	34.93	35.3	9.2
1.000	0254	38.10	39.85	39.0	10.0
1.125	0285	42.86	43.05	41.0	10.0
1.250	0317	46.00	46.32	44.0	10.0
1.375	0349	49.21	49.48	47.0	10.0
1.500	0381	52.39	52.56	47.0	10.0
1.625	0412	55.50	55.83	47.0	10.0
1.750	0444	58.74	59.02	47.0	10.0
1.875	0475	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: ≤ 1MPa
 Speed: ≤ 20m/s

Materials

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

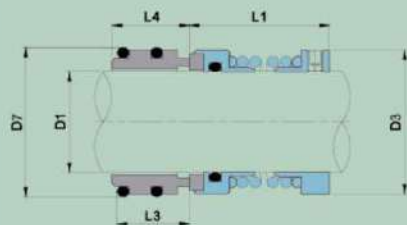


CF 97



CF 98

Metric Shaft Size D1	Size Code	D3	D7	L1	L3	L4
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



98

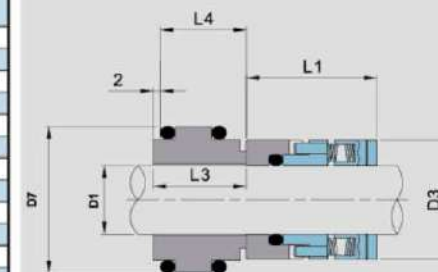
Working Conditions

Mediums: Water, oil, acids, alkali with low corrosion etc.
 Temperature: -20°C to 200°C
 Pressure: ≤ 1MPa
 Speed: ≤ 20m/s

Materials

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

Metric Shaft Size D1	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



Working Conditions

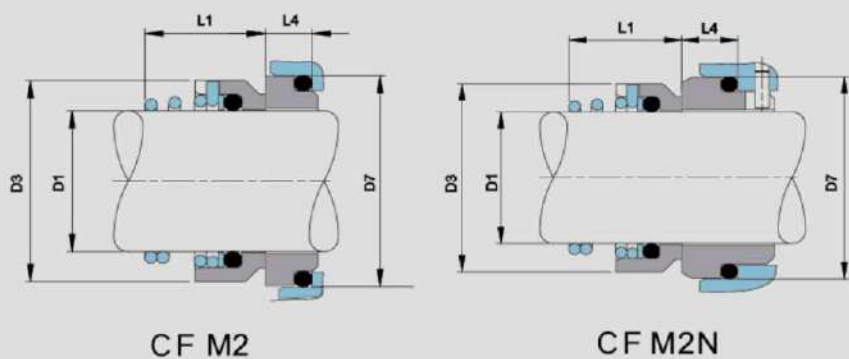
Mediums: Water, oil, acids, alkali with low corrosion etc.
 Temperature: -20°C to 180°C
 Pressure: ≤ 1MPa
 Speed: ≤ 20m/s

Materials

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



CFRO



Working Conditions

Mediums: Water, oil, weak acids, weak alkali, etc.
 Temperature: -20°C to 180°C
 Pressure: ≤ 1MPa
 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



CF M2 CFM2N

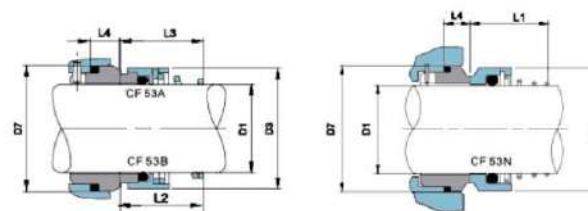
CFM2 size chart

Metric Shaft Size D1	Size Code	D3	D7	L1	L4
10.0	0100	20.0	19.2	15.9	6.6
12.0	0120	22.0	21.6	16.0	5.6
14.0	0140	25.0	24.6	16.0	5.6
15.0	0150	27.0	24.6	17.4	6.6
16.0	0160	27.0	28.0	19.0	7.5
18.0	0180	30.0	30.0	20.5	8.0
20.0	0200	32.0	35.0	22.0	7.5
22.0	0220	35.0	35.0	23.5	7.5
24.0	0240	38.0	38.0	25.0	7.5
25.0	0250	40.0	38.0	26.5	7.5
28.0	0280	43.0	42.0	26.5	9.0
30.0	0300	45.0	45.0	25.0	10.5
32.0	0320	47.0	48.0	28.5	10.5
35.0	0350	50.0	52.0	28.5	11.0
38.0	0380	56.0	55.0	32.0	10.3

CFM2N size chart

Metric Shaft Size D1	Size Code	D3	D7	L1	L4
10.0	0100	20.0	21.0	17.5	10.0
12.0	0120	22.0	23.0	17.5	10.0
14.0	0140	25.0	25.0	17.5	10.0
16.0	0160	27.0	27.0	19.5	10.0
18.0	0180	30.0	33.0	20.5	11.5
20.0	0200	32.0	35.0	22.0	11.5
22.0	0220	35.0	37.0	23.5	11.5
24.0	0240	38.0	39.0	25.0	11.5
25.0	0250	40.0	40.0	26.5	11.5
28.0	0280	43.0	43.0	26.5	11.5
30.0	0300	45.0	45.0	25.0	11.5
32.0	0320	47.0	48.0	28.5	11.5
35.0	0350	50.0	50.0	28.5	11.5
38.0	0380	56.0	56.0	32.0	14.0

Metric Shaft Size D1	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	22.5	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



Working Conditions

Pumps: Water pump, sewage pumps and chemical pumps, etc.
 Temperature: -20°C to 180°C
 Pressure: ≤ 1MPa
 Speed: ≤ 15m/s

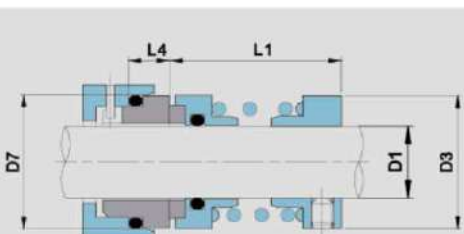
Materials
 Stationary Ring: Carbon/Ceramic/Sic/TC
 Rotary Ring: Carbon/Sic/TC/SUS304
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



CF 53A 53B 53N



CF 1527



Metric Shaft Size D1	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°C to 180°C

Pressure: ≤ 1MPa

Speed: ≤ 10m/s

Materials

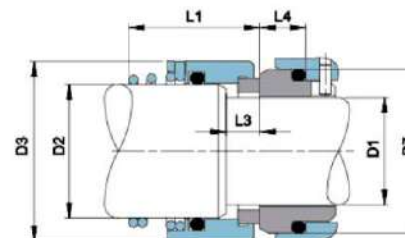
Stationary Ring: Carbon/Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

Metric Shaft D1	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°C to 180°C

Pressure: ≤ 2.5MPa

Speed: ≤ 10m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

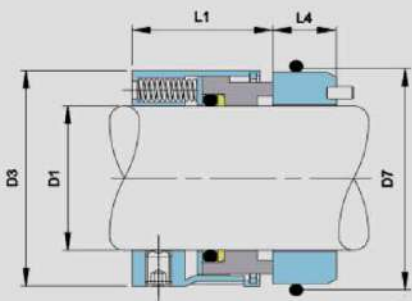
Spring and Metal Part: Stainless Steel



CFH12N



CF 8-1



Inch Shaft Size D1	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	46.30	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

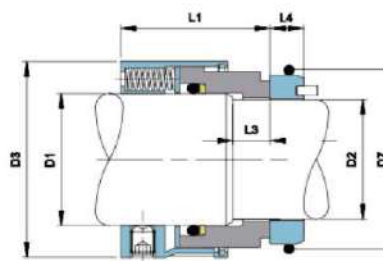
Working Conditions

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

Inch Shaft Size	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	46.30	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



Working Conditions

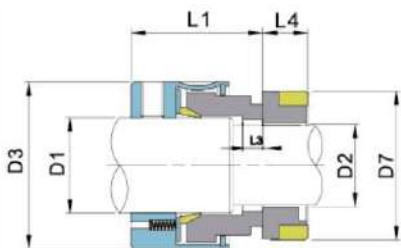
Mediums: Petroleum, chemical solvents, medium corrosion.
 Temperature: 30°C to 200°C
 Pressure: ≤2.5MPa
 Speed: ≤25m/s

Materials

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



CF 8B1



Working Conditions

Mediums: Petroleum, chemical solvents, medium corrosion.
 Temperature: 30°C to 200°C
 Pressure: ≤2.5MPa
 Speed: ≤25m/s

Materials

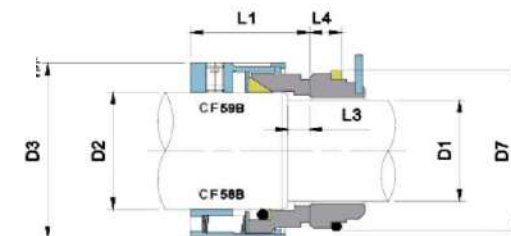
Stationary Ring: Ceramic/Sic/TC
 Rotary Ring : Carbon/Sic/TC
 Secondary Seal: PTFE
 Spring and Metal Part: Stainless Steel



CF 109B

Inch Shaft Size D1	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

Metric Shaft Size D1	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



CF59B CF58B

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

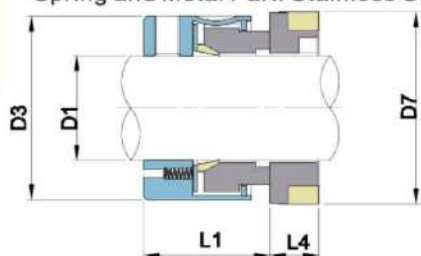
Mediums: Petroleum, chemical solvents,
 medium corrosion.
 Temperature: 30°C to 200°C
 Pressure: ≤ 1.7MPa
 Speed: ≤ 25m/s

Materials

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

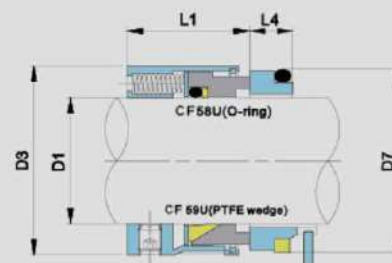


CF 109



Inch Shaft D1	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

Inch Shaft D1	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: ≤ 1.7MPa
 Speed: ≤ 25m/s

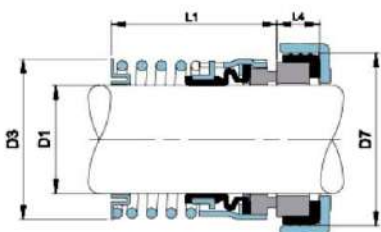
Materials

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

Metric Shaft Size D1	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



CF59U CF58U



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: ≤ 1.4MPa

Speed: ≤ 15m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

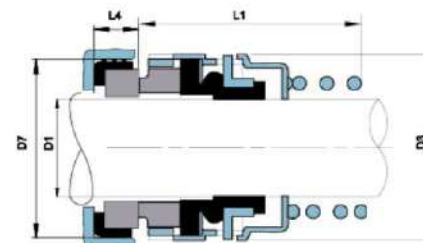
Spring and Metal Part: Stainless Steel



CF 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: ≤ 1.4MPa

Speed: ≤ 15m/s

Materials

Stationary Ring: Ceramic/Sic/TC

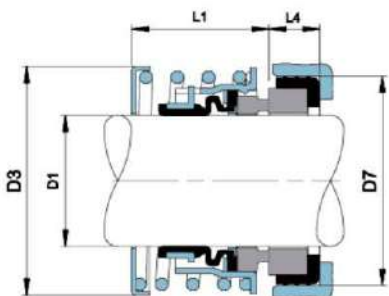
Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CF 1A



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: ≤ 1.4MPa

Speed: ≤ 15m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

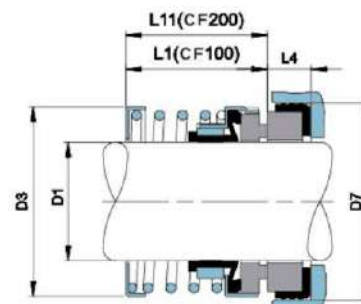
Spring and Metal Part: Stainless Steel



CF 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	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	66.00	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	82.10	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: ≤ 1.0MPa

Speed: ≤ 15m/s

Materials

Stationary Ring: Ceramic/Sic/TC

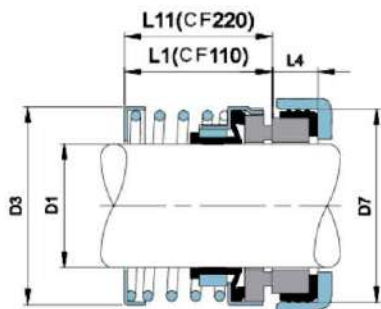
Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CF 100 CF 200



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: ≤ 1.0MPa
 Speed: ≤ 15m/s

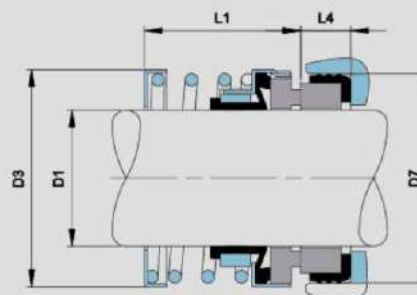
Materials

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



CF 110 CF 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: ≤ 1.0MPa
 Speed: ≤ 15m/s

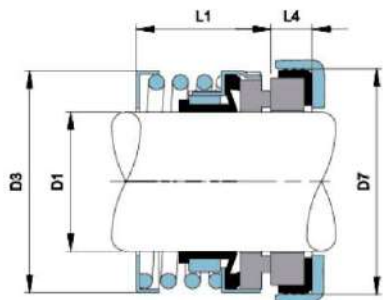
Materials

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



CF 24

Metric Shaft Size D1	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



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: ≤1.0MPa
 Speed: ≤15m/s

Materials

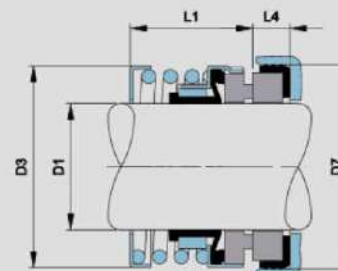
Stationary Ring: Ceramic/Sic/TC
 Rotary Ring : Carbon/Sic/TC
 Secondary Seal: NBR/EPDM/Viton
 Spring and Metal Part: Stainless Steel



CF560A

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: ≤1.0MPa
 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



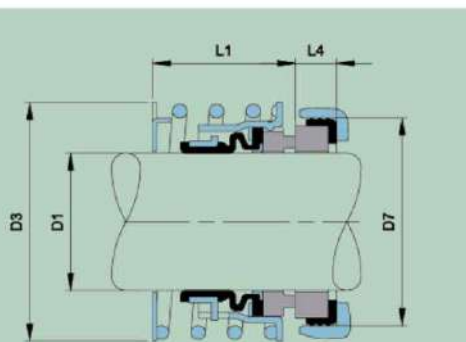
CFBIA

Metric Shaft Size D1	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



CF FBD

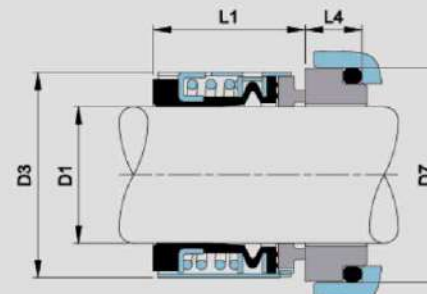
Metric Shaft Size D1	Size Code	D3	D7	L1	L4
16	0160	34.00	30.00	25.20	8.00
18	0180	36.80	32.00	25.20	8.00
20	0200	38.80	34.00	25.20	8.00
22	0220	41.50	36.00	25.20	8.00
25	0250	44.80	39.00	26.20	8.00
28	0280	48.50	43.00	26.20	8.00
30	0300	52.00	48.00	26.20	8.00
35	0350	57.00	53.00	30.20	10.00
40	0400	67.00	58.00	34.20	10.00
45	0450	73.00	63.00	36.20	10.00
50	0500	79.00	68.00	41.20	10.00
55	0550	84.00	73.00	41.20	12.00
60	0600	90.00	79.00	41.20	12.00
65	0650	98.50	86.00	49.20	12.00
70	0700	103.50	91.00	52.20	12.00
75	0750	110.50	96.00	52.20	12.00
80	0800	120.00	105.00	56.20	14.00
85	0850	125.00	110.00	56.20	14.00
90	0900	132.00	115.00	56.20	14.00
95	0950	137.00	120.00	56.20	14.00
100	1000	144.00	125.00	62.20	14.00
110	1100	157.00	135.00	62.20	16.00
120	1200	169.50	145.00	72.20	16.00



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: ≤ 1.4MPa
 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

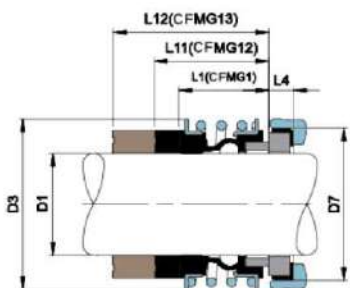
Mediums: Water, oil and weakly-corrosive mediums
 Temperature: -20°C to 120°C
 Pressure: ≤ 2.5MPa
 Speed: ≤ 15m/s

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



CF 502

Metric Shaft Size D1	Size Code	D3	D7	L1	L4
14	0140	24.0	25.0	23.0	12.0
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	89.0	92.0	45.5	14.5
75	0750	96.0	97.0	45.5	14.5
80	0800	104.0	105.0	45.0	15.0
85	0850	108.0	110.0	45.0	15.0
90	0900	114.0	115.0	50.0	15.0
95	0950	118.0	120.0	50.0	15.0
100	1000	124.0	125.0	50.0	15.0



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: ≤ 1.2MPa

Speed: ≤ 12m/s

Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

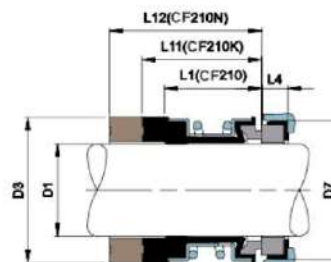
Spring and Metal Part: Stainless Steel



CF 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	42.50	37.00	7.60	21.60	30.00	37.50
24	0240	42.50	39.00	7.50	22.50	32.50	42.50
25	0250	49.00	43.00	7.50	23.00	32.50	42.50
28	0280	49.00	45.00	7.50	26.50	35.00	42.50
30	0300	53.50	48.00	7.50	27.50	35.00	47.50
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	62.00
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	20.00	21.00	5.00	15.00	27.50	35.00
12	0120	22.00	23.00	6.00	15.00	26.50	34.00
14	0140	24.00	25.00	6.00	15.00	29.00	34.00
15	0150	25.00	26.00	6.00	15.00	29.00	34.00
16	0160	26.00	27.00	6.00	15.00	29.00	34.00
18	0180	32.00	33.00	6.00	20.00	31.50	39.00
20	0200	34.00	35.00	6.00	20.00	31.50	39.00
22	0220	36.00	37.00	6.00	20.00	31.50	39.00
24	0240	38.00	39.00	6.00	20.00	34.00	44.00
25	0250	39.00	40.00	6.00	20.00	34.00	44.00
28	0280	42.00	43.00	6.00	26.00	36.50	44.00
30	0300	44.00	45.00	7.00	26.00	35.50	43.00
32	0320	46.00	48.00	7.00	26.00	35.50	48.00
33	0330	47.00	48.00	7.00	26.00	35.50	48.00
35	0350	49.00	50.00	8.00	26.00	34.50	47.00
38	0380	54.00	56.00	8.00	30.00	37.00	47.00
40	0400	56.00	58.00	8.00	30.00	37.00	47.00
43	0430	59.00	61.00	8.00	30.00	37.00	52.00
45	0450	61.00	63.00	8.00	30.00	37.00	52.00
48	0480	64.00	66.00	10.00	30.00	35.00	50.00
50	0500	66.00	70.00	10.00	30.00	37.50	50.00
53	0530	69.00	73.00	10.00	30.00	37.50	60.00
55	0550	71.00	75.00	10.00	30.00	37.50	60.00
58	0580	78.00	78.00	10.00	33.00	42.50	60.00
60	0600	80.00	80.00	12.00	33.00	40.50	58.00
63	0630	83.00	83.00	12.00	33.00	40.50	58.00
65	0650	85.00	85.00	12.00	33.00	40.50	68.00
68	0680	88.00	90.00	12.00	33.00	40.50	68.00
70	0700	90.00	92.00	12.00	33.00	48.00	68.00
75	0750	99.00	97.00	12.00	40.00	48.00	68.00
80	0800	104.00	105.00	12.50	40.00	47.50	77.50
85	0850	109.00	110.00	12.50	40.00	47.50	77.50
90	0900	114.00	115.00	12.50	40.00	52.50	77.50
95	0950	119.00	120.00	12.50	40.00	52.50	77.50
100	1000	124.00	125.00	12.50	40.00	52.50	77.50



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 120°C

Pressure: ≤ 1.2MPa

Speed: ≤ 12m/s

Materials

Stationary Ring: Ceramic/Sic/TC

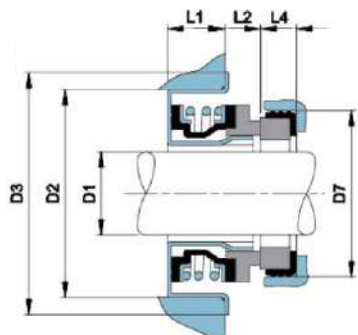
Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CF 210



Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 100°C

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

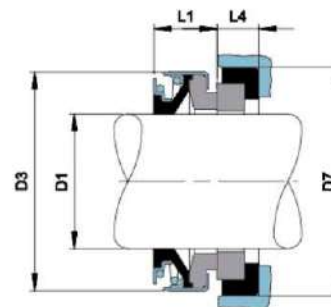


CF 700

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
8	0080	24.00	26.00	11.00	8.00
10	0100	24.00	26.00	11.00	8.00
11	0110	24.00	26.00	11.00	8.00
12	0120	24.00	26.00	11.00	8.00
12	0120B	24.00	26.00	13.00	8.00
12	0120C	32.00	38.00	13.00	8.00
13	0130	24.00	26.00	13.00	8.00
14	0140	32.00	35.00	13.00	8.00
15	0150	35.00	38.00	13.00	8.00
16	0160	35.00	38.00	13.00	8.00
16	0160B	39.00	42.00	13.00	8.00
17	0170	39.00	42.00	13.00	8.00
18	0180	39.00	42.00	13.00	8.00
19	0190	39.00	42.00	13.00	8.00
20	0200	39.00	42.00	13.00	8.00
20	0200B	42.00	45.00	13.00	10.00
22	0220	42.00	45.00	13.00	10.00
23	0230	47.00	50.00	13.50	10.00
24	0240	47.00	50.00	13.50	10.00

D1(mm)	Size Code	D3	D7	L1	L4
23	0230	47.00	50.00	13.50	10.00
24	0240	47.00	50.00	13.50	10.00
25	0250	47.00	50.00	13.50	10.00
25	0250B	42.00	50.00	13.30	10.00
25	0250C	42.00	40.00	13.50	7.50
25	0250D	42.00	40.00	12.80	6.00
28	0280	54.00	57.00	15.00	10.00
30	0300	54.00	57.00	15.00	10.00
32	0320	54.00	57.00	15.00	10.00
35	0350	60.00	63.00	16.00	10.00
38	0380	65.00	68.00	17.00	12.00
40	0400	65.00	68.00	17.00	12.00
45	0450	70.00	73.00	20.00	12.00
50	0500	85.00	88.00	20.00	15.00
60	0600	110.00	110.00	30.00	15.00
65	0650	110.00	110.00	30.00	15.00
70	0700	105.00	110.00	32.00	15.00



Working Conditions

Pumps: Water pumps and household pumps

Temperature: -20°C to 100°C

Pressure: ≤0.5MPa

Speed: ≤10m/s

Materials

Stationary Ring: Ceramic/Sic/TC

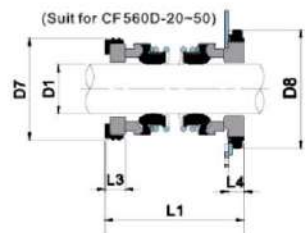
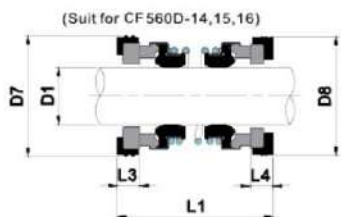
Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



CF 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

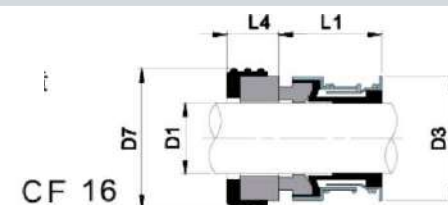
Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel

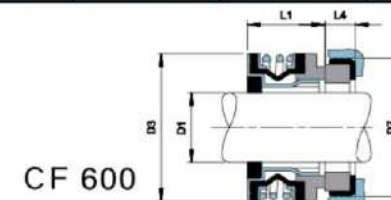


CF 560D

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



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



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



CF 600 CF16

Working Conditions

Mediums: Water, oil and weakly-corrosive mediums

Temperature: -20°C to 100°C

Pressure: ≤0.5MPa

Speed: ≤10m/s

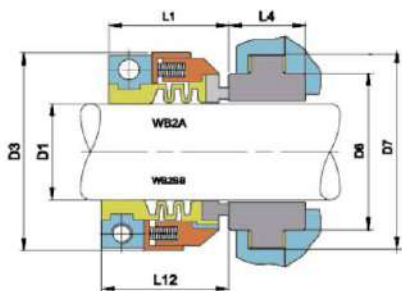
Materials

Stationary Ring: Ceramic/Sic/TC

Rotary Ring : Carbon/Sic/TC

Secondary Seal: NBR/EPDM/Viton

Spring and Metal Part: Stainless Steel



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: ≤0.5MPa

Speed: ≤10m/s

Materials

Stationary Ring: Ceramic/Sic/Ssic

Rotary Ring : Teflon/Sic/Ssic

Secondary Seal: Teflon

Spring and Metal Part: Stainless Steel

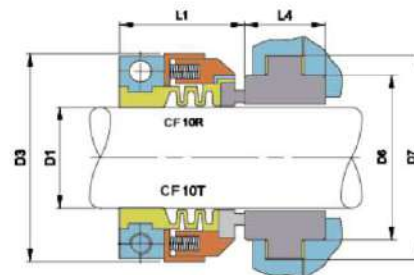


CFWB2

D1(mm)	Size	D3	D7	D6	L4	L1	L12
25	0250	60	60	47	27	42	45
30	0300	67	67	53	27	42	45
32	0320	69	64	50.7	27	42	45
35	0350	72	70	57	27	42	45
40	0400	78	76	62	26	42	45
45	0450	84	82	67	27	44	46
50	0500	88	86	72	27	46	46
55	0550	95	90	77	27	46	46
60	0600	100	95	82	27	46	46
65	0650	105	100	87	27	46	46

D1(inch)	Size	D3	D7	D6	L4	L1	L12
1"	0254	60	54	42.86	17.5	42	45
1 1/8"	0286	67	60	46.03	27	42	45
1 1/4"	0317	69	65	50.8	27	42	45
1 3/8"	0349	72	68	53.98	27	42	45
1 1/2"	0381	76	71	57.15	27	42	45
1 5/8"	0412	80	78	63.5	27	42	45
1 3/4"	0444	84	81	66.68	27	44	46
1 7/8"	0476	86	84	69.85	27	44	46
2"	0508	90	87	73.03	27	46	46
2 1/8"	0539	95	97	79.38	33.5	46	46
2 1/4"	0571	98	100	82.55	33.5	46	46
2 3/8"	0603	100	103	85.73	33.5	46	46

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



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: ≤0.5MPa

Speed: ≤10m/s

Materials

Stationary Ring: Ceramic/Sic/Ssic

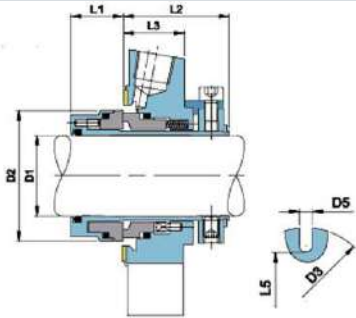
Rotary Ring : Teflon/Sic/Ssic

Secondary Seal: Teflon

Spring and Metal Part: Stainless Steel



CF 10T



Working Conditions

Mediums: Chemical, Food, Oil, Petroleum,
Pharmaceuticals Paper and pulp, Sewage treatment
Temperature: Elastomer Dependent
Pressure: $\leq 2.8\text{MPa}$
Speed: $\leq 35\text{m/s}$

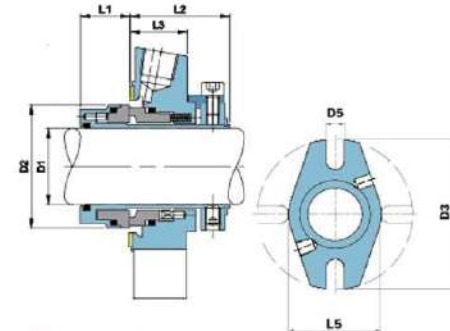
Materials

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



CF 300

D1(mm)	D2	D3	D5	L1	L2	L3	L5	D1(inch)	D2	D3	D5	L1	L2	L3	L5
	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



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

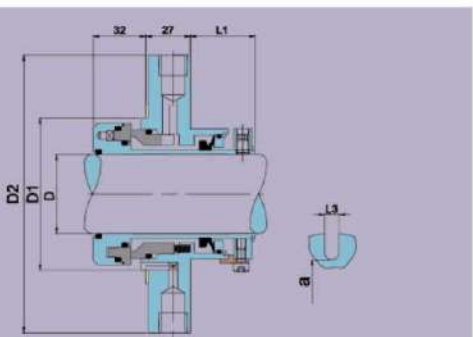


CF 270



CF 380Q

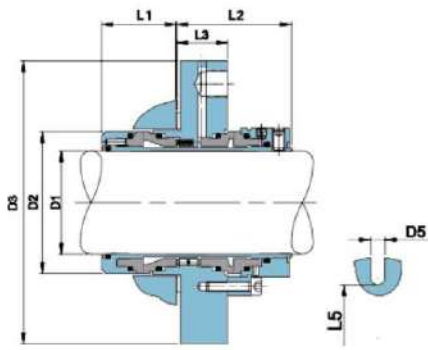
D(mm)	D1	D2	L1	L3	a
50	95	180	37.6	17.5	113
55	100	185	37.6	17.5	118
60	105	190	37.6	17.5	123
65	110	195	39.6	17.5	128
70	115	200	39.6	17.5	133
75	120	205	39.6	17.5	138
80	125	210	39.6	17.5	143
85	130	215	39.6	21.5	148
90	135	220	39.6	21.5	153
95	140	225	39.6	21.5	158
100	145	230	38.6	21.5	163
105	150	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	D1(inch)	D2	D3	D5	L1	L2	L3	L5
25	44.5	104	12.5	35	54	24	62	1.000	1.752	4.094	0.492	1.378	2.126	0.984	2.441
28	47.5	104	12.5	35	54	24	62	1.125	1.870	4.094	0.492	1.378	2.126	0.984	2.441
30	49.5	104	12.5	35	54	24	67	1.250	2.027	4.094	0.492	1.378	2.126	0.984	2.638
32	51.5	104	12.5	35	54	24	67	1.375	2.146	4.331	0.492	1.378	2.126	0.984	2.756
33	51.5	104	12.5	35	54	24	67	1.500	2.264	4.921	0.579	1.378	2.126	0.984	2.953
35	54.5	110	12.5	35	54	24	70	1.625	2.421	5.236	0.579	1.378	2.126	0.984	3.150
38	57.5	125	14.7	35	54	24	75	1.750	2.539	5.512	0.579	1.378	2.126	0.984	3.228
40	59.5	125	14.7	35	54	24	75	1.875	2.657	5.512	0.579	1.378	2.126	0.984	3.228
42	61.5	133	14.7	35	54	24	80	2.000	2.736	5.906	0.579	1.378	2.126	0.984	3.425
43	62.5	133	14.7	35	54	24	80	2.125	2.854	6.102	0.689	1.378	2.126	0.984	3.622
45	64.5	140	14.7	35	54	24	82	2.250	3.051	6.299	0.689	1.378	2.126	0.984	3.937
48	67.5	140	14.7	35	54	24	82	2.375	3.130	6.469	0.689	1.378	2.126	0.984	3.937
50	69.5	140	14.7	35	54	24	87	2.500	3.248	6.893	0.689	1.378	2.126	0.984	4.055
53	72.5	150	17.5	35	54	24	92	2.625	3.445	7.067	0.689	1.378	2.126	0.984	4.724
55	74.5	150	17.5	35	54	24	92	2.750	3.523	7.480	0.689	1.378	2.126	0.984	4.724
60	79.5	160	17.5	35	54	24	100	2.875	3.937	7.480	0.689	1.535	2.283	1.181	4.843
65	84.5	165	17.5	35	54	24	105	3.000	4.016	7.480	0.689	1.535	2.283	1.181	4.921
70	89.5	180	17.5	35	54	24	120	3.125	4.213	8.661	0.689	1.535	2.283	1.181	5.118
75	102	190	17.5	39	58	26	125	3.250	4.331	8.661	0.846	1.535	2.283	1.181	5.236
80	107	190	17.5	39	58	26	130	3.375	4.410	8.661	0.846	1.535	2.283	1.181	5.315
85	112	220	21.5	39	58	26	135	3.500	4.607	8.661	0.846	1.535	2.283	1.181	5.512
90	117	220	21.5	39	58	26	140	3.625	4.685	8.661	0.846	1.535	2.283	1.181	5.591
95	122	220	21.5	39	58	26	145	3.750	4.804	8.661	0.846	1.535	2.283	1.181	5.709
100	127	220	21.5	39	58	26	150	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

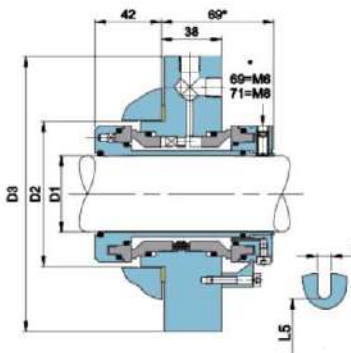


Working Conditions
 Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment
 Temperature: Elastomer Dependent
 Pressure: $\leq 2.8\text{MPa}$
 Speed: $\leq 35\text{m/s}$

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



CF 320



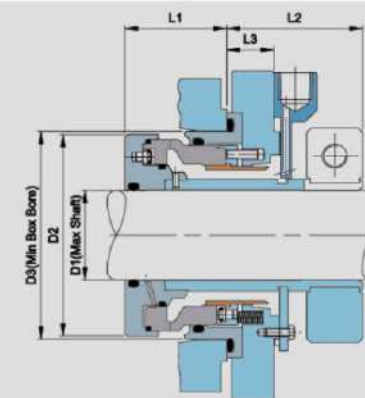
Working Conditions

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

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



CF 365



CF 5860

D1(mm)	D2	D3	D5	L1	L2	L3	L5
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	5.238
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

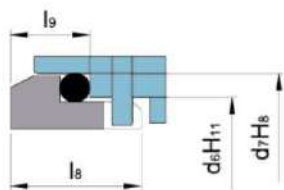


Working Conditions

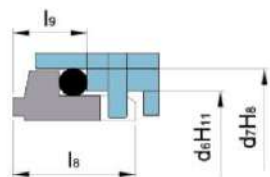
Mediums: Chemical, Food, Oil, Petroleum, Pharmaceuticals Paper and pulp, Sewage treatment
 Temperature: Elastomer Dependent
 Pressure: $\leq 2.8\text{MPa}$
 Speed: $\leq 25\text{m/s}$

Materials

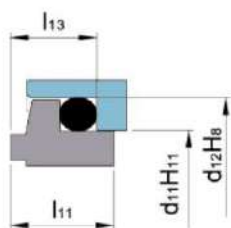
Stationary Ring: Carbon/Sic/Ssic/TC
 Rotary Ring: Sic/Ssic/TC
 Secondary Seal: Viton/EPDM/Chemraz/Kalrez/Aflas, etc.
 Spring and Metal Part: Stainless Steel/Hast C



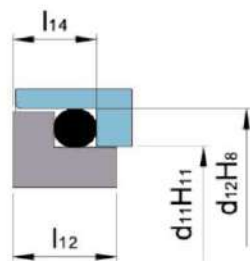
G9/DIN24960



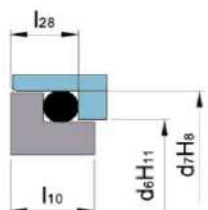
G9/DIN24960(Carbon)



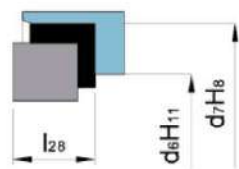
G13/DIN24250



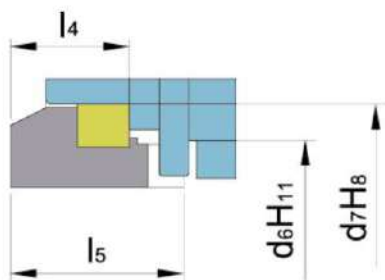
G4/DIN24250



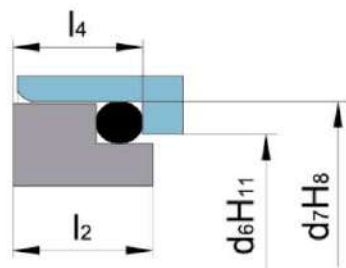
G6/DIN24960



G60/DIN24960



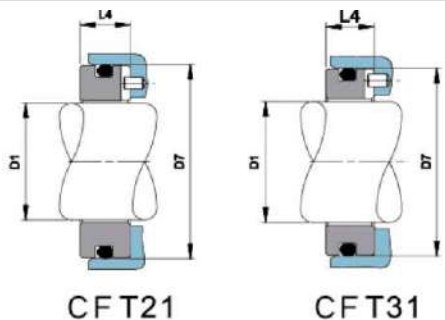
BP/DIN24960



BO/DIN24960

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	14.3
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	14.2	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

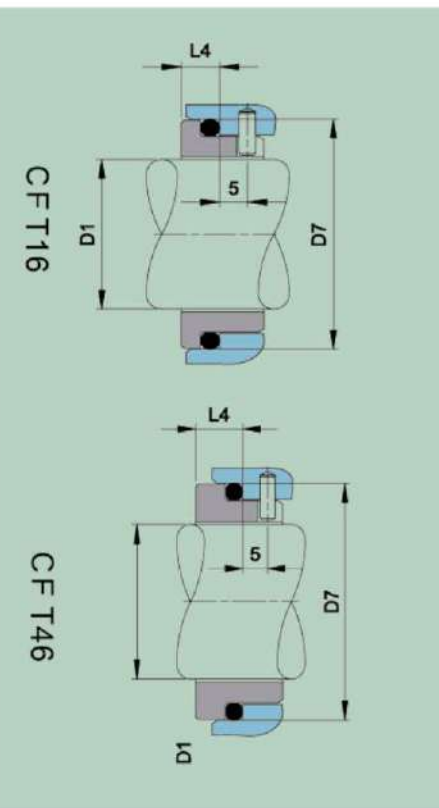


Materials

Stationary Ring : Ceramic/Sic / TC/SUS304
Secondary Seal : NBR / EPDM / Viton

D1 Metric Size	Size Code	D1 Inch Size	Size Code	D7(T31)	L4(T31)	D7(T21)	L4(T21)
10	0100	0.375	0095	22.22	7.95	24.80	8.70
12	0120			22.22	7.95	24.80	8.70
		0.500	0127	25.40	7.95	27.79	8.70
13	0130			25.40	7.95	27.79	8.70
14	0140			31.75	10.30	30.56	10.30
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			34.93	10.30	34.15	10.30
		0.750	0191	34.93	10.30	34.15	10.30
20	0200			38.10	10.30	36.70	10.30
22	0220			38.10	10.30	37.30	10.30
		0.875	0222	38.10	10.30	37.30	10.30
24	0240			41.28	11.10	40.50	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			44.45	11.10	47.63	11.90
		1.125	0288	44.45	11.10	47.63	11.90
30	0300			47.63	11.10	50.80	11.90
		1.250	0317	47.63	11.10	50.80	11.90
33	0330			50.80	11.10	53.98	11.90
		1.375	0349	50.80	11.10	53.98	11.90
35	0350			50.80	11.10	53.98	11.90
38	0380			53.98	11.10	57.15	11.90
		1.500	0381	53.98	11.10	57.15	11.90
40	0400			60.35	12.70	60.35	11.90
		1.625	0412	60.35	12.70	60.35	11.90
42	0420			63.50	12.70	63.50	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	69.85	13.50
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
		2.125	0539	76.20	14.30	73.05	13.50
55	0550			79.38	14.30	76.20	13.50
		2.250	0571	79.38	14.30	76.20	13.50
58	0580			82.55	14.30	79.40	13.50
60	0600			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
		2.500	0635	85.73	14.30	82.55	13.50
65	0650			85.73	15.90	92.10	15.90
		2.625	0656	85.73	15.90	92.10	15.90
		2.750	0698	88.90	15.90	95.25	15.90
70	0700			88.90	15.90	95.25	15.90
		2.875	0730	92.25	15.90	98.45	15.90
75	0750			98.43	16.90	101.65	16.90
		3.000	0762	98.43	16.90	101.65	16.90
80	0800			101.60	16.90	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 Metric Size	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

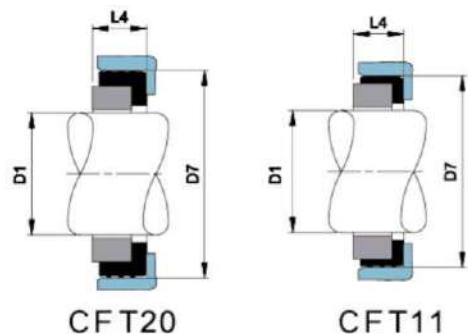


Materials

Stationary Ring : Ceramic/Sic / TC
Secondary Seal : NBR / EPDM / Viton



CFT16 CFT46



Materials
 Stationary Ring : Ceramic/Sic / TC
 Secondary Seal : NBR / EPDM / Viton

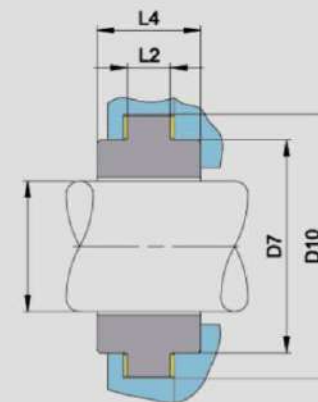
CFT 20 size chart

D1 Metric Size	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

CFT 11 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	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



Materials
 Stationary Ring : Ceramic/Sic / TC
 Secondary Seal : NBR / EPDM / Viton



CFV