



CATALOGUE

ALFA MAN ENGINEERING (M) SDN BHD

அல்ஃபா மேன் பொறியியல் (ம) சென். பெர்ஹாட்

(988280-D)

No.50, Jalan SS19/7 47500 Subang Jaya, Selangor

Darul Ehsan Tel : 03-5612 2707

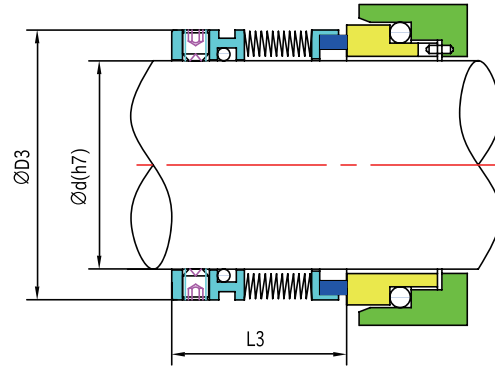
About Alfa Man Engineering

Alfa Man Engineering (M) Sdn. Bhd. is a performance-driven industrial trading company specializing in the supply of mechanical seals and sealing solutions for pumps and rotating equipment across diverse industrial applications.

Our products are selected and supplied with a strong focus on operational reliability, sealing efficiency, and long service life. We provide mechanical seals, packings, couplings, and related components designed to perform under high pressure, high temperature, and demanding operating conditions, helping customers minimize leakage, reduce downtime, and improve equipment performance.

Backed by technical understanding and a dependable supply network, we ensure that every product delivered meets the required specifications and performance expectations. Our commitment is to supply consistent, high-quality products that support safe, efficient, and continuous plant operations.





Performance Capabilities

Temperature:
-75°C to 200°C

Pressure:
Up to 20 bar

Speed:
Up to 23 m/s

End play/axial float allowance:
±0.1mm

Sizes

18mm to 145mm
0.75" to 7"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS316, hastelloy C, AM350

Metal parts:

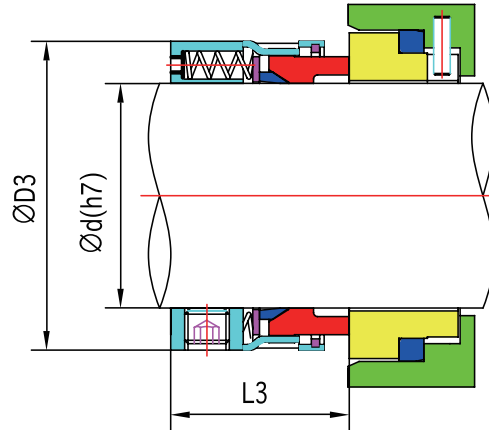
SS316, hastelloy C

size	d	D3	L3
18	18	32	27.7
20	20	33.3	27.7
22	22	36	27.7
24	24	38.1	30.2
25	25	39	30.2
28	28	42	32.7
30	30	44	32.7
32	32	46	32.7
33	33	47	32.7
35	35	49.2	32.7
38	38	52.4	34.2
40	40	55.6	34.2
43	43	58.7	34.2
45	45	58.7	34.2
48	48	61.9	34.2
50	50	65.1	34.2
53	53	68.3	34.2
55	55	71	34.2
60	60	74.6	39.7
65	65	84.1	39.7
70	70	87.3	45.2
75	75	95.3	45.2
80	80	98.4	44.7
85	85	104.8	44.7
90	90	108	49.7
95	95	114.3	49.7
100	100	120.7	49.7
105	105	131.7	48.5
110	110	138.1	48.5
115	115	144.5	48.5
120	120	144.5	48.5
125	125	150.8	48.5
130	130	157.8	48.5
140	140	170.5	48.5
145	145	176.9	48.5

size (inch)	d	D3	L3
0.75"	19.05	33.32	31.75
0.875"	22.23	36.50	31.75
0.937"	23.80	38.10	31.75
1"	25.40	39.67	31.75
1.125"	28.58	42.85	31.75
1.25"	31.75	46.02	33.32
1.375"	34.93	49.20	36.50
1.5"	38.10	52.37	36.50
1.625"	41.28	55.55	36.50
1.75"	44.45	58.72	36.50
1.875"	47.63	61.90	38.10
2"	50.80	65.07	38.10
2.125"	53.98	68.25	38.10
2.25"	57.15	71.42	39.67
2.375"	60.33	74.60	39.67
2.5"	63.50	80.95	39.67
2.625"	66.68	84.12	41.28
2.75"	69.85	87.30	41.28
2.875"	73.03	92.08	42.85
3"	76.20	95.25	42.85
3.125"	79.38	98.43	44.45
3.25"	82.55	101.60	44.45
3.375"	85.73	140.78	44.45
3.5"	88.90	107.95	47.63
3.625"	92.08	111.13	47.63
3.75"	95.25	114.30	47.63
3.875"	98.43	117.48	47.63
4"	101.60	120.65	47.63
4.25"	107.95	131.75	48.34
4.5"	114.30	138.13	48.34
4.75"	120.65	144.48	48.34
5"	127.00	150.83	48.34
5.25"	133.35	157.81	48.34
5.5"	139.70	164.16	48.34
5.75"	146.05	170.54	48.34
6"	152.40	176.89	48.34
6.5"	165.10	189.74	48.34
7"	177.80	202.46	48.34

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O-RING MECHANICAL SEALS



Performance Capabilities

Temperature:

-100°C to 400°C

Pressure:

Up to 10 bar (unbalance type)

Speed:

Up to 20 m/s

End play/axial float allowance:

±0.1mm

Sizes

10mm to 125mm

0.5" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

PTFE

Spring:

SS304, SS316, hastelloy C

Metal parts:

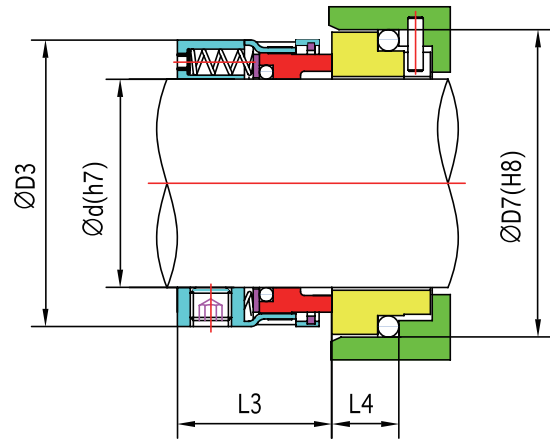
SS304, SS316

size	d	D3	L3
10	10	29.0	21
14	14	29.0	21
15	15	29.0	21
16	16	33.8	19
18	18	33.8	22
20	20	39.8	24
22	22	39.8	24
24	24	39.8	25
25	25	39.8	25
28	28	43.4	27
30	30	46.4	27
32	32	49.7	29
35	35	51.3	29
38	38	54.5	29
40	40	59.6	35
44	44	64.0	35
45	45	64.7	35
48	48	67.2	35
50	50	69.6	35
55	55	82.7	43
60	60	82.7	43
65	65	92.6	43
70	70	92.6	43
75	75	101.1	43
80	80	101.1	43
85	85	117.7	43
90	90	117.7	43
95	95	117.7	43
100	100	137.5	43
105	105	137.5	51
110	110	142.5	51
115	115	152.4	51
120	120	152.4	51
125	125	157.4	51

size (inch)	d	D3	L3
1/2"	12.7	26.7	20.8
5/8"	15.88	30.7	19.2
3/4"	19.05	34	22.4
7/8"	22.23	37.2	24
1"	25.4	40.3	25.6
1 1/8"	28.58	43.5	27.2
1 1/4"	31.75	48.3	27.2
1 3/8"	34.93	51.5	28.8
1 1/2"	38.1	54.6	28.8
1 5/8"	41.28	61	35.2
1 3/4"	44.45	64.2	35.2
1 7/8"	47.63	67.3	35.2
2"	50.8	70.5	35.2
2 1/8"	53.98	76.9	43.2
2 1/4"	57.15	80	43.2
2 3/8"	60.33	83.2	43.2
2 1/2"	63.5	86.4	43.2
2 5/8"	66.68	89.6	43.2
2 3/4"	69.85	92.7	43.2
2 7/8"	73.03	95.9	43.2
3"	76.2	97.5	43.2
3 1/8"	79.38	100.7	43.2
3 1/4"	82.55	105.4	43.2
3 3/8"	85.73	108.6	43.2
3 1/2"	88.9	111.8	43.2
3 5/8"	92.08	115	43.2
3 3/4"	95.25	118.1	43.2
3 7/8"	98.43	121.3	43.2
4"	101.6	124.5	43.2

A58U

O-RING MECHANICAL SEALS



Performance Capabilities

Temperature:

-100°C to 400°C

Pressure:

Up to 10 bar (unbalance type)

Speed:

Up to 20 m/s

End play/axial float allowance:

±0.1mm

Sizes

14mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

PTFE

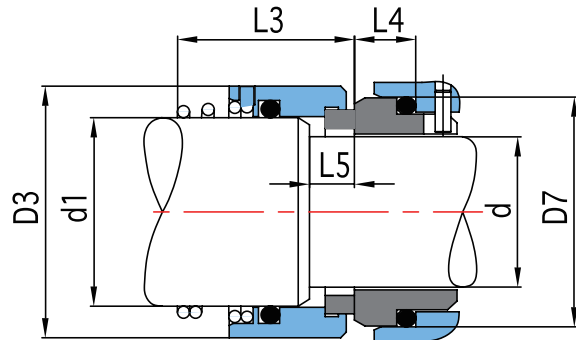
Spring:

SS304, SS316, hastelloy C

Metal parts:

SS304, SS316

size	d	D3	D7	L4	L3
14	14	24	25	12	23.2
16	16	26	27	12	23.2
18	18	32	33	13.5	24.2
20	20	34	35	13.5	24.2
22	22	36	37	13.5	24.2
24	24	38	39	13.5	26.9
25	25	39	40	13	27.2
28	28	42	43	12.5	30.2
30	30	44	45	12	30.7
32	32	46	48	12	30.7
33	33	47	48	12	30.7
35	35	49	50	12	30.7
38	38	54	56	13	32.2
40	40	56	58	13	32.2
43	43	59	61	13	32.2
45	45	61	63	13	32.2
48	48	64	66	13	32.2
50	50	66	70	13.5	34.2
53	53	69	73	13.5	34.2
55	55	71	75	13.5	34.2
58	58	78	78	13.5	39.2
60	60	80	80	13.5	39.2
63	63	83	83	13.5	39.2
65	65	85	85	13.5	39.2
68	68	88	90	13.5	39.2
70	70	90	92	14.5	45.7
75	75	95	97	14.5	45.7
80	80	104	105	15	45.2
85	85	109	110	15	45.2
90	90	114	115	15	50.2
95	95	119	120	15	50.2
100	100	124	125	15	50.2



size	d	d1	D3	D7	L3	L4	L5
10	10	14	24	21	25.7	10	8
12	12	16	26	23	26.7	10	8
14	14	18	31	25	29.7	10	8
16	16	20	34	27	31.2	10	8
18	18	22	36	33	32.7	11.5	8.5
20	20	24	38	35	32.7	11.5	8.5
22	22	26	40	37	32.7	11.5	8.5
24	24	28	42	39	32.7	11.5	8.5
25	25	30	44	40	33.7	11.5	8.5
28	28	33	47	43	35.7	11.5	8.5
30	30	35	49	45	35.7	11.5	8.5
32	32	38	54	48	39.7	11.5	8.5
33	33	38	54	48	39.7	11.5	8.5
35	35	40	56	50	43.7	11.5	8.5
38	38	43	59	56	46.2	14	9
40	40	45	61	58	48.2	14	9
43	43	48	64	61	51.2	14	9
45	45	50	66	63	55.2	14	9
48	48	53	69	66	55.2	14	9
50	50	55	71	70	58.2	15	10
53	53	58	78	73	60.2	15	10
55	55	60	79	75	60.2	15	10
58	58	63	83	78	60.2	15	10
60	60	65	85	80	60.2	15	10
63	63	68	88	83	60.2	15	10
65	65	70	90	85	61.2	15	10
70	70	75	98	92	63.2	18	10
75	75	80	103	97	68.2	18	10
80	80	85	109	105	68.2	18.2	9.8

Performance Capabilities

Temperature:

-20°C to 180°C, depend on o-ring material

Pressure:

Up to 25 bar

Speed:

Up to 35 m/s

End play/axial float

allowance:

±0.1mm

Sizes

10mm to 80mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

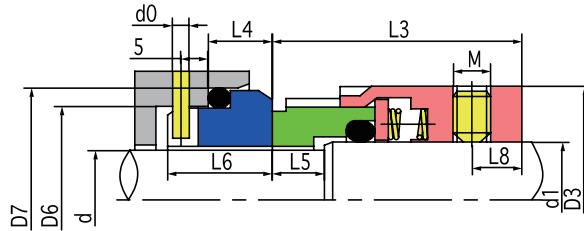
NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS304, SS316, hastelloy C

Metal parts:

SS304, SS316



size	d	d1	D3	D6	D7	d0	L3	L4	L6	L5	L8	M
14	14	18	33	21	25	3	32.5	10.0	17.5	8.0	6.0	M5
16	16	20	35	23	27	3	32.5	10.0	17.5	8.0	6.0	M5
18	18	22	37	27	33	3	33.5	11.5	19.5	8.5	7.0	M5
20	20	24	39	29	35	3	33.5	11.5	19.5	8.5	5.5	M5
22	22	26	41	31	37	3	33.5	11.5	19.5	8.5	8.0	M5
24	24	28	43	33	39	3	36.0	11.5	19.5	8.5	5.5	M6
25	25	30	45	34	40	3	36.0	11.5	19.5	8.5	5.5	M6
28	28	33	48	37	43	3	38.5	11.5	19.5	8.5	8.0	M6
30	30	35	50	39	45	3	38.5	11.5	19.5	8.5	8.0	M6
32	32	38	55	42	48	3	38.5	11.5	19.5	8.5	8.0	M5
33	33	38	55	42	48	3	38.5	11.5	19.5	8.5	8.0	M6
35	35	40	57	44	50	3	38.5	11.5	19.5	8.5	8.0	M6
38	38	43	60	49	56	4	38.5	14.0	22.0	9.0	8.0	M6
40	40	45	62	51	58	4	38.5	14.0	22.0	9.0	8.0	M6
43	43	48	65	54	61	4	38.5	14.0	22.0	9.0	8.0	M6
45	45	50	67	56	63	4	38.5	14.0	22.0	9.0	8.0	M6
48	48	53	70	59	66	4	38.5	14.0	22.0	9.0	8.0	M6
50	50	55	72	62	70	4	42.5	15.0	23.0	10.0	8.0	M6
53	53	58	79	65	73	4	42.5	15.0	23.0	10.0	9.0	M8
55	55	60	81	67	75	4	42.5	15.0	23.0	10.0	9.0	M8
58	58	63	84	70	78	4	47.5	15.0	23.0	10.0	9.0	M8
60	60	65	86	72	80	4	47.5	15.0	23.0	10.0	9.0	M8
63	63	68	89	75	83	4	47.5	15.0	23.0	10.0	9.0	M8
65	65	70	91	77	85	4	47.5	15.0	23.0	10.0	9.0	M8
70	70	75	99	83	92	4	52.0	18.0	26.0	10.0	10.0	M8
75	75	80	104	88	97	4	52.0	18.0	26.0	10.0	10.0	M8
80	80	85	109	95	105	4	51.8	18.2	26.2	9.8	10.0	M8
85	85	90	114	100	110	4	56.8	18.2	26.2	9.8	10.0	M8
90	90	95	119	105	115	4	56.8	18.2	26.2	9.8	10.0	M8
95	95	100	124	110	120	4	57.8	17.2	25.2	10.8	10.0	M8
100	100	105	129	115	125	4	57.8	17.2	25.2	10.8	10.0	M8

Performance Capabilities

Temperature:

-30°C to 200°C , depend on o-ring material

Pressure:

Up to 25 bar (balance type)

Speed:

Up to 18 m/s

End play/axial float allowance:

±0.1mm

Sizes

10mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

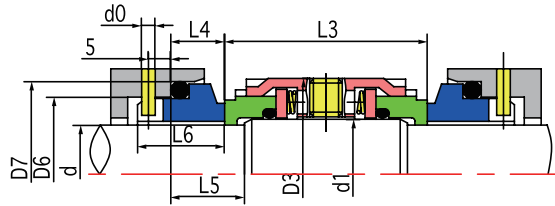
NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS304, SS316, Hastelloy

Metal parts:

SS304, SS316



Performance Capabilities

Temperature:

-30°C to 200°C , depend on o-ring material

Pressure:

Up to 12 bar (unbalance type)

Speed:

Up to 18 m/s

End play/axial float allowance:

±0.1mm

Sizes

14mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

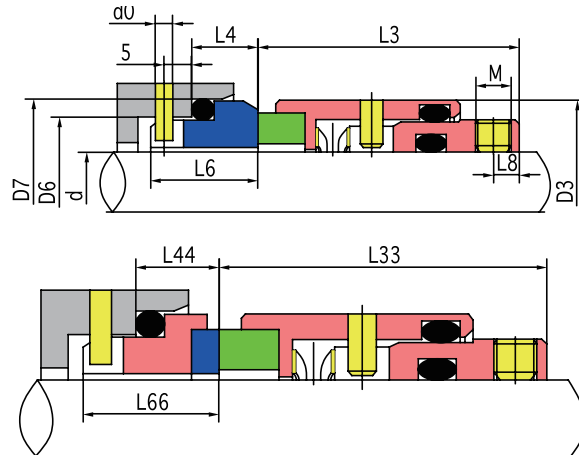
Spring:

SS304, SS316, Hastelloy

Metal parts:

SS304, SS316

size	d	d1	D3	D6	D7	d0	L5	L3	L4	L6
14	14	18	33.0	21.0	25.0	3.0	18.0	53.0	10.0	17.5
16	16	20	35.0	23.0	27.0	3.0	18.0	53.0	10.0	17.5
18	18	22	37.0	27.0	33.0	3.0	20.0	53.0	11.5	19.5
20	20	24	39.0	29.0	35.0	3.0	20.0	53.0	11.5	19.5
22	22	26	41.0	31.0	37.0	3.0	20.0	53.0	11.5	19.5
24	24	28	43.0	33.0	39.0	3.0	20.0	54.0	11.5	19.5
25	25	30	45.0	34.0	40.0	3.0	20.0	54.0	11.5	19.5
28	28	33	48.0	37.0	43.0	3.0	20.0	54.0	11.5	19.5
30	30	35	50.0	39.0	45.0	3.0	20.0	54.0	11.5	19.5
32	32	38	55.0	42.0	48.0	3.0	20.0	56.0	11.5	19.5
33	33	38	55.0	42.0	48.0	3.0	20.0	56.0	11.5	19.5
35	35	40	57.0	44.0	50.0	3.0	20.0	57.0	11.5	19.5
38	38	43	60.0	49.0	56.0	4.0	23.0	57.0	14.0	22.0
40	40	45	62.0	51.0	58.0	4.0	23.0	57.0	14.0	22.0
43	43	48	65.0	54.0	61.0	4.0	23.0	57.0	14.0	22.0
45	45	50	67.0	56.0	63.0	4.0	23.0	56.0	14.0	22.0
48	48	53	70.0	59.0	66.0	4.0	23.0	56.0	14.0	22.0
50	50	55	72.0	62.0	70.0	4.0	25.0	63.0	15.0	23.0
53	53	58	79.0	65.0	73.0	4.0	25.0	67.0	15.0	23.0
55	55	60	81.0	67.0	75.0	4.0	25.0	67.0	15.0	23.0
58	58	63	84.0	70.0	78.0	4.0	25.0	74.0	15.0	23.0
60	60	65	86.0	72.0	80.0	4.0	25.0	74.0	15.0	23.0
63	63	68	89.0	75.0	83.0	4.0	25.0	79.0	15.0	23.0
65	65	70	91.0	77.0	85.0	4.0	25.0	68.0	15.0	23.0
70	70	75	99.0	83.0	92.0	4.0	28.0	76.4	18.0	26.0
75	75	80	104.0	88.0	97.0	4.0	28.0	76.4	18.0	26.0
80	80	85	109.0	95.0	105.0	4.0	28.0	76.0	18.2	26.2
85	85	90	114.0	100.0	110.0	4.0	28.0	76.0	18.2	26.2
90	90	95	119.0	105.0	115.0	4.0	28.0	76.0	18.2	26.2
95	95	100	124.0	110.0	120.0	4.0	28.0	76.0	17.2	25.2
100	100	105	129.0	115.0	125.0	4.0	28.0	76.0	17.2	25.2



size	d	D3	D6	D7	d0	L3	L4	L6	L8	M	L33	L44	L66
18	18	32	27	33	3	30.5	7.0	15.0	3.0	M4	28.5	9.0	17.0
20	20	34	29	35	3	30.5	7.0	15.0	3.0	M4	28.5	9.0	17.0
22	22	36	31	37	3	30.5	7.0	15.0	3.0	M4	28.5	9.0	17.0
24	24	38	33	39	3	33.0	7.0	15.0	3.5	M5	31.0	9.0	17.0
25	25	39	34	40	3	33.0	7.0	15.0	3.5	M5	31.0	9.0	17.0
28	28	42	37	43	3	35.5	7.0	15.0	3.5	M5	33.0	9.5	17.5
30	30	44	39	45	3	35.5	7.0	15.0	3.5	M5	33.0	9.5	17.5
32	32	47	42	48	3	35.5	7.0	15.0	3.5	M5	33.0	9.5	17.5
33	33	47	42	48	3	35.5	7.0	15.0	3.5	M5	33.0	9.5	17.5
35	35	49	44	50	3	35.5	7.0	15.0	3.5	M5	33.0	9.5	17.5
38	38	54	49	56	4	37.0	8.0	16.0	4.0	M5	34.5	10.5	18.5
40	40	56	51	58	4	37.0	8.0	16.0	4.0	M5	34.5	10.5	18.5
43	43	59	54	61	4	37.0	8.0	16.0	4.0	M5	34.5	10.5	18.5
45	45	61	56	63	4	37.0	8.0	16.0	4.0	M5	34.5	10.5	18.5
48	48	64	59	66	4	37.0	8.0	16.0	4.0	M5	34.5	10.5	18.5
50	50	66	62	70	4	38.0	9.5	17.0	4.5	M6	35.5	12.0	19.5
53	53	69	65	73	4	38.0	9.5	17.0	4.5	M6	35.5	12.0	19.5
55	55	71	67	75	4	38.0	9.5	17.0	4.5	M6	35.5	12.0	19.5
58	58	78	70	78	4	42.0	10.5	18.0	4.5	M6	39.5	13.0	20.5
60	60	80	72	80	4	42.0	10.5	18.0	4.5	M6	39.5	13.0	20.5
63	63	83	75	83	4	42.0	10.5	18.0	4.5	M6	39.5	13.0	20.5
65	65	85	77	85	4	42.0	10.5	18.0	4.5	M6	39.5	13.0	20.5
68	68	88	81	90	4	41.5	11.0	18.5	4.5	M6	39.0	13.5	21.0
70	70	90	83	92	4	48.5	11.5	19.0	5.0	M6	46.0	14.0	21.5
75	75	99	88	97	4	48.5	11.5	19.0	5.5	M8	46.0	14.0	21.5
80	80	104	95	105	4	48.5	11.5	19.0	5.5	M8	46.0	14.0	21.5
85	85	109	100	110	4	48.5	11.5	19.0	5.5	M8	46.0	14.0	21.5
90	90	114	105	115	4	52.0	13.0	20.5	5.5	M8	49.5	15.5	23.0
95	95	119	110	120	4	52.0	13.0	20.5	5.5	M8	49.5	15.5	23.0
100	100	124	115	125	4	52.0	13.0	20.5	5.5	M8	49.5	15.5	23.0

Performance Capabilities

Temperature:

-20°C to 200°C , depend on o-ring material

Pressure:

Up to 25 bar

Speed:

Up to 15 m/s

End play/axial float allowance:

±0.1mm

Sizes

18mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

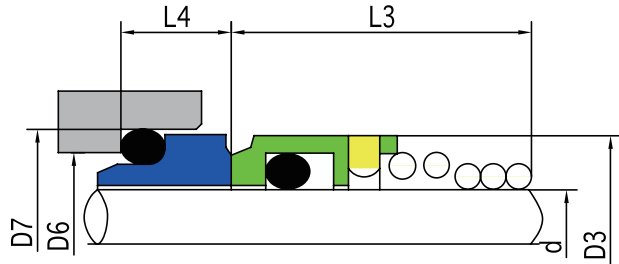
NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS304, SS316

Metal parts:

SS304, SS316



Performance Capabilities

Temperature:

-30°C to 200°C , depend on o-ring material

Pressure:

Up to 10 bar

Speed:

Up to 10 m/s

End play/axial float allowance:

±1mm

Sizes

10mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

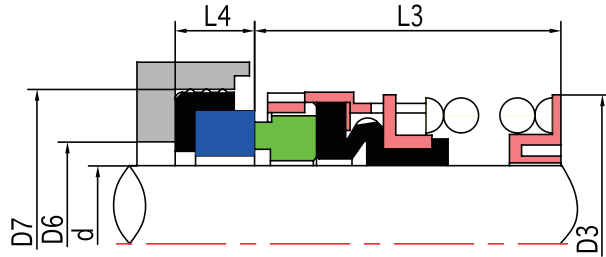
Spring:

SS304, SS316

Metal parts:

SS304, SS316

size	d	D7	D6	D3	L3	L4
10	10	18.1	14.0	19.0	15.0	5.5
11	11	20.6	16.5	21.0	18.0	5.5
12	12	20.6	16.5	21.0	18.0	5.5
13	13	23.1	19.0	23.0	22.0	6.0
14	14	23.1	19.0	23.0	22.0	6.0
15	15	26.9	21.0	24.0	22.0	7.0
16	16	26.9	21.0	26.0	23.0	7.0
17	17	30.9	25.0	29.0	24.0	7.0
19	19	30.9	25.0	31.0	25.0	8.0
20	20	30.9	25.0	31.0	25.0	8.0
21	21	35.4	30.0	33.0	25.0	8.0
22	22	35.4	30.0	33.0	25.0	8.0
23	23	35.4	30.0	35.0	27.0	8.0
24	24	35.4	30.0	35.0	27.0	8.0
25	25	38.2	33.0	36.0	27.0	8.5
26	26	38.2	33.0	36.0	27.0	8.5
28	28	43.3	38.0	40.0	29.0	9.0
30	30	43.3	38.0	43.0	30.0	9.0
32	32	43.3	45.0	46.0	30.0	9.0
33	33	53.5	45.0	46.0	39.0	11.5
34	34	53.5	45.0	49.0	39.0	11.5
35	35	53.5	45.0	49.0	39.0	11.5
36	36	53.5	45.0	49.0	39.0	11.5
37	37	53.5	45.0	49.0	39.0	11.5
38	38	60.5	52.0	53.0	39.0	11.5
40	40	60.5	52.0	56.0	39.0	11.5
42	42	60.5	52.0	59.0	39.0	11.5
43	43	60.5	52.0	59.0	39.0	11.5
44	44	65.5	57.0	61.0	41.0	11.5
45	45	65.5	57.0	61.0	41.0	11.5
48	48	65.5	57.0	64.0	41.0	11.5
50	50	72.5	64.0	66.0	45.0	11.5
55	55	72.5	64.0	71.0	47.0	11.5
60	60	79.3	72.0	78.0	49.0	11.5
65	65	84.5	77.0	84.0	51.0	11.5
70	70	89.5	82.0	89.0	51.0	11.5
75	75	94.5	87.0	98.0	57.0	11.5
80	80	99.5	92.0	100.0	59.0	11.5
85	85	105.5	98.0	107.5	59.0	13.5
90	90	111.5	105.0	111.0	62.0	13.5
95	95	116.5	110.0	119.0	62.0	13.5
100	100	119.5	114.0	123.8	75.0	13.5



Performance Capabilities

Temperature:
-20°C to 150°C , dependent on the elastomer

Pressure:
Up to 10 bar

Speed:
Up to 12 m/s

End play/axial float allowance:
±0.1mm

Sizes

5/8" to 4"

Materials Combination

Face:
Carbon, SiC, TC

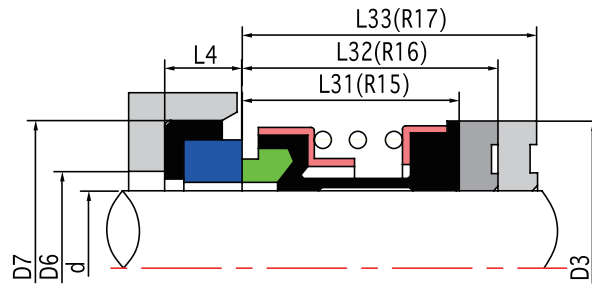
Seat:
Ceramic, SiC, TC

Bellow:
NBR, EPDM, VITON etc.

Spring:
SS304, SS316

Metal parts:
SS304, SS316

size (inch)	size	d	D7	D6	D3	L3	L4
0.500	12	12	25.40	19.05	23.80	30.16	7.93
	14	14	31.75	23.80	27.76	33.32	10.28
0.625	16	16	31.75	23.80	27.76	33.32	10.28
0.750	18	18	34.93	26.98	30.94	33.32	10.28
	20	20	38.10	30.15	34.11	34.93	10.28
0.875	22	22	38.10	30.15	34.11	34.93	10.28
	24	24	41.28	33.32	38.10	39.67	11.10
1.000	25	25	41.28	33.32	38.10	39.67	11.10
1.125	28	28	44.44	36.50	41.28	41.28	11.10
	30	30	47.63	37.90	46.02	41.28	11.10
1.250	32	32	47.63	37.90	46.02	41.28	11.10
	33	33	50.80	42.84	48.68	42.85	11.00
1.375	35	35	50.80	42.84	48.68	42.85	11.00
1.500	38	38	53.98	46.05	51.85	42.85	11.00
1.625	40	40	60.38	50.80	58.10	50.80	12.70
	43	43	63.50	53.97	61.27	50.80	12.70
1.750	45	45	63.50	53.97	61.27	50.80	12.70
1.875	48	48	66.68	57.15	64.44	53.98	12.70
	48	48	69.85	60.32	67.21	53.98	12.70
2.000	50	50	69.85	60.32	67.21	53.98	12.70
2.125	53	53	76.20	60.32	72.02	60.33	14.28
2.250	55	55	79.38	61.90	75.30	60.33	14.28
2.375	60	60	82.55	67.39	78.30	63.50	14.28
2.500	63	63	85.73	68.25	81.54	63.50	14.28
2.625	65	65	85.73	71.24	86.22	69.85	15.90
2.750	70	70	88.90	74.60	89.40	73.03	15.90
2.875	73	73	95.25	77.77	92.57	73.03	15.90
3.000	75	75	98.43	80.95	95.75	73.03	15.90
3.125	-	-	101.60	-	101.60	79.38	19.84
3.250	-	-	104.78	-	104.80	79.38	19.84
3.375	-	-	107.95	-	107.90	79.38	19.84
3.500	-	-	111.13	-	111.00	79.38	19.84
3.625	-	-	114.30	-	114.30	82.55	19.84
3.750	-	-	117.48	-	117.48	82.55	19.84
3.875	-	-	120.65	-	120.65	85.73	19.84
4.000	-	-	123.83	-	123.80	85.73	19.84



size	d	D3	D6	D7	L31	L32	L33	L4
10	10	20	15	21	15	27.5	35.0	5.0
12	12	22	17	23	15	26.5	34.0	6.0
14	14	24	19	25	15	29.0	34.0	6.0
15	15	25	20	26	15	29.0	34.0	6.0
16	16	26	23	27	15	29.0	34.0	6.0
18	18	32	25	33	20	31.5	39.0	6.0
20	20	34	27	35	20	31.5	39.0	6.0
22	22	36	29	37	20	31.5	39.0	6.0
24	24	38	31	39	20	34.0	44.0	6.0
25	25	39	32	40	20	34.0	44.0	6.0
28	28	42	35	43	26	36.5	44.0	6.0
30	30	44	37	45	26	35.5	43.0	7.0
32	32	46	40	48	26	35.5	48.0	7.0
33	33	47	40	48	26	35.5	48.0	7.0
35	35	49	42	50	26	34.5	47.0	8.0
38	38	54	47	56	30	37.0	47.0	8.0
40	40	56	49	58	30	37.0	47.0	8.0
43	43	59	52	61	30	37.0	52.0	8.0
45	45	61	54	63	30	37.0	52.0	8.0
48	48	64	57	66	30	35.0	50.0	10.0
50	50	66	60	70	30	37.5	50.0	10.0
53	53	69	63	73	30	37.5	60.0	10.0
55	55	71	65	75	30	37.5	60.0	10.0
58	58	78	68	78	33	42.5	60.0	10.0
60	60	80	70	80	33	40.5	58.0	12.0
63	63	83	73	83	33	40.5	58.0	12.0
65	65	85	75	85	33	40.5	68.0	12.0
68	68	88	79	90	33	40.5	68.0	12.0
70	70	90	81	92	33	48.0	68.0	12.0
75	75	99	86	97	40	48.0	68.0	12.0
80	80	104	92	105	40	47.5	77.5	12.5
85	85	109	97	110	40	47.5	77.5	12.5
90	90	114	102	115	40	52.5	77.5	12.5
95	95	119	117	120	40	52.5	77.5	12.5
100	100	124	122	125	40	52.5	77.5	12.5

Performance Capabilities

Temperature:

-40°C to 150°C , dependent on the elastomer

Pressure:

Up to 12 bar

Speed:

Up to 13 m/s

End play/axial float

allowance:
±0.1mm

Sizes

10mm to 100mm
3/8" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

Bellows:

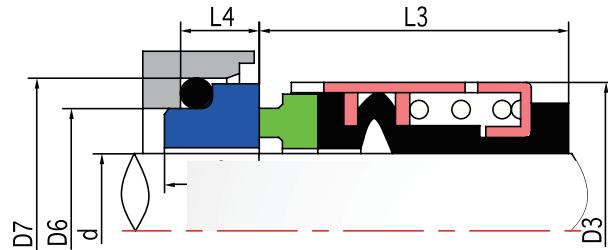
NBR, EPDM, VITON etc.

Spring:

SS304, SS316

Metal parts:

SS304, SS316



size	d	D6	D7	D3	L3	L4	L6
14	14	21	25	24	23.0	12.0	12.8
16	16	23	27	26	23.0	12.0	12.8
18	18	27	33	32	24.0	13.5	14.5
20	20	29	35	34	24.0	13.5	14.5
22	22	31	37	36	24.0	13.5	14.5
24	24	33	39	38	26.7	13.3	14.3
25	25	34	40	39	27.0	13.0	14.0
28	28	37	43	42	30.0	12.5	13.5
30	30	39	45	44	30.5	12.0	13.0
32	32	42	48	46	30.5	12.0	13.0
33	33	42	48	47	30.5	12.0	13.0
35	35	44	50	49	30.5	12.0	13.0
38	38	49	56	54	32.0	13.0	14.0
40	40	51	58	56	32.0	13.0	14.0
43	43	54	61	59	32.0	13.0	14.0
45	45	56	63	61	32.0	13.0	14.0
48	48	59	66	64	32.0	13.0	14.0
50	50	62	70	66	34.0	13.5	14.5
53	53	65	73	69	34.0	13.5	14.5
55	55	67	75	71	34.0	13.5	14.5
58	58	70	78	78	39.0	13.5	14.2
60	60	72	80	80	39.0	13.5	14.2
63	63	75	83	83	39.0	13.5	14.2
65	65	77	85	85	39.0	13.5	14.2
68	68	81	90	88	39.0	13.5	14.2
70	70	83	92	89	45.5	14.5	15.2
75	75	88	97	96	45.5	14.5	15.2
80	80	95	105	104	45.0	15.0	15.7
85	85	100	110	108	45.0	15.0	15.7
90	90	105	115	114	50.0	15.0	15.7
95	95	110	120	118	50.0	15.0	15.7
100	100	115	125	124	50.0	15.0	15.7

Performance Capabilities

Temperature:
-30°C to 200°C , dependent on the elastomer

Pressure:
Up to 12 bar

Speed:
Up to 12 m/s

End play/axial float allowance:
±0.1mm

Sizes

14mm to 100mm

Materials Combination

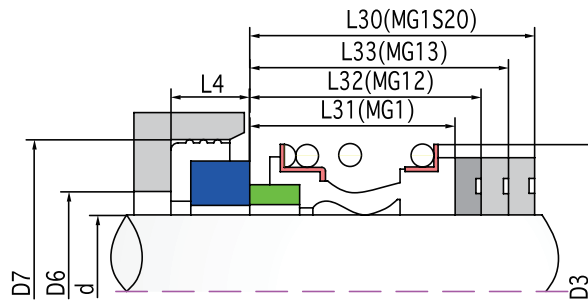
Face:
Carbon, SiC, TC

Seat:
Ceramic, SiC, TC

Bellows:
NBR, EPDM, VITON etc.

Spring:
SS304, SS316

Metal parts:
SS304, SS316



size	d	D3	D6	D7	L31	L32	L33	L30	L4
10	10	22.5	17.0	21.0	14.5	25.9	33.4	25.0	6.6
12	12	25.0	19.0	23.0	15.0	25.9	33.4	25.0	6.6
14	14	28.5	21.0	25.0	17.0	28.4	33.4	25.0	6.6
15	15	28.5	-	-	17.0	28.4	33.4	25.0	-
16	16	28.5	23.0	27.0	17.0	28.4	33.4	25.0	6.6
18	18	32.0	27.0	33.0	19.5	30.0	37.5	25.0	7.5
19	19	37.0	-	-	21.5	30.0	37.5	25.0	-
20	20	37.0	29.0	35.0	21.5	30.0	37.5	25.0	7.5
22	22	37.0	31.0	37.0	21.5	30.0	37.5	25.0	7.5
24	24	42.5	33.0	39.0	22.5	32.5	42.5	25.0	7.5
25	25	42.5	34.0	40.0	23.0	32.5	42.5	25.0	7.5
28	28	49.0	37.0	43.0	26.5	35.0	42.5	33.0	7.5
30	30	49.0	39.0	45.0	26.5	35.0	42.5	33.0	7.5
32	32	53.5	42.0	48.0	27.5	35.0	47.5	33.0	7.5
33	33	53.5	42.0	48.0	27.5	35.0	47.5	33.0	7.5
35	35	57.0	44.0	50.0	28.5	35.0	47.5	33.0	7.5
38	38	59.0	49.0	56.0	30.0	36.0	46.0	33.0	9.0
40	40	62.0	51.0	58.0	30.0	36.0	46.0	33.0	9.0
42	42	65.5	-	-	30.0	36.0	51.0	41.0	-
43	43	65.5	54.0	61.0	30.0	36.0	51.0	41.0	9.0
45	45	68.0	56.0	63.0	30.0	36.0	51.0	41.0	9.0
48	48	70.5	59.0	66.0	30.5	36.0	51.0	41.0	9.0
50	50	74.0	62.0	70.0	30.5	38.0	50.5	41.0	9.5
53	53	78.5	65.0	73.0	33.0	36.5	59.0	41.0	11.0
55	55	81.0	67.0	75.0	35.0	36.5	59.0	41.0	11.0
58	58	85.5	70.0	78.0	37.0	41.5	59.0	41.0	11.0
60	60	88.5	72.0	80.0	38.0	41.5	59.0	41.0	11.0
65	65	93.5	77.0	85.0	40.0	41.5	69.0	49.0	11.0
68	68	96.5	81.0	90.0	40.0	41.2	68.7	49.0	11.3
70	70	99.5	83.0	92.0	40.0	48.7	68.7	49.0	11.3
75	75	107.0	88.0	97.0	40.0	48.7	68.7	52.0	11.3
80	80	112.0	95.0	105.0	40.0	48.0	78.0	56.0	12.0
85	85	120.0	100.0	110.0	41.0	46.0	76.0	56.0	14.0
90	90	127.0	105.0	115.0	45.0	51.0	76.0	59.0	14.0
95	95	132.0	110.0	120.0	46.0	51.0	76.0	59.0	14.0
100	100	137.0	115.0	125.0	47.0	51.0	76.0	62.0	14.0

Performance Capabilities

Temperature:

-30°C to 200°C , dependent on the elastomer

Pressure:

Up to 12 bar

Speed:

Up to 12 m/s

End play/axial float allowance:

±0.1mm

Sizes

10mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

Bellows:

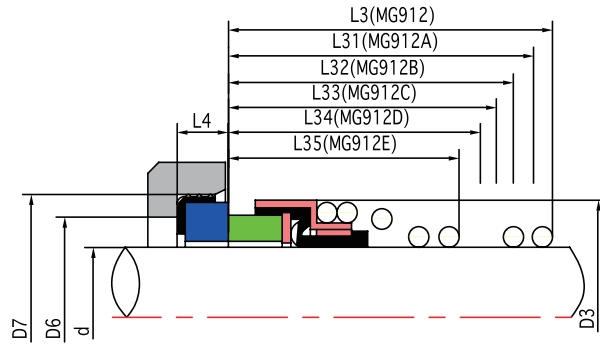
NBR, EPDM, VITON etc.

Spring:

SS304, SS316

Metal parts:

SS304, SS316



Performance Capabilities

Temperature:

-20°C to 150°C, dependent on the elastomer

Pressure:

Up to 8 bar

Speed:

Up to 10 m/s

End play/axial float allowance:

±0.1mm

Sizes

10mm to 100mm

Materials Combination

Face:

Carbon, SiC, TC

Seat:

Ceramic, SiC, TC

Bellow:

NBR, EPDM, VITON etc.

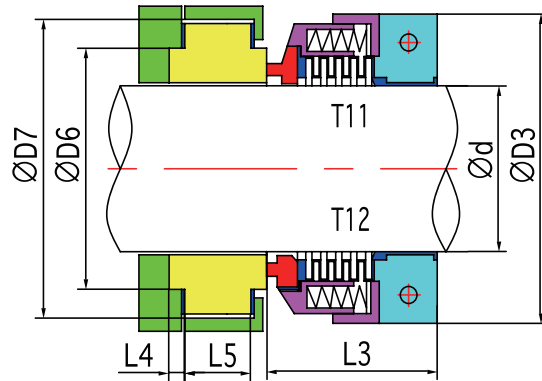
Spring:

SS304, SS316

Metal parts:

SS304, SS316

size	d	D3	D6	D7	L31	L32	L33	L34	L4
10	10	19.6	17.0	21.0	44.0	33.4	25.9	25.0	6.6
12	12	21.6	19.0	23.0	44.0	33.4	25.9	25.0	6.6
14	14	24.0	21.0	25.0	44.0	33.4	28.4	25.0	6.6
15	15	25.0	-	-	44.0	-	-	25.0	-
16	16	26.5	23.0	27.0	44.0	33.4	28.4	25.0	6.6
18	18	29.0	27.0	33.0	44.0	37.5	30.0	25.0	7.5
20	20	31.5	29.0	35.0	44.0	37.5	30.0	25.0	7.5
22	22	33.0	31.0	37.0	44.0	37.5	30.0	25.0	7.5
24	24	37.0	33.0	39.0	44.0	42.5	32.5	25.0	7.5
25	25	38.0	34.0	40.0	44.0	42.5	32.5	25.0	7.5
28	28	41.0	37.0	43.0	60.0	42.5	35.0	33.0	7.5
30	30	43.0	39.0	45.0	60.0	42.5	35.0	33.0	7.5
32	32	45.0	42.0	48.0	60.0	47.5	35.0	33.0	7.5
33	33	46.0	42.0	48.0	60.0	47.5	35.0	33.0	7.5
35	35	48.0	44.0	50.0	60.0	47.5	35.0	33.0	7.5
38	38	52.5	49.0	56.0	60.0	46.0	36.0	33.0	9.0
40	40	55.5	51.0	58.0	60.0	46.0	36.0	33.0	9.0
43	43	58.5	54.0	61.0	71.0	51.0	36.0	41.0	9.0
45	45	60.5	56.0	63.0	71.0	51.0	36.0	41.0	9.0
48	48	64.0	59.0	66.0	71.0	51.0	36.0	41.0	9.0
50	50	66.0	62.0	70.0	72.5	50.5	38.0	42.5	9.5
53	53	69.0	65.0	73.0	71.0	59.0	36.5	41.0	11.0
55	55	71.0	67.0	75.0	71.0	59.0	36.5	41.0	11.0
58	58	76.0	70.0	78.0	71.0	59.0	41.5	41.0	11.0
60	60	78.0	72.0	80.0	71.0	59.0	41.5	41.0	11.0
63	63	82.0	75.0	83.0	-	59.0	41.5	-	11.0
65	65	84.0	77.0	85.0	70.0	69.0	41.5	49.0	11.0
68	68	87.0	81.0	90.0	70.0	68.7	41.2	49.0	11.3
70	70	89.0	83.0	92.0	70.0	68.7	48.7	49.0	11.3
75	75	95.0	88.0	97.0	73.0	68.7	48.7	52.0	11.3
80	80	101.5	95.0	105.0	79.0	78.0	48.0	56.0	12.0
85	85	-	100.0	110.0	79.0	76.0	46.0	56.0	14.0
90	90	111.5	105.0	115.0	83.0	76.0	51.0	59.0	14.0
95	95	-	110.0	120.0	83.0	76.0	51.0	59.0	14.0
100	100	122.5	115.0	125.0	86.0	76.0	51.0	62.0	14.0



size	d	D3	D7	D6	L5	L3	L4
16	16	54	48	36.51	8	31	4.8
18	18	54	48	36.51	8	31	4.8
20	20	57	51	39.69	8	31	4.8
22	22	57	51	39.69	8	31	4.8
24	24	61	54	42.86	8	33	4.8
25	25	61	54	42.86	8	33	4.8
28	28	67	65	50.80	11	36	8.0
30	30	70	68	53.98	11	37	8.0
32	32	70	68	53.98	11	37	8.0
33	33	73	71	57.15	11	38	8.0
35	35	73	71	57.15	11	38	8.0
38	38	76	78	63.50	11	38	8.0
40	40	80	81	66.68	11	40	8.0
43	43	83	84	69.85	11	40	8.0
45	45	83	84	69.85	11	40	8.0
48	48	89	97	79.38	14.3	43	9.5
50	50	89	97	79.38	14.3	43	9.5
53	53	103	100	82.55	14.3	53	9.5
55	55	107	103	85.73	14.3	53	9.5
58	58	110	106	88.90	14.3	53	9.5
60	60	110	106	88.90	14.3	53	9.5
63	63	113	110	92.08	14.3	53	9.5
65	65	116	113	95.25	14.3	53	9.5
68	68	118	116	98.43	14.3	53	9.5
70	70	118	116	98.43	14.3	53	9.5
75	75	126	121	103.19	14.3	53	9.5
80	80	150	132	114.30	14.3	73	9.5
85	85	156	138	120.65	14.3	73	9.5
90	90	163	144	127.00	14.3	73	9.5
95	95	163	144	127.00	14.3	73	9.5
100	100	169	151	133.35	14.3	73	9.5

size (inch)	d	D3	D7	D6	L5	L3	L4
0.75"	19.0	54	48	36.51	8	31	4.8
0.875"	22.2	57	51	39.69	8	31	4.8
1"	25.4	61	54	42.86	8	33	4.8
1.125"	28.5	67	65	50.86	11	36	8.0
1.25"	31.7	70	68	53.98	11	37	8.0
1.375"	34.9	73	71	57.15	11	38	8.0
1.5"	38.1	76	78	63.50	11	38	8.0
1.625"	41.2	80	81	66.68	11	40	8.0
1.75"	44.4	83	84	69.85	11	40	8.0
1.875"	47.6	86	87	73.03	11	43	8.0
2"	50.8	89	97	79.38	14.3	43	9.5
2.125"	53.9	103	100	82.55	14.3	53	9.5
2.25"	57.1	107	103	85.73	14.3	53	9.5
2.375"	60.3	110	106	88.90	14.3	53	9.5
2.5"	63.5	113	110	92.08	14.3	53	9.5
2.625"	66.6	116	113	95.25	14.3	53	9.5
2.75"	69.8	118	116	98.43	14.3	53	9.5
2.875"	73.0	122	117	100.01	14.3	53	9.5
3"	76.2	126	121	103.19	14.3	53	9.5
3.25"	82.5	150	132	114.30	14.3	73	9.5
3.5"	88.9	156	138	120.65	14.3	73	9.5
3.75"	95.2	163	144	127.00	14.3	73	9.5
4"	101.6	169	151	133.35	14.3	73	9.5
68	68	118	116	98.43	14.3	53	9.5
70	70	118	116	98.43	14.3	53	9.5
75	75	126	121	103.19	14.3	53	9.5
80	80	150	132	114.30	14.3	73	9.5
85	85	156	138	120.65	14.3	73	9.5
90	90	163	144	127.00	14.3	73	9.5
95	95	163	144	127.00	14.3	73	9.5
100	100	169	151	133.35	14.3	73	9.5

Performance Capabilities

Temperature:
120°C max.

Pressure:
Up to 0.5 bar

Speed:
Up to 10 m/s

End play/axial float allowance:
±0.1mm

Sizes

16mm to 100mm
0.75" to 4"

Materials Combination

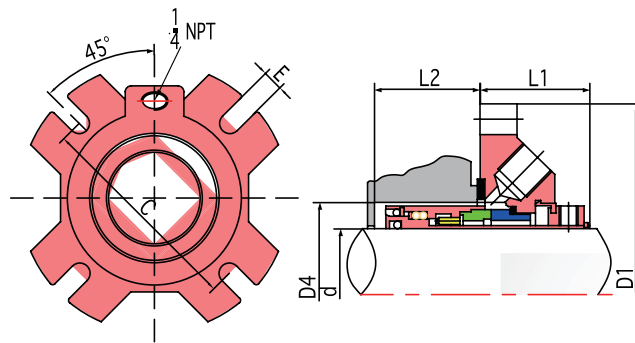
Face:
PTFE glassfibre, Carbon, SiC, TC

Seat:
Ceramic, SiC, TC

Bellows:
PTFE

Spring:
SS316, hastelloy C

Metal parts:
SS304, SS316



size	D4		D1	L1	L2	C		E
	MIN	MAX				MIN	MAX	
24	40.0	49.2	104.8	37.5	32.0	66.7	95.3	11.1
25	41.0	49.2	104.8	37.5	32.0	66.7	95.3	11.1
28	44.0	52.4	108.0	37.5	32.0	69.9	98.4	11.1
30	46.0	55.6	111.0	37.5	32.0	73.0	101.6	11.1
32	47.6	55.6	111.0	37.5	32.0	73.0	101.6	11.1
33	49.0	58.7	114.3	37.5	32.0	77.8	104.8	11.1
35	50.8	58.7	114.3	37.5	32.0	77.8	104.8	11.1
38	57.2	63.5	127.0	38.5	33.0	87.3	114.3	14.3
40	60.0	63.5	127.0	38.5	33.0	87.3	114.3	14.3
43	63.0	66.7	133.4	38.5	33.0	90.5	120.7	14.3
45	63.5	66.7	133.4	38.5	33.0	90.5	120.7	14.3
48	66.7	76.2	139.7	38.5	33.0	98.4	127.0	14.3
50	69.8	76.2	139.7	38.5	33.0	98.4	127.0	14.3
53	73.0	84.1	146.0	38.5	33.0	111.1	130.2	17.5
55	73.0	84.1	146.0	38.5	33.0	111.1	130.2	17.5
58	79.4	90.5	152.4	38.5	33.0	117.5	136.5	17.5
60	79.4	90.5	152.4	38.5	33.0	117.5	136.5	17.5
63	82.6	98.4	158.8	39.0	36.0	123.8	142.9	17.5
65	88.9	98.4	158.8	39.0	36.0	123.8	142.9	17.5
70	95.0	98.4	158.8	39.0	36.0	123.8	142.9	17.5
75	101.6	114.3	206.0	46.0	42.5	145.0	167.0	20.6
80	108.0	120.6	206.0	46.0	42.5	151.0	167.0	20.6
85	111.0	123.8	206.0	46.0	42.5	154.0	167.0	20.6
90	117.5	130.0	216.0	46.0	42.5	160.0	177.0	20.6
95	120.7	133.4	246.0	46.0	42.5	164.0	207.0	20.6
100	127.0	140.0	246.0	46.0	42.5	171.0	207.0	20.6
105	133.4	150.0	246.0	62.0	44.0	181.0	223.0	20.6
110	139.7	155.0	246.0	62.0	44.0	188.0	223.0	20.6
115	139.7	155.0	246.0	62.0	44.0	188.0	223.0	20.6
120	146.1	162.0	266.0	62.0	44.0	194.0	223.0	20.6
125	160.0	176.0	266.0	62.0	44.0	210.0	253.0	20.6
130	160.0	176.0	266.0	62.0	44.0	210.0	253.0	20.6
135	174.0	190.0	299.0	62.0	44.0	226.0	275.0	23.8
140	174.0	190.0	299.0	62.0	44.0	226.0	275.0	23.8

Performance Capabilities

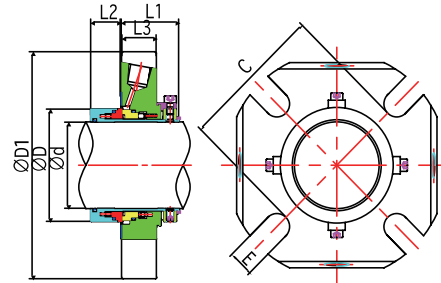
- Temperature:**
-20°C to 150°C, dependent on the elastomer
- Pressure:**
Up to 4 bar
- Speed:**
Up to 10 m/s
- End play/axial float allowance:**
±0.1mm

Sizes

24mm to 140mm

Materials Combination

- Face:**
Carbon, SiC, TC
- Seat:**
Ceramic, SiC, TC
- Bellows:**
NBR, EPDM, VITON etc.
- Spring:**
SS304, SS316
- Metal parts:**
SS304, SS316



Performance Capabilities

Temperature:

-40°C to 220°C, dependent on the elastomer

Pressure:

Up to 15 bar

Speed:

Up to 20 m/s

End play/axial float allowance:

±0.1mm

Sizes

25mm to 100mm
1" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

SiC, TC

Bellow:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS316, hastelloy C

Metal parts:

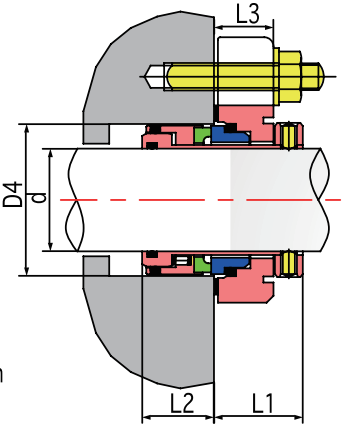
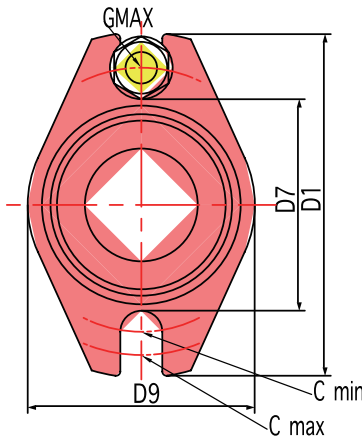
SS304, SS316

size	d	D	D1	L1	L2	L3	C	E
25	25	43	105	42.4	24.6	25.4	62	13.2
28	28	46	105	42.4	24.6	25.4	62	13.2
30	30	48	105	42.4	24.6	25.4	65	13.2
32	32	49.8	108	42.4	24.6	25.4	67	13.2
33	33	49.8	108	42.4	24.6	25.4	67	13.2
35	35	53	113	42.4	24.6	25.4	70	13.2
38	38	56	123	42.4	24.6	25.4	75	13.2
40	40	58	123	42.4	24.6	25.4	75	14.2
42	42	60.5	133	42.4	24.6	25.4	80	14.2
43	43	60.5	133	42.4	24.6	25.4	80	14.2
45	45	62.5	138	42.4	24.6	25.4	81	14.2
48	48	65.6	138	42.4	24.6	25.4	84	14.2
50	50	68	148	42.4	24.6	25.4	87	14.2
53	53	72	148	42.4	24.6	25.4	90	18
55	55	73	148	42.4	24.6	25.4	90	18
60	60	78	157	42.4	24.6	25.4	102	18
65	65	84.8	163	42.4	24.6	25.4	109	18
70	70	93	178	42.4	24.6	25.4	118	18
75	75	100	190	57.4	26.6	28	129	18
80	80	106.4	195	57.4	26.6	28	135	18
85	85	109.5	198	57.4	26.6	28	139	22
90	90	115.9	205	57.4	26.6	28	145	22
95	95	119.1	208	57.4	26.6	28	148	22
100	100	125.4	218	57.4	26.6	28	154	22

size(inch)	d	D	D1	L1	L2	L3	C	E
1"	1	1.693	4.134	1.669	0.969	1	2.44	0.52
1.125"	1.125	1.811	4.134	1.669	0.969	1	2.44	0.52
1.25"	1.25	1.96	4.33	1.669	0.969	1	2.64	0.52
1.375"	1.375	2.086	4.449	1.669	0.969	1	2.75	0.52
1.5"	1.5	2.2	4.842	1.669	0.969	1	2.95	0.52
1.625"	1.625	2.34	4.842	1.669	0.969	1	3.03	0.599
1.75"	1.75	2.46	5.433	1.669	0.969	1	3.19	0.599
1.875"	1.875	2.582	5.433	1.669	0.969	1	3.19	0.599
2"	2	2.677	5.827	1.669	0.969	1	3.43	0.599
2.125"	2.125	2.834	5.827	1.669	0.969	1	3.82	0.709
2.25"	2.25	2.96	6.181	1.669	0.969	1	3.94	0.709
2.375"	2.375	3.07	6.181	1.669	0.969	1	4.02	0.709
2.5"	2.5	3.212	6.417	1.669	0.969	1	4.17	0.709
2.625"	2.625	3.338	6.417	1.669	0.969	1	4.29	0.709
2.75"	2.75	3.66	7.008	1.669	0.969	1	4.65	0.709
2.875"	2.875	3.811	7.283	2.26	1.047	1	4.96	0.709
3"	3	3.937	7.48	2.26	1.047	1.102	5.079	0.709
3.125"	3.125	4.063	7.677	2.26	1.047	1.102	5.197	0.709
3.25"	3.25	41.89	7.677	2.26	1.047	1.102	5.315	0.709
3.375"	3.375	4.311	7.795	2.26	1.047	1.102	5.472	0.866
3.5"	3.5	4.437	7.795	2.26	1.047	1.102	5.591	0.866
3.625"	3.625	4.563	8.071	2.26	1.047	1.102	5.709	0.866
3.75"	3.75	4.689	8.189	2.26	1.047	1.102	5.827	0.866
4"	4	4.937	8.583	2.26	1.047	1.102	6.063	0.866

CONVERTER II BB

SINGLE CARTRIDGE SEALS



Performance Capabilities

Temperature:

-40°C to 220°C , dependent on the elastomer

Pressure:

Up to 15 bar

Speed:

Up to 20 m/s

End play/axial float allowance:

±0.1mm

Sizes

24mm to 100mm
1" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

SiC, TC

Bellow:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

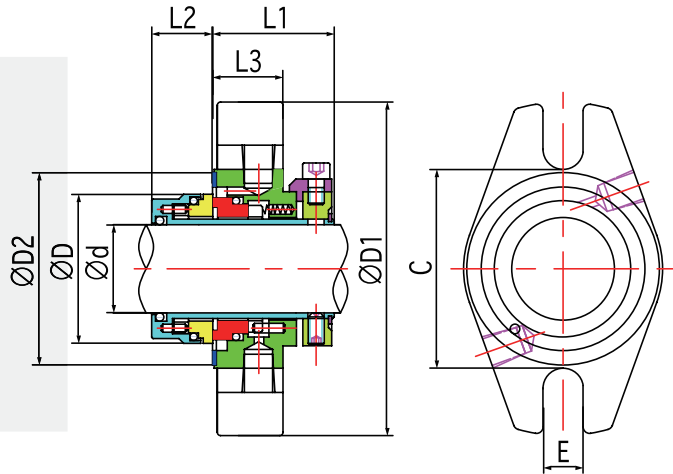
Spring:

SS316, hastelloy C

Metal parts:

SS304, SS316

size	d	D1	D7	D9	L3	D4		C		L2	L1
						min	max	min	max		
24	24	101.6	55.6	20.7	56.1	40.0	48.0	69.9	88.9	28.6	31.8
25	25	101.6	55.6	20.7	56.1	41.0	48.0	69.9	88.9	28.6	31.8
28	28	104.8	58.8	20.7	59.3	44.0	50.0	73.1	92.1	28.6	31.8
30	30	108.0	61.9	20.7	62.4	46.0	54.0	76.2	95.3	28.6	31.8
32	32	108.0	61.9	20.7	62.4	48.0	54.0	76.2	95.3	28.6	31.8
33	33	108.0	61.9	20.7	62.4	49.0	55.0	76.2	95.3	28.6	31.8
35	35	108.0	66.7	20.7	67.2	51.0	59.0	81.0	95.3	28.6	31.8
38	38	114.3	71.5	22.3	72.0	57.2	62.0	85.8	101.6	28.6	33.4
40	40	114.3	71.5	22.3	72.0	58.0	64.0	85.8	101.6	28.6	33.4
43	43	120.7	74.6	22.3	75.1	61.0	67.0	88.9	108.0	28.6	33.4
45	45	127.0	77.8	23.8	78.3	63.5	69.0	92.1	114.3	30.2	35.0
48	48	133.4	81.0	23.8	81.5	66.7	72.0	95.3	120.7	30.2	35.0
50	50	133.4	81.0	23.8	81.5	68.0	74.0	95.3	120.7	30.2	35.0
53	53	139.7	84.2	25.4	84.7	71.0	77.0	101.6	123.9	30.2	36.5
55	55	146.1	87.3	25.4	87.8	74.0	79.0	104.8	130.2	30.2	36.5
58	58	165.1	95.3	25.4	98.9	79.4	85.7	115.9	146.0	30.2	36.5
60	60	165.1	95.3	25.4	98.9	79.4	85.7	115.9	146.0	30.2	36.5
63	63	177.8	111.2	25.4	121.2	85.8	101.6	131.8	158.7	28.6	41.2
65	65	177.8	111.2	25.4	121.2	88.9	101.6	131.8	158.7	28.6	41.2
68	68	177.8	111.2	25.4	121.2	92.1	101.6	131.8	158.7	28.6	41.2
70	70	177.8	111.2	25.4	121.2	92.1	101.6	131.8	158.7	28.6	41.2
75	75	190.5	125.4	31.7	130.7	98.5	114.3	146.1	171.4	30.2	50.8
80	80	190.5	125.4	31.7	130.7	101.6	114.3	146.1	171.4	30.2	50.8
85	85	203.2	135.0	31.7	140.2	108.0	123.8	155.6	184.1	30.2	50.8
90	90	215.9	144.5	31.7	149.7	114.3	133.3	165.1	196.8	30.2	50.8
95	95	215.9	144.5	31.7	149.7	117.5	133.3	165.1	196.8	30.2	50.8
100	100	228.6	154.0	31.7	156.1	123.9	139.7	174.7	209.5	30.2	50.8



Performance Capabilities

Temperature:

-40°C to 220°C, dependent on the elastomer

Pressure:

Up to 15 bar

Speed:

Up to 35 m/s

End play/axial float allowance:

±0.1mm

Sizes

24mm to 100mm
1" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

SiC, TC

Bellow:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

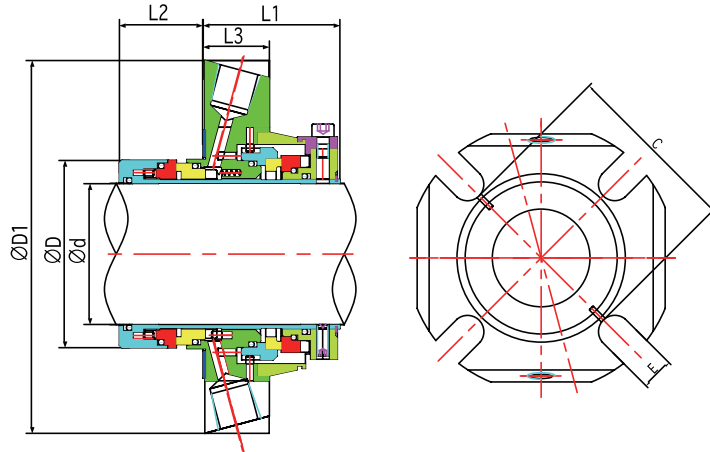
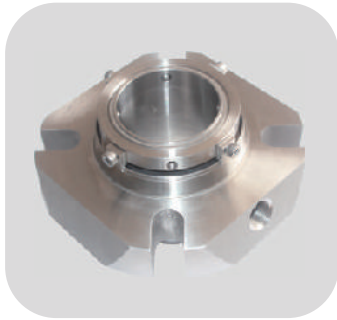
Spring:

SS316, hastelloy C

Metal parts:

SS304, SS316

size	d	C	D	D1	D2	E	L1	L2	L3
24	24	62	43.5	104	60	12.5	38	19	22
25	25	62	43.5	104	60	12.5	38	19	22
28	28	62	46.5	104	60	12.5	38	19	22
30	30	65	48.5	104	63	12.5	38	19	22
32	32	67	50	104	65	12.5	38	19	22
33	33	67	50	104	65	12.5	38	19	22
35	35	70	53.5	115	68	12.5	38	19	22
38	38	75	56.5	125	73	14.7	38	19	22
40	40	75	58.5	125	73	14.7	38	19	22
43	43	80	61.5	133	78	14.7	38	19	22
45	45	81	63.5	140	79	14.7	38	19	22
48	48	84	66.5	140	82	14.7	38	19	22
50	50	87	68.5	140	85	14.7	38	19	22
53	53	90	71.5	150	88	17.5	38	19	22
55	55	92	73.5	150	90	17.5	38	19	22
60	60	100	78.5	160	98	17.5	38	19	22
65	65	105	83.5	165	103	17.5	38	19	22
70	70	120	88.5	180	118	17.5	38	19	22
75	75	125	100	190	123	17.5	36	26	23
80	80	130	105	190	128	17.5	36	26	23
85	85	135	110	220	133	20.5	36	26	23
90	90	140	115	220	138	20.5	36	26	23
95	95	145	120	220	143	20.5	36	26	23
100	100	150	125	220	148	20.5	36	26	23



size (inch)	d	D	D1	L1	L2	L3	C	E
1"	1	1.693	4.134	2.102	1.303	1	2.44	0.52
1.125"	1.125	1.811	4.134	2.102	1.303	1	2.44	0.52
1.25"	1.25	1.96	4.33	2.102	1.303	1	2.64	0.52
1.375"	1.375	2.086	4.449	2.102	1.303	1	2.75	0.52
1.5"	1.5	2.2	4.842	2.102	1.303	1	2.95	0.52
1.625"	1.625	2.34	4.842	2.102	1.303	1	3.03	0.599
1.75"	1.75	2.46	5.433	2.102	1.303	1	3.19	0.599
1.875"	1.875	2.582	5.433	2.102	1.303	1	3.19	0.599
2"	2	2.677	5.827	2.102	1.303	1	3.43	0.599
2.125"	2.125	2.834	5.827	2.102	1.303	1	3.82	0.709
2.25"	2.25	2.96	6.181	2.102	1.303	1	3.94	0.709
2.375"	2.375	3.07	6.181	2.102	1.303	1	4.02	0.709
2.5"	2.5	3.212	6.417	2.102	1.303	1	4.17	0.709
2.625"	2.625	3.338	6.417	2.102	1.303	1	4.29	0.709
2.75"	2.75	3.66	7.008	2.102	1.303	1	4.65	0.709
2.875"	2.875	3.811	7.283	2.102	1.303	1	4.96	0.709
3"	3	3.937	7.48	2.516	1.736	1.102	5.079	0.709
3.125"	3.125	4.063	7.677	2.516	1.736	1.102	5.197	0.709
3.25"	3.25	4.189	7.677	2.516	1.736	1.102	5.315	0.709
3.375"	3.375	4.311	7.795	2.516	1.736	1.102	5.472	0.866
3.5"	3.5	4.437	7.795	2.516	1.736	1.102	5.591	0.866
3.625"	3.625	4.563	8.071	2.516	1.736	1.102	5.709	0.866
3.75"	3.75	4.689	8.189	2.516	1.736	1.102	5.827	0.866
4"	4	4.937	8.583	2.516	1.736	1.102	6.063	0.866

Performance Capabilities

Temperature:

-20°C to 250°C, dependent on the elastomer

Pressure:

Up to 25 bar

Speed:

Up to 25 m/s

End play/axial float allowance:

±1.0mm

Sizes

25mm to 100mm
1" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

SiC, TC

Bellow:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

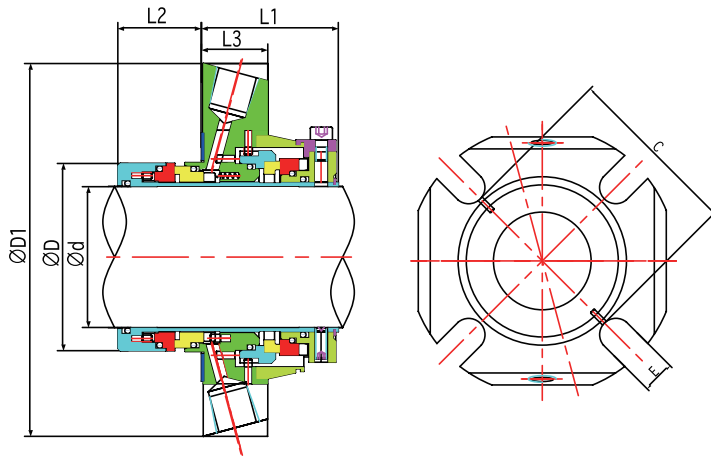
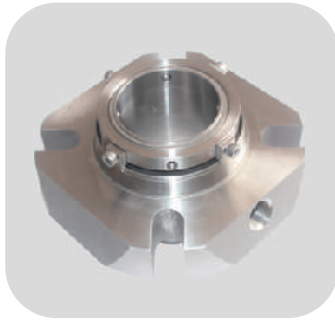
SS316, hastelloy C

Metal parts:

SS316

CARTEX DN

DOUBLE CARTRIDGE SEALS



Performance Capabilities

Temperature:

-20°C to 250°C, dependent on the elastomer

Pressure:

Up to 25 bar

Speed:

Up to 25 m/s

End play/axial float allowance:

±1.0mm

Sizes

25mm to 100mm
1" to 4"

Materials Combination

Face:

Carbon, SiC, TC

Seat:

SiC, TC

Bellow:

NBR, EPDM, VITON, Aflas, FEP, Kalrez, Chemraz etc.

Spring:

SS316, hastelloy C

Metal parts:

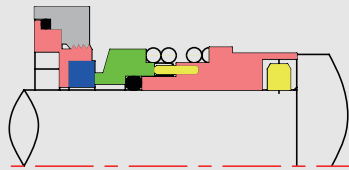
SS316

size	d	D	D1	L1	L2	L3	C	E
25	25	43	105	53.4	33.1	25.4	62	13.2
28	28	46	105	53.4	33.1	25.4	62	13.2
30	30	48	105	53.4	33.1	25.4	65	13.2
32	32	49.8	108	53.4	33.1	25.4	67	13.2
33	33	49.8	108	53.4	33.1	25.4	67	13.2
35	35	53	113	53.4	33.1	25.4	70	13.2
38	38	56	123	53.4	33.1	25.4	75	14.2
40	40	58	123	53.4	33.1	25.4	75	14.2
42	42	60.5	133	53.4	33.1	25.4	80	14.2
43	43	60.5	133	53.4	33.1	25.4	80	14.2
45	45	62.5	138	53.4	33.1	25.4	81	14.2
48	48	65.6	138	53.4	33.1	25.4	84	14.2
50	50	68	148	53.4	33.1	25.4	87	14.2
53	53	72	148	53.4	33.1	25.4	97	18
55	55	73	148	53.4	33.1	25.4	90	18
60	60	78	157	53.4	33.1	25.4	102	18
65	65	84.8	163	53.4	33.1	25.4	109	18
70	70	93	178	53.4	33.1	25.4	118	18
75	75	100	190	63.9	44.1	28	129	18
80	80	106.4	195	63.9	44.1	28	135	18
85	85	109.5	198	63.9	44.1	28	139	22
90	90	115.9	205	63.9	44.1	28	145	22
95	95	119.1	208	63.9	44.1	28	148	22
100	100	125.4	218	63.9	44.1	28	154	22

E91-32/E91D-32/E92A-22

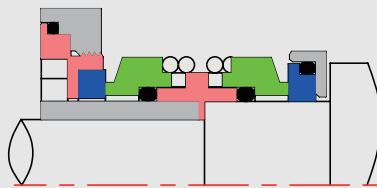
OEM SEALS (E SERIES)

E91-32 is single seals for alfa laval pumps



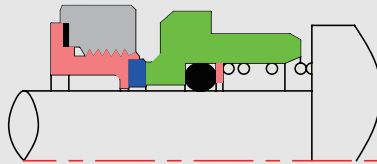
Materials Combination
Face: Carbon, SiC, TC
Seat: SS304, SS316, Ceramic, SiC, TC
O-rings: NBR, EPDM, VITON,
Spring: SS304, SS316
Metal parts: SS304, SS316

E91D-32 is double seals for alfa laval pumps



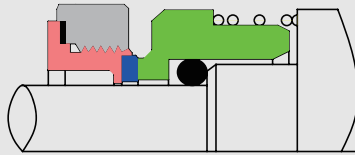
Materials Combination
Face: Carbon, SiC, TC
Seat: SS304, SS316, Ceramic, SiC, TC
O-rings: NBR, EPDM, VITON,
Spring: SS304, SS316
Metal parts: SS304, SS316

E92A-22 seals for alfa laval pumps



Materials Combination
Face: Carbon, SiC, TC
Seat: SS304, SS316, Ceramic, SiC, TC
O-rings: NBR, EPDM, VITON,
Spring: SS304, SS316
Metal parts: SS304, SS316

E92B-22 seals for alfa laval pumps



Materials Combination

Face:

Carbon, SiC, TC

Seat:

SS304, SS316, Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON,

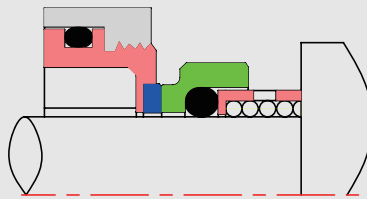
Spring:

SS304, SS316

Metal parts:

SS304, SS316

E93A-22 seals for alfa laval pumps



Materials Combination

Face:

Carbon, SiC, TC

Seat:

SS304, SS316, Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON,

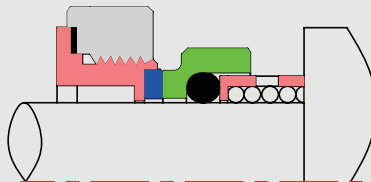
Spring:

SS304, SS316

Metal parts:

SS304, SS316

E93B-22 seals for alfa laval pumps



Materials Combination

Face:

Carbon, SiC, TC

Seat:

SS304, SS316, Ceramic, SiC, TC

O-rings:

NBR, EPDM, VITON,

Spring:

SS304, SS316

Metal parts:

SS304, SS316

● Coupling Products



Tyre Coupling



SM Spacer Coupling



Jaw Coupling



Jaw Spacer Coupling



CJ Coupling



Flange Type CJ Coupling



Taper Bore CJ Coupling



Clamp CJ Coupling



S-Flex Coupling



S-Flex Spacer Coupling



R Coupling



Taper Bore R Coupling



Pilot Bore Sypt Coupling



Taper Bore Sypt Coupling



HRC Coupling



FCL Coupling



Cone Ring Coupling



Taper Bore Cone Ring Coupling



Spacer Cone Ring Coupling



Universal Joint Coupling

Coupling Products



H-EUPEX Coupling Type B



H-EUPEX Coupling Type A



H-EUPEX Spacer Coupling



RM Spacer Coupling



Rigid Coupling



NORMEX Coupling



NM Coupling



Gear Coupling



PIN & DISK Coupling



Chain Coupling



Grid Coupling



ML Coupling



Disk Coupling



Disk Spacer Coupling



Flywheel Spacer Disk Coupling



Miniature Coupling



Nylon Sleeve Coupling



Nylon Pin Coupling



Clamping Coupling



MH Coupling

Pulley Products



Taper Bushing Pulley



American Standard Pulley



Large Pulley



Timing Belt Pulley

More Power Transmission Products



Sprocket



TB/QD Bushing



Bolt-On-Hubs



Weld-On-Hubs



Locking Element



MP Motor Base



Adjustable Motor Base



Motor Slider Rail

Element Products



Coupling's Tyre



CJ Coupling Spider



NM Spider



ML Coupling Spider



Cong ring coupling PIN NUT & RUBBERS



S-FLEX Sleeve



PIN Coupling DISK



R Coupling Spider & Cover



HRC Coupling Spider



Jaw Coupling Spider



Nylon Sleeve



High Elastic Spider



H Coupling Spider



FCL Bolt & Bush

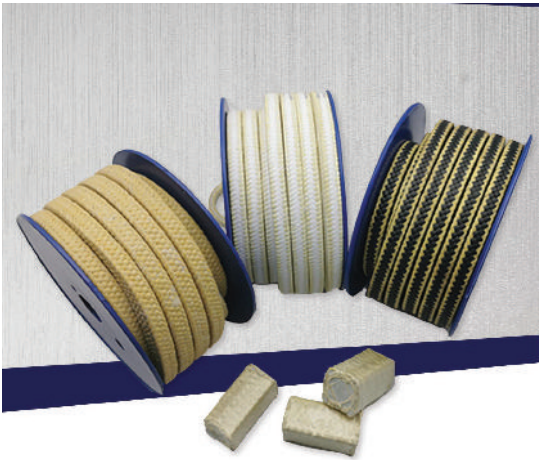


MH Spider



V-belt

COMPRESSION PACKINGS



PRODUCT RANGE

- Compression Packings
- Fugitive Emissions Packings
- High Temperature Packings
- High Temperature Stem Sets
- Valve Stem Sets
- Die-Formed Rings

A full range of compression packings is available, designed specifically for valve, rotary pump, and reciprocating pump applications.

Manufactured using state-of-the-art production methods and premium materials, these packings provide a reliable, high-integrity seal in the most demanding industrial environments. Material compositions include PTFE, graphite, carbon fiber, glass, and synthetic fibers, offered in various configurations to meet precise operational requirements.

For high-performance valve applications, exfoliated graphite die-formed rings can be produced in virtually any size, cross-section, or density to ensure optimal fit and performance.

CUSTOMIZE SILICONE CARBIDE BUSH

