



MECHANICAL SEALING SOLUTIONS

CATALOGUE 2013

CARTRIDGE SEALS

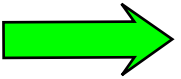
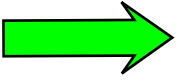
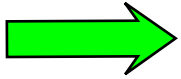
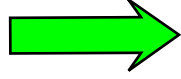
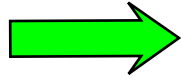
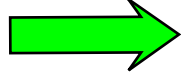


COMPONENT SEALS





INDEX :

-  : EQUIVALENT CODES
-  : CONVERSION CHART
METRIC <> INCHES
-  : PHOTO GUIDE - CLICK PHOTO TO VIEW
-  : CARTRIDGE OVERVIEW
-  : SPECIALITY SEALS
-  : SUBMERSIBLE SEALS
-  : FOOD & BEVERAGE
-  : SEALS
-  : CARTRIDGES

Equivalent Listing

[illegible]



Size	Inch - Dec
8 mm	
3/8 "	0.375
10 mm	
11 mm	
12 mm	
1/2 "	0.5
14 mm	
15 mm	
5/8 "	0.625
16 mm	
17 mm	
18 mm	
19 mm	
3/4 "	0.75
20 mm	
22 mm	
7/8 "	0.875
24 mm	
25 mm	
1 "	1
28 mm	
1 1/8 "	1.125
29 mm	
30 mm	
1 1/4 "	1.25
32 mm	
33 mm	
1 3/8 "	1.375
35 mm	
38 mm	
1 1/2 "	1.5
39 mm	
40 mm	
1 5/8 "	1.625
42 mm	
1 3/4 "	
45 mm	
1 7/8 "	1.875
48 mm	
50 mm	
2 "	2
53 mm	
2 1/8 "	2.125

Size	Inch - Dec
55 mm	
2 1/4 "	2.25
58 mm	
60 mm	
2 3/8 "	2.375
63 mm	
2 1/2 "	
65 mm	
2 5/8 "	2.625
68 mm	
2 3/4 "	
70 mm	
2 7/8 "	2.875
75 mm	
3 "	3
3 1/8 "	3.125
3 1/4 "	3.25
85 mm	
3 3/8 "	3.375
3 1/2 "	3.5
90 mm	
3 5/8 "	3.625
95 mm	
3 3/4 "	3.75
3 7/8 "	3.875
100 mm	

Photo Index



Component seals :



Type 1S



Type 10



Type 11



Type 12



Type 13



Type 20



Type 21 L



Type 21 N



Type 21 W



Type 30 Met / Imp



Type 31 Met / Imp



Type 33 DIN



Type 34



Type 50



Type 51

Photo Index



Component seals :



Type 52



Type 59



Type 60



Type 70



Type 71



Type 75



Type 82



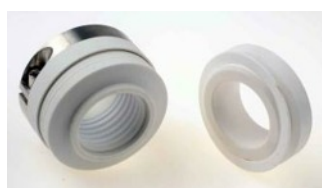
Type 83



Type NDE



IC seal



Acid seal



GAI



Dairy (Tuchenhagen®)



Dairy (1" Puma®)



T7N

Photo Index



Seats :



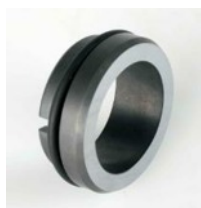
Type 11 B



Type 11 G



Type 11 K



Type 11 L



Type 52 G



Type 52 L

Cartridges :



WS Single



WS Double



RB



Grundfos®

Cartridges



WS Single cartridge



WS Double cartridge



Grundfos® equivalent



RB cartridge

Cartridge seals are self-contained units consisting of a shaft sleeve, seal , and gland plate.

The unit is fitted onto the pump shaft as a built assembly, and no further fitting is required. They overcome the fitting problems encountered with conventional seals.

They come in single and double format. The gland plate is fitted with various tappings to provide for flushing, cooling water injection and disaster control.

Pump stuffing boxes can usually be modified to accomodate the use of a cartridge seal.

Special Applications



Acid seals - are designed for external mounting or extremely corrosive duties including acids, salts, and organic compounds.



Type 59 - used in extremely corrosive fluid applications such as phosphoric, nitric, sulphuric and hydrochloric acids. The PTFE wedge construction virtually eliminates leakage.



Type 7N - universal application, largely used in the textile industry. The wave spring design reduces clogging typically encountered in this environment.



GAI - typically used where media contains solids or of high viscosity eg slurry, sugar, paper, sewage. Springs are out of the product reducing clogging. Hydraulically balanced seal faces.

Specialised o-rings and face combinations available

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Submersibles



Tsurumi®, HCP®, Sakuragawa®



Hidrostal®



Grindex®



Zenit®, ABS®

We have an extensive range of equivalent mechanical seals to cater for all major, and other known submersible manufacturers such as ABS, Ebara, Tsurumi, Hidrostal, HCP, Flygt and Grindex

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Alpha Level F-series®



Pioneer / Fullwood®



Guth & APV Z Series®



APV Puma®



Tuchenhagen®



Johnson IC range®



APV W Plus Series®



Guth®

We have an extensive range of equivalent seals catering for the above known brands in the food and beverage industry

Gland Packing



Various materials are available dependant on the application.

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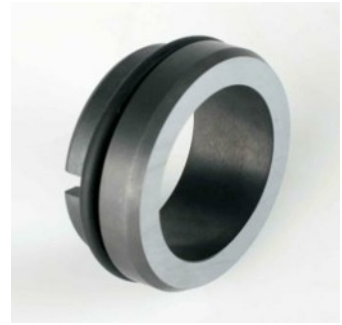
Seats



B



ACID



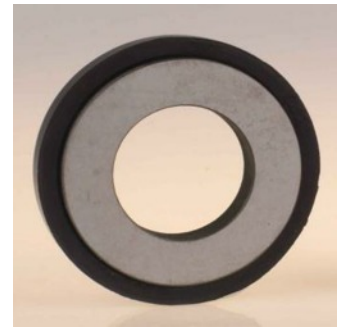
BP , L



G, K



W



We have an extensive range of seats available to cater for the multitude of mechanical seal variations that exist in the field. Seats are commonly available in Ceramic, Silicon, Tungsten, Stainless steel, PTFE. Different "cup rubber" elastomers and O-rings are available depending on the product application.

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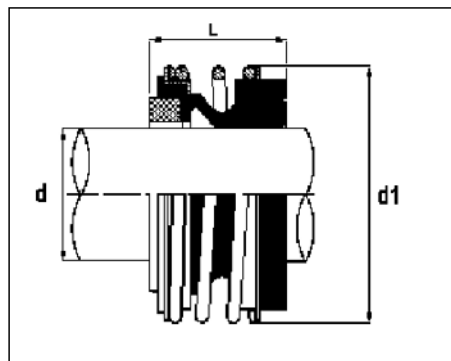
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Type 1S



MECHANICAL SEALING SOLUTIONS

Available with seat types 11B 11G 11K 11L



d	d1	L
10	22.5	25
12	25	25
14	28.5	25
15	28.5	25
16	28.5	25
18	32	25
19	37	25
20	37	25
22	37	25
24	42.5	25
25	42.5	25
28	49	33
30	49	33
32	53.5	33
33	53.5	33
35	57	33
38	59	33
40	62	33

d	d1	L
42	65.5	41
43	65.5	41
45	68	41
48	70.5	41
50	74	41
53	78.5	41
55	81	41
58	85.5	41
60	88.5	41
65	93.5	49
68	96.5	49
70	99.5	49
75	107	52
80	112	56
85	120	56
90	127	59
95	132	59
100	137	62

Operating limits :

Pressure : 10 bar
 Temperature : -30°C - 204°C
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

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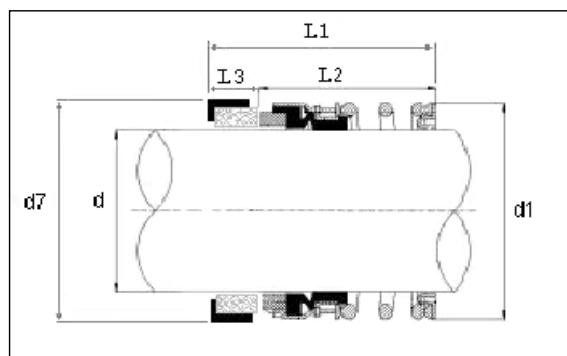
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Type 10



Imperial



INCHES	d	d1	d7	L1	L2	L3
5/8"	15.8	27.8	30.95	43.62	33.3	10.32
3/4"	19	30.9	34.15	43.62	33.3	10.32
7/8"	22.2	34.1	37.3	43.62	33.3	10.32
1"	25.4	38.1	40.5	50.02	39.7	10.32
1 1/8"	28.5	41.3	47.63	53.29	41.3	11.99
1 1/4"	31.7	46	50.8	53.29	41.3	11.99
1 3/8"	34.9	47.6	53.98	54.89	42.9	11.99
1 1/2"	38.1	50.8	57.15	54.89	42.9	11.99
1 5/8"	41.2	57.2	60.35	62.79	50.8	11.99
1 3/4"	44.4	60.4	63.5	62.79	50.8	11.99
1 7/8"	47.6	63.5	66.7	65.99	54	11.99
2"	50.8	66.7	69.85	65.99	54	11.99
2 1/8"	53.9	71.4	73.15	73.8	60.3	13.5
2 1/4"	57.1	74.6	79.4	73.8	60.3	13.5
2 3/8"	60.3	78.3	79.4	77	63.5	13.5
2 1/2"	63.5	81	82.5	77	63.5	13.5
2 5/8"	66.6	85.7	92.1	85.8	69.9	15.9
2 3/4"	69.8	88.9	85.52	85.8	69.9	15.9
2 7/8"	73	92.1	98.45	88.9	73	15.9
3"	76.2	95.3	101.65	88.9	73	15.9

Operating limits :

Pressure : 28 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 15 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

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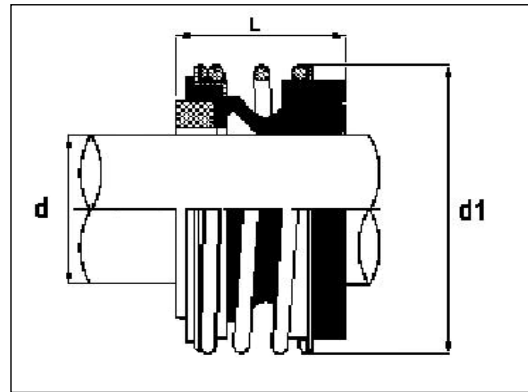
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Type 11



MECHANICAL SEALING SOLUTIONS

Available with seat types 11B 11G 11K 11L



d	d1	L
10	22.5	14.5
12	25	15
14	28.5	17
15	28.5	17
16	28.5	17
18	32	19.5
19	37	21.5
20	37	21.5
22	37	21.5
24	42.5	22.5
25	42.5	23
28	49	26.5
30	49	26.5
32	53.5	27.5
33	53.5	27.5
35	57	28.5
38	59	30
40	62	30

d	d1	L
42	65.5	30
43	65.5	30
45	68	30
48	70.5	30.5
50	74	30.5
53	78.5	33
55	81	35
58	85.5	37
60	88.5	38
65	93.5	40
68	96.5	40
70	99.5	40
75	107	40
80	112	40
85	120	41
90	127	45
95	132	46
100	137	47

Operating limits :

Pressure : 12 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 10 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

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Fax : 031-7052022

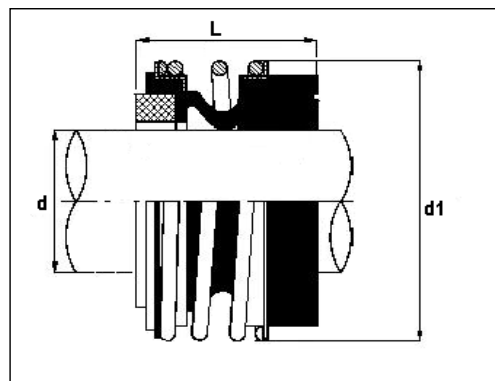
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 If in doubt contact the above.

Type 12



Available with seat types 11B 11G 11K 11L



d	d1	L1
10	22.5	25.9
12	25	25.9
14	28.5	28.4
15	28.5	28.4
16	28.5	28.4
18	32	30
19	37	30
20	37	30
22	37	30
24	42.5	32.5
25	42.5	32.5
28	49	35
30	49	35
32	53.5	35
33	53.5	35
35	57	35
38	59	36
40	62	36

d	d1	L1
42	65.5	36
43	65.5	36
45	68	36
48	70.5	36
50	74	38
53	78.5	36.5
55	81	36.5
58	85.5	41.5
60	88.5	41.5
65	93.5	41.5
68	96.5	41.2
70	99.5	48.7
75	107	48.7
80	112	48
85	120	46
90	127	51
95	132	51
100	137	51

Operating limits :

Pressure : 12 bar
Temperature : -30 °C - 204 °C
Speed : 10 m/s

Faces :

Carbon vs Ceramic
Silicon vs Silicon
Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
Nitrile and EPDM available on request

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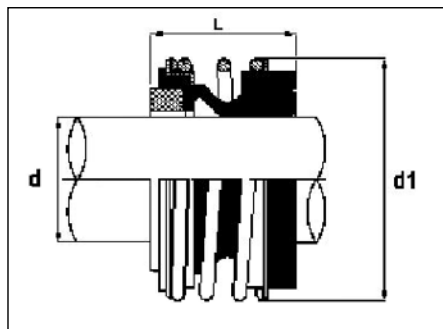
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Type 13



Available with seat types 11B 11G 11K 11L



d	d1	L
10	22.5	14.5
12	25	15
14	28.5	17
15	28.5	17
16	28.5	17
18	32	19.5
19	37	21.5
20	37	21.5
22	37	21.5
24	42.5	22.5
25	42.5	23
28	49	26.5
30	49	26.5
32	53.5	27.5
33	53.5	27.5
35	57	28.5
38	59	30
40	62	30

d	d1	L
42	65.5	30
43	65.5	30
45	68	30
48	70.5	30.5
50	74	30.5
53	78.5	33
55	81	35
58	85.5	37
60	88.5	38
65	93.5	40
68	96.5	40
70	99.5	40
75	107	40
80	112	40
85	120	41
90	127	45
95	132	46
100	137	47

Operating limits :

Pressure : 12 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 10 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

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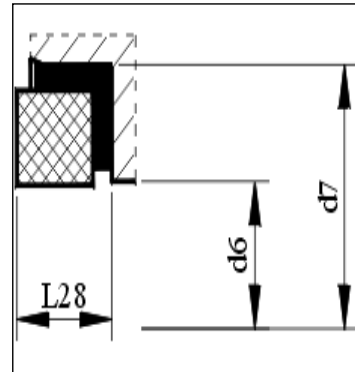
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 If in doubt contact the above.

SEAT TYPE 11B



MECHANICAL SEALING SOLUTIONS

FOR ROTARIES TYPE 1S 11 12 13 21



Shaft	d6	d7	L28
10	17	21	6.6
12	19	23	6.6
14	21	25	6.6
16	23	27	6.6
18	27	33	7.5
20	29	35	7.5
22	31	37	7.5
24	33	39	7.5
25	34	40	7.5
28	37	43	7.5
30	39	45	7.5
32	42	48	7.5
33	42	48	7.5
35	44	50	7.5
38	49	56	9
40	51	58	9
43	54	61	9
45	56	63	9
48	59	66	9
50	62	70	9.5
53	65	73	11
55	67	75	11
58	70	78	11
60	72	80	11
65	77	85	11
68	81	90	11.3
70	83	92	11.3
75	88	97	11.3
80	95	105	12
85	100	110	14
90	105	115	14
95	110	120	14
100	115	125	14

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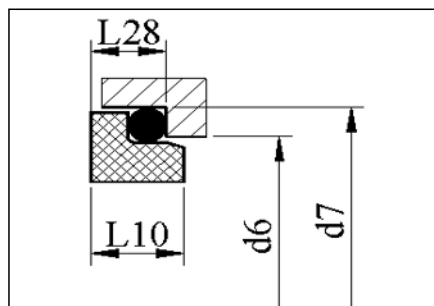
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If in doubt contact the above.

SEAT TYPE 11G



FOR ROTARIES TYPE 1S 11 12 13 21



Shaft	d6	d7	L10	L28
10	17	21	7.5	6.6
12	19	23	7.5	6.6
14	21	25	7.5	6.6
16	23	27	7.5	6.6
18	27	33	8.5	7.5
20	29	35	8.5	7.5
22	31	37	8.5	7.5
24	33	39	8.5	7.5
25	34	40	8.5	7.5
28	37	43	8.5	7.5
30	39	45	8.5	7.5
32	42	48	8.5	7.5
33	42	48	8.5	7.5
35	44	50	8.5	7.5
38	49	56	10	9
40	51	58	10	9
43	54	61	10	9
45	56	63	10	9
48	59	66	10	9
50	62	70	10.5	9.5
53	65	73	12	11
55	67	75	12	11
58	70	78	12	11
60	72	80	12	11
65	77	85	12	11
68	81	90	12.5	11.3
70	83	92	12.5	11.3
75	88	97	12.5	11.3
80	95	105	13	12
85	100	110	15	14
90	105	115	15	14
95	110	120	15	14
100	115	125	15	14

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Fax : 031-7052022

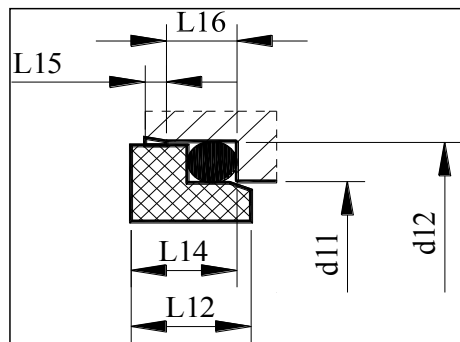
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SEAT TYPE 11K



FOR ROTARIES TYPE 1S 11 12 13 21



Shaft	d11	d12	L12	L14	L15	L16
10	15.5	19.2	7.5	6.6	1.2	3.8
12	17.5	21.6	6.5	5.6	1.2	3.8
14	20.5	24.6	6.5	5.6	1.2	3.8
15	20.5	24.6	7.5	6.6	1.2	3.8
18	24	30	9	8	1.5	5
20	29.5	35	8.5	7.5	1.5	5
24	32	38	8.5	7.5	1.5	5
25	32	38	8.5	7.5	1.5	5
28	36	42	10	9	1.5	5
30	39.2	45	11.5	10.5	1.5	5
32	42.2	48	11.5	10.5	1.5	5
33	44.2	50	12	11	1.5	5
35	46.2	52	12	11	1.5	5
38	49.2	55	11.3	10.3	1.5	5
40	52.2	58	11.8	10.8	1.5	5
42	53.3	62	13.2	12	2	6
43	53.3	62	13.2	12	2	6
45	55.3	64	12.8	11.6	2	6
48	59.7	68.4	12.8	11.6	2	6
50	80.8	69.3	12.8	11.6	2	6
53	63.8	72.3	13.5	12.3	2	6
55	66.5	75.4	14.5	13.3	2	6
58	69.5	78.4	14.5	13.3	2	6
60	71.5	80.4	14.5	13.3	2	6
63	74.5	83.4	14.2	13.3	2	6
65	76.5	85.4	14.2	13	2	6
68	82.7	91.5	14.9	13.7	2	6
70	83	92	14.2	13	2	6
75	90.2	99	15.2	14	2	6
80	95.2	104	16.2	15	2	6
85	100.2	109	16	14.8	2	6
90	105.2	114	16	14.8	2	6
95	111.6	120.3	17	15.8	2	6
100	114.5	123.3	17	15.8	2	6

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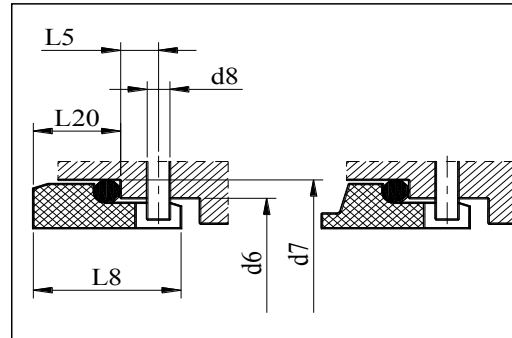
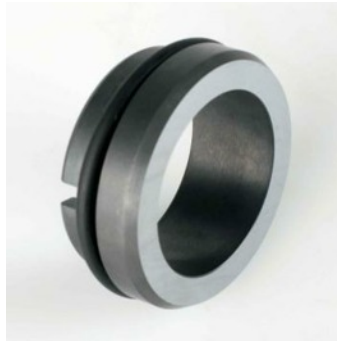
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SEAT TYPE 11L



FOR ROTARIES TYPE 1S 11 12 13 21



Shaft	d6	d7	d8	L5	L8	L20
10	17	21	3	5	17.5	10
12	19	23	3	5	17.5	10
14	21	25	3	5	17.5	10
16	23	27	3	5	17.5	10
18	27	33	3	5	19.5	11.5
20	29	35	3	5	19.5	11.5
22	31	37	3	5	19.5	11.5
24	33	39	3	5	19.5	11.5
25	34	40	3	5	19.5	11.5
28	37	43	3	5	19.5	11.5
30	39	45	3	5	19.5	11.5
32	42	48	3	5	19.5	11.5
33	42	48	3	5	19.5	11.5
35	44	50	3	5	19.5	11.5
38	49	56	4	5	22	14
40	51	58	4	5	22	14
43	54	61	4	5	22	14
45	56	63	4	5	22	14
48	59	66	4	5	22	14
50	62	70	4	5	23	15
53	65	73	4	5	23	15
55	67	75	4	5	23	15
58	70	78	4	5	23	15
60	72	80	4	5	23	15
65	77	85	4	5	23	15
68	81	90	4	5	26	18
70	83	92	4	5	26	18
75	88	97	4	5	26	18
80	95	105	4	5	26.2	18.2
85	100	110	4	5	26.2	18.2
90	105	115	4	5	26.2	18.2
95	110	120	4	5	25.2	17.2
100	115	125	4	5	25.2	17.2

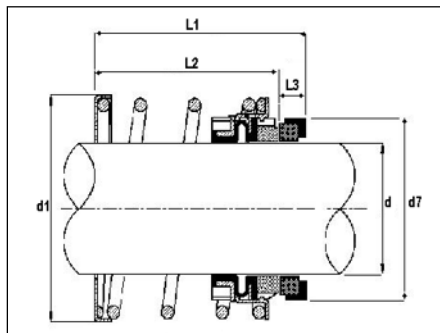
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
If in doubt contact the above.

Type 20



METRIC

d	d1	d7	L1	L2	L3
12	32	27.79	33.74	25	8.74
15	35	30.95	35.32	25	10.32
16	35	30.95	35.32	25	10.32
18	40	34.15	35.32	25	10.32
20	41	35.70	35.32	25	10.32
22	43	37.30	35.32	25	10.32
24	47	40.50	35.32	25	10.32
25	47	40.50	35.32	25	10.32
28	56	47.63	44.99	33	11.99
30	59	50.80	44.99	33	11.99
32	59	50.80	44.99	33	11.99
35	63	53.98	44.99	33	11.99
38	67	57.15	44.99	33	11.99
40	71	60.35	44.99	33	11.99
42	74	63.50	52.99	41	11.99
43	74	63.50	52.99	41	11.99
45	74	63.50	52.99	41	11.99
48	77	66.70	52.99	41	11.99
50	81	69.85	52.99	41	11.99
53	84	73.05	54.50	41	13.50
55	88	76.20	54.50	41	13.50
58	88	79.40	54.50	41	13.50
60	91	79.40	54.50	41	13.50
63	94	82.55	54.50	41	13.50
65	100	92.10	64.90	49	15.90
70	103	95.25	64.90	49	15.90
73	108	98.45	67.90	52	15.90
75	111	101.65	67.90	52	15.90

IMPERIAL

INCHES	d	d1	d7	L1	L2	L3
1/2"	12.7	32	27.79	33.74	25	8.74
5/8"	15.87	35	30.95	35.32	25	10.32
3/4"	19.05	40	34.15	35.32	25	10.32
7/8"	22.22	43	37.30	35.32	25	10.32
1"	25.4	47	40.50	35.32	25	10.32
1 1/8"	28.57	56	47.63	44.99	33	11.99
1 1/4"	31.75	59	50.80	44.99	33	11.99
1 3/8"	34.92	63	53.98	44.99	33	11.99
1 1/2"	38.1	67	57.15	44.99	33	11.99
1 5/8"	41.27	71	60.35	44.99	33	11.99
1 3/4"	44.45	74	63.50	52.99	41	11.99
1 7/8"	47.62	77	66.70	52.99	41	11.99
2"	50.8	81	69.85	52.99	41	11.99
2 1/8"	53.97	84	73.05	54.5	41	13.50
2 1/4"	57.15	88	76.20	184	49	135.00
2 3/8"	60.32	91	79.40	54.50	41	13.50
2 1/2"	63.5	94	82.55	54.50	41	13.50
2 5/8"	66.67	100	92.10	64.90	49	15.90
2 3/4"	69.85	103	95.25	64.90	49	15.90
2 7/8"	73.02	108	98.45	67.90	52	15.90
3"	76.2	111	101.65	67.90	52	15.90

Operating limits :

Pressure : 28 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 13 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile or EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

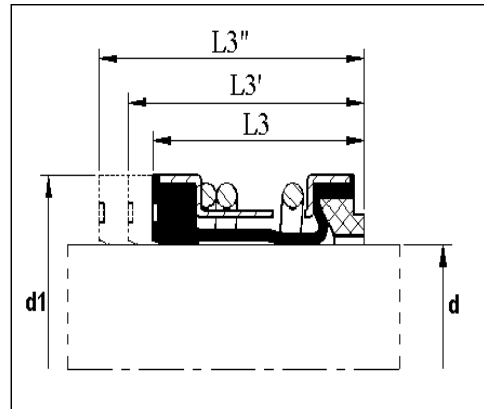
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

TYPE 21



Metric



d	d1	L3	L3'	L3''
10	20	15	27.5	35
12	22	15	26.5	34
14	24	15	29	34
15	25	15	29	34
16	26	15	29	34
18	32	20	31.5	39
20	34	20	31.5	39
22	36	20	31.5	39
24	38	20	34	44
25	39	20	34	44
28	42	26	36.5	44
30	44	26	35.5	43
32	46	26	35.5	48
33	47	26	35.5	48
35	49	26	34.5	47
38	54	30	37	47
40	56	30	37	47

d	d1	L3	L3'	L3''
43	59	30	37	52
45	61	30	37	52
48	64	30	35	50
50	66	30	37.5	50
53	69	30	37.5	60
55	71	30	37.5	60
58	78	33	42.5	60
60	80	33	40.5	58
63	83	33	40.5	58
65	85	33	40.5	68
68	88	33	40.5	68
70	90	33	48	68
75	99	40	48	68
80	104	40	47.5	77.5
85	109	40	47.5	77.5
90	114	40	52.5	77.5
95	119	40	52.5	77.5
100	124	40	52.5	77.5

Standard with type 11 B seat

L3 = STANDARD W/L
 L3' = W/L FOR SEALS TO DIN L1K (excluding seat)
 L3'' = W/L FOR SEALS TO DIN L1N (excluding seat)

Operating limits :

Pressure : 20 bar
 Temperature : -40 °C - 150 °C (Nitrile)
 Speed : 15 m/s

Faces :

Carbon vs Ceramic
 Silicon available on request

Elastomer :

Supplied in Nitrile as standard
 Viton or EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

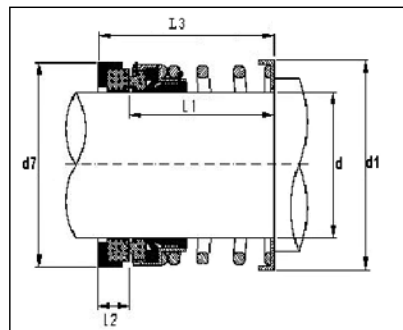
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 30



Metric



d	d1	d7	d7	L1	L2	L3
MM		A SEAT	B SEAT			
10	22.95	24.6	21	25.4	8.74	34.14
12	23.9	27.79	25.4	25.4	8.74	34.14
13	23.9	27.79	25.4	25.4	8.74	34.14
14	26.7	30.95	31.75	25.4	10.32	35.72
15	26.7	30.95	31.75	25.4	10.32	35.72
16	26.7	30.95	31.75	25.4	10.32	35.72
18	31.1	34.15	34.93	25.4	10.32	35.72
19	31.1	34.15	34.93	25.4	10.32	35.72
20	33.4	35.7	38.1	25.4	10.32	35.72
22	33.4	37.3	38.1	25.4	10.32	35.72
24	39.2	40.5	41.28	25.4	10.32	35.72
25	39.2	40.5	41.28	25.4	10.32	35.72
28	46.3	47.63	44.45	33.34	11.99	45.33
30	49.4	50.8	47.63	33.34	11.99	45.33
32	49.4	50.8	47.63	33.34	11.99	45.33
33	52.6	53.98	50.8	33.34	11.99	45.33
35	52.6	53.98	50.8	33.34	11.99	45.33
38	55.8	57.15	53.98	33.34	11.99	45.33
40	62.2	60.35	60.35	33.34	11.99	45.33
42	66	63.5	60.35	40.48	11.99	52.47
43	66	63.5	63.5	40.48	11.99	52.47
44	66	63.5	63.5	40.48	11.99	52.47
45	66	63.5	63.5	40.48	11.99	52.47
48	66.6	66.7	66.7	40.48	11.99	52.47
50	71.65	69.85	69.85	40.48	11.99	52.47
53	73.3	73.05	76.2	41	13.5	54.5
55	78.4	76.2	76.2	41	13.5	54.5
58	82	79.4	76.2	41	13.5	54.5
60	82	79.4	82.55	41	13.5	54.5
63	84.9	82.55	85.73	41	13.5	54.5
65	88.4	92.1	85.73	49	15.9	64.9
70	92.6	95.52	88.9	49	15.9	64.9
75	101.9	101.65	98.4	49	15.9	64.9

Operating limits :

Pressure : 10 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile available on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

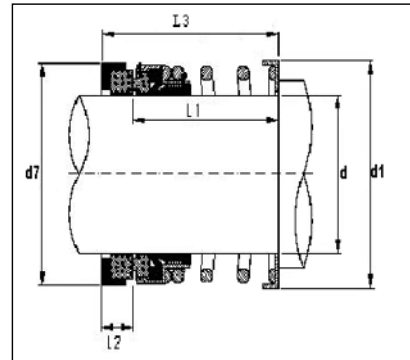
All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
 If in doubt contact the above.

Type 30



MECHANICAL SEALING SOLUTIONS

Imperial



IMPERIAL	d	d1	d7	d7	L1	L2	L3
INCHES	MM		A SEAT	B SEAT			
3/8"	9.5	20	24.6	21	25.4	8.74	34.14
1/2"	12.7	22	27.79	25.4	25.4	8.74	34.14
5/8"	15.8	26	30.95	31.75	25.4	10.32	35.72
3/4"	19.0	34	34.15	34.93	25.4	10.32	35.72
7/8"	22.2	36	37.3	38.1	25.4	10.32	35.72
1"	25.4	39	40.5	41.28	33.34	10.32	43.66
1 1/8"	28.5	42	47.63	44.45	33.34	11.99	45.33
1 1/4"	31.7	46	50.8	47.63	33.34	11.99	45.33
1 3/8"	34.9	49	53.98	50.8	33.34	11.99	45.33
1 1/2"	38.1	54	57.15	53.98	33.34	11.99	45.33
1 5/8"	41.2	59	60.35	60.35	33.34	11.99	45.33
1 3/4"	44.4	61	63.5	63.5	40.48	11.99	52.47
1 7/8"	47.6	64	66.7	66.7	40.48	11.99	52.47
2"	50.8	66	69.85	69.85	40.48	11.99	52.47
2 1/8"	53.9	71	73.05	76.2	41	13.5	54.5
2 1/4"	57.1	78	76.2	79.38	41	13.5	54.5
2 3/8"	60.3	80	79.4	82.45	41	13.5	54.5
2 1/2"	63.5	85	82.55	85.7	41	13.5	54.5
2 5/8"	66.6	88	92.1	85.7	49	15.9	64.9
2 3/4"	69.8	90	95.25	88.9	49	15.9	64.9
2 7/8"	73.0	99	98.45	85.25	49	15.9	64.9
3"	76.2	99	101.65	98.43	49	15.9	64.9

Operating limits :

Pressure : 10 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile or EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

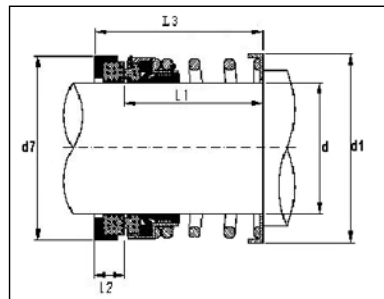
All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 31



MECHANICAL SEALING SOLUTIONS

Metric



d	d1	d7	d7	L1	L2	L3
		A SEAT	B SEAT			
10	22.95	24.6	21	43.65	8.74	52.39
12	23.9	27.79	25.4	43.65	8.74	52.39
13	23.9	27.79	25.4	43.65	8.74	52.39
14	26.7	30.95	31.75	43.65	10.32	53.97
15	26.7	30.95	31.75	43.65	10.32	53.97
16	26.7	30.95	31.75	43.65	10.32	53.97
18	31.1	34.15	34.93	43.65	10.32	53.97
19	31.1	34.15	34.93	43.65	10.32	53.97
20	33.4	35.7	38.1	43.65	10.32	53.97
22	33.4	37.3	38.1	43.65	10.32	53.97
24	39.2	40.5	41.28	43.65	10.32	53.97
25	39.2	40.5	41.28	43.65	10.32	53.97
28	46.3	47.63	44.45	60.33	11.99	72.32
30	49.4	50.8	47.63	60.33	11.99	72.32
32	49.4	50.8	47.63	60.33	11.99	72.32
33	52.6	53.98	50.8	60.33	11.99	72.32
35	52.6	53.98	50.8	60.33	11.99	72.32
38	55.8	57.15	53.98	60.33	11.99	72.32
40	62.2	60.35	60.35	60.33	11.99	72.32
42	66	63.5	60.35	70.64	11.99	82.63
43	66	63.5	63.5	70.64	11.99	82.63
44	66	63.5	63.5	70.64	11.99	82.63
45	66	63.5	63.5	70.64	11.99	82.63
48	66.6	66.7	66.7	70.64	11.99	82.63
50	71.65	69.85	69.85	70.64	11.99	82.63
53	73.3	73.05	76.2	71	13.5	84.5
55	78.4	76.2	76.2	71	13.5	84.5
58	82	79.4	76.2	71	13.5	84.5
60	82	79.4	82.55	71	13.5	84.5
63	84.9	82.55	85.73	71	13.5	84.5
65	88.4	92.1	85.73	70	15.9	85.9
70	92.6	95.52	88.9	70	15.9	85.9
75	101.9	101.65	98.4	73	15.9	88.9

Operating limits :

Pressure : 10 bar
Temperature : -30 °C - 204 °C

Faces :

Carbon vs Ceramic
Silicon vs Silicon
Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
Nitrile or EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

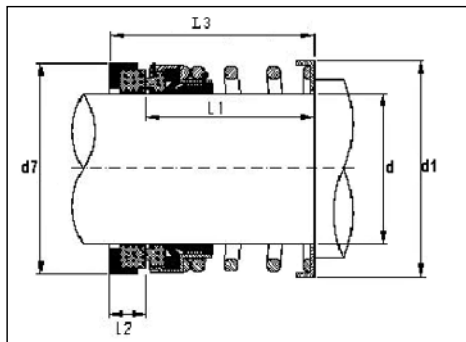
All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 31



MECHANICAL SEALING SOLUTIONS

Imperial



INCHES	d	d1	d7	d7	L1	L2	L3
			A SEAT	B SEAT			
3/8"	9.5	20	24.6	21	43.65	8.74	52.39
1/2"	12.7	22	27.79	25.4	43.65	8.74	52.39
5/8"	15.8	26	30.95	31.75	43.65	10.32	53.97
3/4"	19.0	34	34.15	34.93	43.65	10.32	53.97
7/8"	22.2	36	37.3	38.1	43.65	10.32	53.97
1"	25.4	39	40.5	41.28	43.65	10.32	53.97
1 1/8"	28.5	42	47.63	44.45	60.33	11.99	72.32
1 1/4"	31.7	46	50.8	47.63	60.33	11.99	72.32
1 3/8"	34.9	49	53.98	50.8	60.33	11.99	72.32
1 1/2"	38.1	54	57.15	53.98	60.33	11.99	72.32
1 5/8"	41.2	59	60.35	60.35	60.33	11.99	72.32
1 3/4"	44.4	61	63.5	63.5	70.64	11.99	82.63
1 7/8"	47.6	64	66.7	66.7	70.64	11.99	82.63
2"	50.8	66	69.85	69.85	70.64	11.99	82.63
2 1/8"	53.9	71	73.05	76.2	71	13.5	84.5
2 1/4"	57.1	78	76.2	79.38	71	13.5	84.5
2 3/8"	60.3	80	79.4	82.45	71	13.5	84.5
2 1/2"	63.5	85	82.55	85.7	71	13.5	84.5
2 5/8"	66.6	88	92.1	85.7	70	15.9	85.9
2 3/4"	69.8	90	95.25	88.9	70	15.9	85.9
2 7/8"	73.0	99	98.45	85.25	73	15.9	88.9
3"	76.2	99	101.65	98.43	73	15.9	88.9

Operating limits :

Pressure : 10 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile or EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

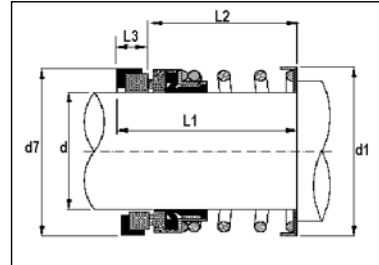
All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
 If in doubt contact the above.

Type 33



MECHANICAL SEALING SOLUTIONS

DIN 24960



d	d1	d7	L1	L2	L3
10	20	21	32.5	23.9	8.6
12	22	23	32.5	23.9	8.6
14	24	25	35	26.4	8.6
16	26	27	35	26.4	8.6
18	32	33	37.5	27.5	10
20	34	35	37.5	27.5	10
22	36	37	37.5	27.5	10
24	38	39	40	30	10
25	39	40	40	30	10
28	42	43	42.5	32.5	10
30	44	45	42.5	32.5	10
32	46	48	42.5	32.5	10
33	47	48	42.5	32.5	10
35	49	50	42.5	32.5	10
38	54	56	45	34	11
40	56	58	45	34	11
43	59	61	45	34	11
45	61	63	45	34	11
48	64	66	45	34	11
50	66	70	47.5	34.5	13
53	69	73	47.5	34.5	13
55	71	75	47.5	34.5	13
58	78	78	52.5	39.5	13
60	80	80	52.5	39.5	13
63	83	83	52.5	39.5	13
65	85	85	52.5	39.5	13
68	88	90	52.5	37.2	15.3
70	90	92	60	44.7	15.3
75	99	97	60	44.7	15.3
80	104	105	60	44.3	15.7
85	109	110	60	44.3	15.7
90	114	115	65	49.3	15.7
95	119	120	65	49.3	15.7
100	124	125	65	49.3	15.7

Operating limits :

Pressure : 10 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

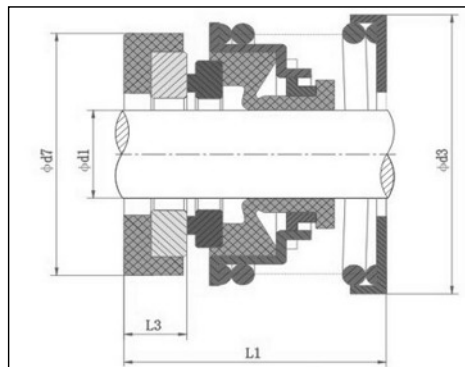
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 34



d1	d7	d3	L1	L3
15	29.5	31.5	26/32	8

Operating limits :

Pressure : 6 bar
 Temperature : -40 °C - 150 °C (Nitrile)
 Speed : 10 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Nitrile as standard
 Viton available on request

Tel : 031-7052020

Fax : 031-7052022

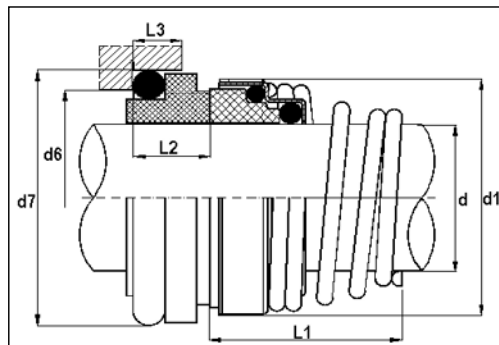
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
 If in doubt contact the above.

Type 50



MECHANICAL SEALING SOLUTIONS



d	d1	d6	d7	L1	L2	L3
10	20	14	18.1	15	5.5	4
11	22	16.5	20.6	18	5.5	4
12	22	16.5	20.6	18	5.5	4
13	25	19	23.1	22	6	4
14	25	19	23.1	22	6	4
15	29	21	26.9	22	7	5
16	29	21	26.9	23	7	5
17	29	21	26.9	23	7	5
18	33	25	30.9	24	8	5
19	33	25	30.9	25	8	5
20	33	25	30.9	25	8	5
21	38	30	35.4	25	8	5.5
22	38	30	35.4	25	8	5.5
23	38	30	35.4	27	8	5.5
24	38	30	35.4	27	8	5.5
25	40	33	38.2	27	8.5	5.5
28	46	38	43.3	29	9	5.5
29	46	38	43.3	30	9	5.5
30	46	38	43.3	30	9	5.5
32	46	38	43.3	30	9	5.5
33	48	45	53.5	39	11.5	7.5
35	50	45	53.5	39	11.5	7.5
38	58	52	60.5	39	11.5	7.5
40	58	52	60.5	39	11.5	7.5

Operating limits :

Pressure : 10 bar
 Temperature : -40 °C - 180 °C (Nitrile)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

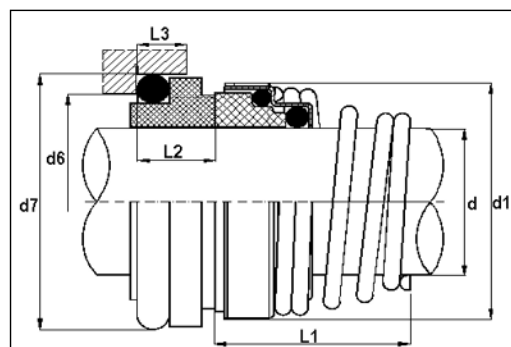
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 51



MECHANICAL SEALING SOLUTIONS



d	d1	d6	d7	L1	L2	L3
10	20	17	21	15	7	5.5
12	22	19	23	18	7	5.5
14	24	21	25	22	7	5.5
16	26	23	27	23	7	5.5
18	32	27	33	24	10	7
20	33	29	35	25	10	7
22	36	31	37	25	10	7
24	37.4	33	39	27	10	7
25	38	34	40	27	10	7
28	42	37	43	29	10	7
30	44	39	45	30	10	7
32	45.5	42	48	30	10	7
33	46.5	42	48	39	10	7
35	49	44	50	39	10	7
38	56	49	56	42	13	8
40	58	51	58	42	13	8

Operating limits :

Pressure : 10 bar
Temperature : -40 °C - 204 °C
Speed : 15 m/s

Faces :

Carbon vs Ceramic
Silicon vs Silicon

Elastomer :

Supplied in Viton as standard
Nitrile and EPDM available on request

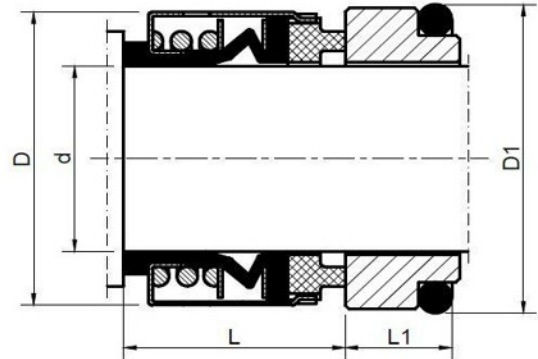
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 52



d	d1	L
14	24	23
16	26	23
18	32	24
20	34	24
22	36	24
24	38	26.7
25	39	27
28	42	30
30	44	30.5
32	46	30.5
33	47	30.5
35	49	30.5
38	54	32
40	56	32
43	59	32
45	61	32

d	d1	L
48	64	32
50	66	34
53	69	34
55	71	34
58	78	39
60	80	39
63	83	39
65	85	39
68	88	39
70	90	45.5
75	95	45.5
80	104	45
85	109	45
90	110	50
95	119	50
100	124	50

Operating limits :

Pressure : 35 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 15 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

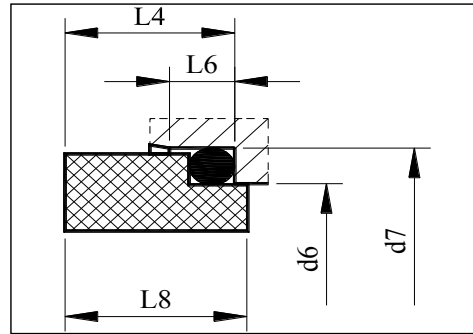
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

SEAT TYPE 52G



FOR ROTARIES TYPE 52



Shaft	d6	d7	L4	L6	L8
14	21	25	12	4	12.8
16	23	27	12	4	12.8
18	27	33	13.5	5	14.5
20	29	35	13.5	5	14.5
22	31	37	13.5	5	14.5
24	33	39	13.3	5	14.3
25	34	40	13	5	14
28	37	43	12.5	5	13.5
30	39	45	12	5	13
32	42	48	12	5	13
33	42	48	12	5	13
35	44	50	12	5	13
38	49	56	13	6	14
40	51	58	13	6	14
43	54	61	13	6	14
45	56	63	13	6	14
48	59	66	13	6	14
50	62	70	13.5	6	14.5
53	65	73	13.5	6	14.5
55	67	75	13.5	6	14.5
58	70	78	13.5	6	14.2
60	72	80	13.5	6	14.2
65	77	85	13.5	6	14.2
68	81	90	13.5	7	14.2
70	83	92	14.5	7	15.2
75	88	97	14.5	7	15.2
80	95	105	15	7	15.7
85	100	110	15	7	15.7
90	105	115	15	7	15.7
95	110	120	15	7	15.7
100	115	125	15	7	15.7

Tel : 031-7052020

Fax : 031-7052022

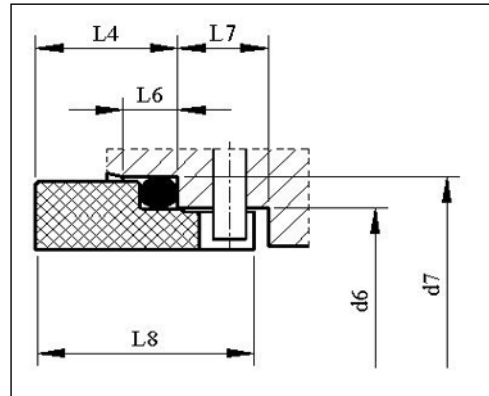
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

SEAT TYPE 52L



FOR ROTARIES TYPE 52



Shaft	d6	d7	L4	L6	L7	L8
14	21	25	12	4	8.5	18.5
16	23	27	12	4	8.5	18.5
18	27	33	13.5	5	9	20.5
20	29	35	13.5	5	9	20.5
22	31	37	13.5	5	9	20.5
24	33	39	13.3	5	9	20.3
25	34	40	13	5	9	20
28	37	43	12.5	5	9	19.5
30	39	45	12	5	9	19
32	42	48	12	5	9	19
33	42	48	12	5	9	19
35	44	50	12	5	9	19
38	49	56	13	6	9	20
40	51	58	13	6	9	20
43	54	61	13	6	9	20
45	56	63	13	6	9	20
48	59	66	13	6	9	20
50	62	70	13.5	6	9	20.5
53	65	73	13.5	6	9	20.5
55	67	75	13.5	6	9	20.5
58	70	78	13.5	6	9	20.5
60	72	80	13.5	6	9	20.5
65	77	85	13.5	6	9	20.5
68	81	90	13.5	7	9	20.5
70	83	92	14.5	7	9	21.5
75	88	97	14.5	7	9	21.5
80	95	105	15	7	9	22
85	100	110	15	7	9	22
90	105	115	15	7	9	22
95	110	120	15	7	9	22
100	115	125	15	7	9	22

Tel : 031-7052020

Fax : 031-7052022

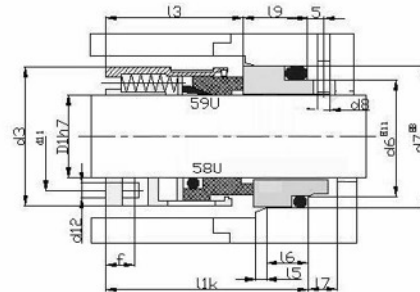
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 59



MECHANICAL SEALING SOLUTIONS



d1	d3	d4	d6	d7	d8	d11	d12	l1k	l3	l5	l6	l7	l9	f
14	24	26	21	25	2	18.4	2.5	35	23	1.5	4	8.5	12	4
16	26	28	23	27	2	20.4	2.5	35	23	1.5	4	8.5	12	4
18	32	34	27	33	3	24.5	4	37.5	24	2	5	9	13.5	5
20	34	36	29	35	3	26.5	4	37.5	24	2	5	9	13.5	5
22	36	38	31	37	3	28.5	4	37.5	24	2	5	9	13.5	5
24	38	40	33	39	3	30.5	4	40	26.7	2	5	9	13.3	5
25	39	41	34	40	3	31.5	4	40	27	2	5	9	13	5
28	42	44	37	43	3	34.5	4	42.5	30	2	5	9	12.5	7.5
30	44	46	39	45	3	36.5	4	42.5	30.5	2	5	9	12	7.5
32	46	48	42	48	3	38.5	4	42.5	30.5	2	5	9	12	7.5
33	47	49	42	48	3	39.5	4	42.5	30.5	2	5	9	12	6.5
35	49	51	44	50	3	41.5	4	42.5	30.5	2	5	9	12	6.5
38	54	58	49	56	4	45	4	45	32	2	6	9	13	8
40	56	60	51	58	4	47	4	45	32	2	6	9	13	8
43	59	63	54	61	4	50	4	45	32	2	6	9	13	8
45	61	65	56	63	4	52	4	45	32	2	6	9	13	8
48	64	68	59	66	4	55	4	45	32	2	6	9	13	8.5
50	66	70	62	70	4	57	4	47.5	34	2.5	6	9	13.5	6.5
53	69	73	65	73	4	60	4	47.5	34	2.5	6	9	13.5	6.5
55	71	75	67	75	4	62	4	47.5	34	2.5	6	9	13.5	5.5
58	78	83	70	78	4	67.5	5.5	52.5	39	2.5	6	9	13.5	7.5
60	80	85	72	80	4	69.5	5.5	52.5	39	2.5	6	9	13.5	7.5
63	83	88	75	83	4	72.5	5.5	52.5	39	2.5	6	9	13.5	7.5
65	85	90	77	85	4	74.5	5.5	52.5	39	2.5	6	9	13.5	7.5
68	88	93	81	90	4	77.5	5.5	52.5	39	2.5	7	9	13.5	7.5
70	90	95	83	92	4	79.5	5.5	60	45.5	2.5	7	9	14.5	7.5
75	95	104	88	97	4	83.5	5.5	60	45.5	2.5	7	9	14.5	7.8
80	104	109	95	105	4	89.5	5.5	60	45	3	7	9	15	7.8
85	109	114	100	110	4	94.5	5.5	60	45.5	3	7	9	15	7.8
90	114	119	105	115	4	99.5	5.5	65	50	3	7	9	15	7.8
95	119	124	110	120	4	105	5.5	65	50	3	7	9	15	7.8
100	124	129	115	125	4	110	5.5	65	50	3	7	9	15	7.8

Operating limits :

Pressure : 17 bar
 Temperature : -20 °C - 120 °C
 Speed : < 25 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer : (n/a)

PTFE wedge

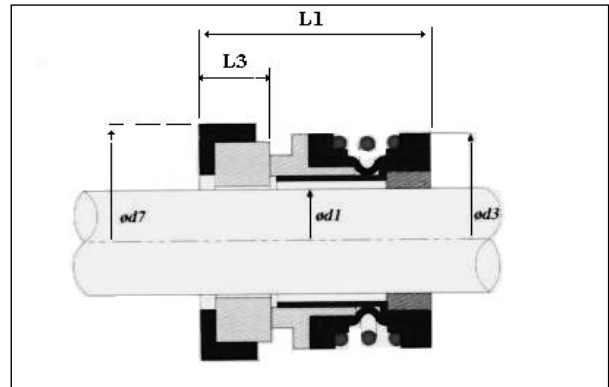
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 60



SIZE	d1	d3	d7	L1	L3
3/8"	9.5	23.8	22.2	22.2	6.2
1/2"	12.7	27.0	25.4	22.8	6.2
5/8"P	15.9	30.9	30.1	26.5	8.7
5/8"R	15.9	30.9	31.8	30.0	10.3
3/4"	19.1	34.1	34.9	30.0	10.3
1"	25.4	42.9	41.3	31.7	11.1

Operating limits :

Pressure : 10 bar
 Temperature : -40 °C - 180 °C (Nitrile)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon on request

Elastomer :

Supplied in Nitrile as standard
 Viton available on request

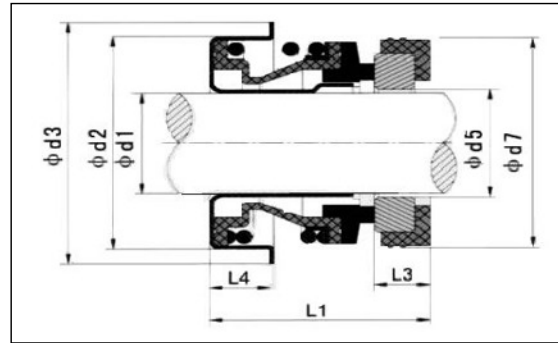
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 70



INCHES	d1	d2	d3	d5	d7	L1	L3	L4
3/8	11.0	24	29	12	23	17	4	7
1/2	14.2	28.55	32	14	25	18.2	5	8
1/2	14.2	30	35	15	24/23	18	5	8
1/2	14.2	33.4	38	14	25	18	5	6.7
5/8	18.2	36.45	41.5	18	31	19.8	5	8
5/8	18.2	38.1	41.5	18	31	19.8	5	8
3/4	21.2	38/40	43.8	21	35	20.5	5	9.5
3/4	21.2	38/40	43.8	21	35	20.5	5	10.3
1"	26.4	46/47	51	29	44	25	7	10
1"	26.4	52	57	29	48	25	7	10
1 1/8	31.0	52	57	32	48	27	8	11

Operating limits :

Pressure : 6 bar
 Temperature : -40 °C - 180 °C (Viton)
 Speed : 15 m/s

Faces :

Carbon vs Ceramic

Elastomer :

Supplied in Nitrile as standard
 Viton on request

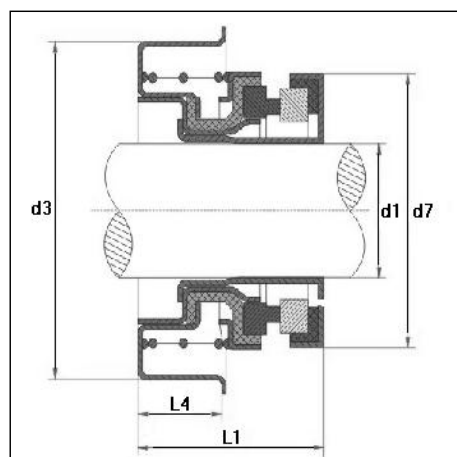
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 71



Various sizes available, please consult with sales

Faces :

Carbon vs Ceramic

Elastomer :

Supplied in Nitrile as standard

Tel : 031-7052020

Fax : 031-7052022

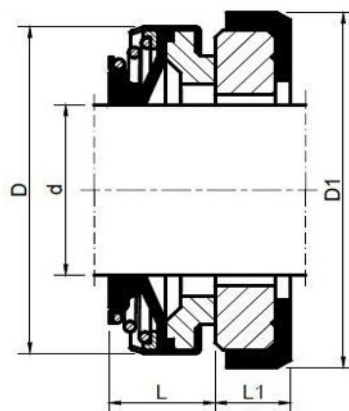
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
If in doubt contact the above.

Type 75



MECHANICAL SEALING SOLUTIONS



d	D	D1	D1	D1	D1	L1	L
metric		A-SEAT	B-SEAT	C-SEAT	D SEAT		
8	24		26			5.5	9.5
10	24		26			8	13
12	24	35				8	13
12	24		26			8	13
13	24		26			8	13
14	28/32	30				8	13
14	28/32		38			8	13
14	28/32			25.4		8	13
14	28/32				28	8	13
15	32/39	30				8	13
15	32/39		38			8	13
16	32/39	30				8	13
16	32/39		38			8	13
16	32/39		42			8	13
17	39		42			8	13
18	39		42			8	13
19	39		42			8	13
20	39/42	42				8	13
20	39/42		45			8	13
20	39/42			35		8	13
22	42		45			10	13
24	47		50			10	13.5
25	42/47		50			10	13.5
28	54		57			10	15
30	54		57			10	15
32	54		57			10	15
35	60		63			10	16
38	65		68			12	18
40	65		68			12	18

Operating limits :

Pressure : 6 bar
 Temperature : -40 °C - 180 °C (Viton)
 Speed : 12 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon

Elastomer :

Supplied in Viton as standard
 Nitrile available on request

Tel : 031-7052020

Fax : 031-7052022

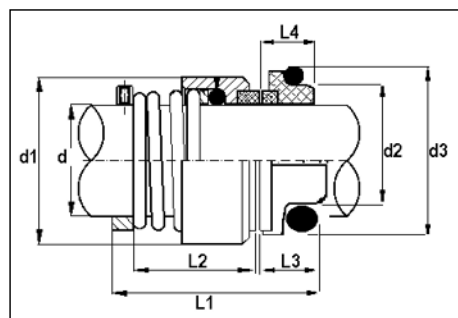
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 82



DIN



d	d1	d2	d3	L1	L2	L3	L4
10	19	15.5	19.2	22.6	15.5	7.1	9
12	21	17.5	21.6	23.6	16	7.6	10
14	23	20.5	24.6	24.1	16.5	7.6	10
16	26	22	28	27	18	9	11.5
18	29	24	30	29.5	19.5	10	12.5
20	31	29.5	35	31.5	22	9.5	12.5
22	33	29.5	35	31	21.5	9.5	12.5
24	35	32	38	33	23.5	9.5	12.5
25	36	32	38	36	26.5	9.5	12.5
28	40	36	42	37.5	26.5	11	14
30	43	39.2	45	37.5	26.5	11	14
32	46	42.2	48	39.5	28.5	11	14
33	47	44.2	50	40	28.5	11.5	14.5
35	49	46.2	52	40	28.5	11.5	14.5
38	53	49.2	55	45	33.5	11.5	14.5
40	56	52.2	58	47.5	36	11.5	14.5
43	59	53.3	62	52.8	38.5	14.3	17
45	61	55.3	64	53.8	39.5	14.3	17
48	64	59.7	68.4	60.3	46	14.3	17
50	66	60.8	69.3	59.3	45	14.3	17
53	69	63.8	72.3	61.3	47	14.3	17
55	71	66.5	75.4	64.3	49	15.3	18
58	76	69.5	78.4	70.3	55	15.3	18
60	78	71.5	80.4	70.3	55	15.3	18
63	83	74.5	83.4	70.3	55	15.3	18
65	84	76.5	85.4	70.3	55	15.3	18
68	88	82.7	91.5	71	55	16	19
70	90	83	92	72.3	57	15.3	18
75	98	90.2	99	77.3	62	15.3	18
80	100	95.2	104	78.1	61.8	16.3	19

Operating limits :

Pressure : 10 bar
 Temperature : -20 °C - 204 °C (Viton)
 Speed : 15 m/s

Faces :

Carbon vs S/S
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

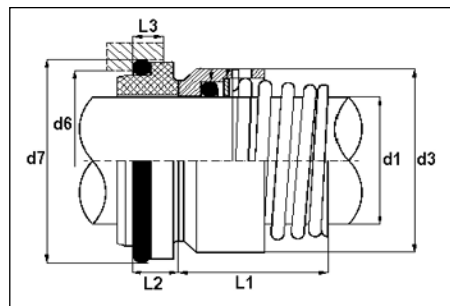
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type 83



ROTEN



d1	d3	d6	d7	L1	L2	L3
10	19	14	18.1	15	5.5	4
11	21	16.5	20.6	18	5.5	4
12	21	16.5	20.6	18	5.5	4
13	23	19	23.1	22	6	4
14	23	19	23.1	22	6	4
15	24	21	26.9	22	7	5
16	26	21	26.9	23	7	5
17	26	21	26.9	23	7	5
18	29	25	30.9	24	8	5
19	31	25	30.9	25	8	5
20	31	25	30.9	25	8	5
21	33	30	35.4	25	8	5.5
22	33	30	35.4	25	8	5.5
23	35	30	35.4	27	8	5.5
24	35	30	35.4	27	8	5.5
25	36	33	38.2	27	8.5	5.5
26	36	33	38.2	27	8.5	5.5
27	36	33	38.2	27	8.5	5.5
28	40	38	43.3	29	9	5.5
29	43	38	43.3	30	9	5.5
30	43	38	43.3	30	9	5.5
31	46	38	43.3	30	9	5.5
32	46	38	43.3	30	9	5.5
33	46	45	53.5	39	11.5	7.5
34	49	45	53.5	39	11.5	7.5
35	49	45	53.5	39	11.5	7.5
36	49	45	53.5	39	11.5	7.5
37	49	45	53.5	39	11.5	7.5

d1	d3	d6	d7	L1	L2	L3
38	53	52	60.5	39	11.5	7.5
39	56	52	60.5	39	11.5	7.5
40	56	52	60.5	39	11.5	7.5
41	56	52	60.5	39	11.5	7.5
42	59	52	60.5	39	11.5	7.5
43	59	52	60.5	39	11.5	7.5
44	61	57	65.5	41	11.5	7.5
45	61	57	65.5	41	11.5	7.5
46	61	57	65.5	41	11.5	7.5
47	64	57	65.5	41	11.5	7.5
48	64	57	65.5	41	11.5	7.5
49	64	57	65.5	41	11.5	7.5
50	66	64	72.5	45	11.5	7.5
55	71	64	72.5	47	11.5	7.5
60	78	72	79.3	49	11.5	7.5
65	84	77	84.5	51	11.5	7.5
70	89.6	82	89.5	51	11.5	7.5

Operating limits :

Pressure : 10 bar
 Temperature : -30 °C - 204 °C (Viton)
 Speed : 15 m/s

Faces :

Carbon vs S/Steel
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Supplied in Viton as standard
 Nitrile and EPDM available on request

Tel : 031-7052020

Fax : 031-7052022

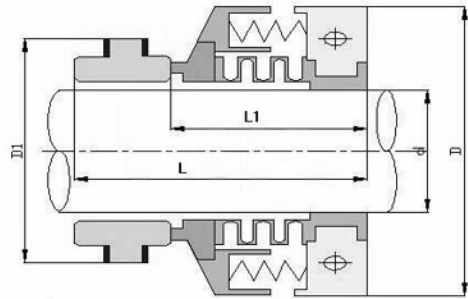
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

ACID seal



PTFE Bellow seal



* example only - various designs exist

Various sizes and specifications exist, please consult with sales for details

Faces :

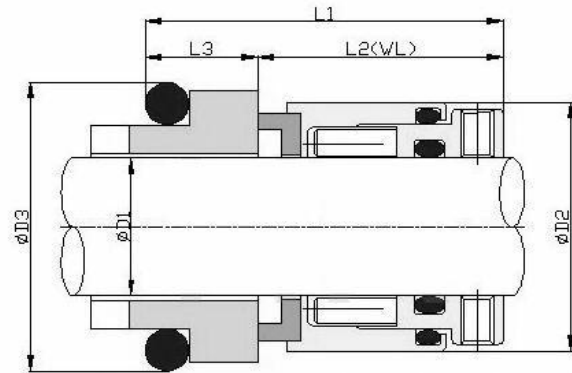
PTFE vs Ceramic
Sintered Silicon vs Sintered Silicon

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. .
If in doubt contact the above.



Shaft sizes 18 - 55 mm page 1 of 2

Shaft					
Size D1	D2	D3	L1	L2	L3
18	32.0	33	40.0	30.0	10.0
19	33.0	35	40.0	30.0	10.0
20	34.0	35	40.0	30.0	10.0
22	36.0	37	40.0	30.0	10.0
24	38.0	39	40.0	30.0	10.0
25	39.0	40	40.0	30.0	10.0
28	42.0	43	40.0	30.0	10.0
30	44.0	45	42.5	32.5	10.0
32	46.0	48	42.5	32.5	10.0
33	47.0	48	42.5	32.5	10.0
35	48.0	50	42.5	32.5	10.0
38	52.8	56	45.0	34.0	11.0
40	56.0	58	45.0	34.0	11.0
42	56.0	61	45.0	34.0	11.0
43	59.0	61	45.0	34.0	11.0
44	59.0	63	45.0	34.0	11.0
48	62.4	66	45.0	34.0	11.0
50	65.6	70	47.5	34.5	13.0
53	68.8	73	47.5	34.5	13.0
55	70.8	75	47.5	34.5	13.0

Operating limits :

Pressure : 25 bar
 Temperature : -30°C - 204°C
 Speed : 20 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

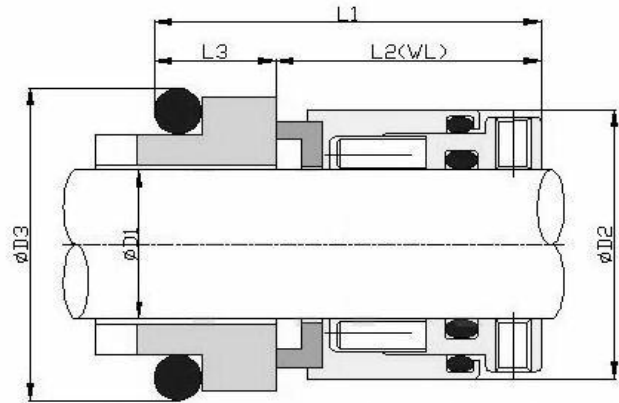
Viton as standard
 Nitrile and EPDM available on request
 Kalrez on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
 If in doubt contact the above.



Shaft sizes 58 - 90 mm page 2 of 2

Shaft					
Size D1	D2	D3	L1	L2	L3
58	75.2	78	47.5	34.5	13.0
60	75.2	80	47.5	34.5	13.0
63	78.3	83	47.5	34.5	13.0
65	84.2	85	49.0	36.0	13.0
68	84.2	90	51.3	36.0	15.3
70	87.4	92	51.3	36.0	15.3
73	90.6	97	51.3	36.0	15.3
75	93.7	97	51.3	36.0	15.3
80	96.9	105	51.7	36.0	15.7
85	103.3	110	51.7	36.0	15.7
90	106.4	115	51.7	36.0	15.7

Operating limits :

Pressure : 25 bar
 Temperature : -30°C - 204°C
 Speed : 20 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten

Elastomer :

Viton as standard
 Nitrile and EPDM available on request
 Kalrez available on request

Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

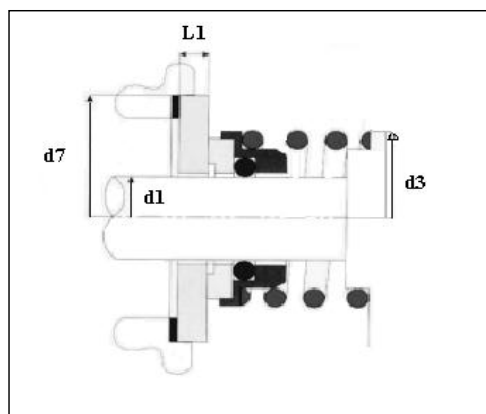
All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Dairy



MECHANICAL SEALING SOLUTIONS

1" PUMA



d1	d3	d7	L4
1"	41.25	68.2	7.8

Faces :

Carbon vs S/Steel

Elastomer :

Supplied in EPDM as standard
Viton available on request

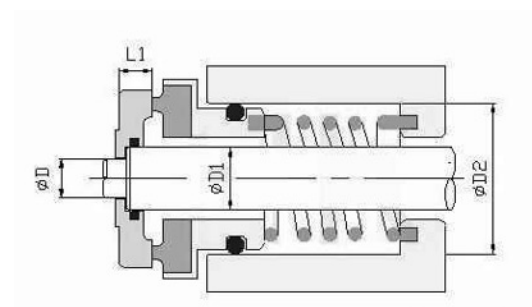
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
If in doubt contact the above.

Tuchenhagen



D	D1	D2	L2
21	25.0	50.0	11.0
28	35.0	50.0	11.0

Used extensively in Food process , Dairy and Brewery Industry

Faces :

Carbon vs Ceramic
Silicon vs Silicon

Elastomer :

EPDM as standard
Alternative elastomers available
on request

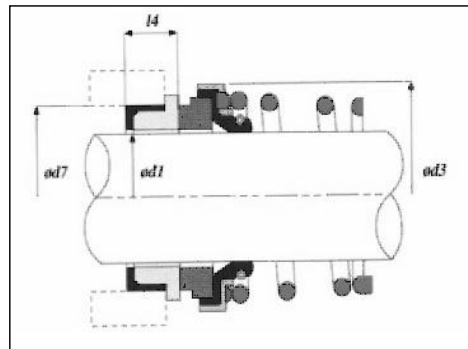
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

Type NDE



d1	d3	d7	L4
20	40.6	30	9.8

Faces :

Carbon vs S/Steel

Elastomer :

Supplied in Nitrile or Viton as standard

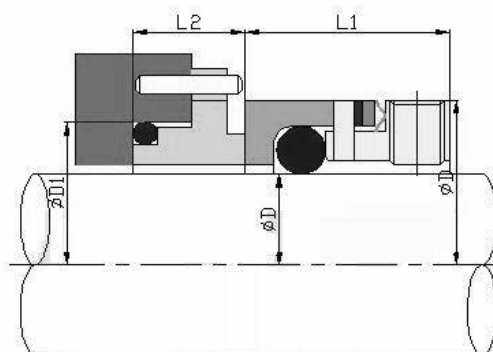
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits.
If in doubt contact the above.

IC seal



Model type	D	D1	D3	L1	L2
20	35	44.5	45.5	19.1	9.2
30	50	62.0	61.9	21.1	10.4
40	70	85.0	88.9	25.8	14.1

Johnson Classic IC pumps

Faces :

Carbon vs S/Steel
Silicon vs Silicon
Tungsten vs Tungsten

Elastomer :

Viton as standard
Nitrile and EPDM on request

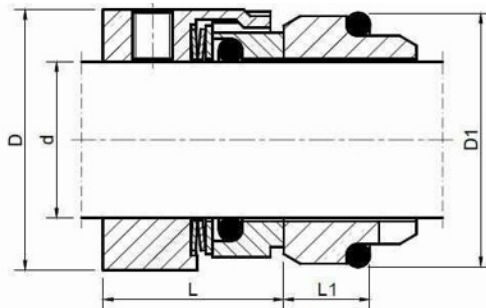
Tel : 031-7052020

Fax : 031-7052022

Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

T7N



Shaft size d	D	D1	L	L1
14	25	25	25	10
16	27	27	25	10
18	33	33	26	11.5
20	35	35	26	11.5
22	37	37	26	11.5
24	39	39	28.5	11.5
25	40	40	28.5	11.5
28	43	43	31	11.5
30	45	45	31	11.5
32	48	47	31	11.5
33	48	48	31	11.5
35	50	50	31	11.5
38	56	55	31	14
40	58	57	31	14
43	61	60	31	14
45	63	62	31	14
48	66	65	31	14
50	70	67	32.5	15
53	73	70	32.5	15
55	75	72	32.5	15
58	78	79	37.5	15
60	80	81	37.5	15
63	83	84	37.5	15
65	85	86	37.5	15
68	90	89	34.5	18
70	92	91	42	18
75	97	99	42	18
80	105	104	41.8	18.2
85	110	109	41.8	18.2
90	115	114	46.8	18.2
95	120	119	47.8	17.2
100	125	124	47.8	17.2

Operating limits :

Pressure : 16 Bar
 Temperature : -40 °C - +205 °C
 Speed : 20 m/s

Faces :

Carbon vs Ceramic
 Silicon vs Silicon
 Tungsten vs Tungsten - on request

Elastomer :

Viton
 EPDM

Tel : 031-7052020

Fax : 031-7052022

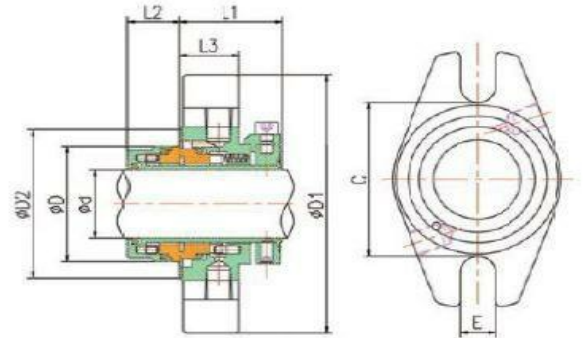
Email : Wilfred@mechseals.co.za

All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.

RB Cartridge



SINGLE CARTRIDGE



d	C	D	D1	D2	E	L1	L2	L3
24	62	43.5	104	60	12.5	38	19	22
25	62	43.5	104	60	12.5	38	19	22
28	62	46.5	104	60	12.5	38	19	22
30	65	48.5	104	63	12.5	38	19	22
32	67	50	104	66	12.5	38	19	22
33	67	50	104	65	12.5	38	19	22
35	70	53.5	115	68	12.5	38	19	22
38	75	56.5	125	72	14.7	38	19	22
40	75	53.5	125	73	14.7	38	19	22
43	80	61.5	133	78	14.7	38	19	22
45	81	63.5	140	79	14.7	38	19	22
48	84	66.5	140	82	14.7	38	19	22
50	87	68.5	140	85	14.7	38	19	22
53	90	71.5	150	88	17.5	38	19	22
55	92	73.5	150	90	17.5	38	19	22
60	100	78.5	160	98	17.5	38	19	22
65	105	83.5	165	103	17.5	38	19	22
70	120	88.5	180	118	17.5	38	19	22
75	125	100	190	123	17.5	36	26	23
80	130	105	190	128	17.5	36	26	23
85	135	110	220	133	21.5	36	26	23
90	140	115	220	138	21.5	36	26	23
95	145	120	220	143	21.5	36	26	23
100	150	125	220	148	21.5	36	26	23

d	C	D	D1	D2	E	L1	L2	L3
1	2.441	1.713	4.094	2.362	0.492	1.496	0.748	0.866
1 1/8	2.441	1.831	4.094	2.362	0.492	1.496	0.748	0.866
1 1/4	2.638	1.988	4.094	2.559	0.492	1.496	0.748	0.866
1 3/8	2.756	2.106	4.528	2.677	0.492	1.496	0.748	0.866
1 1/2	2.953	2.224	4.921	2.974	0.579	1.496	0.748	0.866
1 5/8	3.15	2.382	5.236	3.071	0.579	1.496	0.748	0.866
1 3/4	3.189	2.5	5.512	3.11	0.579	1.496	0.748	0.866
1 7/8	3.307	2.618	5.512	3.228	0.579	1.496	0.748	0.866
2	3.425	2.697	5.512	3.346	0.579	1.496	0.748	0.866
2 1/8	3.543	2.815	5.906	3.485	0.689	1.496	0.748	0.866
2 1/4	3.74	3.012	6.102	3.661	0.689	1.496	0.748	0.866
2 3/8	3.937	3.091	6.299	3.958	0.689	1.496	0.748	0.866
2 1/2	4.055	3.209	6.469	3.975	0.689	1.496	0.748	0.866
2 5/8	4.331	3.406	6.693	4.252	0.689	1.496	0.748	0.866
2 3/4	4.724	3.404	7.087	4.648	0.689	1.496	0.748	0.866
2 7/8	4.843	3.858	7.48	4.764	0.689	1.417	1.024	0.906
3	4.921	3.937	7.48	4.843	0.689	1.417	1.024	0.906
3 1/8	5.118	4.135	7.48	5.039	0.689	1.417	1.024	0.906
3 1/4	5.236	4.252	8.661	5.157	0.846	1.417	1.024	0.906
3 3/8	5.315	4.331	8.661	5.236	0.846	1.417	1.024	0.906
3 1/2	5.512	4.528	8.661	5.433	0.846	1.417	1.024	0.906
3 5/8	5.591	4.606	8.661	5.512	0.846	1.417	1.024	0.906
3 3/4	5.709	4.724	8.661	5.63	0.846	1.417	1.024	0.906
3 7/8	5.906	4.921	8.661	5.827	0.846	1.417	1.024	0.906
4	5.906	4.921	8.661	5.927	0.846	1.417	1.024	0.906

Technical features :

Single cartridge seal
Balanced
Stationary multiple springs design
Springs isolated from media
Floating faces

Operating limits :

Shaft : 25-100mm ,1" - 4"
Pressure : 25 Bar
Temperature : -40 °C - 200 °C
Speed : 25 m/s

Materials :

Rotary faces : carbon graphite, silicon carbide, tungsten carbide
Stationary seats : silicon carbide , tungsten carbide
O-rings : EPDM, Viton, Nitrile, other on request
Springs : S/S 316, Hastelloy C

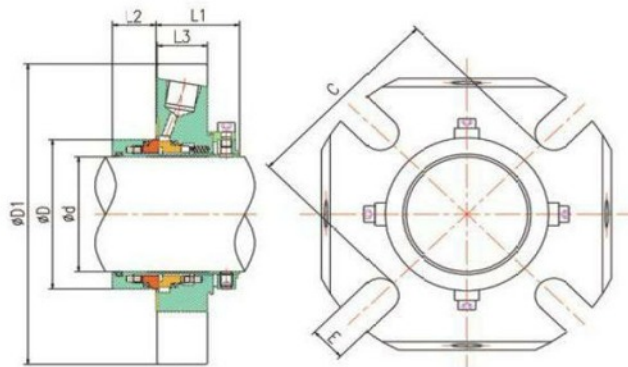
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Email : Wilfred@mechseals.co.za

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SINGLE CARTRIDGE SEAL



d	D	D1	L1	L2	L3	C	E
25	43	105	42.4	24.6	25.4	62	13.2
28	46	105	42.4	24.6	25.4	62	13.2
30	48	105	42.4	24.6	25.4	65	13.2
32	49.8	108	42.4	24.6	25.4	67	13.2
33	49.8	108	42.4	24.6	25.4	67	13.2
35	53	113	42.4	24.6	25.4	70	13.2
38	56	123	42.4	24.6	25.4	75	14.2
40	58	123	42.4	24.6	25.4	75	14.2
42	60.5	133	42.4	24.6	25.4	80	14.2
43	60.5	133	42.4	24.6	25.4	80	14.2
45	62.5	138	42.4	24.6	25.4	81	14.2
48	65.6	138	42.4	24.6	25.4	84	14.2
50	68	148	42.4	24.6	25.4	87	14.2
53	72	148	42.4	24.6	25.4	97	18
55	73	148	42.4	24.6	25.4	90	18
60	78	157	42.4	24.6	25.4	102	18
65	84.8	163	42.4	24.6	25.4	109	18
70	93	178	42.4	24.6	25.4	118	18
75	100	190	57.4	26.6	28	129	18
80	106.4	195	57.4	26.6	28	135	18
85	109.5	198	57.4	26.6	28	139	22
90	115.9	205	57.4	26.6	28	145	22
95	119.1	208	57.4	26.6	28	148	22
100	125.4	218	57.4	26.6	28	154	22

d	D	D1	L1	L2	L3	C	E
1	1.693	4.134	1.669	0.969	1	2.44	0.52
1.125	1.811	4.134	1.669	0.969	1	2.44	0.52
1.25	1.96	4.33	1.669	0.969	1	2.64	0.52
1.375	2.086	4.449	1.669	0.969	1	2.75	0.52
1.5	2.2	4.842	1.669	0.969	1	2.95	0.52
1.625	2.34	4.842	1.669	0.969	1	3.03	0.599
1.75	2.46	5.433	1.669	0.969	1	3.19	0.599
1.875	2.582	5.433	1.669	0.969	1	3.19	0.599
2	2.677	5.827	1.669	0.969	1	3.43	0.599
2.125	2.834	5.827	1.669	0.969	1	3.82	0.709
2.25	2.96	6.181	1.669	0.969	1	3.94	0.709
2.375	3.07	6.181	1.669	0.969	1	4.02	0.709
2.5	3.212	6.417	1.669	0.969	1	4.17	0.709
2.625	3.338	6.417	1.669	0.969	1	4.29	0.709
2.75	3.66	7.008	1.669	0.969	1	4.65	0.709
2.875	3.811	7.283	2.26	1.047	1.102	4.96	0.709
3	3.937	7.48	2.26	1.047	1.102	5.079	0.709
3.125	4.063	7.677	2.26	1.047	1.102	5.197	0.709
3.25	4.189	7.677	2.26	1.047	1.102	5.315	0.709
3.375	4.311	7.795	2.26	1.047	1.102	5.472	0.866
3.5	4.437	7.795	2.26	1.047	1.102	5.591	0.866
3.625	4.563	8.071	2.26	1.047	1.102	5.709	0.866
3.75	4.689	8.189	2.26	1.047	1.102	5.827	0.866
4	4.937	8.583	2.26	1.047	1.102	6.063	0.866

Technical features :

Single cartridge seal
Balanced
Stationary multiple springs design
Springs isolated from media
Floating faces

Operating limits :

Shaft : 25-100mm ,1" - 4"
Pressure : 25 Bar
Temperature : -40 °C - 200 °C
Speed : 25 m/s

Materials :

Rotary faces : carbon graphite, silicon carbide, tungsten carbide
Stationary seats : silicon carbide , tungsten carbide
O-rings : EPDM, Viton, Nitrile, other on request
Springs : S/S 316, Hastelloy C
Other metal components : S/S 316

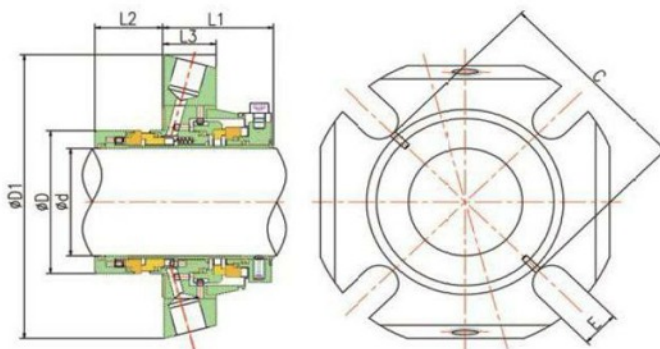
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Email : Wilfred@mechseals.co.za

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DOUBLE CARTRIDGE SEAL



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

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

Technical features :

Dual cartridge seal
Double balanced
Stationary multiple springs design
Springs isolated from media
Floating faces

Operating limits :

Shaft : 25-100mm ,1" - 4"
Pressure : 25 Bar
Temperature : -40°C - 200°C
Speed : 25 m/s

Materials :

Rotary faces : carbon graphite, silicon carbide, tungsten carbide
Stationary seats : silicon carbide , tungsten carbide
O-rings : EPDM, Viton, Nitrile, other on request
Springs : S/S 316, Hastelloy C
Other metal components : S/S 316

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All dimensions and limits are for guidance purposes only. Shaft dimension and medium are critical in determining correct limits. If in doubt contact the above.