



NINGBO HUAQIU INDUSTRY AND TRADE CO.,LTD

NingBo HuaQiang Mechanical Seal Factory



2025 HQ Catalogue 1-A (Standard Mechanical Seals)

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DESCRIPTION

Standard Mechanical Seals.....	Catalogue-1
Cartridge, Metal Bellow Seals.....	Catalogue-2
O.E.M Seals(A.B.S., Alfa Laval, APV, Andritz, Compressor, Fristam, Flygt, Grundfos, Hilge, Lowara, K.S.B. , Sulzer, Tsurumi Seals and so on).....	Catalogue-3
Seat Series.....	Catalogue-4
Mixer and Agitator, Kettle, Desulfurization, Slurry Seals, Nozzle, Rotary Joint.....	Catalogue-5



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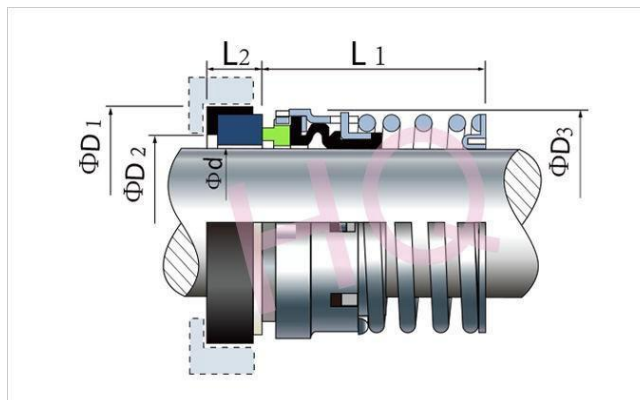


HQ1



Pressure: $\leq 1.4\text{Mpa}$
 Speed: $\leq 18\text{m/s}$
 Material: V,Q1,Q2,U2,U1,
 B,A,P,E,V,F,G

Type: Elastomeric bellows mechanical seal
 Replacement: AES P05U, Vulcan A5, Burgmann
 MG901/D1-G55, Crane1(US),
 Flowserve51
 Temperature: -20°C to $+120^{\circ}\text{C}$



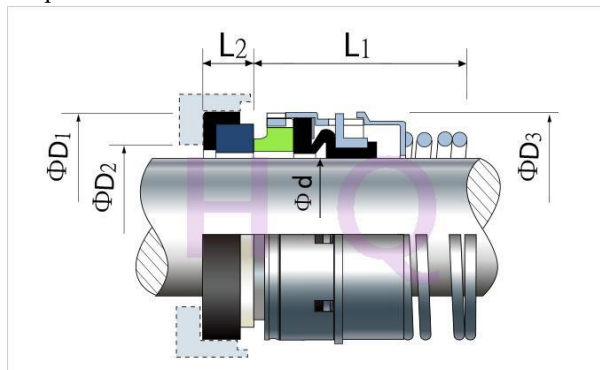
Size (Inch)	Size (mm)	D1	D2	D3	L1	L2
0.500	12	25.40	19.05	23.80	30.16	7.93
	14	31.75	23.80	27.76	33.32	10.28
0.625	16	31.75	23.80	27.76	33.32	10.28
0.750	18	34.93	26.98	30.94	33.32	10.28
	20	38.10	30.15	34.11	34.93	10.28
0.875	22	38.10	30.15	34.11	34.93	10.28
	24	41.28	33.32	38.10	39.67	11.10
1.000	25	41.28	33.32	38.10	39.67	11.10
1.125	28	44.44	36.50	41.28	41.28	11.10
	30	47.63	37.90	46.02	41.28	11.10
1.250	32	47.63	37.90	46.02	41.28	11.10
	33	50.80	42.84	48.68	42.85	11.00
1.375	35	50.80	42.84	48.68	42.85	11.00
1.500	38	53.98	46.05	51.85	42.85	11.00
1.625	40	60.38	50.80	58.10	50.80	12.70
	43	63.50	53.97	61.27	50.80	12.70
1.750	45	63.50	53.97	61.27	50.80	12.70
1.875	48	66.68	57.15	64.44	53.98	12.70
	48	69.85	60.32	67.21	53.98	12.70
2.000	50	69.85	60.32	67.21	53.98	12.70
2.125	53	76.20	60.32	72.02	60.33	14.28
2.250	55	79.38	61.90	75.30	60.33	14.28
2.375	60	82.55	67.39	78.30	63.50	14.28
2.500	63	85.73	68.25	81.54	63.50	14.28
2.625	65	85.73	71.24	86.22	69.85	15.90
2.750	70	88.90	74.60	89.40	73.03	15.90
2.875	73	95.25	77.77	92.57	73.03	15.90
3.000	75	98.43	80.95	95.75	73.03	15.90



Pressure: $\leq 1.4\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,
 B,A,P,E,V,F,G

Type: Elastomeric bellows mechanical seal
 Replacement: AES P01/P01T, Burgmann MG910/D1- D50,
 Crane1A(N seat), Vulcan10, Roten51,
 Flowserve100

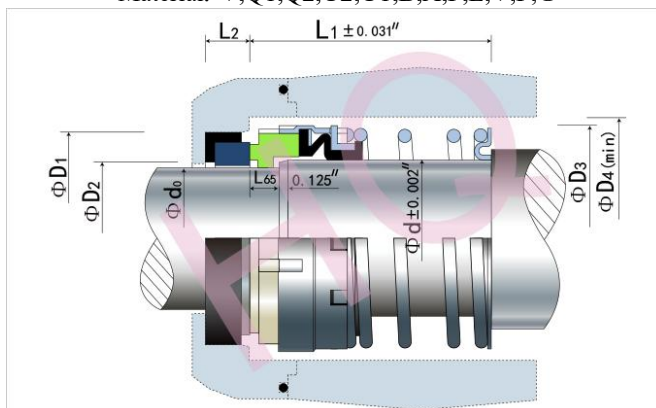
Temperature: -20°C to $+120^{\circ}\text{C}$



Size (inch)	d	D1	D2	D3	L1	L2
0.375	9.5	24.60	11.0	22	44	8.7
0.500	12.7	27.80	13.5	25	44	8.7
0.625	15.8	30.95	17.0	29	44	10.3
0.750	19.0	34.15	20.0	32	44	10.3
0.813	20.6	35.70	21.5	33	44	10.3
0.875	22.2	37.30	23.0	35	44	10.3
1.000	25.4	40.50	26.5	38	44	10.3
1.125	28.5	47.65	29.5	46	60	11.9
1.250	31.7	50.80	32.5	49	60	11.9
1.375	34.9	54.00	36.5	52	60	11.9
1.500	38.1	57.15	39.5	56	60	11.9
1.625	41.2	60.35	42.5	59	60	11.9
1.750	44.4	63.50	46.0	62	71	11.9
1.875	47.6	66.70	49.0	65	71	11.9
2.000	50.8	69.85	52.0	68	71	13.5
2.125	53.9	73.05	55.5	71	71	13.5
2.250	57.1	76.20	58.5	75	71	13.5
2.375	60.3	79.40	61.5	78	71	13.5
2.500	63.5	82.55	65.0	81	71	13.5
2.625	66.6	92.10	68.0	86	70	15.9
2.750	69.8	95.25	71.0	89	70	15.9
2.875	73.0	98.45	74.5	92	73	15.9
3.000	76.2	101.60	77.5	95	73	15.9
3.125	79.3	111.15	80.5	102	79	19.9
3.250	82.5	114.30	84.0	105	79	19.9
3.375	85.7	117.50	87.0	108	79	19.9
3.500	88.9	120.65	90.5	111	79	19.9
3.625	92.0	123.85	93.5	114	83	19.9
3.750	95.2	127.00	96.5	117	83	19.9
3.875	98.4	130.20	100.0	121	86	19.9
4.000	101.6	133.35	103.0	124	86	19.9

d (mm)	Size code	D1	D3	L1	L2
12	120	27.79	25	44	8.74
14	140	30.95	29	44	10.32
16	160	30.95	29	44	10.32
18	180	34.15	32	44	10.32
19	190	34.15	32	44	10.32
20	200	35.70	33	44	10.32
22	220	37.30	35	44	10.32
24	240	40.50	38	44	10.32
25	250	40.50	38	44	10.32
27	270	47.63	46	60	11.99
28	280	47.63	46	60	11.99
29	290	47.63	46	60	11.99
30	300	50.80	49	60	11.99
32	320	50.80	49	60	11.99
33	330	53.98	52	60	11.99
34	340	53.98	52	60	11.99
35	350	53.98	52	60	11.99
38	380	57.15	56	60	11.99
40	400	60.35	59	60	11.99
42	420	63.50	62	71	11.99
43	430	63.50	62	71	11.99
45	450	63.50	62	71	11.99
48	480	66.70	65	71	11.99
50	500	69.85	68	71	13.50
53	530	73.05	71	71	13.50
54	540	73.05	71	71	13.50
55	550	76.20	75	71	13.50
60	600	79.40	78	71	13.50
63	630	82.55	81	71	13.50
65	650	92.10	86	70	15.90
70	700	95.25	89	70	15.90
73	730	98.45	92	73	15.90
75	750	101.65	95	73	15.90
80	800	114.30	105	79	20.00
90	900	123.85	114	83	20.00
95	950	127.00	118	83	20.00
100	1000	133.35	124	86	20.00

Type: Elastomeric bellows mechanical seal
 Replacement: Crane1B
 Temperature: -20°C to +120°C
 Pressure: $\leq 2.5\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V, Q1, Q2, U2, U1, B, A, P, E, V, F, G



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d (inch)	d0 (max)	D1	D2	D3	D4 (min)	L1	L2	L65
1.000	0.875	1.265	1.312	1.500	1.750	1.875	0.437	0.343
1.125	0.000	1.750	1.437	1.625	1.875	1.937	0.437	0.343
1.250	1.125	1.875	1.563	1.812	2.062	1.937	0.437	0.343
1.375	1.250	2.000	1.687	1.870	2.125	2.000	0.437	0.343
1.500	1.375	2.125	1.813	2.000	2.250	2.000	0.437	0.343
1.625	1.500	2.375	2.000	2.250	2.500	2.375	0.500	0.437
1.750	1.625	2.500	2.125	2.375	2.625	2.375	0.500	0.437
1.875	1.750	2.625	2.25	2.500	2.750	2.500	0.500	0.437
2.000	1.875	2.750	2.375	2.625	2.937	2.500	0.500	0.437
2.125	2.000	3.000	2.375	2.812	3.125	2.750	0.562	0.500
2.250	2.125	3.125	2.437	2.937	3.250	2.750	0.562	0.500
2.375	2.250	3.250	2.563	3.062	3.375	2.875	0.562	0.500
2.500	2.375	3.375	2.687	3.187	3.500	2.875	0.562	0.500
2.625	2.500	3.375	2.812	3.375	3.750	3.125	0.625	0.562
2.750	2.625	3.500	2.937	3.500	3.875	3.125	0.625	0.562
2.875	2.750	3.750	3.062	3.625	4.000	3.250	0.625	0.562
3.000	2.875	3.875	3.187	3.750	4.187	3.250	0.625	0.562
3.125	2.875	4.000	3.312	4.000	4.437	3.500	0.781	0.625
3.250	3.000	4.125	3.437	4.125	4.562	3.500	0.781	0.625
3.375	3.125	4.250	3.562	4.250	4.687	3.500	0.781	0.625
3.500	3.250	4.375	3.687	4.375	4.812	3.500	0.781	0.625
3.625	3.375	4.500	3.806	4.500	4.937	3.625	0.781	0.625
3.750	3.500	4.625	3.937	4.625	5.062	3.625	0.781	0.625
3.875	3.750	4.750	4.062	4.750	5.187	3.750	0.781	0.625
4.000	3.875	4.875	4.187	4.875	5.312	3.750	0.781	0.625



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Type: Elastomeric bellows mechanical seal

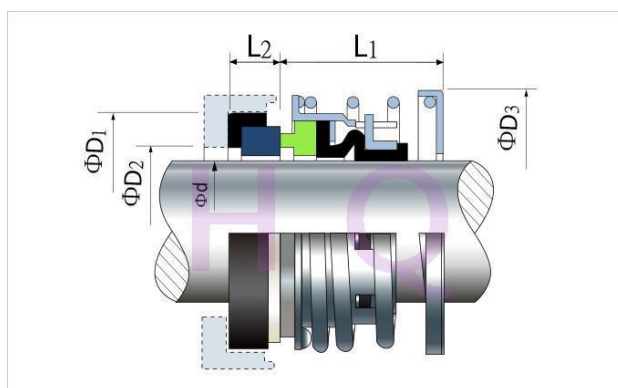
Replacement: AESPO4U, Crane 2(US), Vulcan A4, Flowserve52

Temperature: -20°C to +120°C

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

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (Inch)	d (mm)	D1	D2	D3	L1	L2
HQ2-0.500	12	25.40	19.05	30.14	20.64	7.93
	14	31.75	23.80	33.32	22.23	10.28
HQ2-0.625	16	31.75	23.80	33.32	22.23	10.28
HQ2-0.750	18	34.93	26.98	36.50	22.23	10.28
	20	38.10	30.15	39.67	23.80	10.28
HQ2-0.875	22	38.10	30.15	39.67	23.80	10.28
	24	41.28	33.32	45.50	25.40	11.10
HQ2-1.000	25	41.28	33.32	45.50	25.40	11.10
HQ2-1.125	28	44.44	36.50	48.50	26.97	11.10
	30	47.63	37.90	52.37	26.97	11.10
HQ2-1.250	32	47.63	37.90	52.37	26.97	11.10
	33	50.80	42.84	56.00	28.58	11.00
HQ2-1.375	35	50.80	42.84	56.00	28.58	11.00
HQ2-1.500	38	53.98	46.05	59.2	28.58	11.00
HQ2-1.625	40	60.38	50.80	67.00	34.93	12.70
	43	63.50	53.97	69.85	34.93	12.70
HQ2-1.750	45	63.50	53.97	69.85	34.93	12.70
HQ2-1.875	48	66.68	57.15	73.03	38.10	12.70
	48	69.85	60.32	73.03	38.10	12.70
HQ2-2.000	50	69.85	60.32	76.20	38.10	12.70
HQ2-2.125	53	76.20	60.32	82.55	42.85	14.28
HQ2-2.250	55	79.38	61.9	85.73	42.85	14.28
HQ2-2.375	60	82.55	67.39	88.90	46.02	14.28
HQ2-2.500	63	85.73	68.25	92.08	46.02	14.28
HQ2-2.625	65	85.73	71.24	98.43	49.20	15.90
HQ2-2.750	70	88.90	74.60	101.60	49.20	15.90
HQ2-2.875	73	95.25	77.77	104.78	52.37	15.90
HQ2-3.000	75	98.43	80.95	107.95	52.37	15.90

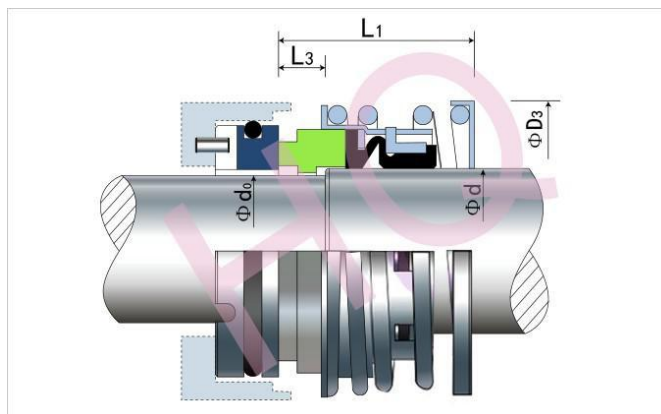
Type: Elastomeric bellows mechanical seal
Replacement: AES PO4U, Crane 2B, Vulcan A4, Flowserve52

Temperature: -20°C to +120°C

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

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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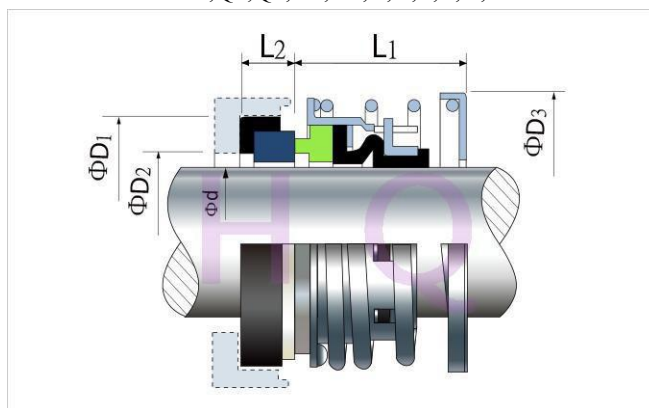
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d (Inch)	d0	D3	D4 Min Bore	L1	L3
1.000	0.875	1.812	2.000	1.312	0.343
1.125	1.000	1.937	2.125	1.375	0.343
1.250	1.125	2.062	2.250	1.375	0.343
1.375	1.250	2.250	2.437	1.437	0.343
1.500	1.375	3.375	2.562	1.437	0.343
1.625	1.500	2.718	2.937	1.750	0.437
1.750	1.625	2.750	3.062	1.750	0.437
1.875	1.750	2.875	3.187	1.875	0.437
2.000	1.875	3.000	3.312	1.875	0.437
2.125	2.000	3.250	3.625	2.062	0.500
2.250	2.125	3.375	3.750	2.062	0.500
2.375	2.250	3.500	3.875	2.187	0.500
2.500	2.375	3.625	4.000	2.187	0.500
2.625	2.500	3.875	4.312	2.312	0.562
2.750	2.625	4.000	4.437	2.312	0.562
2.875	2.750	4.125	4.562	2.437	0.562
3.000	2.875	4.250	4.687	2.437	0.562
3.125	2.875	4.562	5.000	2.562	0.625
3.250	3.000	4.687	5.125	2.562	0.625
3.375	3.125	4.812	5.250	2.562	0.625
3.500	3.250	4.937	5.500	2.562	0.625
3.625	3.375	5.125	5.687	2.687	0.625
3.750	3.500	5.250	5.812	2.687	0.625
3.875	3.625	5.437	6.000	2.812	0.625
4.000	3.750	5.562	6.125	2.812	0.625

HQFBD



Type: Elastomeric bellows mechanical seal
 Replacement: AESPO4U, Crane2(US), Vulcan A4,
 Flowserve52
 Temperature: -20°C to +120°C
 Pressure: $\leq 1.4\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,



d (mm)	D1	D3	L1	L2
16	30	34.0	25	8
18	32	36.8	25	8
20	34	38.8	25	8
22	36	41.5	25	8
25	39	44.8	26	8
28	43	48.5	26	8
30	48	52.0	26	8
35	53	57.0	30	10
40	58	67.0	34	10
45	63	73.0	36	10
50	68	79.0	41	10
55	73	84.0	41	12
60	79	90.0	41	12
65	86	98.5	49	12
70	91	103.5	52	12
75	96	110.5	52	12
80	105	120.0	56	14
85	110	125.0	56	14
90	115	132.0	56	14
95	120	137.0	56	14
100	125	144.0	62	14
110	135	157.0	62	16
120	145	169.5	72	16

d (inch)	D1	D3	L1	L2
3/8	24.60	28.0	25	8.7
1/2	27.80	32.0	25	8.7
5/8	30.95	34.0	25	10.3
3/4	34.15	38.8	25	10.3
7/8	37.30	41.5	25	10.3
1	40.50	44.8	25	10.3
1 1/8	47.65	48.5	33	11.9
1 1/4	50.80	57.0	33	11.9
1 3/8	54.00	57.0	33	11.9
1 1/2	57.15	67.0	33	11.9
1 5/8	60.35	67.0	33	11.9
1 3/4	63.50	73.0	41	11.9
1 7/8	66.70	73.0	41	11.9
2	69.85	79.0	41	13.5
2 1/8	73.05	84.0	41	13.5
2 1/4	76.20	84.0	41	13.5
2 3/8	79.40	90.0	41	13.5
2 1/2	82.55	94.0	41	13.5



HQ20/20T



Type: Elastomeric bellow mechanical seal
 Replacement: AES P02/P02T, Crane 2(N Seat), Vulcan
 20, BURGMANN MG920/D1-G50,
 Roten 21, Flowserve 200
 Temperature: -20°C to +120°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G

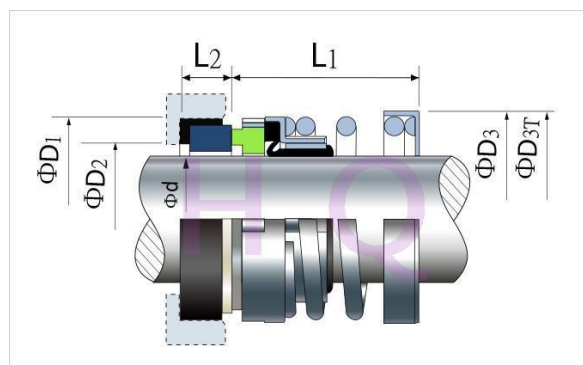


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d (mm)	D1	D3 (HQ20)	D3T (HQ20T)	L2	L1
10	24.6	22.95	20.5	8.74	25.60
11	27.79	23.90	22.8	8.74	25.60
12	27.79	23.90	24.0	8.74	25.60
13	30.95	26.70	24.2	10.32	25.60
14	30.95	26.70	26.7	10.32	25.60
15	30.95	26.70	26.7	10.32	25.60
16	34.15	31.10	30.4	10.32	25.60
18	34.15	31.10	30.4	10.32	25.60
19	35.70	33.40	30.4	10.32	25.60
20	37.30	33.40	33.4	10.32	25.60
22	40.50	39.20	33.4	10.32	25.60
24	40.50	39.20	38.0	10.32	25.60
25	47.63	46.30	39.3	10.32	25.60
28	50.80	49.40	42.0	10.32	25.60
30	50.80	49.40	43.9	11.99	33.54
32	53.95	49.40	45.8	11.99	33.54
33	53.98	52.60	45.8	11.99	33.54
35	53.98	52.60	49.3	11.99	33.54
38	57.15	55.80	52.8	11.99	33.54
40	60.35	62.00	55.8	11.99	33.54
42	63.50	66.00	58.8	11.99	40.68
43	63.50	66.00	58.8	11.99	40.68
44	63.50	66.00	58.8	11.99	40.68
45	63.50	66.00	61.0	11.99	40.68
48	66.70	66.00	64.0	11.99	40.68
50	69.85	71.65	66.0	13.50	40.68
53	73.05	73.30	71.5	13.50	41.20
55	76.00	78.40	71.5	13.50	41.20
58	79.40	82.00	79.40	13.50	41.20
60	79.40	82.00	79.6	13.50	41.20
63	82.50	84.90	81.5	13.50	41.20
65	92.10	88.40	84.6	15.90	49.20
70	95.52	92.60	90.0	15.90	49.20
73	98.45	94.85	92.0	15.90	49.20
75	101.65	101.90	96.8	15.90	49.20

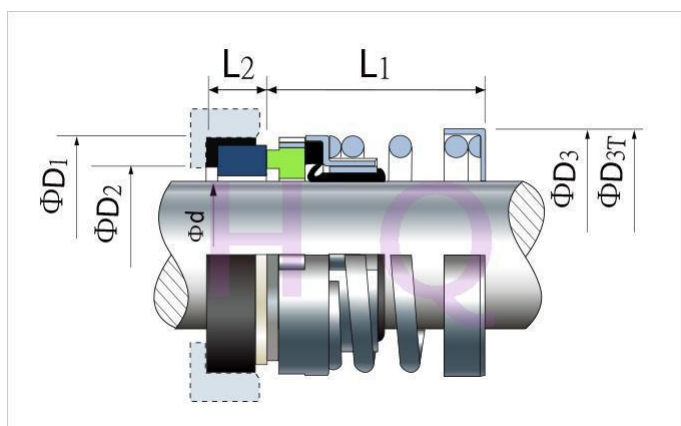


d (inch)	D3 (HQ20)	D3T (HQ20T)	D1	L2	L1
0.375	22.95	20.00	24.60	8.74	25.60
0.500	23.90	22.80	27.79	8.74	25.60
0.625	26.70	26.70	30.95	10.32	25.60
0.750	31.10	30.40	34.15	10.32	25.60
0.875	33.40	33.40	37.30	10.32	25.60
1.000	43.20	39.30	40.50	10.32	25.60
1.125	46.30	42.00	47.63	11.99	33.54
1.250	49.40	45.80	50.80	11.99	33.54
1.375	52.60	49.30	53.98	11.99	33.54
1.500	55.80	52.80	57.15	11.99	33.54
1.625	62.20	55.50	60.35	11.99	33.54
1.750	66.00	61.00	63.50	11.99	40.68
1.875	66.60	64.00	66.70	11.99	40.68
2.000	73.00	66.00	69.85	13.50	40.68
2.125	73.30	71.50	73.05	13.50	41.20
2.250	78.40	79.60	76.20	13.50	41.20
2.375	82.00	79.60	79.40	13.50	41.20
2.500	84.90	81.50	82.55	13.50	41.20
2.625	88.40	84.60	92.10	15.90	49.20
2.750	92.60	90.00	95.25	15.90	49.20
2.875	94.85	92.00	98.45	15.90	49.20
3.000	101.90	96.80	101.65	15.90	49.20

HQ21/21T



Type: Elastomeric bellows mechanical seal
 Replacement: AES P04/P04T, Crane 21, Vulcan 11,
 Roten 21A, Flowserve 110
 Temperature: -20°C to +120°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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Size (inch)	d	D1	D3 (HQ21)	D3 T (HQ21T)	L1	L2
0.500	12.7	25.40	24.0	22.8	20.62	7.95
0.625	15.8	31.75	26.7	26.7	22.23	10.31
0.750	19.1	34.93	31.2	30.4	22.23	10.31
0.875	22.2	38.10	33.5	33.4	23.80	10.31
1.000	25.4	41.28	43.2	39.3	25.40	11.10
1.125	28.6	44.45	46.5	42.0	26.97	11.10
1.250	31.7	47.63	49.5	45.8	26.97	11.10
1.375	34.9	50.80	52.7	49.3	28.58	11.10
1.500	38.1	53.98	56.0	52.8	28.58	11.10
1.625	41.2	60.33	62.2	55.5	34.93	12.70
1.750	44.4	63.50	66.0	61.0	34.93	12.70
1.875	47.6	66.68	66.0	64.0	38.10	12.70
2.000	50.8	69.85	73.0	66.0	38.10	12.70
2.125	53.9	76.20	73.5	71.5	42.85	14.27
2.250	57.1	79.38	79.6	79.6	42.85	14.27
2.375	60.3	82.55	82.0	79.6	46.05	14.27
2.500	63.5	85.73	85.0	81.5	46.05	14.27
2.625	66.6	85.73	88.5	84.6	49.20	15.88
2.700	69.8	88.90	92.7	90.0	49.20	15.88
3.000	76.2	98.40	102.0	96.8	52.37	15.88

d (mm)	D1	D3 (HQ21)	D3T (HQ21T)	L1	L2
12.7	25.40	24.0	22.8	20.62	7.95
15.8	31.75	26.7	26.7	22.23	10.31
19.1	34.93	31.2	30.4	22.23	10.31
22.2	38.10	33.5	33.4	23.80	10.31
25.4	41.28	43.2	39.3	25.40	11.10
28.6	44.45	46.5	42.0	26.97	11.10
31.7	47.63	49.5	45.8	26.97	11.10
34.9	50.80	52.7	49.3	28.58	11.10
38.1	53.98	56.0	52.8	28.58	11.10
41.2	60.33	62.2	55.5	34.93	12.70
44.4	63.50	66.0	61.0	34.93	12.70
47.6	66.68	66.0	64.0	38.10	12.70
50.8	69.85	73.0	66.0	38.10	12.70
53.9	76.20	73.5	71.5	42.85	14.27
57.1	79.38	79.6	79.6	42.85	14.27
60.3	82.55	82.0	79.6	46.05	14.27
63.5	85.73	85.0	81.5	46.05	14.27
66.6	85.73	88.5	84.6	49.20	15.88
69.8	88.90	92.7	90.0	49.20	15.88
73.0	95.20	95.0	92.0	52.37	15.88
76.2	98.40	102.0	96.8	52.37	15.88

d (inch)	D1	D3 (HQ21)	D3T (HQ21T)	L1	L2
0.500	1.000	0.945	0.897	0.812	0.312
0.625	1.250	1.053	1.053	0.875	0.405
0.750	1.375	1.230	1.201	0.875	0.405
0.875	1.500	1.319	1.319	0.937	0.405
1.000	1.625	1.703	1.547	1.000	0.437
1.125	1.750	1.831	1.654	1.062	0.437
1.250	1.875	1.949	1.803	1.062	0.437
1.375	2.000	2.077	1.941	1.125	0.437
1.500	2.125	2.205	2.078	1.125	0.437
1.625	2.375	2.451	2.185	1.375	0.500
1.750	2.500	2.598	2.402	1.375	0.500
1.875	2.625	2.598	2.520	1.500	0.500
2.000	2.750	2.874	2.598	1.500	0.500
2.125	3.000	2.894	2.814	0.688	0.562
2.250	3.125	3.133	3.133	1.688	0.562
2.375	3.250	3.228	3.133	1.812	0.562
2.500	3.375	3.346	3.209	1.812	0.562
2.625	3.375	3.484	3.331	1.937	0.625
2.750	3.500	3.652	3.543	1.937	0.625
2.875	3.750	3.740	3.622	2.062	0.625
3.000	3.875	4.016	3.811	2.062	0.625

HQ22/HQ22T



Type: Elastomeric Bellow Seal, Suit for Godwin
CD/HL Pumps

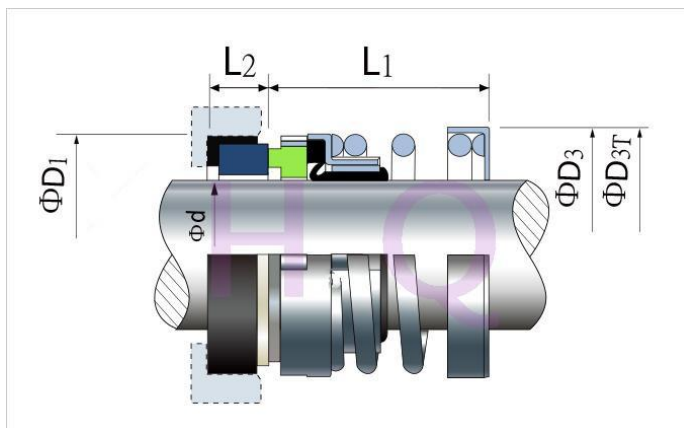
Replacement: AES P05/P05T , Vulcan A5, Crane 1(N Seat),
Flowserve 220, Roten 51A.

Temperature: -30 to +200°C

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

Speed: $\leq 13\text{m/s}$

Material: B, Q2, U2, P, E, N, V, F, G, Alfa



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d		D1		D3(HQ22)		D3T(HQ22T)		L1		L2	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
12.7	0.500	25.4	1.000	24.0	0.945	22.8	0.897	31.7	1.25	7.9	0.312
15.8	0.625	31.7	1.250	26.7	1.053	26.7	1.053	34.9	1.37	10.3	0.405
19.1	0.750	34.9	1.375	31.2	1.230	30.4	1.201	34.9	1.37	10.3	0.405
22.2	0.875	38.1	1.500	33.5	1.319	33.4	1.319	36.5	1.43	10.3	0.405
25.4	1.000	41.2	1.625	43.2	1.703	39.3	1.547	41.2	1.62	11.1	0.437
28.6	1.125	44.4	1.750	46.5	1.831	42.0	1.654	42.8	1.68	11.1	0.437
31.7	1.250	47.6	1.875	49.5	1.949	45.8	1.803	42.8	1.68	11.1	0.437
34.9	1.375	50.8	2.000	52.7	2.077	49.3	1.941	42.8	1.68	11.1	0.437
38.1	1.500	53.9	2.125	56.0	2.205	52.8	2.078	42.8	1.68	11.1	0.437
41.2	1.625	60.3	2.375	62.2	2.451	55.5	2.185	50.8	2.00	12.7	0.500
44.4	1.750	63.5	2.500	66.0	2.598	61.0	2.402	50.8	2.00	12.7	0.500
47.6	1.875	66.6	2.625	66.0	2.598	64.0	2.520	53.9	2.12	12.7	0.500
50.8	2.000	69.8	2.750	73.0	2.874	66.0	2.598	53.9	2.12	12.7	0.500
53.9	2.125	76.2	3.000	73.5	2.894	71.5	2.814	60.3	2.37	14.2	0.562
57.1	2.250	79.3	3.125	79.6	3.134	79.6	3.134	60.3	2.37	14.2	0.562
60.3	2.375	82.5	3.250	82.0	3.228	79.6	3.133	63.5	2.50	14.2	0.562
63.5	2.500	85.7	3.375	85.0	3.346	81.5	3.209	63.5	2.50	14.2	0.562
66.6	2.625	85.7	3.375	88.5	3.484	84.6	3.331	69.8	2.75	15.9	0.625
69.8	2.750	88.9	3.500	92.7	3.652	90.0	3.543	69.8	2.75	15.9	0.625
73.0	2.875	95.2	3.750	95.0	3.740	92.0	3.622	73.0	2.87	15.9	0.625
76.2	3.000	98.4	3.875	102.0	4.016	96.8	3.811	73.0	2.87	15.9	0.625

Type: Elastomeric bellow mechanical seal
 Replacement: Vulcan 24, AES P03, Crane 521,
 Burgmann MG912/D1-G60, Roten
 52/L4K, Flowserve 240
 Pressure: $\leq 1.0\text{Mpa}$ Temperature: -20°C to $+120^{\circ}\text{C}$

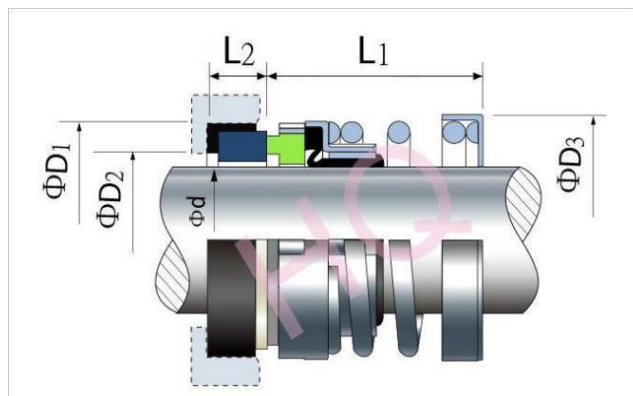


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Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (mm)	D1	D2	D3	L1	L2
10	21	17	20.05	23.9	8.6
12	23	19	21.70	23.9	8.6
14	25	21	24.00	26.4	8.6
16	27	23	26.65	26.4	8.6
18	33	27	30.35	27.5	10.0
20	35	29	33.50	27.5	10.0
22	37	31	33.55	27.5	10.0
24	39	33	38.00	30.0	10.0
25	40	34	39.50	30.0	10.0
28	43	37	42.20	32.5	10.0
30	45	39	43.95	32.5	10.0
32	48	42	46.00	32.5	10.0
33	48	42	46.00	32.5	10.0
35	50	44	49.10	32.5	10.0
38	56	49	53.00	34.0	11.0
40	58	51	56.00	34.0	11.0
43	61	54	58.80	34.0	11.0
45	63	56	61.20	34.0	11.0
48	66	59	64.00	34.0	11.0
50	70	62	66.00	34.5	13.0
53	73	65	70.65	34.5	13.0
55	75	67	71.65	34.5	13.0
58	78	70	79.60	39.5	13.0
60	80	72	80.40	39.5	13.0
63	83	75	81.50	39.5	13.0
65	85	77	84.30	39.5	13.0
68	90	81	89.65	37.2	15.3
70	92	83	89.65	44.7	15.3
75	97	88	96.80	44.7	15.3
80	105	95	104.00	44.3	15.7
85	110	100	107.95	44.3	15.7
90	115	105	111.10	49.3	15.7
95	120	110	119.00	49.3	15.7
100	125	115	124.00	49.3	15.7

HQ560(EA560)

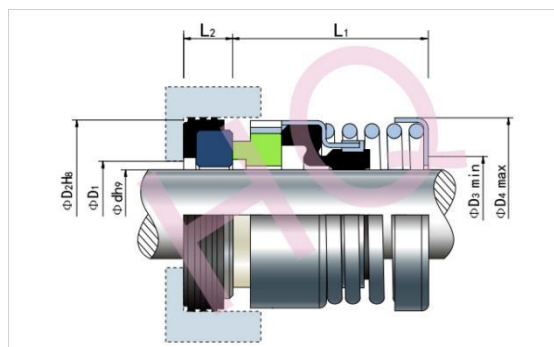


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Type: Elastomeric bellow mechanical seal
 Replacement: Burgmann EA560
 Temperature: -30°C to +200°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 12\text{m/s}$
 Material: V, Q1, Q2, U2, U1, B, A, P, E, V, F, G



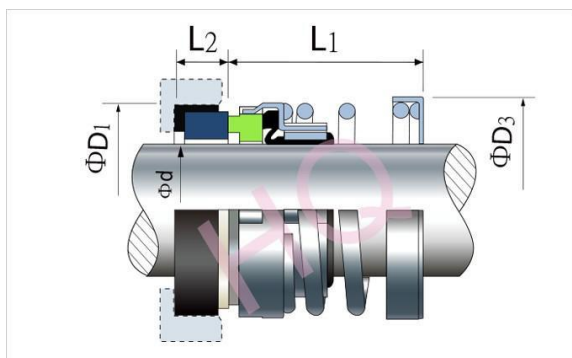
d (mm)	D1	D2	D3	D4	L1	L2
8	13	21	12	20.0	11	7
9	16	24	13	21.0	16	7
10	16	24	14	23.5	16	7
11	16	24	15	23.5	16	7
12	17	26	16	26.0	17	7
13	17	26	17	26.0	17	7
14	21	28	18	28.0	18	7
15	21	28	19	28.0	18	7
16	22	32	20	30.0	19	8
17	22	32	21	32.5	19	8
18	25	35	22	32.5	18	8
19	25	35	23	32.5	18	8
20	27	38	24	35.5	20	8
22	29	40	26	37.5	20	8
25	32	44	29	42.0	20	9
28	34	46	32	45.5	21	9
30	38	50	35	48.0	22	9
32	40	54	37	50.0	24	9
35	44	58	40	54.5	26	10
38	46	60	43	58.5	27	10
40	48	64	45	62.5	28	10
45	52	66	50	66.5	30	10
50	58	72	55	72.5	32	10

d (inch)	D1	D2	D3	D4	L1	L2
0.375	14.3	22.22	12.7	23.5	22.2	6.4
0.500	17.5	25.40	15.9	26.0	22.2	6.4
0.625	20.6	31.75	19.1	30.0	23.8	8.7
0.750	23.8	34.92	22.2	32.5	23.8	8.7
0.875	27.0	38.10	25.4	37.5	25.4	8.7
1.000	30.2	41.27	28.6	44.0	27	9.5
1.125	33.3	44.45	31.8	48.0	28.6	9.5
1.250	36.5	47.62	34.9	50.0	28.6	9.5
0.375	39.7	50.80	38.1	54.5	30.2	9.5
1.500	42.9	53.97	41.3	58.5	30.2	9.5
1.625	46.0	60.32	44.5	64.0	36.5	11.1
1.750	49.2	63.50	47.9	67.0	36.5	11.1
1.875	52.4	66.67	50.8	71.0	39.7	11.1
2.000	55.6	69.85	54.0	73.5	39.7	11.1

HQ560A



Type: Elastomeric bellows mechanical seal
 Replacement: Burgmann EA560
 Temperature: -20°C to +100°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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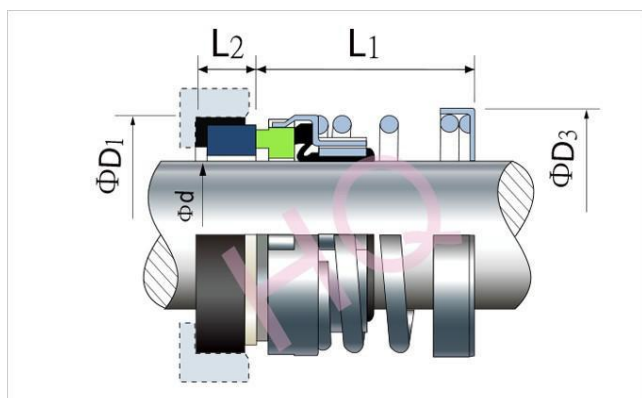
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Size (mm)	d	D1	D3	L1	L2
560A-8	8	21	18.2	11.2	7
560A-9	9	24	18.2	16.2	7
560A-10	10	24	20.6	16.2	7
560A-11	11	24	20.6	16.2	7
560A-12	12	26	21.8	17.2	7
560A-13	13	26	21.8	17.2	7
560A-14	14	28	26.4	18.2	7
560A-15	15	28	26.4	18.2	7
560A-16	16	32	26.4	19.2	8
560A-17	17	32	29.5	19.2	8
560A-18	18	35	29.5	19.2	8
560A-19	19	35	29.5	19.2	8
560A-20	20	38	31.6	20.2	8
560A-22	22	40	33.6	20.2	8
560A-25	25	44	39.6	20.2	9
560A-28	28	46	45.0	21.2	9
560A-30	30	50	46.6	22.2	9
560A-32	32	54	46.6	24.2	9
560A-35	35	58	50.8	26.2	10
560A-38	38	60	54.3	27.2	10
560A-40	40	64	57.3	28.2	10
560A-45	45	66	61.3	30.2	10
560A-50	50	72	67.8	32.2	10

HQ560B



Type: Elastomeric bellows mechanical seal
 Replacement: Burgmann EA560
 Temperature: -20°C to +100°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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Size (Inch)	d	D1	D3	L1	L2
560B-3/8	9.52	22.22	23.5	22.2	6.4
560B-1/2	12.70	25.40	26.0	22.2	6.4
560B-5/8	15.80	31.75	30.0	23.8	8.7
560B-3/4	19.10	34.92	32.5	23.8	8.7
560B-7/8	22.20	38.10	37.5	25.4	8.7
560B-1	25.40	41.27	44.0	27.0	9.5
560B-11/8	28.60	44.45	48.0	28.6	9.5
560B-11/4	31.70	47.62	50.0	28.6	9.5
560B-13/8	34.90	50.80	54.5	30.2	9.5
560B-11/2	38.10	53.97	58.5	30.2	9.5
560B-15/8	41.20	60.32	64.0	36.5	11.1
560B-13/4	44.40	63.50	67.0	36.5	11.1
560B-17/8	47.60	66.67	71.0	39.7	11.1
560B-2	50.80	69.85	73.5	39.7	11.1

HQ560C



Type: Elastomeric bellows mechanical seal

Temperature: -20°C to +120°C

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

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

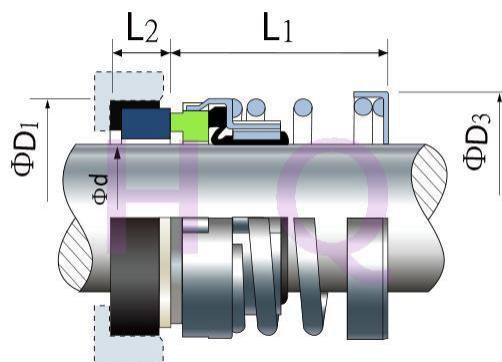
Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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Size (mmm)	d	D1	D3	L1	L2
560C-16	16	27	26.5	25.7	10.3
560C-18	18	33	30.5	25.7	10.3
560C-20	20	35	34.0	27.0	10.3
560C-22	22	37	34.0	27.0	11.0
560C-24	24	39	40.0	29.0	11.0
560C-25	25	40	40.3	29.0	11.0
560C-28	28	43	44.5	31.5	11.0
560C-30	30	45	46.5	31.5	11.0
560C-32	32	48	46.5	31.5	11.0
560C-33	33	48	50.5	31.5	11.0
560C-35	35	50	51.5	31.5	11.0
560C-38	38	56	54.0	34.0	11.0
560C-40	40	58	58.0	32.3	12.7
560C-43	43	61	61.5	32.3	12.7
560C-45	45	63	61.5	32.3	12.7
560C-48	48	66	65.5	32.3	12.7
560C-50	50	70	70.5	34.8	12.7
560C-53	53	73	74.0	33.3	14.2
560C-55	55	75	76.0	33.3	14.2
560C-58	58	78	79.0	38.3	14.2
560C-60	60	80	82.0	38.3	14.2
560C-63	63	83	87.0	38.3	14.2
560C-65	65	85	85.0	36.0	16.0
560C-68	68	90	91.5	36.0	16.0
560C-70	70	92	91.5	44.0	16.0
560C-73	73	93	99.0	44.0	16.0
560C-75	75	97	99.0	44.0	16.0



Type: Elastomeric bellow mechanical seal
Temperature: -20°C to +120°C

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

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

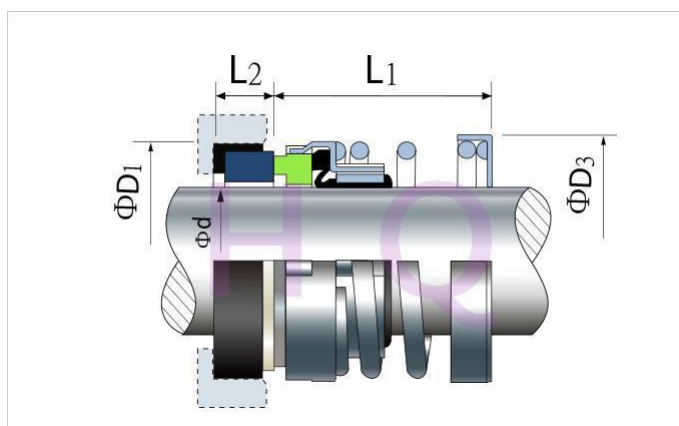
Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



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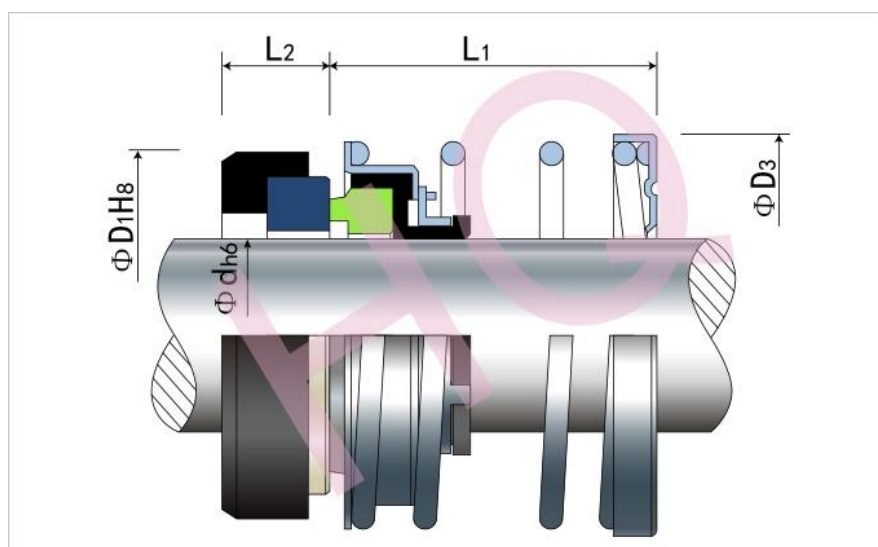


d (mm)	D1	D3	L1	L2
14	30	27.5	18.7	5.0
16	32	28.5	21.0	5.0
18	35	31.2	22.5	7.5
20	35	31.7	21.0	8.0
25	40	40.2	25.5	8.0
28	43	44.1	25.5	8.0
30	45	45.1	25.5	9.0
32	48	49.0	33.5	9.0
33	48	49.0	33.5	9.0
35	50	50.2	33.5	9.0
38	56	55.3	33.5	9.0
40	58	57.0	33.5	9.0
43	61	60.7	36.5	9.5
45	63	62.5	38.0	9.5
48	66	66.5	38.0	9.5
50	70	68.6	38.0	9.5
53	73	70.8	41.0	9.5
55	75	72.4	41.0	9.5
58	78	80.0	42.0	9.5
60	80	83.0	42.0	9.5
65	85	87.2	43.0	9.5
70	92	91.6	45.0	11.0
75	97	99.4	48.0	12.0
80	104	104.6	55.0	12.0
85	109	111.0	64.2	12.0
90	114	113.0	66.2	12.0

HQ70



Type: Elastomeric Bellow Mechanical Seal
 Replacement: MTU FP/S-TYPE
 Temperature: -30°C to +200°C
 Pressure: $\leq 0.6\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D1	D3	L1	L2
10	25.4	22.6	13.5	5.6
13	29.5	31.5	24.0	8.0
14	29.5	31.5	24.0	8.0
15	29.5	31.5	18/24	8.0
16	29.5	31.5	18/24	8.0

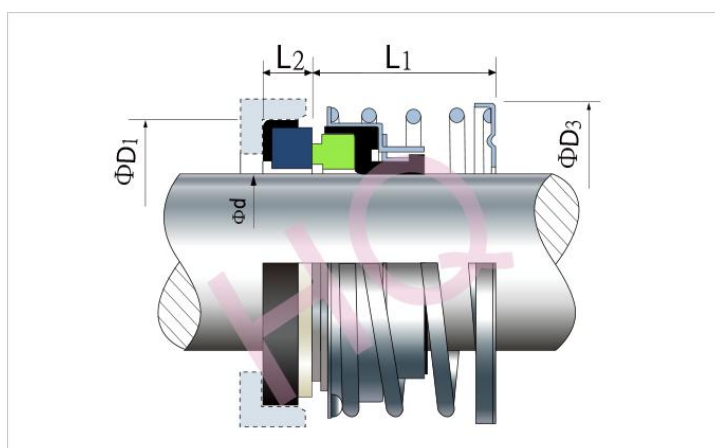
HQ110(BT-PN)



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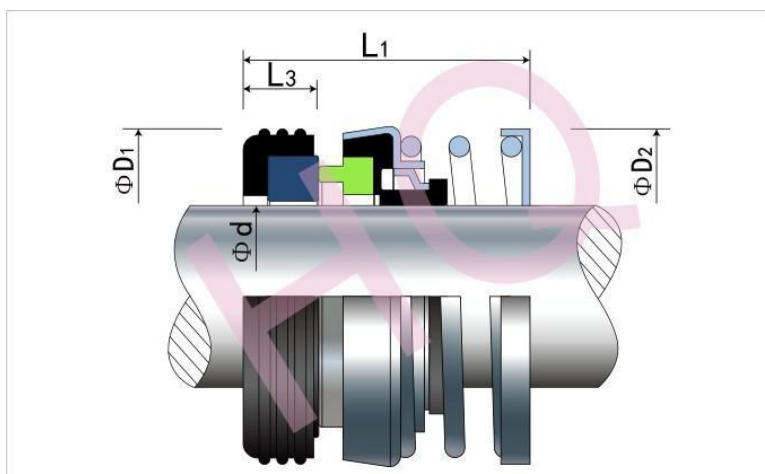
 hq@hqseal.com

Type: Elastomeric Bellow Mechanical Seal
 Replacement: Burgmann BT-PN
 Temperature: -20°C to +120°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (mm)	D1	D3	L1	L2
8	22.0	23	13.5	4.0
8L	25.4	23	13.5	5.5
9.53	25.4	23	13.5	5.5
10	25.4	23	13.5	5.5
13	29.5	32	12.8	8.0
14	29.5	32	12.8	8.0
15	29.5	32	12.8	8.0
16	29.5	32	12.8	8.0
16L	29.5	32	16.3	8.0
20	42.0	44	14.0	8.0
25	42.0	50	17.0	7.0
30	52.0	60	22.0	10.0

HQ166T



Type: Elastomeric Bellow Mechanical Seal

Replacement: Flowserve 21

Temperature: -20 to +120°C

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

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

Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D1	D2	L1	L3
12	27.80	23.3	34.1	8.7
16	30.95	30.1	35.7	10.3
20	35.70	36.3	35.7	10.3
22	37.30	36.3	35.7	10.3
24	40.50	39.4	35.7	10.3
25	40.50	39.4	35.7	10.3
28	47.65	44.4	45.2	11.9
30	50.80	47.6	45.2	11.9
32	50.80	47.6	45.2	11.9
35	54.00	50.8	45.2	11.9
38	57.15	54.0	45.2	11.9
40	60.35	60.3	45.2	11.9
46	63.50	66.7	52.4	11.9
48	66.70	66.7	52.4	11.9
50	69.85	66.7	54.0	13.5

d (inch)	D1	D2	L1	L3
0.375	24.587	23.292	34.138	8.738
0.500	27.788	23.292	34.138	8.738
0.625	30.937	30.099	35.712	10.312
0.750	33.1/34.138	33.071	35.712	6.5/10.312
0.875	37.287	36.297	35.712	10.312
1.000	41.28/40.488	36.421	43.307	10.312
1.125	47.625	44.450	44.907	11.913
1.250	50.800	47.625	44.907	11.913
1.375	53.975	50.800	44.907	11.913
1.500	57.150	53.975	44.907	11.913
1.625	60.325	60.325	44.907	11.913
1.750	63.500	60.325	52.934	11.913
1.875	66.675	63.881	52.934	11.913
2.000	69.850	66.675	54.508	13.487



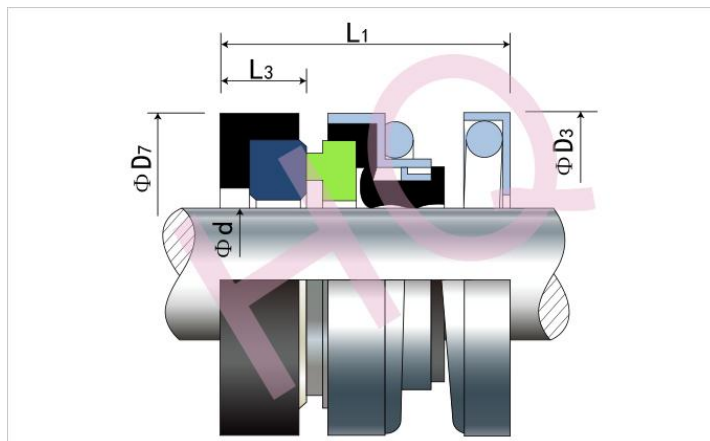
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HQ960

Type: Belasteric Bellow Seal
 Temperature: -30 to +200°C
 Pressure: $\leq 1.2\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D3	D7	L1	L3
14	24.5	25.0	35.0	8
16	26.8	27.0	35.0	8
18	31.8	33.0	37.5	10
20	32.5	35.0	37.5	10
22	36.5	37.0	37.5	10
24	38.8	39.0	40.0	10
25	38.8	40.0	40.0	10
28	46.5	43.0	42.5	10
30	46.5	45.0	42.5	10
32	46.5	48.0	42.5	10
33	49.5	48.0	42.5	10
35	49.5	50.0	42.5	11
38	54.0	56.0	45.0	11
40	57.0	58.0	45.0	11
43	61.5	61.0	45.0	11
44	61.5	63.5	45.0	11
45	61.5	63.0	45.0	11
48	70.6	66.0	45.0	11
50	70.6	70.0	47.5	11
53	70.6	73.0	47.5	12
55	76.0	75.0	47.5	12
58	79.6	78.0	52.5	12
60	79.6	80.0	52.5	12
63	84.6	83.0	52.5	12
65	84.6	85.0	52.5	13

HQ108



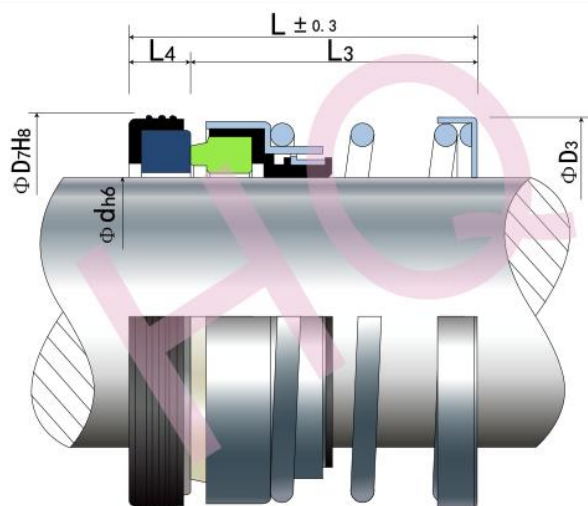
Type: Elastomer Bellow Mechanical Seal

Temperature: -30 to +200°C

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

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

Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D7	D3	L	L3	L4
8	21	20.0	20	15.0	5.0
9	21	20.0	20	15.0	5.0
10	21/22	20.0	20	15.0	5.0
11	23	20.0	20	15.0	5.0
12	23/26	22.0	20	15.0	5.0
14	25/26/28	24.5	25	20.0	5.0
15	27	26.5	25	20.0	5.0
16	27/28	26.5	25	20.0	5.0
17	33	32.0	25	20.0	5.0
17T	28	27.0	25	19.5	5.5
18	33	32.0	25	20.0	5.0
19	35	34.0	25	20.0	5.0
20	35/36	34.0	25	20.0	5.0
22	37	37.0	28	22.0	6.0
22T	36	35.0	25	20.0	5.0
24	40	39.0	32	24.0	8.0
25	40/41	39.0	32	27.0	8.0
28	43	42.0	35	27.0	7.5
30	45	45.0	35	27.0	7.5
35	50	50.5	37	29.0	8.0
40	58	57.5	40	31.5	9.0
45	63	62.5	40	31.5	8.5
50	70	71.0	45	35.5	9.5
55	75	75.5	45	35.5	9.5

HQ108A

Type: Elastomer Bellow Mechanical Seal

Temperature: -30 to 200°C

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

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

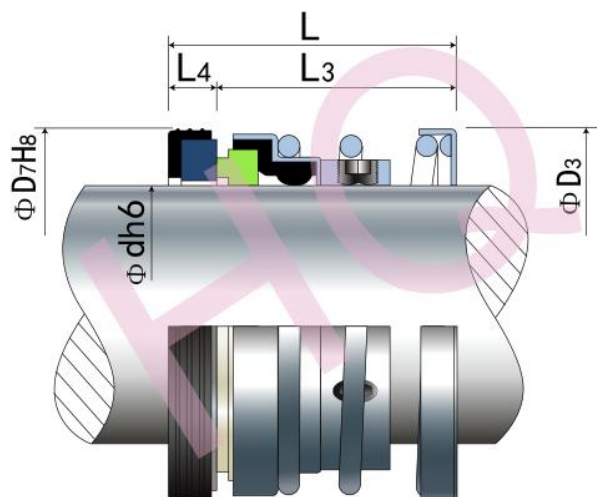
Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D	L	L3	L4
20	35/36	44	38.5	5.5
25	40/41	50	43.0	7.0
30	45/46	52	45.0	7.0
35	50/51	61	54.0	7.0
40	58	63	55.0	8.0
43	61	63	55.0	8.0
45	63	68	60.0	8.0
50	70	77	68.0	9.0
55	75	77	68.0	9.0
60	80	77	68.0	9.0
65	85	77	68.0	9.0
70	92	77	68.0	9.0

HQMG9(901/910/912/913/920/921)



Type: Elastomeric bellow mechanical seal
Replacement: Burgmann MG9(901/910/912/913/920/921)
Temperature: -20°C to +120°C

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

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G

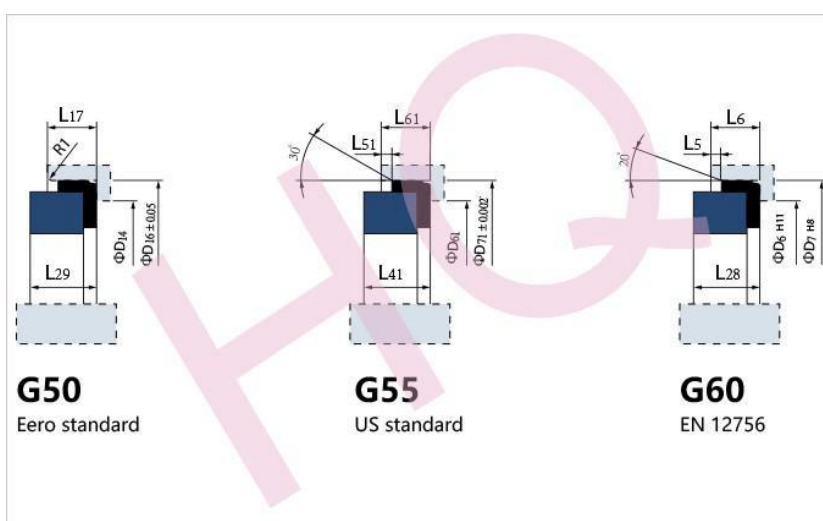
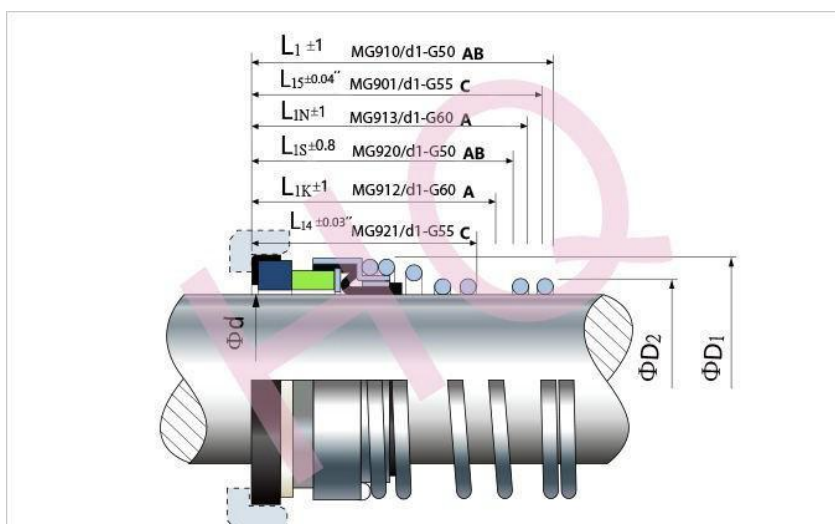


Table A

d (mm)	D1	D2	D6	D7	D14	D16	L1	L1k	L1N	L1S	L5	L6	L17	L28	L29
10	19.6	13.0	17	21	11.0	24.60	53.0	6.6	40	34.0	1.5	4	7.5	6.6	9.0
12	21.6	15.0	19	23	13.5	27.80	53.0	6.6	40	34.0	1.5	4	7.5	6.6	9.0
14	24.0	18.0	21	25	17.0	30.95	54.5	35.0	40	35.5	1.5	4	9.0	6.6	10.5
15	25.0	19.0	*	*	17.0	30.95	54.5	*	*	35.5	*	*	9.0	*	10.5
16	26.5	20.0	23	27	17.0	30.95	54.5	35.0	40	35.5	1.5	4	9.0	6.6	10.5
18	29.0	22.0	27	33	20.0	34.15	54.5	35.0	40	35.5	2.0	5	9.0	7.5	10.5
20	31.5	24.5	29	35	21.5	35.70	54.5	35.0	40	35.5	2.0	5	9.0	7.5	10.5
22	33.0	27.0	31	37	23.0	37.30	54.5	35.0	40	35.5	2.0	5	9.0	7.5	10.5
24	37.0	29.0	33	39	26.5	40.50	54.5	40.0	50	35.5	2.0	5	9.0	7.5	10.5
25	38.0	30.0	34	40	26.5	40.50	54.5	40.0	50	35.5	2.0	5	9.0	7.5	10.5
28	41.0	34.0	37	43	29.5	47.65	72.0	42.5	50	45.0	2.0	5	10.5	7.5	12.0
30	43.0	36.0	39	45	32.5	50.80	72.0	42.5	50	45.0	2.0	5	10.5	7.5	12.0
32	45.0	38.0	42	48	32.5	50.80	72.0	42.5	55	45.0	2.0	5	10.5	7.5	12.0
33	46.0	39.0	42	48	36.5	54.00	72.0	42.5	55	45.0	2.0	5	10.5	7.5	12.0
35	48.0	41.0	44	50	36.5	54.00	72.0	42.5	55	45.0	2.0	5	10.5	7.5	12.0
38	52.5	44.5	49	56	39.5	57.15	72.0	45.0	55	45.0	2.0	6	10.5	9.0	12.0
40	55.5	47.5	51	58	42.5	60.35	72.0	45.0	55	45.0	2.0	6	10.5	9.0	12.0
43	58.5	50.5	54	61	46.0	63.50	83.0	45.0	60	53.0	2.0	6	10.5	9.0	12.0
45	60.5	52.5	56	63	46.0	63.50	83.0	45.0	60	53.0	2.0	6	10.5	9.0	12.0
48	64.0	56.0	59	66	49.0	66.70	83.0	45.0	60	53.0	2.0	6	10.5	9.0	12.0
50	66.0	58.0	62	70	52.0	69.85	84.5	47.0	60	54.5	2.5	6	12.0	9.5	13.5
53	69.0	61.0	65	73	55.5	73.05	84.5	47.0	70	54.5	2.5	6	12.0	11.0	13.5
55	71.0	63.0	67	75	58.5	76.20	84.5	47.0	70	54.5	2.5	6	12.0	11.0	13.5
58	76.0	66.0	70	78	61.5	79.40	84.5	52.5	70	54.5	2.5	6	12.0	11.0	13.5
60	78.0	68.0	72	80	61.5	79.40	84.5	52.5	70	54.5	2.5	6	12.0	11.0	13.5
63	82.0	71.5	75	83	65.0	82.55	84.5	52.5	70	54.5	2.5	6	12.0	11.0	13.5
65	84.0	73.5	77	85	68.0	92.10	86.0	52.5	80	65.0	2.5	6	14.5	11.0	16.0
68	87.0	76.5	81	90	71.0	95.25	86.0	52.5	80	65.0	2.5	7	14.5	11.3	16.0
70	89.0	79.0	83	92	71.0	95.25	86.0	60.0	80	65.0	2.5	7	14.5	11.3	16.0
75	95.0	85.0	88	97	77.5	101.60	89.0	60.0	80	68.0	2.5	7	14.5	11.3	16.0
80	101.5	91.5	95	105	84.0	114.30	99.0	60.0	90	76.0	3.0	7	18.5	12.0	20.0
85	107.0	97.0	100	110	87.0	117.50	99.0	60.0	90	76.0	3.0	7	18.5	14.0	20.0
90	111.5	103.0	105	115	93.5	123.85	103.0	65.0	90	79.0	3.0	7	18.5	14.0	20.0
95	117.5	108.0	110	120	96.5	127.00	103.0	65.0	90	79.0	3.0	7	18.5	14.0	20.0
100	122.5	114.0	115	125	103.0	133.35	106.0	65.0	90	82.0	3.0	7	18.5	14.0	20.0



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Table B

d (Inch)	d	D1	D2	D14	D16	L1	L1S	L17	L29
0.375	9.53	18.8	12.5	11.0	24.60	53	34.0	7.5	9.0
0.500	12.70	22.3	16.0	13.5	27.80	53	34.0	7.5	9.0
0.625	15.88	26.5	20.0	17.0	30.95	54.5	35.5	9.0	10.5
0.750	19.00	29.5	23.0	20.0	34.15	54.5	35.5	9.0	10.5
0.875	22.23	33.0	27.0	23.0	37.30	54.5	35.5	9.0	10.5
1.000	25.40	38.0	30.5	26.5	40.50	54.5	35.5	9.0	10.5
1.125	28.58	41.5	34.5	29.5	47.65	72	45.0	10.5	12.0
1.250	31.75	45.0	38.0	32.5	50.80	72	45.0	10.5	12.0
1.375	34.93	48.0	41.0	36.5	54.00	72	45.0	10.5	12.0
1.500	38.10	52.5	44.5	39.5	57.15	72	45.0	10.5	12.0
1.625	41.28	57.0	48.5	42.5	60.35	72	45.0	10.5	12.0
1.750	44.48	60.5	51.5	46.0	63.50	83	53.0	10.5	12.0
1.875	47.63	64.0	55.0	49.0	66.70	83	53.0	10.5	12.0
2.000	50.80	66.0	58.0	52.0	69.85	84.5	54.5	12.0	13.5
2.125	53.98	71.0	61.5	55.5	73.05	84.5	54.5	12.0	13.5
2.250	57.15	76.5	65.0	58.5	76.20	84.5	54.5	12.0	13.5
2.375	60.33	78.5	68.5	61.5	79.40	84.5	54.5	12.0	13.5
2.500	63.50	82.0	72.0	65.0	82.55	84.5	54.5	12.0	13.5
2.625	66.68	84.0	75.0	68.0	92.10	86.0	65.0	14.5	16.0
2.750	69.85	89.0	79.0	71.0	95.25	86.0	65.0	14.5	16.0
2.875	73.03	92.5	82.0	74.5	98.45	89.0	68.0	14.5	16.0
3.000	76.20	95.5	85.5	77.5	101.6	89.0	68.0	14.5	16.0
3.125	79.38	101.6	91.0	80.5	111.15	99.0	76.0	18.5	20.0
3.250	82.55	104.7	94.0	84.0	114.30	99.0	76.0	18.5	20.0
3.375	85.73	107.0	98.0	87.0	117.50	99.0	76.0	18.5	20.0
3.500	88.90	111.5	100.0	90.5	120.65	99.0	76.0	18.5	20.0
3.625	92.08	114.5	104.0	93.5	123.85	103.0	79.0	18.5	20.0
3.750	95.25	118.0	108.0	96.5	127.00	103.0	79.0	18.5	20.0
3.875	98.43	121.0	112.0	100.0	130.20	106.0	82.0	18.5	20.0
4.000	101.60	125.0	116.0	103.0	133.35	106.0	82.0	18.5	20.0



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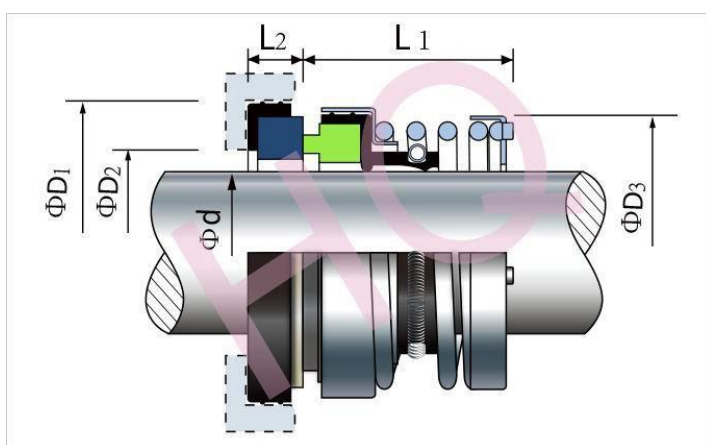
Table C

d (Inch)	D1	D2	D61	D71	L14	L15	L41	L51	L61
0.375	0.740	0.492	0.625	0.875	1.125	1.500	0.313	0.05	0.250
0.500	0.878	0.630	0.750	1.000	1.125	1.500	0.313	0.05	0.250
0.625	1.043	0.787	0.937	1.250	1.281	1.718	0.406	0.05	0.344
0.750	1.161	0.905	1.062	1.375	1.281	1.718	0.406	0.05	0.344
0.875	1.299	1.063	1.187	1.500	1.343	1.781	0.406	0.05	0.344
1.000	1.496	1.200	1.312	1.625	1.437	2.000	0.437	0.05	0.375
1.125	1.634	1.358	1.437	1.750	1.500	2.062	0.437	0.05	0.375
1.250	1.772	1.496	1.563	1.875	1.500	2.062	0.437	0.05	0.375
1.375	1.890	1.614	1.687	2.000	1.562	2.124	0.437	0.05	0.375
1.500	2.067	1.752	1.813	2.125	1.562	2.124	0.437	0.05	0.375
1.625	2.244	1.909	2.000	2.375	1.875	2.500	0.500	0.05	0.437
1.750	2.382	2.028	2.125	2.500	1.875	2.500	0.500	0.05	0.437
1.875	2.520	2.165	2.250	2.625	2.000	2.625	0.500	0.05	0.437
2.000	2.598	2.283	2.375	2.750	2.000	2.625	0.500	0.05	0.437
2.125	2.795	2.421	2.375	3.000	2.249	2.937	0.562	0.05	0.500
2.250	2.992	2.559	2.437	3.125	2.249	2.937	0.562	0.05	0.500
2.375	3.071	2.697	2.563	3.250	2.375	3.062	0.562	0.05	0.500
2.500	3.228	2.834	2.687	3.375	2.375	3.062	0.562	0.05	0.500
2.625	3.307	2.953	2.812	3.375	2.562	3.375	0.625	0.10	0.562
2.750	3.504	3.110	2.937	3.500	2.562	3.375	0.625	0.10	0.562
2.875	3.642	3.228	3.062	3.750	2.687	3.500	0.625	0.10	0.562
3.000	3.76	3.366	3.187	3.875	2.687	3.5	0.625	0.10	0.562
3.125	4.000	3.583	3.312	4.000	2.968	3.906	0.781	0.10	0.656
3.250	4.122	3.700	3.437	4.125	2.968	3.906	0.781	0.10	0.656
3.375	4.213	3.858	3.562	4.250	2.968	3.906	0.781	0.10	0.656
3.500	4.390	3.937	3.687	4.375	2.968	3.906	0.781	0.10	0.656
3.625	4.508	4.095	3.812	4.500	3.093	4.031	0.781	0.10	0.656
3.750	4.646	4.252	3.937	4.625	3.093	4.031	0.781	0.10	0.656
3.875	4.764	4.409	4.062	4.75	3.218	4.156	0.781	0.10	0.656
4.000	4.921	4.567	4.187	4.875	3.218	4.156	0.781	0.10	0.656

HQEA100



Type: Elastomeric bellow mechanical seal
 Replacement: Burgmann EA100
 Temperature: -20°C to +150°C
 Pressure: $\leq 0.4\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G

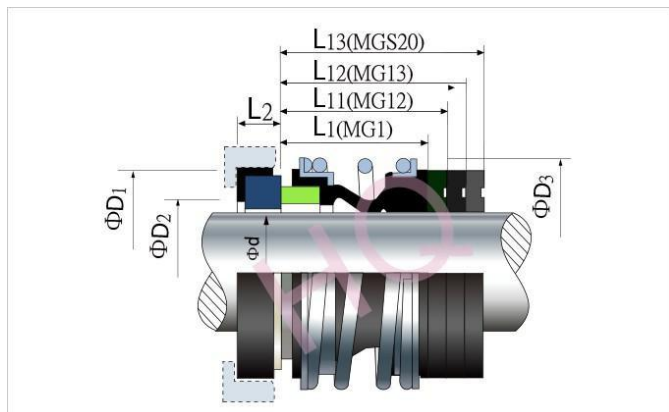


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d (mm)	D1	D2	D3	L1	L2
8	21	13	18.5	11	2
9	24	16	22.5	16	2
10	24	16	22.5	16	2
11	24	16	22.5	16	2
12	26	17	24.5	17	2
13	26	17	24.5	16	2
14	28	21	28.5	18	3
15	28	21	28.5	18	3
16	32	22	30.5	19	3
17	32	22	30.5	19	3
18	35	25	33.5	21	3
19	35	25	33.5	21	3
20	38	27	35.5	23	3

HQMG1/MG12/ MG13/MGS20



Type: Elastomeric bellows mechanical seal, Suit for

Grundfos, Hilde Pumps

Replacement: Burgmann MG1/12/13/S20, AES
B02/B012/B01, Vulcan 191/192/193, Roten
L3/L3K/L3N, Flowserve 190/192/193

Temperature: -20°C to +120°C

Pressure: ≤ 1.2 Mpa

Speed: ≤ 10 m/s

Material: V, Q1, Q2, U2, U1, B, A, P, E, V, F, G

d (mm)	D3	D2	D1	L1	L11	L12	L13	L2
10	22.5	17	21	14.5	25.9	33.4	25	6.6
12	25.0	19	23	15.0	25.9	33.4	25	6.6
14	28.5	21	25	17.0	28.4	33.4	25	6.6
15	28.5	-	-	17.0	28.4	33.4	25	-
16	28.5	23	27	17.0	28.4	33.4	25	6.6
18	32.0	27	33	19.5	30.0	37.5	25	7.5
19	37.0	-	-	21.5	30.0	37.5	25	-
20	37.0	29	35	21.5	30.0	37.5	25	7.5
22	37.0	31	37	21.5	30.0	37.5	25	7.5
24	42.5	33	39	22.5	32.5	42.5	25	7.5
25	42.5	34	40	23.0	32.5	42.5	25	7.5
28	49.0	37	43	26.5	35.0	42.5	33	7.5
30	49.0	39	45	26.5	35.0	42.5	33	7.5
32	53.5	42	48	27.5	35.0	47.5	33	7.5
33	53.5	42	48	27.5	35.0	47.5	33	7.5
35	57.0	44	50	28.5	35.0	47.5	33	7.5
38	59.0	49	56	30.0	36.0	46.0	33	9.0
40	62.0	51	58	30.0	36.0	46.0	33	9.0
42	65.5	-	-	30.0	36.0	51.0	41	-
43	65.5	54	61	30.0	36.0	51.0	41	9.0
45	68.0	56	63	30.0	36.0	51.0	41	9.0
48	70.5	59	66	30.5	36.0	51.0	41	9.0
50	74.0	62	70	30.5	38.0	50.5	41	9.0
53	78.5	65	73	33.0	36.5	59.0	41	11.0
55	81.0	67	75	35.0	36.5	59.0	41	11.0
58	85.5	70	78	37.0	41.5	59.0	41	11.0
60	88.5	72	80	38.0	41.5	59.0	41	11.0
65	93.5	77	85	40.0	41.5	69.0	49	11.0
68	96.5	81	90	40.0	41.5	68.7	49	11.3
70	99.5	83	92	40.0	48.7	68.7	49	11.3
75	107.0	88	97	40.0	48.7	68.7	52	11.3
80	112.0	95	105	40.0	48.7	78.0	56	12.0
85	120.0	100	110	41.0	46.0	76.0	56	14.0
90	127.0	105	115	45.0	51.0	76.0	59	14.0
95	132.0	110	120	46.0	51.0	76.0	59	14.0
100	137.0	115	125	47.0	51.0	76.0	62	14.0

HQ140/142/143

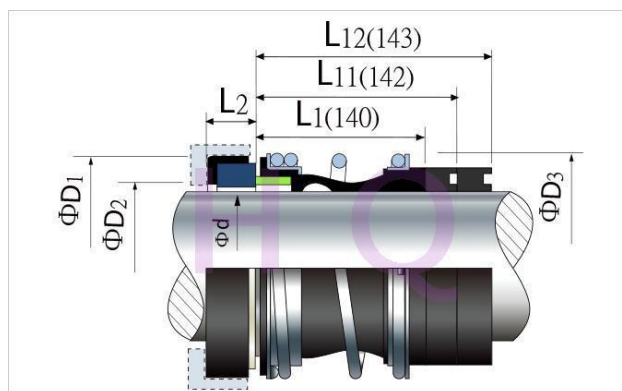


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Type: Elastomeric bellow mechanical seal
Replacement Vulcan 14DIN/142DIN/143DIN
AESB05/B052/B053, Flowserve
140/142/143
Temperature: -40°C to +150°C
Pressure: ≤1.0Mpa
Speed: ≤15m/s
Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (mm)	D1	D2	D3	L1	L11	L2	L3
10	21	17	20	13.4	25.9	33.4	6.6
12	23	19	22	14.4	25.9	33.4	6.6
14	25	21	24	14.4	28.4	33.4	6.6
15	27	23	25	14.4	28.4	33.4	6.6
16	27	23	26	14.4	28.4	33.4	6.6
18	33	27	32	18.5	30.0	37.5	7.5
20	35	29	34	18.5	30.0	37.5	7.5
22	37	31	36	18.5	30.0	37.5	7.5
24	39	33	38	18.5	32.5	42.5	7.5
25	40	34	39	18.5	32.5	42.5	7.5
28	43	37	42	24.5	35.0	42.5	7.5
30	45	39	44	25.5	35.0	42.5	7.5
32	48	42	46	25.5	35.0	47.5	7.5
33	48	42	47	25.5	35.0	47.5	7.5
35	50	44	49	26.5	35.0	47.5	7.5
38	56	49	54	29.0	36.0	46.0	9.0
40	58	51	56	29.0	36.0	46.0	9.0
43	61	54	59	29.0	36.0	51.0	9.0
45	63	56	61	29.0	36.0	51.0	9.0
48	66	59	64	31.0	36.0	51.0	9.0
50	70	62	66	30.5	38.0	50.5	9.0
53	73	65	69	29.0	36.5	59.0	11.0
55	75	67	71	29.0	36.5	59.5	11.0
58	78	70	78	32.0	41.5	59.5	11.0
60	80	72	80	34.0	41.5	59.5	11.0
65	85	77	85	34.0	41.5	69.0	11.0
68	90	81	88	33.7	41.2	68.7	11.0
70	92	83	90	33.7	48.7	68.7	11.0
75	97	88	99	40.7	48.7	68.7	11.0
80	105	95	104	40.5	48.0	78.0	12.0
85	110	100	109	38.5	46.0	76.0	14.0
90	115	105	114	38.5	51.0	76.0	14.0
95	120	110	119	38.5	51.0	76.0	14.0
100	125	115	124	38.5	51.0	76.0	14.0

HQ150



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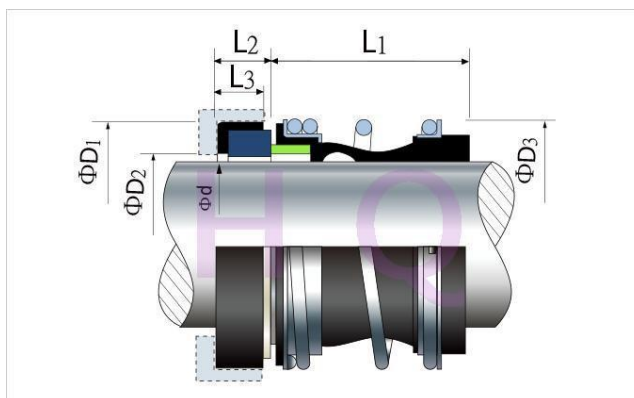
hq@hqseal.com

Type: Elastomeric bellows mechanical seal
Replacement: Vulcan1520(Metric), AES BP02,
BURGMANN MG1S20, Crane 2(N
Seat), Flowserve150
Temperature: -40°C to +150°C

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

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (mm)	D1	D2	D3	L1	L2	L3
10	24.60	16.00	20	25.40	8.74	7.47
12	27.79	19.05	22	25.40	8.74	7.47
13	27.79	19.05	22	25.40	8.74	7.47
14	30.95	22.23	24	25.40	10.32	8.97
15	30.95	22.23	25	25.40	10.32	8.97
16	30.95	22.23	26	25.40	10.32	8.97
18	34.15	25.40	32	25.40	10.32	8.97
19	34.15	25.40	32	25.40	10.32	8.97
20	35.70	26.99	34	25.40	10.32	8.97
22	37.30	28.58	36	25.40	10.32	8.97
24	40.50	31.75	38	25.40	10.32	8.97
25	40.50	31.75	39	25.40	10.32	8.97
28	47.63	35.72	42	33.34	11.99	10.46
30	50.80	38.89	44	33.34	11.99	10.46
32	50.80	38.89	46	33.34	11.99	10.46
33	53.98	42.07	47	33.34	11.99	10.46
34	53.98	42.07	49	33.34	11.99	10.46
35	53.98	42.07	49	33.34	11.99	10.46
38	57.15	45.24	54	33.34	11.99	10.46
40	60.35	48.82	56	33.34	11.99	10.46
42	63.50	51.59	59	40.48	11.99	10.46
43	63.50	51.59	59	40.48	11.99	10.46
44	63.50	51.59	61	40.48	11.99	10.46
45	63.50	51.59	61	40.48	11.99	10.46
48	66.70	54.75	64	40.48	11.99	10.46
50	69.85	58.00	66	40.48	11.99	10.46
53	73.05	62.00	69	41.00	13.50	10.46
55	76.20	65.00	71	41.00	13.50	11.96
58	79.40	68.00	78	41.00	13.50	11.96
60	79.40	68.00	80	41.00	13.50	11.96
63	82.55	71.20	83	41.00	13.50	11.96
65	92.10	78.35	85	49.00	15.90	14.50
70	95.25	81.10	90	49.00	15.90	14.50
73	98.45	84.50	96	49.00	15.90	14.50
75	101.65	88.10	99	49.00	15.90	14.50
80	114.30	97.00	104	56.00	20.00	18.50
85	117.50	100.00	109	56.00	20.00	18.50
90	123.85	107.00	114	59.00	20.00	18.50
95	127.00	110.00	119	59.00	20.00	18.50
100	133.35	116.00	124	62.00	20.00	18.50

HQ150/150A



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HQ150A

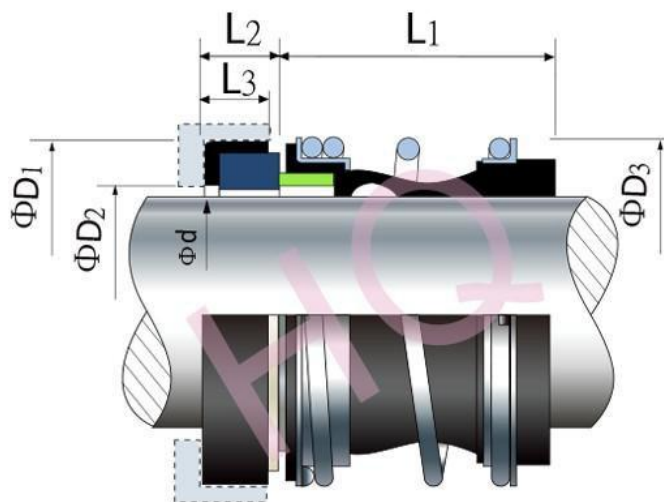
Type: Elastomeric bellow mechanical seal
Replacement: Vulcan 1520(Inch), AES BP02,
BURGMANN MG1S20, Crane 2(N
Seat), Flowserve150

Temperature: -40°C to +150°C

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

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



d (Inch)	D1	D2	D3	L1	L2	L3
0.375	24.60	16.00	20	25.40	8.74	7.47
0.500	27.79	19.05	22	25.40	8.74	7.47
0.625	30.95	22.23	26	25.40	10.32	8.97
0.750	34.15	25.40	32	25.40	10.32	8.97
0.875	37.30	28.58	36	25.40	10.32	8.97
1.000	40.50	31.75	39	25.40	10.32	8.97
1.125	47.63	35.72	42	33.34	11.99	10.46
1.250	50.80	38.89	46	33.34	11.99	10.46
1.375	53.98	42.07	49	33.34	11.99	10.46
1.500	57.15	45.24	54	33.34	11.99	10.46
1.625	60.35	48.42	56	33.34	11.99	10.46
1.750	63.50	51.59	61	40.48	11.99	10.46
1.875	66.70	54.75	64	40.48	11.99	10.46
2.000	69.85	58.00	66	40.48	13.50	11.96
2.125	73.05	62.00	69	41.00	13.50	11.96
2.250	76.20	65.00	78	41.00	13.50	11.96
2.375	79.40	68.00	80	41.00	13.50	11.96
2.500	82.55	71.20	83	41.00	13.50	11.96
2.625	92.10	78.35	85	49.00	15.90	14.50
2.750	95.25	81.10	90	49.00	15.90	14.50
2.875	98.45	84.50	96	49.00	15.90	14.50
3.000	101.65	88.10	99	49.00	15.90	14.50
3.125	111.15	93.68	104	56.00	20.00	18.50
3.250	114.30	96.85	104	56.00	20.00	18.50
3.375	117.50	100.00	109	56.00	20.00	18.50
3.500	120.65	103.18	114	56.00	20.00	18.50
3.625	123.85	106.35	114	59.00	20.00	18.50
3.750	127.00	109.52	119	59.00	20.00	18.50
3.875	130.20	112.65	122	62.00	20.00	18.50
4.000	133.35	115.88	124	62.00	20.00	18.50

HQ150

d (mm)	D1	D2	D3	L1	L2	L3
10	24.60	16.00	20	25.40	8.74	7.47
12	27.79	19.05	22	25.40	8.74	7.47
13	27.79	19.05	22	25.40	8.74	7.47
14	30.95	22.23	24	25.40	10.32	8.97
15	30.95	22.23	25	25.40	10.32	8.97
16	30.95	22.23	26	25.40	10.32	8.97
18	34.15	25.40	32	25.40	10.32	8.97
19	34.15	25.40	32	25.40	10.32	8.97
20	35.70	26.99	34	25.40	10.32	8.97
22	37.30	28.58	36	25.40	10.32	8.97
24	40.50	31.75	38	25.40	10.32	8.97
25	40.50	31.75	39	25.40	10.32	8.97
28	47.63	35.72	42	33.34	11.99	10.46
30	50.80	38.89	44	33.34	11.99	10.46
32	50.80	38.89	46	33.34	11.99	10.46
33	53.98	42.07	47	33.34	11.99	10.46
34	53.98	42.07	49	33.34	11.99	10.46
35	53.98	42.07	49	33.34	11.99	10.46
38	57.15	45.24	54	33.34	11.99	10.46
40	60.35	48.82	56	33.34	11.99	10.46
42	63.50	51.59	59	40.48	11.99	10.46
43	63.50	51.59	59	40.48	11.99	10.46
44	63.50	51.59	61	40.48	11.99	10.46
45	63.50	51.59	61	40.48	11.99	10.46
48	66.70	54.75	64	40.48	11.99	10.46
50	69.85	58.00	66	40.48	11.99	10.46
53	73.05	62.00	69	41.00	13.50	10.46
55	76.20	65.00	71	41.00	13.50	11.96
58	79.40	68.00	78	41.00	13.50	11.96
60	79.40	68.00	80	41.00	13.50	11.96
63	82.55	71.20	83	41.00	13.50	11.96
65	92.10	78.35	85	49.00	15.90	14.50
70	95.25	81.10	90	49.00	15.90	14.50
73	98.45	84.50	96	49.00	15.90	14.50
75	101.65	88.10	99	49.00	15.90	14.50
80	114.30	97.00	104	56.00	20.00	18.50
85	117.50	100.00	109	56.00	20.00	18.50
90	123.85	107.00	114	59.00	20.00	18.50
95	127.00	110.00	119	59.00	20.00	18.50
100	133.35	116.00	124	62.00	20.00	18.50

HQ151/152



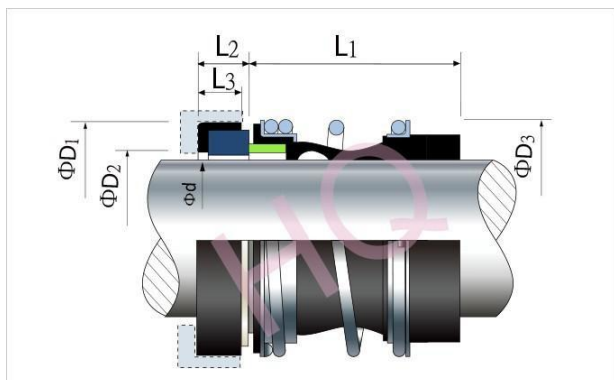
Type: Elastomeric bellow mechanical seal
 Replacement: Vulcan 1511/1522, AES BP04/BP05,
 Crane 21/1(N Seat), Flowserve 151/152
 Temperature: -40°C to +150°C

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

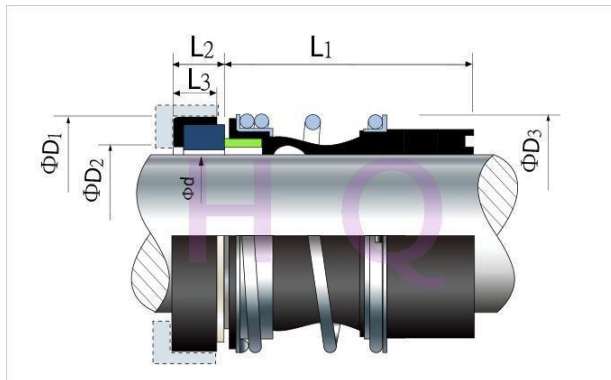
Speed: $\leq 15\text{m/s}$

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G

HQ151



HQ152



d (Inch)	d (mm)	D1	D2	D3	L1	L11	L2	L3
0.500	12	25.40	19.05	22	20.62	31.75	7.93	6.35
-	14	31.75	23.80	24	22.22	34.93	10.28	8.71
0.625	16	31.75	23.80	26	22.22	34.93	10.28	8.71
0.750	18	34.93	26.98	32	22.22	34.93	10.28	8.71
-	20	38.10	30.15	34	23.80	36.50	10.28	8.71
0.875	22	38.10	30.15	36	23.80	36.50	10.28	8.71
-	24	41.28	33.32	38	25.40	41.28	11.10	9.53
1.000	25	41.28	33.32	39	25.40	41.28	11.10	9.53
1.125	28	44.44	36.50	42	26.97	42.85	11.10	9.53
-	30	47.63	37.90	44	26.97	42.85	11.10	9.53
1.250	32	47.63	37.90	46	26.97	42.85	11.10	9.53
-	33	50.80	42.84	47	28.58	42.85	11.10	9.53
1.375	35	50.80	42.84	49	28.58	42.85	11.10	9.53
1.500	38	53.98	46.05	54	28.58	42.85	11.10	9.53
1.625	40	60.33	50.80	56	34.93	50.80	12.70	11.10
-	43	63.50	53.97	59	34.93	50.80	12.70	11.10
1.750	44	63.50	53.97	61	34.93	50.80	12.70	11.10
1.875	45	66.68	57.15	61	38.10	53.98	12.70	11.10
-	48	69.85	60.32	64	38.10	53.98	12.70	11.10
2.000	50	69.85	60.32	66	38.10	53.98	12.70	11.10
2.125	53	76.20	60.32	69	42.88	60.32	14.28	12.70
2.250	55	79.38	61.90	78	42.88	60.32	14.28	12.70
-	58	82.55	67.39	78	46.02	63.50	14.28	14.70
2.375	60	82.55	67.39	80	46.02	63.50	14.28	12.70
2.500	63	85.73	68.25	83	46.02	63.50	14.28	12.70
2.625	65	85.73	71.24	85	49.20	69.85	15.90	14.50
-	68	88.90	74.60	88	49.20	69.85	15.90	14.50
2.750	70	88.90	74.60	90	49.20	69.85	15.90	14.50
2.875	73	95.25	77.77	96	52.37	73.03	15.90	14.50
3.000	75	98.43	80.95	99	52.37	73.03	15.90	14.50



HQ2100/2100K/2100N

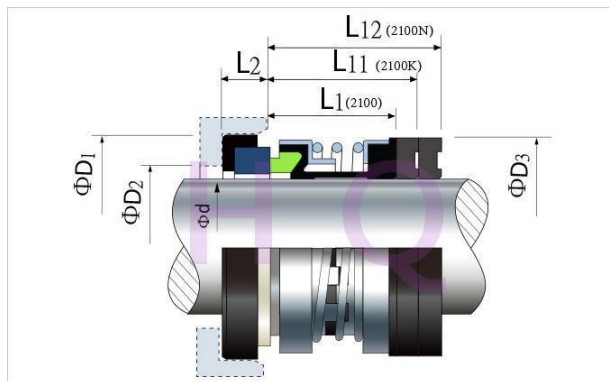
Type: Elastomeric bellow mechanical seal
Replacement: AES B05, Vulcan 14 DIN, Crane 2100, Flowserve140

Temperature: -20°C to +120°C

Pressure: $\leq 1.8\text{Mpa}$

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

Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	D1	D2	D3	L1	L11	L12	L2		Size (Inch)	d	D3	L1
10	21	15	20	15	27.5	35.0	5.0		0.375	9.5	20	15
12	23	17	22	15	26.5	34.0	6.0		0.500	12.7	24	15
14	25	19	24	15	29.0	34.0	6.0		0.625	15.8	26	15
15	26	20	25	15	29.0	34.0	6.0		0.750	19.0	32	20
16	27	23	26	15	29.0	34.0	6.0		0.875	22.2	36	20
18	33	25	32	20	31.5	39.0	6.0		1.000	25.4	38	20
20	35	27	34	20	31.5	39.0	6.0		1.125	28.5	42	26
22	37	29	36	20	31.5	39.0	6.0		1.250	31.7	46	26
24	39	31	38	20	34.0	44.0	6.0		1.375	34.9	49	26
25	40	32	39	20	34.0	44.0	6.0		1.500	38.1	54	30
28	43	35	42	26	36.5	44.0	6.0		1.625	41.2	56	30
30	45	37	44	26	35.5	43.0	7.0		1.750	44.4	61	30
32	48	40	46	26	35.5	48.0	7.0		1.875	47.6	64	30
33	48	40	47	26	35.5	48.0	7.0		2.000	50.8	66	30
35	50	42	49	26	34.5	47.0	8.0		2.125	53.9	69	30
38	56	47	54	30	37.0	47.0	8.0		2.250	57.1	77	33
40	58	49	56	30	37.0	47.0	8.0		2.375	60.3	80	33
43	61	52	59	30	37.0	52.0	8.0		2.500	63.5	83	33
45	63	54	61	30	37.0	52.0	8.0		2.625	66.6	88	33
48	66	57	64	30	35.0	50.0	10.0		2.750	69.8	89	33
50	70	60	66	30	37.5	50.0	10.0		2.875	73.0	96	33
53	73	63	69	30	37.5	60.0	10.0		3.000	76.2	99	40
55	75	65	71	30	37.5	60.0	10.0		3.125	79.3	103	40
58	78	68	78	33	42.5	60.0	10.0		3.250	82.5	104	40
60	80	70	80	33	40.5	58.0	12.0		3.375	85.7	108	40
63	83	73	83	33	40.5	58.0	12.0		3.500	88.9	112	40
65	85	75	85	33	40.5	68.0	12.0		3.625	92.0	114	40
68	90	79	88	33	40.5	68.0	12.0		3.750	95.2	118	40
70	92	81	90	33	48.0	68.0	12.0		3.875	98.4	122	40
75	97	86	99	40	48.0	68.0	12.0		4.000	101.6	124	40
80	105	92	104	40	47.5	77.5	12.5					
85	110	97	109	40	47.5	77.5	12.5					
90	115	102	114	40	52.5	77.5	12.5					
95	120	117	119	40	52.5	77.5	12.5					
100	125	122	124	40	52.5	77.5	12.5					

HQ2106



Type: Elastomeric Bellow Seal

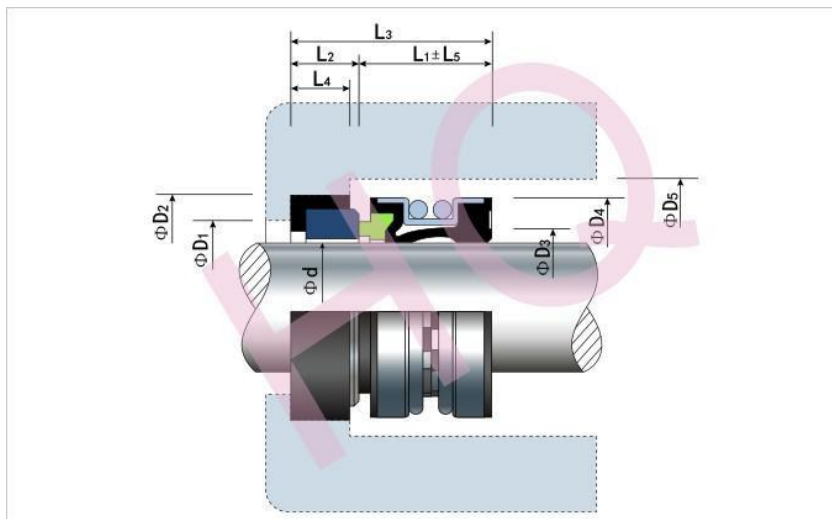
Replacement: Crane 2106

Temperature: -20 to +120°C

Pressure: $\leq 1.8\text{Mpa}$

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

Material: B,Q2,U2,P,E,N,V,F,G,Alfa



d (mm)	D1	D2	D3	D4	D5	L1	L2	L3	L4	L5
10	17	21	13.60	20	22	15	5	20	5.5	1.0
12	19	23	16.00	22	24	15	6	21	5.5	1.0
14	21	25	17.80	24	26	15	6	21	5.5	1.0
15	22	26	18.50	25	27	15	6	21	5.5	1.0
16	23	27	19.50	26	28	15	6	21	5.5	1.0
18	27	33	22.75	32	34	20	6	21	7.0	1.5
20	29	35	24.75	34	36	20	6	21	7.0	1.5
22	31	37	26.75	36	38	20	6	21	7.0	1.5
24	33	39	28.75	38	40	20	6	21	7.0	1.5
25	34	40	29.75	38	41	20	6	21	7.0	1.5



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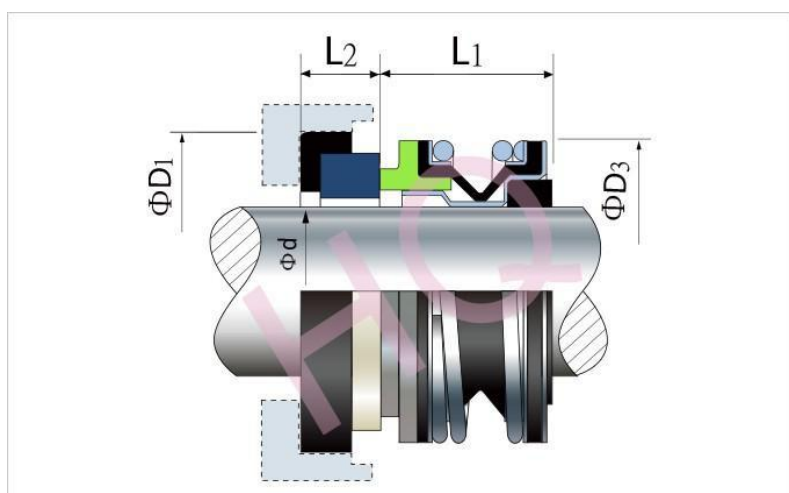


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HQ60/65



Type: Elastomeric bellow mechanical seal, Suit for Grundfos, Hilge Pumps
 Replacement: Vulcan 60/65, Burgmann BT-PNT, AES B04/B04U, Crane 106, Roten 16, Flowserve 160
 Temperature: -20°C to $+120^{\circ}\text{C}$
 Pressure: $\leq 0.5\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: V, Q1, Q2, U2, U1, B, A, P, E, V, F, G



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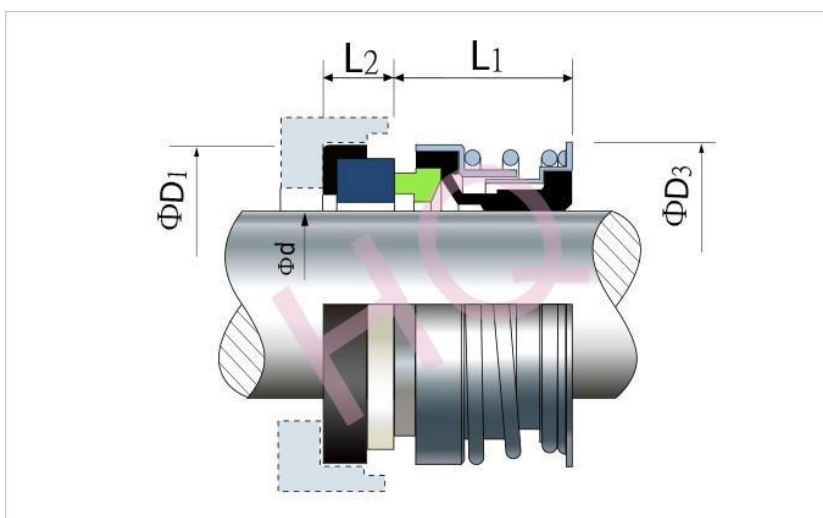
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Size (mm)	d	D1	D3	L1	L2
60/0.375	9.5	22.20	24.00	16.00	6.20
60/0.500	12.7	25.40	27.00	16.60	6.20
60/0.625	15.8	31.80	31.00	18.70	10.31
60/0.750	19.0	34.90	34.20	18.70	10.31
60/1.000	25.4	41.30	43.00	20.60	11.10
65/0.375	9.5	25.40	27.00	16.60	7.90
65/0.500	12.7	25.40	27.00	16.60	7.90
65/0.625	15.8	31.70	31.00	18.20	10.30
65/0.750	19.1	34.90	34.20	18.20	10.30
65/1.750	63.5	61.00	51.59	33.34	10.32

HQ6(16)



Type: Elastomeric bellow mechanical seal
 Replacement: Burgmann BT-PNT, Flowserve 16
 Temperature: -20°C to +120°C
 Pressure: $\leq 0.5-10\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: V, Q1, Q2, U2, U1, B, A, P, E, V, F, G



Size (Inch)	d	D3	D1	L1	L2
0.375	9.50	23.29	22.23	16.66	7.14
0.500	12.70	23.29	25.40	16.66	6.35
0.625	15.80	30.10	31.75	18.24	10.31
0.750	19.00	33.07	34.93	18.24	10.31
0.875	22.20	36.30	38.10	20.63	10.31
1.000	25.40	39.42	41.28	20.63	11.10



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HQ103



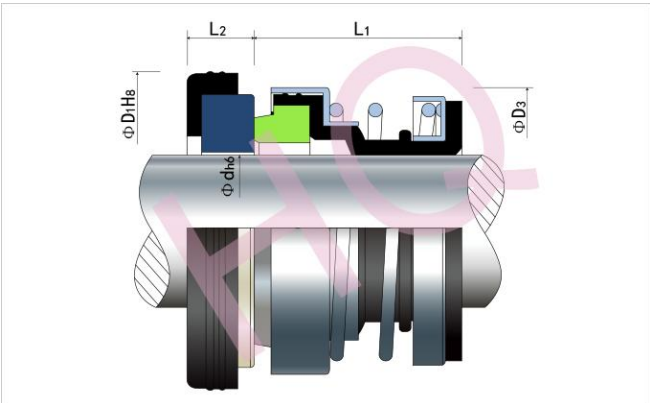
Type: Elastomer Bellow Mechanical Seal

Temperature: -30 to 200°C

Pressure: ≤0.8Mpa

Speed: ≤5m/s

Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



Mould	d (mm)	D1	D3	L1	L2
HQ103-10	10	26	22.5	15.5	5
HQ103-12	12	26	22.5	15.5	5
HQ103-12 (think)	12	26	22.5	15.5	7
HQ103-14	14	30	28.0	15.5	5
HQ103-16	16	35	30.0	15.5	5
HQ103-17	17	35	30.0	15.5	5
HQ103-18	18	35	30.0	15.5	5

HQ104



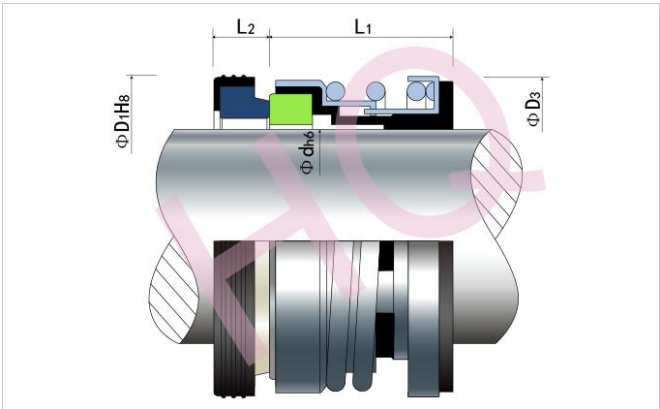
Type: Elastomer Bellow Mechanical Seal

Temperature: -30 to 200°C

Pressure: ≤0.8Mpa

Speed: ≤5m/s

Material : B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



Mould	d (mm)	D1	D3	L1	L2
HQ104-9	9	22	20.0	14.5	5.5
HQ104-10	10	22	20.0	14.5	5.5
HQ104-12	12	24	22.0	14.5	5.5
HQ104-14	14	26	24.0	18.0	7.0
HQ104-15	15	28	26.0	18.0	7.0
HQ104-16	16	28	26.0	18.0	7.0
HQ104-17	17	34	31.0	18.0	7.0
HQ104-18	18	34	31.0	18.0	7.0
HQ104-19	19	36	33.0	18.0	7.0
HQ104-20	20	36	33.0	18.0	7.0
HQ104-22	22	38	36.0	18.0	7.0
HQ104-25	25	41	39.0	28.0	9.0
HQ104-30	30	46	43.5	28.0	9.0
HQ104-35	35	51	50.5	28.0	9.0
HQ104-40	40	60	56.0	29.5	10.5
HQ104-45	45	65	63.5	29.5	10.5

HQ301



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Type: Elastomeric bellow mechanical seal

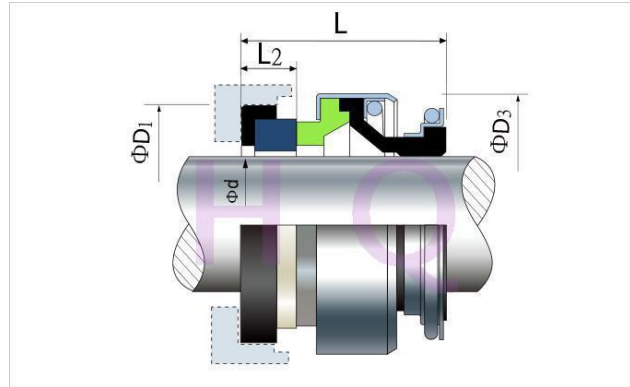
Replacement: AES B01, Vulcan 18, Crane PR/DR,
Burgmann BT-AR, Flowserve 118 ,Latty
T75, Roten 37B, Lidering AR/LRB31

Temperature: -20°C to +120°C

Pressure: $\leq 0.6\text{Mpa}$

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

Material: V,Q1,Q2,U2,U1,B,A,P,E,V,F,G



Size (mm)	d	D3	D1	L	L2
6	6	18	18	14.0	4.0
8S	8	18	22	15.0	4.0
8M	8	20	22/26	15.0	4/5.5
8L	8	24	26	15.0	5.5
10	10	24	26	21.0	8.0
11	11	24	26	21.0	8.0
12	12	24	25/26	21.0	8.0
13	13	24	26	19.5	5.5/8
13L	13	28	28	21.0	8.0
13H	13	32	29.5	30.5	8.0
14	14	28	28/28.5	21.0	8.0
14L	14	32	29.5	21.0	8.0
15S	15	28	28.5/30	21.0	8.0
15M	15	32	30/29.5	21.0	8.0
15L	15	39	38	21.0	8.0
16S	16	28	29.5/30	21.0	8.0
16M	16	32	29.5	21.0	8.0
16L	16	39	38	21.0	8.0
16H	16	32	30	21.0	10.0
17	17	39	42	21.0	8.0
18	18	39	42	21.0	8.0
19	19	39	42	21.0	8.0
20	20	39	42	21.0	8.0
20L	20	42	45	23.0	10.0
22S	22	36	45	26.5	10.0
22L	22	42	45	23.0	10.0
23	23	47	50	23.5	10.0
24	24	47	50	23.5	10.0
25	25	42	50	23.5	10.0
25L	25	47	50	23.5	10.0
26	26	47	50	23.5	10.0
27	27	47	50	23.5	10.0
28	28	54	57	25.0	10.0
30	30	54	57	25.0	10.0
32	32	54	57	25.0	10.0
35	35	60	63	26.0	10.0
38	38	65	68	30.0	12.0
40	40	65	68	30.0	12.0
45	45	70	73	32.0	12.0
50	50	85	88	38.0	15.0
55	55	85	88	38.0	15.0
60	60	105	110	45.0	15.0

HQBT-ARP



Type: Elastomer Bellow Mechanical Seal, Suit fo Grundfos, Hilge Pumps

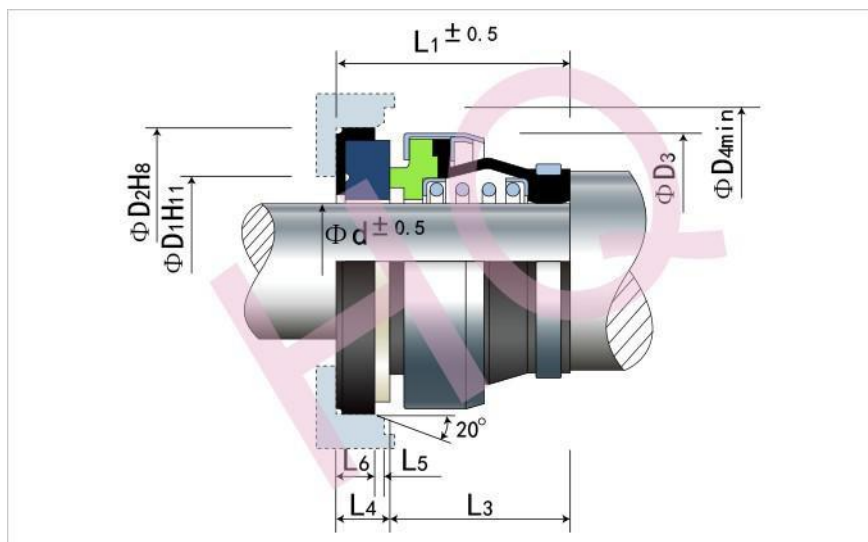
Replacement: Burgmann BT-ARP

Temperature: -20 to +150°C

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

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

Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



d (mm)	D1	D2	D3	D4	L1	L2	L4	L5	L6
20	29	35	39	43	29.0	21.5	7.5	2	5
22	31	37	42	47	29.0	21.5	7.5	2	5
25	34	40	45	50	30.5	23.9	7.5	2	5
30	39	45	50	56	34.0	26.5	7.5	2	5
35	44	50	56	62	36.0	28.5	7.5	2	5
40	51	58	60	70	39.0	30.9	9.0	2	5



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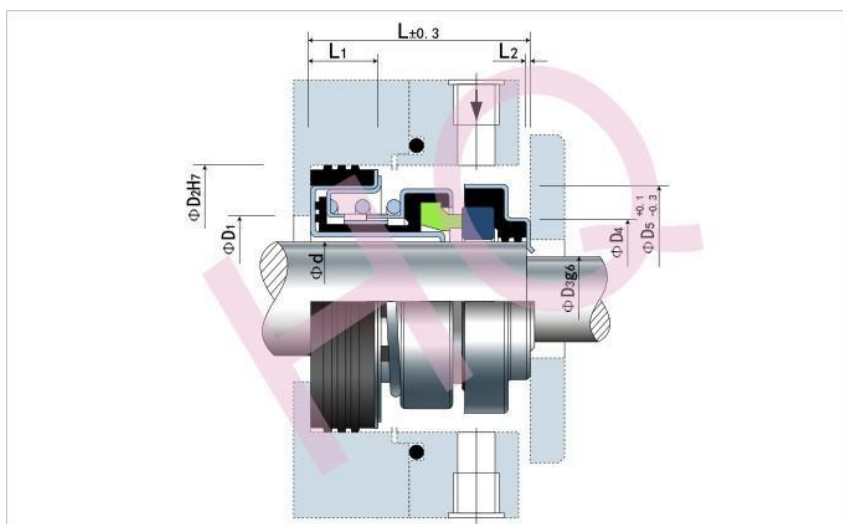


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HQ700(EH700)



Type: Elastomer Bellow Seal, Suit Ebara Pumps
 Replacement: Burgmann EH700
 Temperature: -20 to +100°C
 Pressure: ≤ 15 Bar
 Speed: ≤ 10 m/s
 Material: B, Q2, U2, P, E, N, V, F, G, Alfa



d (mm)	D1	D2	D3	D4	D5	L	L1	L2
15	22	41	12	22.0	34	29.5	9.5	0.6
20	30	45	12	27.2	45	31.0	11.0	0.6
25	35	52	22	33.6	52	37.0	11.5	0.8
35	45	66	32	43.6	66	41.6	12.5	0.8



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HQ502/50 2L/502S

HQ502/24 seat



Type: Elastomeric Bellow Mechanical Seal, Suit for Alfa Laval ALC(D Series) Pumps

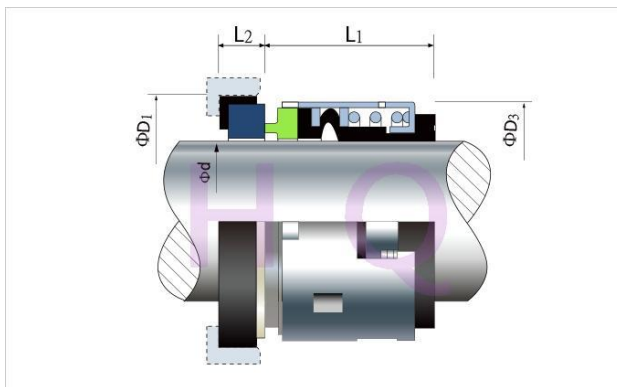
Replacement: AES B07, Vulcan 1724, Crane 502(N Seat)

Temperature: -20°C to +120°C

Pressure: $\leq 2.5\text{Mpa}$

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

Material: V1,Q1,Q2,U2,B,A,P,E,V,M1,M2,F,G,M



d (mm)	D1	D3	L1	L2
12	23	22.0	23.9	8.6
14	25	24.0	26.4	8.6
16	27	26.2	26.4	8.6
18	33	32.2	27.5	10.0
20	35	33.9	27.5	10.0
22	37	36.1	27.5	10.0
24	39	38.1	30.0	10.0
25	40	38.8	30.0	10.0
28	43	42.1	32.5	10.0
30	45	44.2	32.5	10.0
32	48	45.8	32.5	10.0
33	48	46.9	32.5	10.0
35	50	48.8	32.5	10.0
38	56	54.2	34.0	11.0
40	58	56.1	34.0	11.0
43	61	58.8	34.0	11.0
45	63	60.9	34.0	11.0
48	66	64.1	34.0	11.0
50	70	66.2	34.5	13.0
53	73	69.1	34.5	13.0
55	75	71.1	34.5	13.0
58	78	78.2	39.5	13.0
60	80	79.9	39.5	13.0
63	83	82.8	39.5	13.0
65	85	85.1	39.5	13.0
70	92	90.0	44.7	15.3
75	97	97.0	44.7	15.3
80	105	104.0	44.3	15.7
85	110	108.0	44.3	15.7
90	115	114.0	49.3	15.7
95	120	118.0	49.3	15.7
100	125	124.0	49.3	15.7

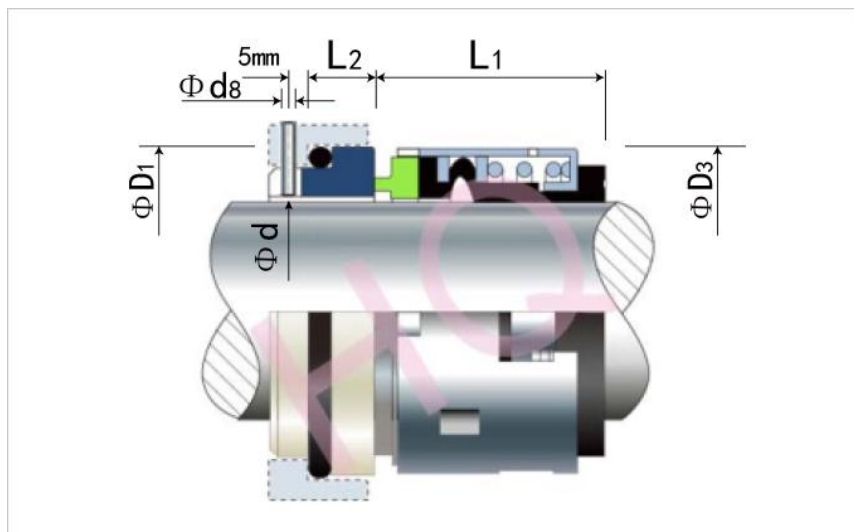


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HQ502L/24 DINL



d (mm)	D1	D3	d8	L1	L2
12	23	22.0	3	23.9	8.6
14	25	24.0	3	26.4	8.6
16	27	26.2	3	26.4	8.6
18	33	32.2	3	27.5	10.0
20	35	33.9	3	27.5	10.0
22	37	36.1	3	27.5	10.0
24	39	38.1	3	30.0	10.0
25	40	38.8	3	30.0	10.0
28	43	42.1	3	32.5	10.0
30	45	44.2	3	32.5	10.0
32	48	45.8	3	32.5	10.0
33	48	46.9	3	32.5	10.0
35	50	48.8	3	32.5	10.0
38	56	54.2	4	34.0	11.0
40	58	56.1	4	34.0	11.0
43	61	58.8	4	34.0	11.0
45	63	60.9	4	34.0	11.0
48	66	64.1	4	34.0	11.0
50	70	66.2	4	34.5	13.0
53	73	69.1	4	34.5	13.0
55	75	71.1	4	34.5	13.0
58	78	78.2	4	39.5	13.0
60	80	79.9	4	39.5	13.0
63	83	82.8	4	39.5	13.0
65	85	85.1	4	39.5	13.0
70	92	90.0	4	44.7	15.3
75	97	97.0	4	44.7	15.3
80	105	104.0	4	44.3	15.7
85	110	108.0	4	44.3	15.7
90	115	114.0	4	49.3	15.7
95	120	118.0	4	49.3	15.7
100	125	124.0	4	49.3	15.7

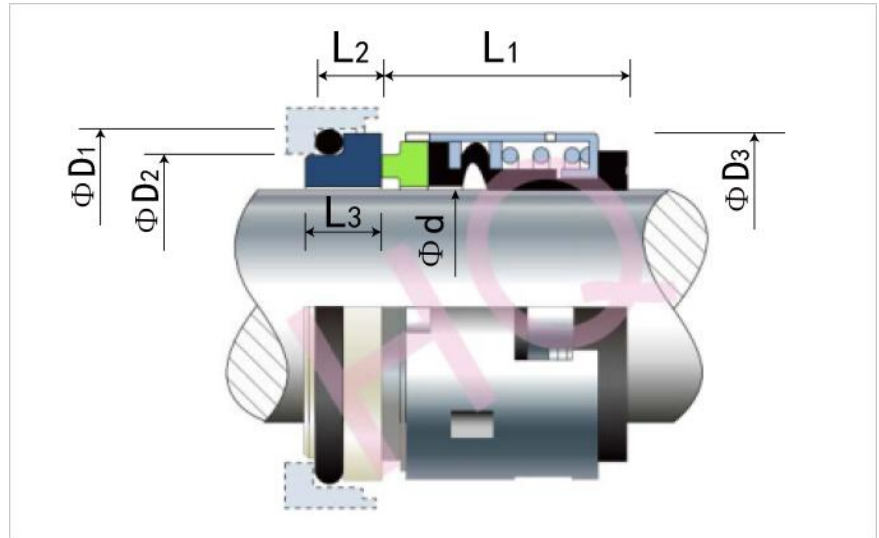


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HQ502S/24 DINS



d (mm)	D1	D2	D3	L1	L2	L3
14	25	21	24	23.0	12.0	12.8
16	27	23	26	23.0	12.0	12.8
18	33	27	32	24.0	13.5	14.5
20	35	29	34	24.0	13.5	14.5
22	37	31	36	24.0	13.5	14.5
24	39	33	38	26.7	13.3	14.3
25	40	34	39	27.0	13.0	14.0
28	43	37	42	30.0	12.5	13.5
30	45	39	44	30.5	12.0	13.0
32	48	42	46	30.5	12.0	13.0
33	48	42	47	30.5	12.0	13.0
35	50	44	49	30.5	12.0	13.0
38	56	49	54	32.0	13.0	14.0
40	58	51	56	32.0	13.0	14.0
43	61	54	59	32.0	13.0	14.0
45	63	56	61	32.0	13.0	14.0
48	66	59	64	32.0	13.0	14.0
50	70	62	66	34.0	13.5	14.5
53	73	65	69	34.0	13.5	14.5
55	75	67	71	34.0	13.5	14.5
58	78	70	78	39.0	13.5	14.2
60	80	72	80	39.0	13.5	14.2
63	83	75	83	39.0	13.5	14.2
65	85	77	85	39.0	13.5	14.2
68	90	81	88	39.0	13.5	14.2
70	92	83	89	45.5	14.5	15.2
75	97	88	96	45.5	14.5	15.2
80	105	95	104	45.0	15.0	15.7
85	110	100	108	45.0	15.0	15.7
90	115	105	114	50.0	15.0	15.7
95	120	110	118	50.0	15.0	15.7
100	125	115	124	50.0	15.0	15.7



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HQeMG/eMG1/ eMG12/eMG13

Type: O-Ring Mechanical Seal

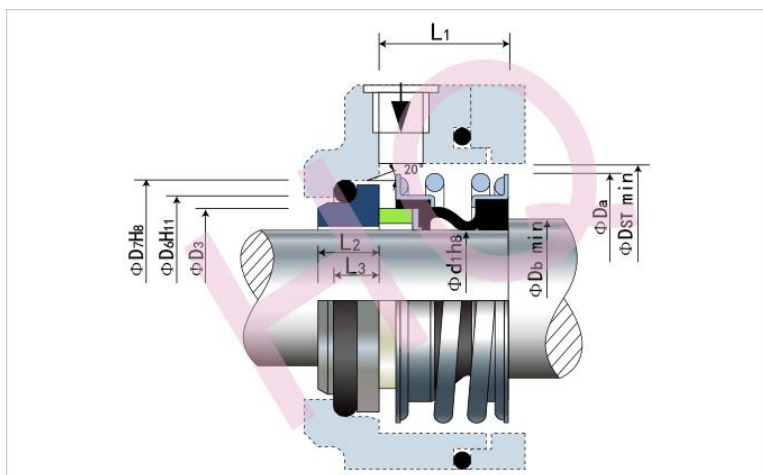
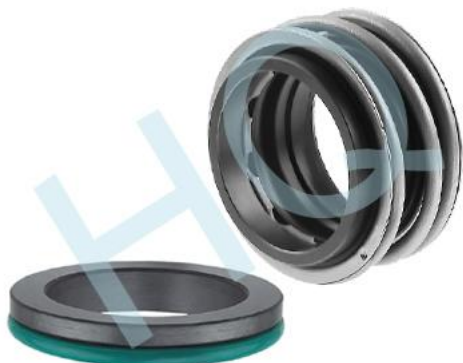
Replacement: BURGMANN eMG/eMG1/eMG12/eMG13

Temperature: -20 to +140°C

Pressure: ≤16 Bar

Speed: ≤10m/s

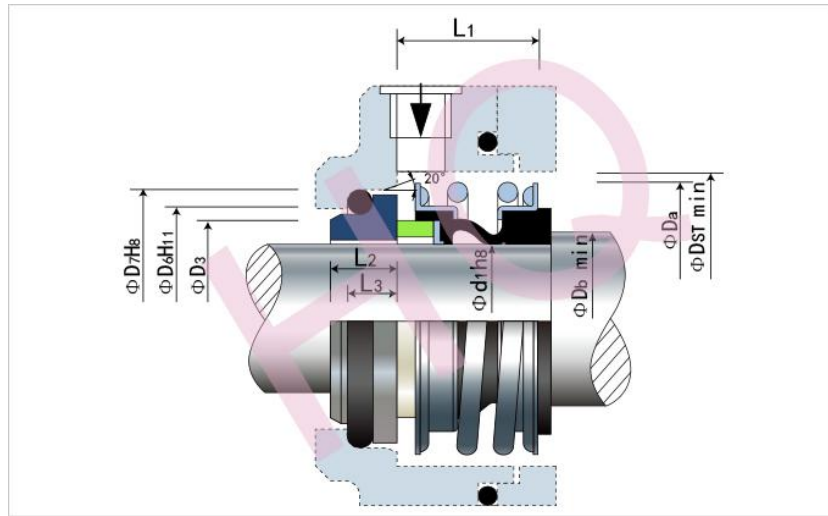
Material: B,Q2,U2,P,E,N,V,F,G,Alfa



eMG

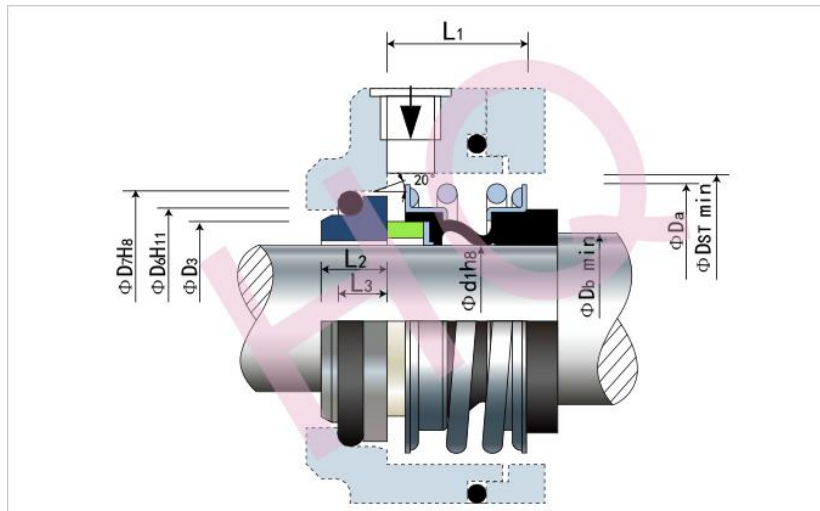
d(mm)	Db	Da	D3	D6	D7	Dst	L1	L2	L3
15	18.5	28.5	20.8	-	-	30	15.0	-	-
16	19.5	28.5	21.0	23	27	30	15.0	7.5	6.6
18	21.5	32.0	23.7	27	33	33	17.0	8.5	7.5
20	24.0	37.0	26.7	29	35	38	19.0	8.5	7.5
22	26.0	37.0	27.7	31	37	38	19.0	8.5	7.5
24	28.0	42.5	31.2	33	39	44	19.0	8.5	7.5
25	29.0	42.5	31.2	34	40	44	23.0	8.5	7.5
28	32.0	49.0	35.0	37	43	50	23.0	8.5	7.5
30	34.0	49.0	37.0	39	45	50	23.5	8.5	7.5
32	36.0	53.5	40.2	42	48	55	23.5	8.5	7.5
33	37.0	53.5	40.2	42	48	55	24.5	8.5	7.5
35	40.0	57.0	43.2	44	50	59	25.0	8.5	7.5
38	43.0	59.0	46.2	49	56	61	25.5	10.0	9.0
40	45.0	62.0	48.8	51	58	64	25.5	10.0	9.0
43	48.0	65.5	51.8	54	61	67	25.5	10.0	9.0
45	50.0	68.0	53.8	56	63	70	26.0	10.0	9.0
48	53.0	70.0	56.8	59	66	74	26.0	10.0	9.0
50	55.0	74.0	58.8	62	70	77	30.0	10.5	9.0
55	60.0	81.0	64.2	67	75	83	31.0	12.0	11.0
58	64.0	85.5	67.2	70	78	88	32.0	12.0	11.0
60	66.0	88.5	70.0	72	80	91	34.0	12.0	11.0
65	71.0	93.5	75.0	77	85	96	34.0	12.0	11.0
68	74.0	96.5	78.0	81	90	100	34.0	12.5	11.3
70	76.0	99.5	80.0	83	92	103	34.0	12.5	11.3
75	81.0	107.0	85.5	88	97	110	34.0	12.5	11.3
80	86.0	112.0	90.5	95	105	116	34.0	13.0	12.0
85	92.0	120.0	96.0	100	110	124	35.0	15.0	14.0
90	97.0	127.0	102.0	105	115	131	38.0	15.0	14.0
95	102.0	132.0	107.0	110	120	136	39.0	15.0	14.0
100	107.0	137.0	112.0	115	125	140	40.0	15.0	14.0
110	118.0	150.0	123.0	-	-	154	43.0	-	-

eMG1



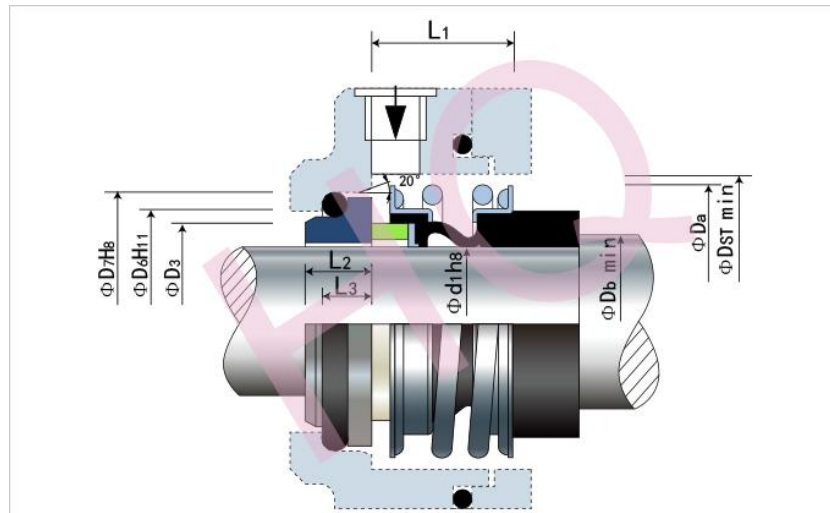
d(mm)	Db	Da	D3	D6	D7	Dst	L1	L2	L3
15	18.5	28.5	20.8	-	-	30	15.0	-	-
16	19.5	28.5	21.0	23	27	30	15.0	7.5	6.6
18	21.5	32.0	23.7	27	33	33	17.0	8.5	7.5
20	24.0	37.0	26.7	29	35	38	19.0	8.5	7.5
22	26.0	37.0	27.7	31	37	38	19.0	8.5	7.5
24	28.0	42.5	31.2	33	39	44	19.0	8.5	7.5
25	29.0	42.5	31.2	34	40	44	23.0	8.5	7.5
28	32.0	49.0	35.0	37	43	50	23.0	8.5	7.5
30	34.0	49.0	37.0	39	45	50	23.5	8.5	7.5
32	36.0	53.5	40.2	42	48	55	23.5	8.5	7.5
33	37.0	53.5	40.2	42	48	55	24.5	8.5	7.5
35	40.0	57.0	43.2	44	50	59	25.0	8.5	7.5
38	43.0	59.0	46.2	49	56	61	25.5	10.0	9.0
40	45.0	62.0	48.8	51	58	64	25.5	10.0	9.0
43	48.0	65.5	51.8	54	61	67	25.5	10.0	9.0
45	50.0	68.0	53.8	56	63	70	26.0	10.0	9.0
48	53.0	70.0	56.8	59	66	74	26.0	10.0	9.0
50	55.0	74.0	58.8	62	70	77	30.0	10.5	9.0
55	60.0	81.0	64.2	67	75	83	31.0	12.0	11.0
58	64.0	85.5	67.2	70	78	88	32.0	12.0	11.0
60	66.0	88.5	70.0	72	80	91	34.0	12.0	11.0
65	71.0	93.5	75.0	77	85	96	34.0	12.0	11.0
68	74.0	96.5	78.0	81	90	100	34.0	12.5	11.3
70	76.0	99.5	80.0	83	92	103	34.0	12.5	11.3
75	81.0	107.0	85.5	88	97	110	34.0	12.5	11.3
80	86.0	112.0	90.5	95	105	116	34.0	13.0	12.0
85	92.0	120.0	96.0	100	110	124	35.0	15.0	14.0
90	97.0	127.0	102.0	105	115	131	38.0	15.0	14.0
95	102.0	132.0	107.0	110	120	136	39.0	15.0	14.0
100	107.0	137.0	112.0	115	125	140	40.0	15.0	14.0
110	118.0	150.0	123.0	-	-	154	43.0	-	-

eMG12



d (mm)	Db	Da	D3	D6	D7	Dst	L1	L2	L3
15	18.5	28.5	20.8	-	-	30	-	-	-
16	19.5	28.5	21	23	27	30	28.4	7.5	6.6
18	21.5	32.0	23.7	27	33	33	30.0	8.5	7.5
20	24.0	37.0	26.7	29	35	38	30.0	8.5	7.5
22	26.0	37.0	27.7	31	37	38	30.0	8.5	7.5
24	28.0	42.5	31.2	33	39	44	32.5	8.5	7.5
25	29.0	42.5	31.2	34	40	44	32.5	8.5	7.5
28	32.0	49.0	35.0	37	43	50	35.0	8.5	7.5
30	34.0	49.0	37.0	39	45	50	35.0	8.5	7.5
32	36.0	53.5	40.2	42	48	55	23.5	8.5	7.5
33	37.0	53.5	40.2	42	48	55	24.5	8.5	7.5
35	40.0	57.0	43.2	44	50	59	25.0	8.5	7.5
38	43.0	59.0	46.2	49	56	61	25.5	10.0	9.0
40	45.0	62.0	48.8	51	58	64	25.5	10.0	9.0
43	48.0	65.5	51.8	54	61	67	25.5	10.0	9.0
45	50.0	68.0	53.8	56	63	70	26.0	10.0	9.0
48	53.0	70.0	56.8	59	66	74	26.0	10.0	9.0
50	55.0	74.0	58.8	62	70	77	30.0	10.5	9.0
55	60.0	81.0	64.2	67	75	83	31.0	12.0	11.0
58	64.0	85.5	67.2	70	78	88	32.0	12.0	11.0
60	66.0	88.5	70.0	72	80	91	34.0	12.0	11.0
65	71.0	93.5	75.0	77	85	96	34.0	12.0	11
68	74.0	96.5	78.0	81	90	100	34.0	12.5	11.3
70	76.0	99.5	80.0	83	92	103	34.0	12.5	11.3
75	81.0	107.0	85.5	88	97	110	34.0	12.5	11.3
80	86.0	112.0	90.5	95	105	116	34.0	13.0	12.0
85	92.0	120.0	96.0	100	110	124	35.0	15.0	14.0
90	97.0	127.0	102.0	105	115	131	38.0	15.0	14.0
95	102.0	132.0	107.0	110	120	136	39.0	15.0	14.0
100	107.0	137.0	112.0	115	125	140	40.0	15.0	14.0
110	118.0	150.0	123.0	-	-	154	43.0	-	-

eMG13



d (mm)	Db	Da	D3	D6	D7	Dst	L1	L2	L3
15	18.5	28.5	20.8	-	-	30	-	-	-
16	19.5	28.5	21.0	23	27	30	33.4	7.5	6.6
18	21.5	32.0	23.7	27	33	33	-	8.5	7.5
20	24.0	37.0	26.7	29	35	38	-	8.5	7.5
22	26.0	37.0	27.7	31	37	38	-	8.5	7.5
24	28.0	42.5	31.2	33	39	44	-	8.5	7.5
25	29.0	42.5	31.2	34	40	44		8.5	7.5
28	32.0	49.0	35.0	37	43	50	42.5	8.5	7.5
30	34.0	49.0	37.0	39	45	50	-	8.5	7.5
32	36.0	53.5	40.2	42	48	55	-	8.5	7.5
33	37.0	53.5	40.2	42	48	55	-	8.5	7.5
35	40.0	57.0	43.2	44	50	59	-	8.5	7.5
38	43.0	59.0	46.2	49	56	61	46.0	10.0	9.0
40	45.0	62.0	48.8	51	58	64	-	10.0	9.0
43	48.0	65.5	51.8	54	61	67	-	10.0	9.0
45	50.0	68.0	53.8	56	63	70		10.0	9.0
48	53.0	70.0	56.8	59	66	74	51.0	10.0	9.0
50	55.0	74.0	58.8	62	70	77	-	10.5	9.5
55	60.0	81.0	64.2	67	75	83	59.0	12.0	11.0
58	64.0	85.5	67.2	70	78	88	-	12.0	11.0
60	66.0	88.5	70.0	72	80	91	59.0	12.0	11.0
65	71.0	93.5	75.0	77	85	96	-	12.0	11.0
68	74.0	96.5	78.0	81	90	100	-	12.5	11.3
70	76.0	99.5	80.0	83	92	103	-	12.5	11.3
75	81.0	107.0	85.5	88	97	110	-	12.5	11.3
80	86.0	112.0	90.5	95	105	116	-	13.0	12.0
85	92.0	120.0	96.0	100	110	124	-	15.0	14.0
90	97.0	127.0	102.0	105	115	131	-	15.0	14.0
95	102.0	132.0	107.0	110	120	136	-	15.0	14.0
100	107.0	137.0	112.0	115	125	140	-	15.0	14.0
110	118.0	150.0	123.0	-	-	154	-	-	-

HQ126

Type: O-Ring Mechanical Seal

Temperature: -20 to 150°C

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

Speed: $\leq 3000\text{r/min}$

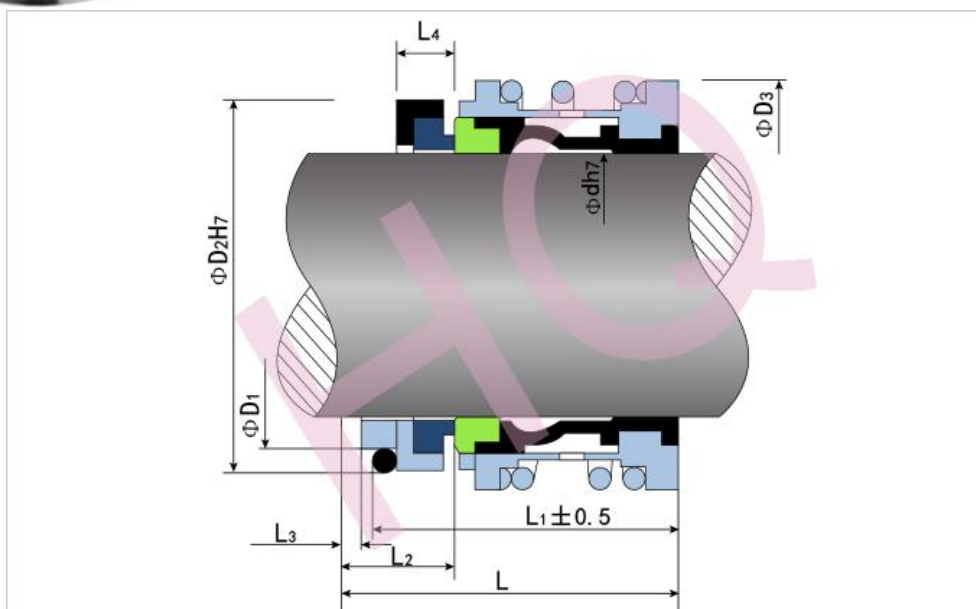
Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



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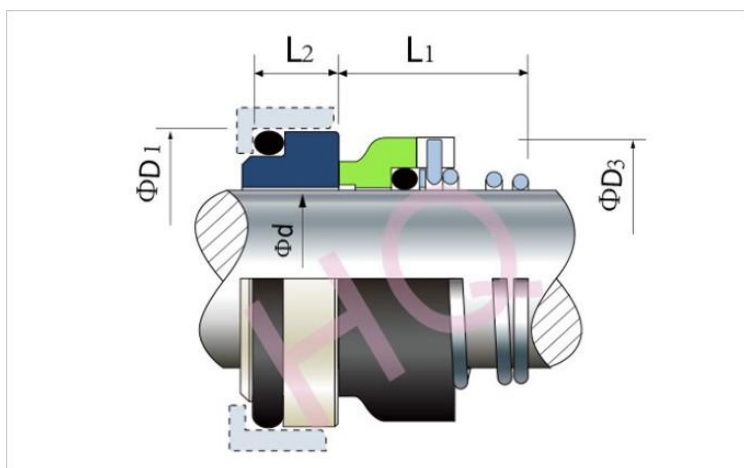


d (mm)	D1	D2	D3	L	L1	L2	L3	L4
30	39	45	52	51	45	19	5	7.5
35	44	50	57	53	47	20	5	7.5
40	51	58	64	58	52	20	5	9.0
45	56	63	72	62	56	20	5	9.0
50	62	70	76	64	57	22	6	9.5
55	67	75	82	64	57	22	6	11.0
60	72	80	86	65	58	22	6	11.5
65	77	85	92	68	61	23	6	11.5
70	83	92	100	69	62	25	6	11.5
75	88	97	105	71	64	25	6	11.5
80	95	105	115	72	65	25	6	12.0

HQM2



Type: O-Ring Mechanical Seal
 Replacement: Burgmann M2, AES T07, Roten 22
 Temperature: -20 to +150°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B, Q2, U2, P, E, N, V, F, G, Alfa



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d (mm)	D1	D3	L1	L2
10	19.2	20	15.9	6.6
12	21.6	22	16.0	5.6
14	24.6	25	16.0	5.6
15	24.6	27	17.4	6.6
16	28.0	27	19.0	7.5
18	30.0	30	20.5	8.0
20	35.0	35	22.0	7.5
22	35.0	35	23.5	7.5
24	38.0	38	25.0	7.5
25	38.0	40	26.5	7.5
28	42.0	43	26.5	9.0
30	45.0	45	25.0	10.5
32	48.0	47	28.5	10.5
35	52.0	50	28.5	11.0
38	55.0	56	32.0	10.3

HQM2N

Type: O-Ring Mechanical Seal

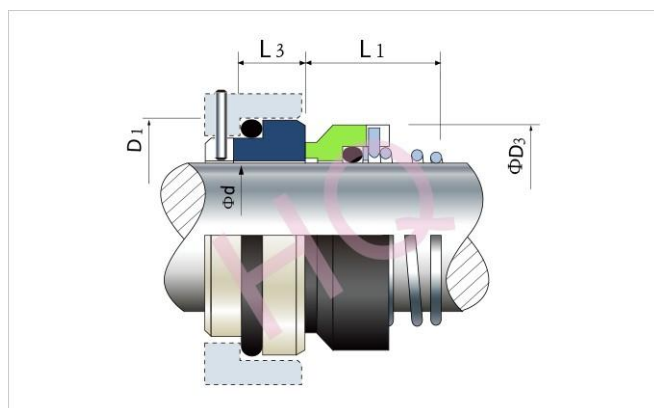
Replacement: Burgmann M2N, AES T07D, RotenUniten 22

Temperature: -20°C to +180°C

Pressure: ≤1Mpa

Speed: ≤15m/s

Material: Q2.U2,B,V1,P,E,V,F,G



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d (mm)	D1	D3	L1	L3
10	21	20	17.5	10.0
12	23	22	17.5	10.0
14	25	25	17.5	10.0
16	27	27	19.5	10.0
18	33	30	20.5	11.5
20	35	32	22.0	11.5
22	37	35	23.5	11.5
24	39	38	25.0	11.5
25	40	40	26.5	11.5
28	43	43	26.5	11.5
30	45	47	25.0	11.5
32	48	48	28.5	11.5
35	50	53	28.5	11.5
38	58	56	32.0	14.0

d (inch)	D1	D3	L1	L3
0.394	0.827	0.787	0.689	0.394
0.472	0.906	0.866	0.689	0.394
0.551	0.984	0.984	0.689	0.394
0.630	1.063	1.063	0.768	0.394
0.709	1.299	1.181	0.807	0.453
0.787	1.378	1.26	0.866	0.453
0.866	1.457	1.378	0.925	0.453
0.945	1.535	1.496	0.984	0.453
0.984	1.575	1.575	1.043	0.453
1.102	1.693	1.693	1.043	0.453
1.181	1.772	1.772	0.984	0.453
1.260	1.890	1.850	1.122	0.453
1.378	1.969	1.969	1.122	0.453
1.496	2.205	2.205	1.260	0.551

HQM3

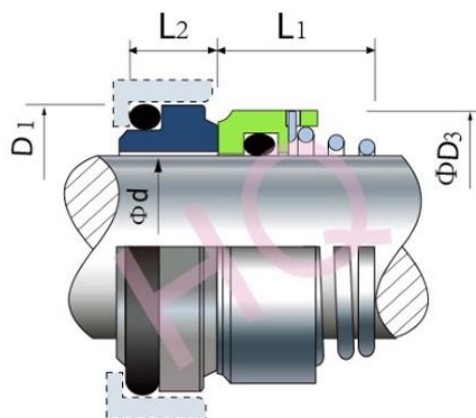


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Type: O-Ring Mechanical Seal
 Replacement: Burgmann M3,AES T02,Vulcan
 8B,Flowserve 39
 Temperature: -20 to +150°C
 Pressure: $\leq 1.0\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



d (mm)	D1	D3	L1	L2
10	19.2	19	15.5	7.1
12	21.6	20	15.5	7.6
14	24.6	23	15.5	7.6
15	24.6	24	15.5	8.6
16	28.0	26	17.5	9.0
18	30.0	29	18.5	10.0
19	31.0	31	20.0	9.0
20	35.0	31	20.0	9.5
22	35.0	33	21.5	9.5
24	38.0	35	23.0	9.5
25	38.0	36	24.5	9.5
26	40.0	36	24.5	10.0
28	42.0	40	24.5	11.0
30	45.0	43	24.5	11.0
32	48.0	46	28.0	11.0
35	52.0	49	28.0	11.5
38	55.0	53	31.0	11.5
40	58.0	56	34.0	11.5
42	62.0	59	35.0	14.3
43	63.0	59	35.0	14.3
45	64.0	61	36.5	14.3
48	68.4	64	42.0	14.3
50	69.3	66	43.0	14.3
55	75.4	71	47.0	15.3
58	78.4	76	50.0	15.3
60	80.4	78	51.0	15.3
65	85.4	84	52.0	15.3
68	91.5	87	53.0	16.0
70	92.0	90	54.0	15.3
75	99.0	98	55.0	15.3
80	104.0	100	58.0	16.3



HQM3N

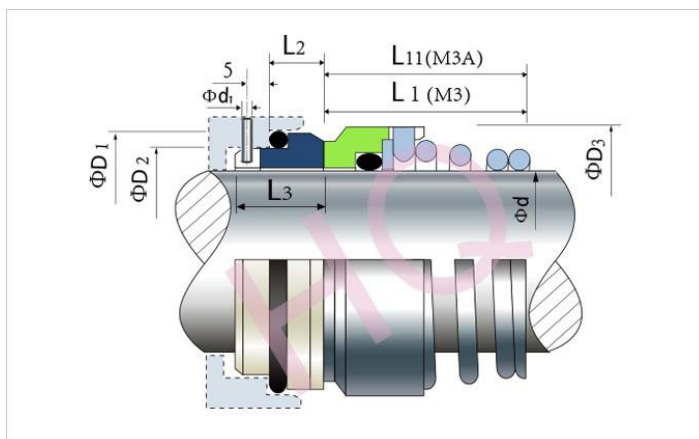


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Type: O-Ring Mechanical Seal
 Replacement: Burgmann M3N
 Temperature: -20°C to +180°C
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	d1	D1	D2	D3	L1	L2	L3	L11
10	3	21	17	19	15.5	10.0	17.5	15.5
12	3	23	19	21	16.0	10.0	17.5	15.5
14	3	25	21	23	16.5	10.0	17.5	15.5
16	3	27	23	26	18.0	10.0	17.5	17.5
18	3	33	27	29	19.5	11.5	19.5	18.5
20	3	35	29	31	22.0	11.5	19.5	20.0
22	3	37	31	33	21.5	11.5	19.5	21.5
24	3	39	33	35	23.5	11.5	19.5	23.0
25	3	40	34	36	26.5	11.5	19.5	24.5
28	3	43	37	40	26.5	11.5	19.5	24.5
30	3	45	39	43	26.5	11.5	19.5	24.5
32	3	48	42	46	28.5	11.5	19.5	28.0
33	3	48	42	47	28.5	11.5	19.5	—
35	3	50	44	49	28.5	11.5	19.5	28.0
38	4	56	49	53	33.5	14.0	22.0	31.0
40	4	58	51	56	36.0	14.0	22.0	34.0
43	4	61	54	59	38.5	14.0	22.0	—
45	4	63	56	61	39.5	14.0	22.0	36.5
48	4	66	59	64	46.0	14.0	22.0	42.0
50	4	70	62	66	45.0	15.0	23.0	43.0
53	4	73	65	69	47.0	15.0	23.0	—
55	4	75	67	71	49.0	15.0	23.0	47.0
58	4	78	70	76	55.0	15.0	23.0	50.0
60	4	80	72	78	55.0	15.0	23.0	51.0
63	4	83	75	83	55.0	15.0	23.0	—
65	4	85	77	84	55.0	15.0	23.0	52.0
68	4	90	81	88	55.0	18.0	26.0	53.0
70	4	92	83	90	57.0	18.0	26.0	54.0
75	4	97	88	98	62.0	18.0	26.0	55.0
80	4	105	95	100	61.8	18.2	26.2	58.0



HQM32 /M377

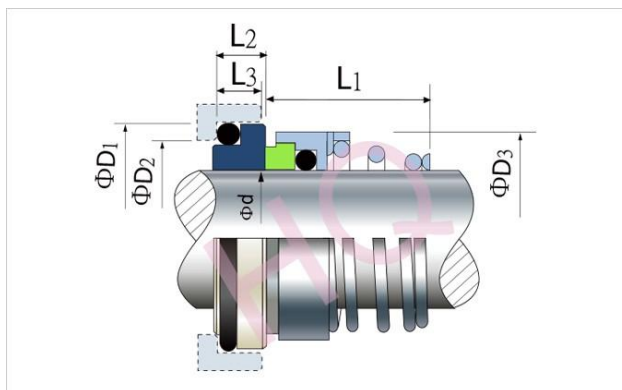


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Type: O-Ring Mechanical Seal
Replacement: Burgmann M32/M377, Vulcan 8, AES
T01, Roten L4B, Flowserve38
Temperature: -20°C to +180°C
Pressure: $\leq 1\text{Mpa}$
Speed: $\leq 15\text{m/s}$
Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	D1	D2	D3	L1	L2	L3
10	19.2	15.5	19	15.5	6.6	5.0
12	21.6	17.5	21	15.5	5.6	5.0
14	24.6	20.5	23	15.5	5.6	5.0
15	24.6	20.5	24	15.5	6.6	5.0
16	28.0	22.0	26	17.5	7.5	6.5
18	30.0	24.0	29	18.5	8.0	6.5
19	31.0	25.0	31	20.0	7.5	6.5
20	35.0	29.5	31	20.0	7.5	6.5
22	35.0	29.5	33	21.5	7.5	6.5
24	38.0	32.0	35	23.0	7.5	6.5
25	38.0	32.0	36	24.5	7.5	6.5
26	40.0	34.0	37	24.5	8.0	6.5
28	42.0	36.0	40	24.5	9.0	6.5
30	45.0	39.2	43	24.5	10.5	6.5
32	48.0	42.2	46	28.0	10.5	6.5
35	52.0	46.2	49	28.0	11.0	6.5
38	55.0	49.2	53	31.0	10.3	6.5
40	58.0	52.2	56	34.0	10.8	6.5
42	62.0	53.3	59	35.0	12.0	8.0
43	62.0	54.3	59	35.0	12.0	8.0
45	64.0	55.3	61	36.5	11.6	8.0
48	68.0	59.7	64	42.0	11.6	8.0
50	69.0	60.8	66	43.0	11.6	8.5
55	75.4	66.5	71	47.0	13.3	8.5
58	78.4	69.5	76	50.0	13.3	8.5
60	80.4	71.5	78	51.0	13.3	8.5
65	85.4	76.5	84	52.0	13.0	8.5
68	91.5	82.7	88	53.0	13.7	9.5
70	92.0	83.0	90	54.0	13.0	9.5
75	99.0	92.2	98	55.0	14.0	9.5
80	104.0	95.2	100	58.0	15.0	10.0

HQM32N/M377N



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Type: O-Ring Mechanical Seal

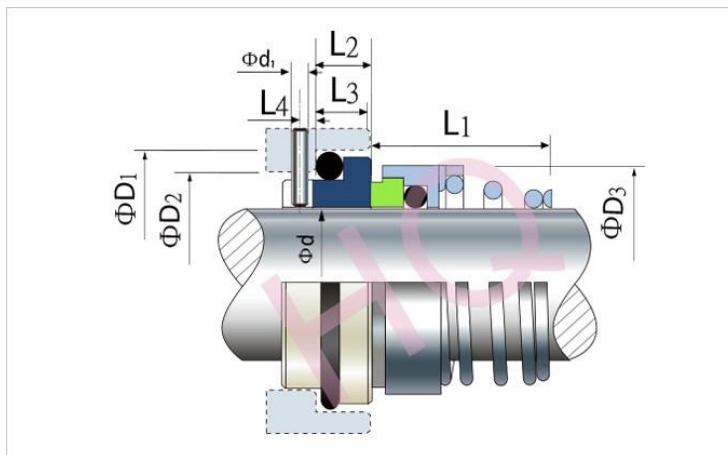
Replacement: Burgmann M32N/M377N, Vulcan 8.DIN,
AES T01D, Flowserve38D

Temperature: -20°C to +180°C

Pressure: ≤1Mpa

Speed: ≤15m/s

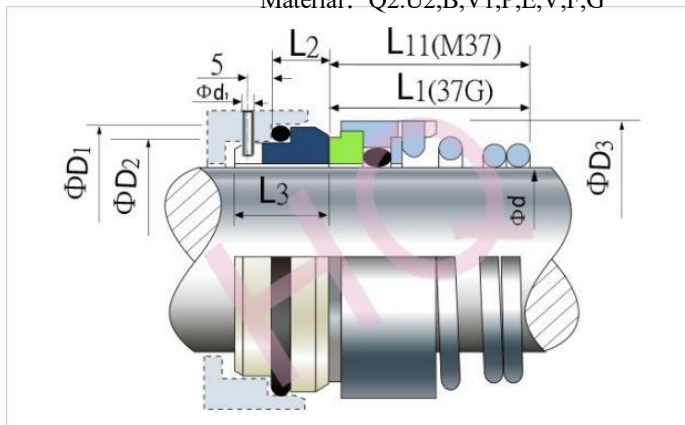
Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	d1	D1	D2	D3	L1	L2	L3	L4
10	3	21	17	19	15.5	10.0	5.5	5
12	3	23	19	21	16.0	10.0	5.5	5
14	3	25	21	23	16.5	10.0	5.5	5
16	3	27	23	26	18.0	10.0	5.5	5
18	3	33	27	29	19.5	11.5	7.0	5
20	3	35	29	31	21.5	11.5	7.0	5
22	3	37	31	33	21.5	11.5	7.0	5
24	3	39	33	35	23.5	11.5	7.0	5
25	3	40	34	36	26.5	11.5	7.0	5
28	3	43	37	40	26.5	11.5	7.0	5
30	3	45	39	43	26.5	11.5	7.0	5
32	3	48	42	46	28.5	11.5	7.0	5
35	3	50	44	49	28.5	11.5	7.0	5
38	4	56	49	53	33.5	14.0	8.0	5
40	4	58	51	56	36.0	14.0	8.0	5
43	4	61	54	59	38.5	14.0	8.0	5
45	4	63	56	61	39.5	14.0	8.0	5
48	4	66	59	64	45.0	14.0	8.0	5
50	4	70	62	66	45.0	15.0	8.5	5
53	4	73	65	69	47.0	15.0	8.5	5
55	4	75	67	71	49.0	15.0	8.5	5
58	4	78	70	76	55.0	15.0	8.5	5
60	4	80	72	78	55.0	15.0	8.5	5
65	4	85	77	84	55.0	15.0	8.5	5
68	4	90	81	88	55.0	18.0	9.5	5
70	4	92	83	90	57.0	18.0	9.5	5
75	4	97	88	98	62.0	18.0	9.5	5
80	4	105	95	100	61.8	18.2	10.0	5

HQM37/M37G

Type: O-Ring Mechanical Seal
 Replacement: Burgmann M37/M37G
 Temperature: -20°C to +180°C
 Pressure: ≤1Mpa
 Speed: ≤15m/s
 Material: Q2,U2,B,V1,P,E,V,F,G



d (mm)	D3	D2	D1	d1	L1	L11	L2	L3
10	20	17	21	3	16.9	-	10.0	17.5
12	22	19	23	3	17.4	-	10.0	17.5
14	24	21	25	3	17.4	16.5	10.0	17.5
16	26	23	27	3	19.5	16.5	10.0	17.5
18	31	27	33	3	20.5	18.0	11.5	19.5
20	34	29	35	3	22.0	19.0	11.5	19.5
22	36	31	37	3	23.5	20.5	11.5	19.5
24	38	33	39	3	25.0	22.0	11.5	19.5
25	39	34	40	3	26.5	23.5	11.5	19.5
28	42	37	43	3	26.5	24.5	11.5	19.5
30	44	39	45	3	25.0	24.5	11.5	19.5
32	46	42	48	3	28.5	28.0	11.5	19.5
33	47	42	48	3			11.5	19.5
35	49	44	50	3	28.5	28.0	11.5	19.5
38	54	49	56	4	32.2	31.0	14.0	22.0
40	56	51	58	4	34.7	34.0	14.0	22.0
43	59	54	61	4			14.0	22.0
45	61	56	63	4	39.2	36.5	14.0	22.0
48	64	59	66	4	44.7	42.0	14.0	22.0
50	66	62	70	4	45.7	43.0	15.0	23.0
53	69	65	73	4			15.0	23.0
55	71	67	75	4	49.0	47.0	15.0	23.0
58	78	70	78	4	52.0	50.0	15.0	23.0
60	79	72	80	4	53.0	51.0	15.0	23.0
63	83	75	83	4			15.0	23.0
65	85	77	85	4	54.3	52.0	15.0	23.0
68	88	81	90	4	55.3	52.7	18.0	26.0
70	90	83	92	4	56.3	54.0	18.0	26.0
75	98	88	97	4	56.3	54.0	18.0	26.0
80	103	95	105	4	59.3	58.0	18.2	26.2



HQBT-FH/HQBT-FHC

Type: O-Ring Mechanical Seal

Replacement: BURGMANN BT-FH, AES T06D, Roten
UNITEN 5K

Temperature: -20 to +150°C

Pressure: ≤1Mpa

Speed: ≤10m/s

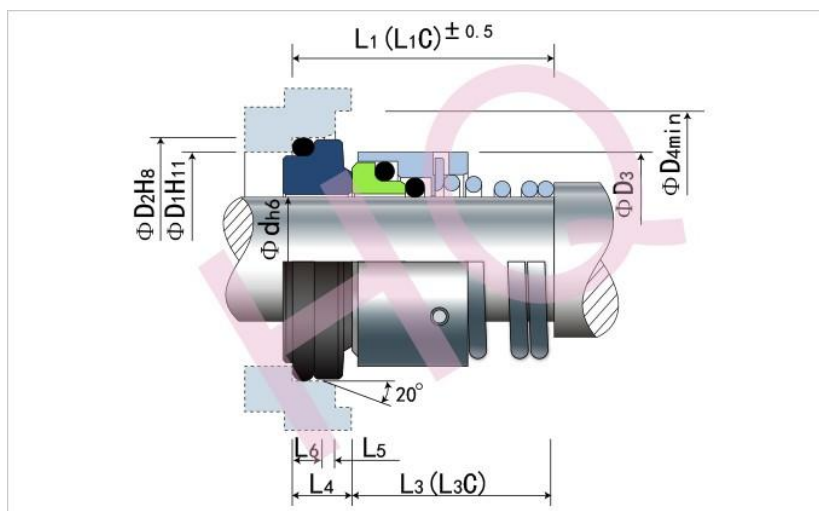
Material: B, A1, Q1, Q2, U2, P, E, N, V, F, G, Alfa



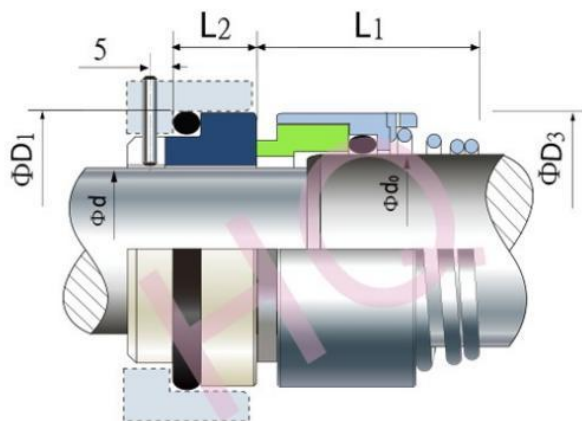
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BT-FH										BT-FHC	
d(mm)	D1	D2	D3	D4	L1	L3	L4	L5	L6	L1C	L3C
10	14.0	18.1	20	22	25.5	20	5.5	1.2	3	20.5	15
12	16.5	20.6	22	25	27.5	22	5.5	1.2	3	23.5	18
14	19.0	23.1	25	28	33.0	27	6.0	1.2	3	28.0	22
15	21.0	26.9	29	32	34.0	27	7.0	1.5	4	28.0	22
16	21.0	26.9	29	32	35.0	28	7.0	1.5	4	30.0	23
18	25.0	30.9	33	36	38.0	30	8.0	1.5	4	32.0	24
20	25.0	30.9	33	36	38.0	30	8.0	1.5	4	33.0	25
22	30.0	35.4	38	41	38.0	30	8.0	2.0	4	33.0	25
24	30.0	35.4	38	41	40.0	32	8.0	2.0	4	35.0	27
25	33.0	38.2	40	45	41.5	33	8.5	2.0	4	35.5	27
26	33.0	38.2	40	45	41.5	33	8.5	2.0	4	35.5	27
28	38.0	43.3	46	50	45.0	36	9.0	2.0	4	38.0	29
30	38.0	43.3	46	50	46.0	37	9.0	2.0	4	39.0	30
32	38.0	43.3	46	50	46.0	37	9.0	2.0	4	39.0	30
34	45.0	53.3	56	62	59.5	48	11.5	2.0	6	50.5	39
35	45.0	53.3	56	62	59.5	48	11.5	2.0	6	50.5	39
36	45.0	53.3	56	62	59.5	48	11.5	2.0	6	50.5	39
38	52.0	60.5	63	70	59.5	48	11.5	2.0	6	50.5	39
40	52.0	60.5	63	70	59.5	48	11.5	2.0	6	50.5	39
42	52.0	60.5	63	70	59.5	48	11.5	2.0	6	50.5	39
43	52.0	60.5	63	70	59.5	48	11.5	2.0	6	52.5	41
45	57.0	65.5	69	75	62.5	51	11.5	2.0	6	52.5	41
48	57.0	65.5	69	75	62.5	51	11.5	2.0	6	52.5	41
50	64.0	72.5	76	83	66.5	55	11.5	2.0	6	56.5	45
55	64.0	72.5	76	83	68.5	57	11.5	2.0	6	58.5	47
60	72.0	79.3	84	90	72.5	61	11.5	2.0	6	60.5	49
65	77.0	84.5	89	96	74.5	63	11.5	2.0	6	62.5	51
70	82.0	89.5	94	101	74.5	63	11.5	2.0	6	62.5	51
75	87.0	94.5	100	106	79.5	68	11.5	2.0	6	68.5	57
80	92.0	99.5	105	111	81.5	70	11.5	2.0	6	70.5	59
85	98.0	105.5	115	125	85.5	72	13.5	2.5	6	72.5	59
90	105.0	111.5	120	132	88.5	75	13.5	2.5	6	75.5	62
95	110	116.5	126	137	88.5	75	13.5	2.5	6	75.5	62
100	114	119.5	130	143	98.5	85	13.5	2.5	6	88.5	75



Type: O-Ring Mechanical Seal
 Replacement: Burgmann H12N, AES T01DB
 Temperature: -20°C to +180°C
 Pressure: ≤1Mpa
 Speed: ≤15m/s
 Material: Q2,U2,B,V1,P,E,V,F,G

d (mm)	d0	D1	D3	L1	L2
10	14	21	24	25.5	10.0
12	16	23	26	26.5	10.0
14	18	25	31	29.5	10.0
16	20	27	34	31.0	10.0
18	22	33	36	32.5	11.5
20	24	35	38	32.5	11.5
22	26	37	40	32.5	11.5
24	28	39	42	32.5	11.5
25	30	40	44	33.5	11.5
28	33	43	47	35.5	11.5
30	35	45	49	35.5	11.5
32	38	48	54	39.5	11.5
33	38	48	54	39.5	11.5
35	40	50	56	43.5	11.5
38	43	56	59	46.0	14.0
40	45	58	61	48.0	14.0
43	48	61	64	51.0	14.0
45	50	63	66	55.0	14.0
48	53	66	69	55.0	14.0
50	55	70	71	58.0	15.0
53	58	73	78	60.0	15.0
55	60	75	79	60.0	15.0
58	63	78	83	60.0	15.0
60	65	80	85	60.0	15.0
63	68	83	88	60.0	15.0
65	70	85	90	61.0	15.0
70	75	92	98	63.0	18.0
75	80	97	103	68.0	18.0
80	85	105	109	68.0	18.2

HQ155/155B

Type: O-Ring Mechanical Seal

Replacement: Burgmann BT-FN/BT-FN.NU,
 Roten3/Uniten 3, AES T04/T04D,
 Vulcan13/13 DIN, Flowserve43/43D,
 Latty T901/T901D, Lidering CP-155

Temperature: -20°C to +150°C

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

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

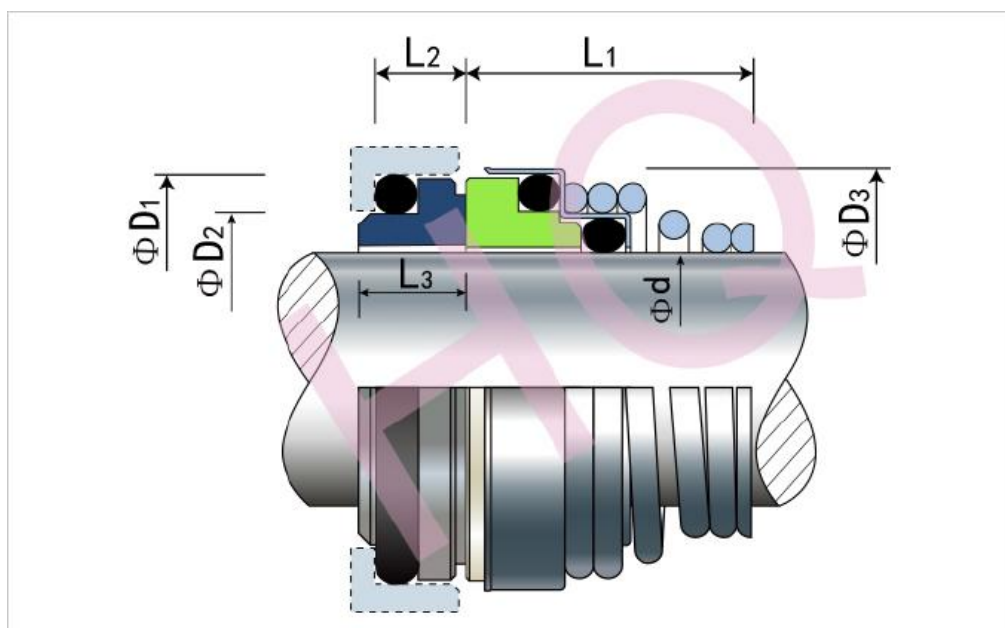
Material: Q2.U2,B,V1,P,E,V,F,G



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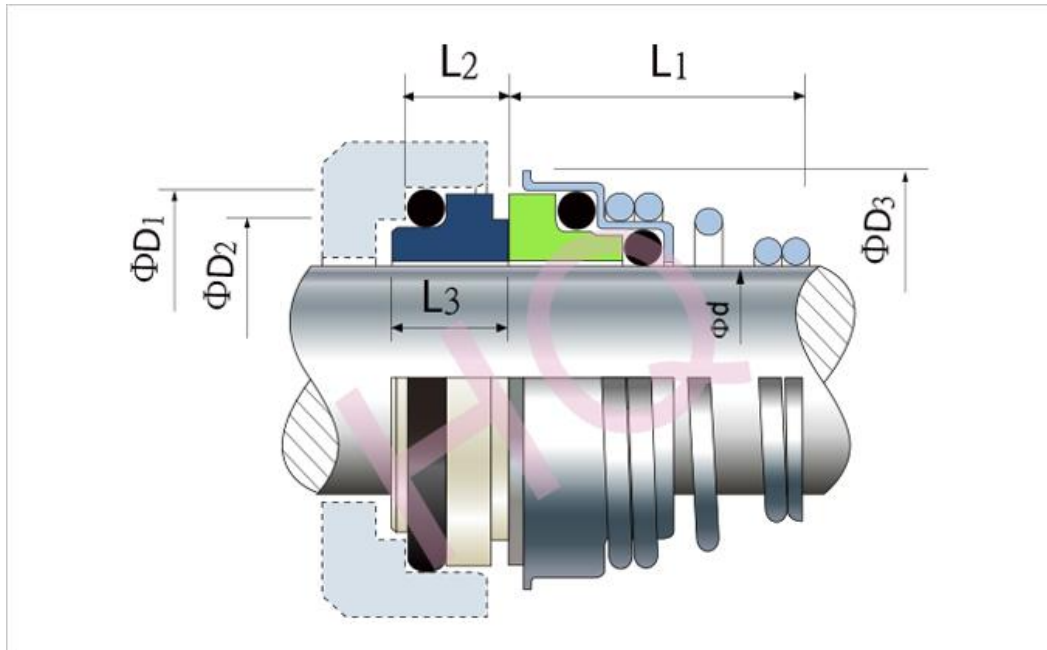
HQ155(AES T04, Burgmann BT-FN, Flowserve 43, Latty T901, Roten 3, Vulcan 13)



d (mm)	D1	D2	D3	L1	L2	L3
10	18.1	14.0	19.5	15.0	5.5	7.0
11	20.6	16.5	22.0	18.0	5.5	7.0
12	20.6	16.5	23.0	18.0	5.5	7.0
13	23.1	19.0	25.0	22.0	6.0	7.5
14	23.1	19.0	25.0	22.0	6.0	7.5
14B	23.1	19.0	24.5	16.6	6.0	7.5
15	26.9	21.0	28.7	22.0	7.0	9.2
16	26.9	21.0	28.7	23.0	7.0	9.2
17	26.9	21.0	28.7	23.0	7.0	9.2
18	30.9	25.0	32.7	24.0	8.0	10.0
19	30.9	25.0	32.7	25.0	8.0	10.0
20	30.9	25.0	32.7	25.0	8.0	10.0
21	35.4	30.0	37.5	25.0	8.0	10.0
22	35.4	30.0	37.5	25.0	8.0	10.0
23	35.4	30.0	37.5	27.0	8.0	10.0
24	35.4	30.0	37.5	27.0	8.0	10.0
25	38.2	33.0	40.0	27.0	8.5	10.0
28	43.3	38.0	45.5	29.0	9.0	11.0
29	43.3	38.0	45.5	30.0	9.0	11.0
30	43.3	38.0	45.5	30.0	9.0	11.0
32	43.3	38.0	45.5	30.0	9.0	11.0
33	53.5	45.0	48.0	39.0	11.5	13.0
35	53.5	45.0	50.0	39.0	11.5	13.0
38	60.5	52.0	56.0	39.0	11.5	13.0
40	60.5	52.0	58.0	39.0	11.5	13.0

d (inch)	D1	D3	L1	L2
0.394	0.713	0.768	0.591	0.217
0.433	0.811	0.866	0.709	0.217
0.472	0.811	0.906	0.709	0.217
0.512	0.909	0.984	0.866	0.236
0.551	0.909	0.984	0.866	0.236
0.551B	0.909	0.984	0.654	0.236
0.591	1.059	1.132	0.866	0.276
0.63	1.059	1.132	0.906	0.276
0.669	1.059	1.132	0.906	0.276
0.709	1.217	1.289	0.945	0.315
0.748	1.217	1.289	0.984	0.315
0.787	1.217	1.289	0.984	0.315
0.827	1.394	1.476	0.984	0.315
0.866	1.394	1.476	0.984	0.315
0.906	1.394	1.476	1.063	0.315
0.945	1.394	1.476	1.063	0.315
0.984	1.504	1.575	1.063	0.335
1.102	1.705	1.791	1.142	0.354
1.142	1.705	1.791	1.181	0.354
1.181	1.705	1.791	1.181	0.354
1.26	1.705	1.791	1.181	0.354
1.299	2.106	1.89	1.535	0.453
1.378	2.106	1.969	1.535	0.453
1.496	2.382	2.205	1.535	0.453
1.575	2.382	2.283	1.535	0.453

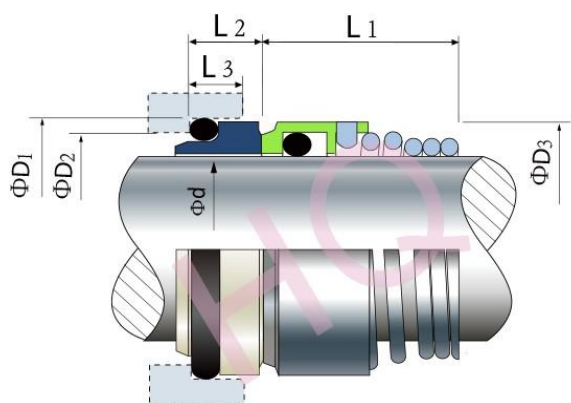
HQ155B((AES T04D, Burgmann BT-FN.NU, Flowserve 43D, Latty T901D,
Uniten 3, Vulcan 13 DIN)



d (mm)	D1	D2	D3	L1	L2	L3
10	21	17	20.0	15.2	7	8.5
12	23	19	22.0	18.2	7	8.5
14	25	21	25.0	22.2	7	8.5
16	27	23	29.0	23.2	7	8.5
18	33	27	33.0	24.2	10	12.0
20	35	29	33.0	25.2	10	12.0
22	37	31	38.0	25.2	10	12.0
24	39	33	38.0	27.2	10	12.0
25	40	34	40.0	27.2	10	12.0
28	43	37	46.0	29.2	10	12.0
30	45	39	46.0	30.2	10	12.0
32	48	42	46.0	30.2	10	11.5
33	48	42	48.0	39.2	10	11.5
35	50	44	50.0	39.2	10	11.5
38	56	49	56.0	42.2	13	15.0
40	58	51	58.0	42.2	13	15.0

d (inch)	D1	D3	L1	L2
0.394	0.827	0.787	0.591	0.276
0.472	0.906	0.866	0.709	0.276
0.551	0.984	0.984	0.866	0.276
0.630	1.063	1.142	0.906	0.276
0.709	1.299	1.299	0.945	0.394
0.787	1.378	1.299	0.984	0.394
0.866	1.457	1.496	0.984	0.394
0.945	1.535	1.496	1.063	0.394
0.984	1.575	1.575	1.063	0.394
1.102	1.693	1.811	1.142	0.394
1.181	1.772	1.811	1.181	0.394
1.26	1.890	1.811	1.181	0.394
1.299	1.890	1.890	1.535	0.394
1.378	1.969	1.968	1.535	0.394
1.496	2.205	2.205	1.654	0.512
1.575	2.283	2.283	1.654	0.512

HQT03



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Type: O-Ring Mechanical Seal

Replacement: Burgmann BT-RN, AES T03, Vulcan
12, Roten 2, Flowserve42,LATTY T900

Temperature: -40°C to +200°C

Pressure: ≤1Mpa

Speed: ≤15m/s

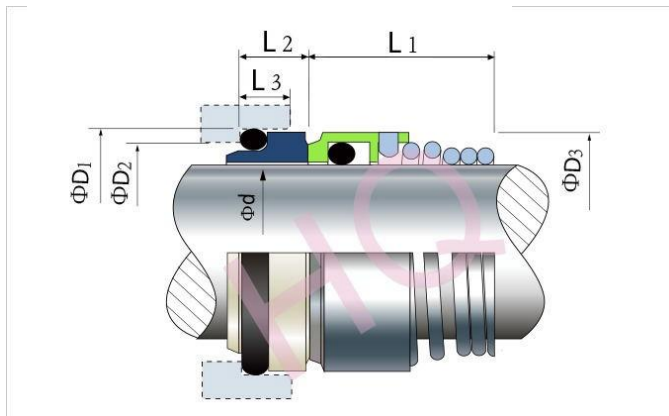
Material: Q2.U2,B,V1,P,E,V,F,G

d (mm)	D1	D2	D3	L1	L2	L3
10	18.1	14.0	19	15	5.5	4.0
11	20.6	16.5	21	18	5.5	4.0
12	20.6	16.5	21	18	5.5	4.0
13	23.1	19.0	23	22	6.0	4.0
14	23.1	19.0	23	22	6.0	4.0
15	26.9	21.0	24	22	7.0	5.0
16	26.9	21.0	26	23	7.0	5.0
18	30.9	25.0	29	24	7.0	5.0
19	30.9	25.0	31	25	8.0	5.0
20	30.9	25.0	31	25	8.0	5.0
21	35.4	30.0	33	25	8.0	5.5
22	35.4	30.0	33	25	8.0	5.5
23	35.4	30.0	35	27	8.0	5.5
24	35.4	30.0	35	27	8.0	5.5
25	38.2	33.0	36	27	8.0	5.5
26	38.2	33.0	36	27	8.0	5.5
28	43.3	38.0	40	29	9.0	5.5
30	43.3	38.0	43	30	9.0	5.5
32	43.3	38.0	46	30	9.0	5.5
33	53.5	45.0	46	39	11.5	7.5
34	53.5	45.0	49	39	11.5	7.5
35	53.5	45.0	49	39	11.5	7.5
36	53.5	45.0	49	39	11.5	7.5
37	53.5	45.0	49	39	11.5	7.5
38	60.5	52.0	53	39	11.5	7.5
40	60.5	52.0	56	39	11.5	7.5
42	60.5	52.0	59	39	11.5	7.5
43	60.5	52.0	59	39	11.5	7.5
44	65.5	57.0	61	41	11.5	7.5
45	65.5	57.0	61	41	11.5	7.5
48	65.5	57.0	64	41	11.5	7.5
50	72.5	64.0	66	45	11.5	7.5
55	72.5	64.0	71	47	11.5	7.5
60	79.3	72.0	78	49	11.5	7.5
65	84.5	77.0	84	51	11.5	7.5
70	89.5	82.0	89	51	11.5	7.5
75	94.5	87.0	98	57	11.5	7.5
80	99.5	92.0	100	59	11.5	7.5
85	105.5	98.0	107	59	13.5	8.0
90	111.5	105.0	111	62	13.5	8.0
95	116.5	110.0	119	62	13.5	8.0
100	119.5	114.0	123	75	13.5	8.0



HQT03D

Type: O-Ring Mechanical Seal,Suit for Grundfos,Higle Pumps
 Replacement: Burgmann BT-RN UN, AES T03D, Vulcan 12DIN, Roten UNITEN 2, Flowserve42D,LATY T900D
 Temperature: -40°C to +200°C
 Pressure: ≤1Mpa
 Speed: ≤15m/s
 Material: Q2.U2,B,V1,P,E,V,F,G



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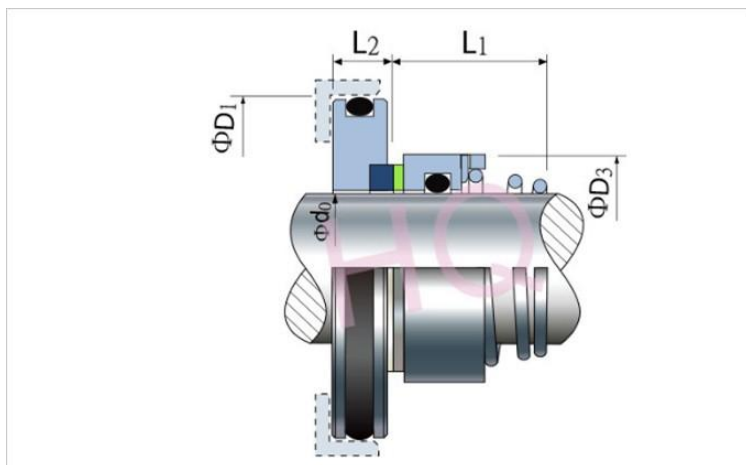
d (mm)	D1	D2	D3	L1	L2	L3
10	21	17	19.0	15	7.0	4.0
12	23	19	21.0	18	7.0	4.0
14	25	21	23.0	22	7.0	4.0
16	27	23	26.0	23	7.0	4.0
18	33	27	29.0	24	7.0	5.0
20	35	29	31.0	25	10.0	5.0
22	37	31	33.0	25	10.0	5.5
24	39	33	35.0	27	10.0	5.5
25	40	34	36.0	27	10.50	5.5
28	43	37	40.0	29	10.0	5.5
30	45	39	43.0	30	10.0	5.5
32	48	42	46.0	30	10.0	5.5
33	48	42	46.0	39	10.5	5.5
35	50	44	49.0	39	10.0	5.5
38	56	49	53.0	42	13.0	6.0
40	58	51	56.0	42	13.0	6.0
43	61	54	59.0	47	13.0	6.0
45	63	56	61.0	47	13.0	6.0
48	66	59	64.0	47	13.0	6.0
50	70	62	66.0	46	14.0	6.0
53	73	65	69.0	56	14.0	6.0
55	75	67	71.0	56	14.0	6.0
58	78	70	76.0	56	14.0	6.0
60	80	72	78.0	56	14.0	6.0
63	83	75	81.0	56	14.0	6.0
65	85	77	84.0	66	14.0	6.0
68	90	81	88.0	64	16.0	7.0
70	92	83	89.0	64	16.0	7.0
75	97	88	98.0	64	16.0	7.0
80	105	85	100.0	72	18.0	7.0
85	110	100	107.5	72	18.0	7.0
90	115	105	111.0	72	18.0	7.0
95	120	110	119.0	72	18.0	7.0
100	125	115	123.8	72	18.0	7.0



HQ32A(T01A)



Type: O-Ring Mechanical Seal, Suit for Allweiller
SPF10, SPF 20 Pumps
Replacement: AES T01A, Billi BB23, Burgmann M377
Special
Temperature: -20 to +150°C
Pressure: $\leq 1.1\text{Mpa}$
Speed: $\leq 10\text{m/s}$
Material: B, Q2, U2, P, E, N, V, F, G, Alfa



d (mm)	D1	D3	L1	L2
15	38	24	15.0	8.0
20	45	31	19.5	8.5
d (inch)	D1	D3	L1	L2
0.591	1.496	0.945	0.591	0.315
0.787	1.772	1.220	0.768	0.335



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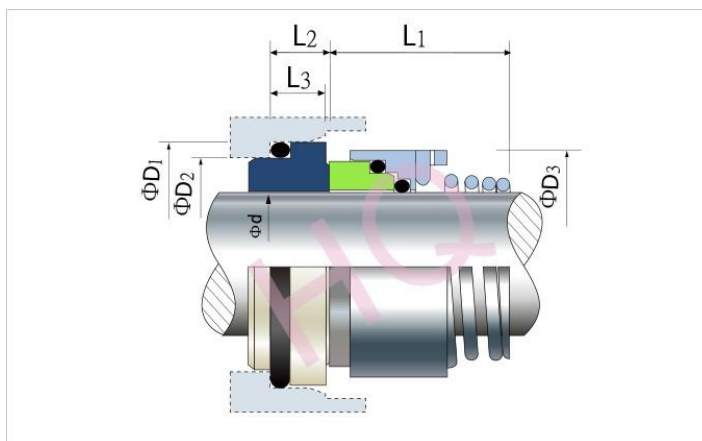
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HQ7D(155C)



Type: O-Ring Mechanical Seal
 Replacement: Vulcan 7D
 Temperature: -30°C to +200°C
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 18\text{m/s}$
 Material: Q2.U2,B,V1,P,E,V,F,G



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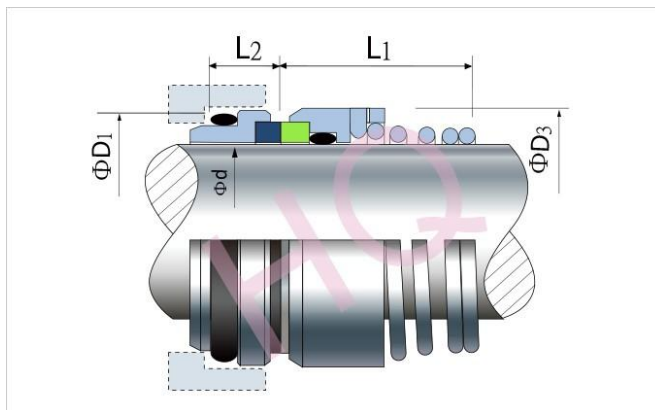
d (mm)	D1	D2	D3	L1	L2	L3
10	21	17	19.0	15	7	4
12	23	19	21.0	18	7	4
14	25	21	23.0	22	7	4
16	27	23	26.0	23	7	4
18	33	27	29.0	24	10	5
20	35	29	31.0	25	10	5
22	37	31	33.0	25	10	5
24	39	33	35.0	27	10	5
25	40	34	36.0	27	10	5
28	43	37	40.0	29	10	5
30	45	39	43.0	30	10	5
32	48	42	46.0	30	10	5
33	48	42	46.0	39	10	5
35	50	44	49.0	39	10	5
38	56	49	53.0	42	13	6
40	58	51	56.0	42	13	6
43	61	54	59.0	47	13	6
45	63	56	61.0	47	13	6
48	66	59	64.0	47	13	6
50	70	62	66.0	46	14	6
53	73	65	69.0	56	14	6
55	75	67	71.0	56	14	6
58	78	70	76.0	56	14	6
60	80	72	78.0	56	14	6
63	83	75	81.0	56	14	6
65	85	77	84.0	66	14	6
68	90	81	88.0	64	16	7
70	92	83	89.6	64	16	7
75	97	88	98.0	64	16	7
80	105	95	100.0	72	18	7
85	110	100	107.5	72	18	7
90	115	105	111.0	72	18	7
95	120	110	119.0	72	18	7
100	125	115	123.8	72	18	7



HQ4B



Type: O-Ring Mechanical Seal
 Temperature: -20°C to +180°C
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q2.U2,B,V1,P,E,V,F,G



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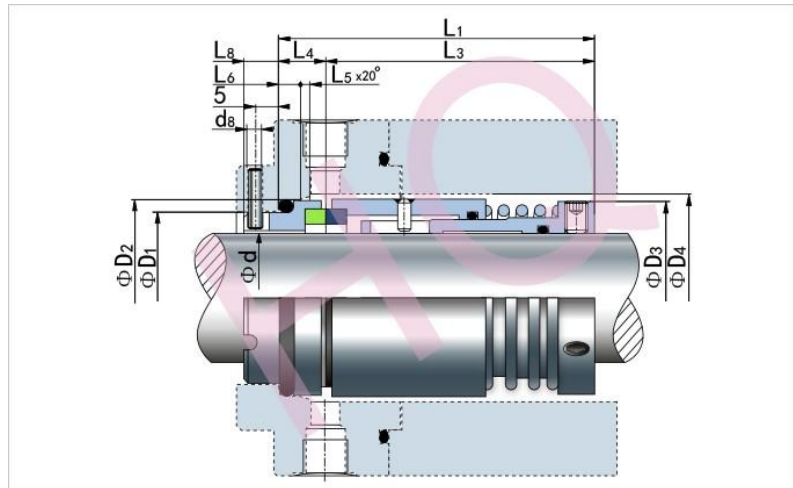


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d (mm)	D1	D3	L1	L2
8	17.1	16.0	15.2	5.5
10	18.1	17.5	15.2	15.0
12	20.6	20.0	18.2	5.5
14	23.1	23.0	22.2	6.0
15	26.9	24.0	22.2	7.0
16	26.9	26.0	23.2	7.0
17	26.9	27.0	23.2	7.0
18	30.9	29.0	24.2	8.0
19	30.9	30.0	25.2	8.0
20	30.9	30.0	25.2	8.0
22	35.4	34.0	25.2	8.0
24	35.4	35.0	27.2	8.0
25	38.2	37.0	27.2	8.5
26	38.2	38.0	27.2	8.5
28	43.3	42.0	29.2	9.0
30	43.3	43.0	30.2	9.0
32	43.3	45.0	30.2	11.5
33	53.5	48.0	39.2	11.5
35	53.5	50.0	39.2	11.5
38	60.5	54.0	39.2	11.5
40	60.5	56.0	39.2	11.5
42	60.5	59.0	39.2	11.5
43	60.5	60.0	39.2	11.5
45	65.5	64.0	41.2	11.5
48	65.5	68.0	41.2	11.5
50	72.5	69.0	45.2	11.5
55	72.5	74.0	47.2	11.5
60	79.3	80.0	49.2	11.5
65	84.5	87.0	51.2	11.5
70	89.5	92.0	51.2	11.5
75	94.5	97.0	57.2	11.5
80	99.5	102.0	59.2	11.5
85	105.5	110.0	59.2	13.5
90	111.5	117.0	62.2	13.5
95	116.5	122.0	62.2	13.5
100	119.5	127.0	75.2	13.5

HQB182(B18212)

Type: O-Ring Seal
 Replacement: Latty B 18212
 Temperature: -20 to +180°C
 Pressure: ≤ 25 Bar
 Speed: ≤ 20 m/s
 Material: B, A1, Q1, Q2, U2, P, E, N, V, F, G, Alfa



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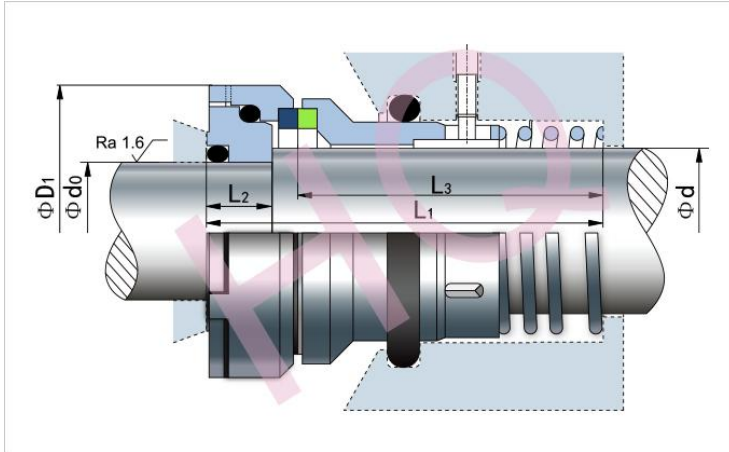
d (mm)	D1	D2	D3	D4 (min)	L1	L3	L4	L5	L6	L8
35	44	50	49	51	73.0	62.5	10.5	2.0	5	7.5
38	49	56	54	58	84.5	73.0	11.5	2.0	6	8.5
40	51	58	56	60	84.5	73.0	11.5	2.0	6	8.5
43	54	61	60	64	86.0	74.5	11.5	2.0	6	8.5
45	56	63	61	65	86.0	74.5	11.5	2.0	6	8.5
48	59	66	65	69	89.5	78.0	11.5	2.0	6	8.0
50	62	70	66	70	89.5	76.5	13.0	2.5	6	8.0
53	65	73	71	75	92.0	79.0	13.0	2.5	6	8.0
55	67	75	71	75	93.0	80.0	13.0	2.5	6	8.0
58	70	78	78	83	99.0	85.5	13.5	2.5	6	8.0
60	72	80	81	86	96.0	82.5	13.5	2.5	6	8.0
63	75	83	87	92	106.5	93.0	13.5	2.5	6	8.0
65	77	85	87	92	106.5	93.0	13.5	2.5	6	8.0
68	81	90	88	93	103.5	90.0	13.5	2.5	7	8.0
70	83	92	93	98	106.0	91.0	15.0	2.5	7	8.0
75	88	97	99	104	108.0	93.0	15.0	2.5	7	8.0
80	95	105	105	110	109.0	94.0	15.0	3.0	7	8.0
85	100	110	109	114	111.0	95.0	16.0	3.0	7	8.0
90	105	115	114	119	113.0	97.0	16.0	3.0	7	8.0
95	110	120	122	127	119.0	103.0	16.0	3.0	7	8.0
100	115	125	128	133	119.5	103.5	16.0	3.0	7	8.0

HQB107(B10712 REP/REV/RIP/RIV)

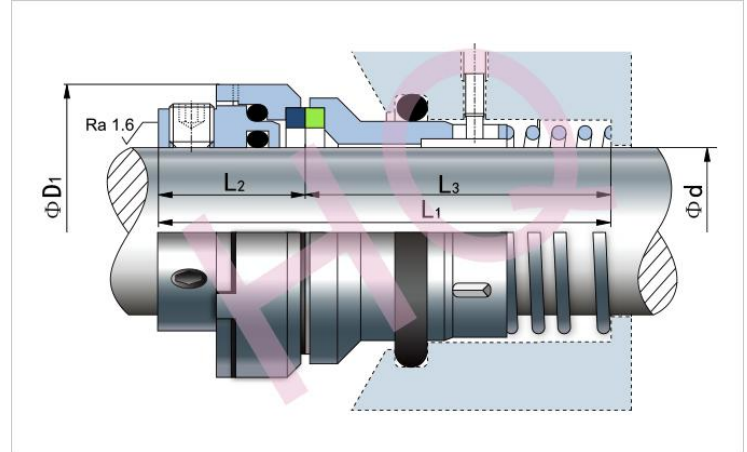


Type: O-Ring Seal
 Replacement: Latty B 10712 REP/REV/RIP/RIV
 Temperature: -20 to +180°C
 Pressure: ≤10 Bar
 Speed: ≤10m/s
 Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa

HQ107(B10712 REP)

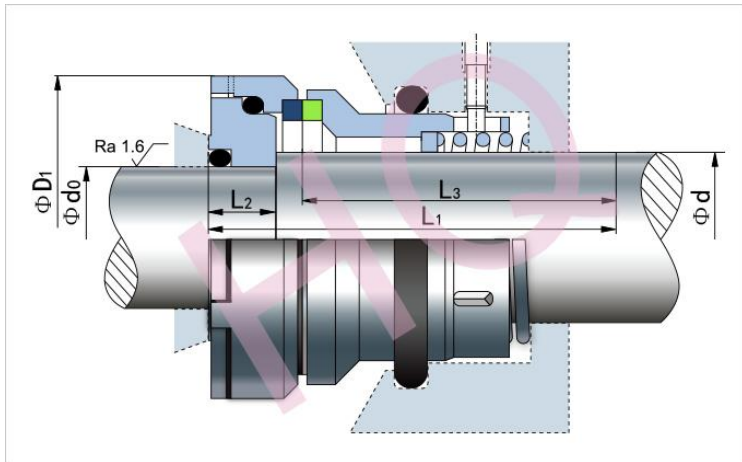


HQ107(B10712 REV)

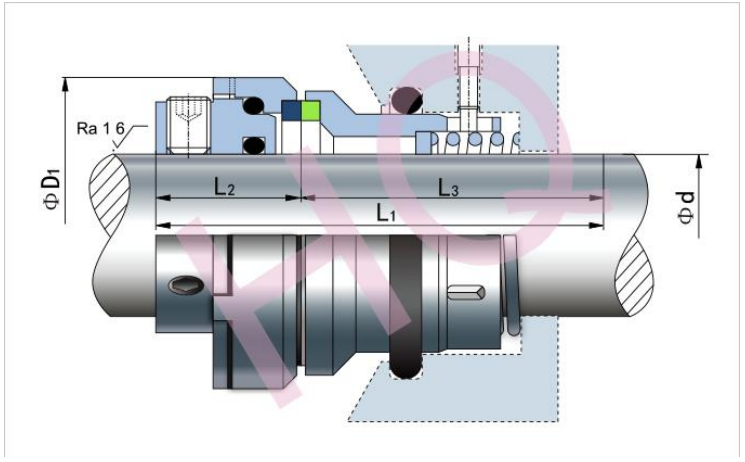


d (mm)	d0	D1	REP		REV		L3
			L1	L2	L1	L2	
20	15	42	66.0	10	76.0	24.5	51.5
25	20	48	68.5	10	78.5	24.5	54.0
30	25	53	72.0	12	82.0	26.5	55.5
35	30	58	76.0	12	86.0	28.0	58.0
40	35	68	89.0	15	99.0	31.0	68.0
45	40	73	90.0	15	100.0	31.0	69.0
50	45	78	96.0	15	106.0	31.0	74.5
55	50	83	98.0	15	108.0	31.0	76.5
60	55	88	100.0	15	112.0	33.5	78.5
65	57	93	99.5	16	110.5	33.5	77.0
70	62	98	103.5	16	114.5	34.0	80.5
75	67	103	111.5	16	122.5	34.0	88.5
80	72	108	115.5	18	124.5	34.0	90.5
85	75	118	118	20	128.0	37.0	91.0
90	80	127	136.5	23	146.5	44.0	102.5
95	85	132	142.0	26	153.0	48.0	105.0
100	90	138	153.0	27	163.0	48.0	115.0
105	95	144	159.0	32	164.0	48.0	116.0
110	100	154	158.0	32	163.0	48.0	115.0
115	105	159	172.0	35	177.5	53.5	124.0
120	110	164	165.0	35	170.5	53.5	117.0
125	115	139	166.0	35	171.5	53.5	118.0
130	120	174	173.0	35	178.0	53.5	125.0

HQ107(B10712 RIP)



HQ107(B10712 RIV)



d (mm)	d0	D1	RIP		RIV		L3
			L1	L2	L1	L2	
15	10	42	52.5	10	62.5	24.5	38.0
20	15	48	54.0	10	64.0	24.5	39.5
25	20	53	58.0	12	68.0	26.5	41.5
30	25	58	61.0	12	71.0	28.0	43.0
35	30	68	66.5	15	76.5	31.0	45.5
40	35	73	66.5	15	76.5	31.0	45.5
45	40	78	68.5	15	78.5	31.5	47.0
50	45	83	68.5	15	78.5	31.5	47.0
55	50	88	70.5	15	82.5	33.5	49.0
58	52	93	73.5	16	84.5	33.5	51.0
60	52	98	77.0	16	88.0	34.0	54.0
65	57	103	76.5	18	85.5	34.0	51.5
70	62	108	81.5	20	88.5	34.0	54.5
75	65	118	88.0	22	96.0	37.0	59.0
80	70	127	101.5	25	109.5	44.0	65.5
85	75	132	110.0	26	121.0	48.0	73.0
90	80	138	108.0	27	118.0	48.0	70.0
95	85	144	123.0	32	128.0	48.0	80.0
100	90	154	128.0	32	133.0	48.0	85.0
105	95	159	131.0	35	136.5	53.5	83.0
110	100	164	138.0	35	143.5	53.5	90.0
115	105	169	138.0	35	143.5	53.5	90.0
120	110	174	140.0	35	145.5	53.5	92.0



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AX30K

d (mm)	D1	D2	D3	D6	D7	L1S	L3	L4	L5	L6	T
10	13	22	24	15.5	19.2	22.5	15.0	7.5	1.2	3.8	0.5
12	15	24	26	17.5	21.6	23.0	15.0	8.0	1.2	3.8	0.5
14	17	26	28	20.5	24.6	23.0	15.0	8.0	1.2	3.8	0.5
15	18	27	29	20.5	24.6	24.0	16.0	8.0	1.2	3.8	0.5
16	19	28	30	22.0	28.0	26.5	17.0	9.5	1.5	5.0	0.5
18	22	33	35	24.0	30.0	28.5	19.0	9.5	1.5	5.0	0.5
20	24	35	37	29.5	35.0	29.5	18.5	11.0	1.5	5.0	0.5
22	26	37	39	29.5	35.0	31.0	21.5	9.5	1.5	5.0	2.0
24	28	39	41	32.0	38.0	32.5	23.0	9.5	1.5	5.0	2.0
25	29	41	43	32.0	38.0	34.0	24.5	9.5	1.5	5.0	2.0
26	30	42	44	34.0	40.0	34.5	24.0	10.5	1.5	5.0	2.0
28	32	44	46	36.0	42.0	35.5	26.0	9.5	1.5	5.0	2.0
30	34	46	48	39.2	45.0	35.5	24.5	11.0	1.5	5.0	2.0
32	36	48	50	42.2	48.0	39.0	28.0	11.0	1.5	5.0	2.0
35	39	52	54	46.2	52.0	39.5	28.5	11.0	1.5	5.0	2.0
38	44	56	60	49.2	55.0	42.5	31.5	11.0	1.5	5.0	2.0
40	46	58	62	52.2	58.0	45.5	24.5	11.0	1.5	5.0	2.0
42	48	60	64	53.3	62.0	49.0	35.0	14.0	2.0	6.0	2.0
45	51	64	68	55.3	64.0	50.5	36.5	14.0	2.0	6.0	2.0
48	54	67	71	59.7	68.4	56.0	42.0	14.0	2.0	6.0	2.0
50	56	69	73	60.8	69.3	57.0	43.0	14.0	2.0	6.0	2.0
55	61	75	79	66.5	75.4	62.0	47.0	15.0	2.0	6.0	2.0
58	66	80	85	69.5	78.4	65.0	50.0	15.0	2.0	6.0	2.0
60	68	82	87	71.5	80.4	66.0	51.0	15.0	2.0	6.0	2.0
65	73	87	92	76.5	85.4	67.0	52.0	15.0	2.0	6.0	2.0
68	76	91	95	82.7	91.5	69.0	54.0	15.0	2.0	6.0	2.0
70	78	93	97	83.0	92.0	69.0	52.0	17.0	2.0	6.0	2.0
75	83	101	106	90.2	99.0	70.0	53.0	17.0	2.0	6.0	2.0
80	88	106	111	95.2	104.0	74.0	57.0	17.0	2.0	6.0	2.0



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Type: O-ring Mechanical Seals

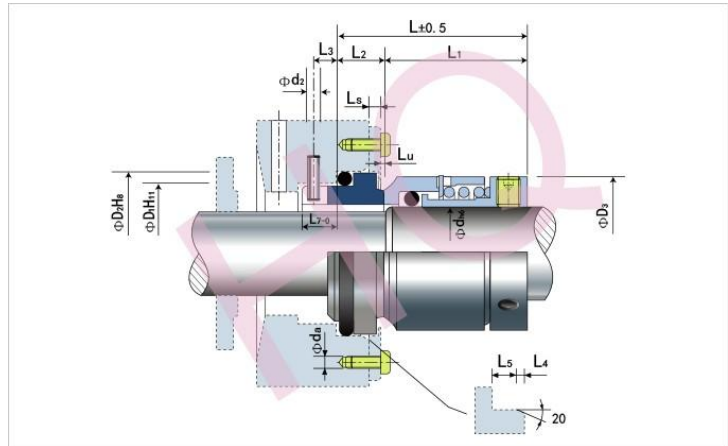
Replacement: Roten 7

Temperature: -40°C to $+200^{\circ}\text{C}$

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

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

Material: Q2,U2,B,V,P,E,V,F,G



d (mm)	d2	D1	D2	D3	da	L	L1	L2	L3	L4	L5	L7	Ls	Lu
10	2.0	14.0	18.1	22	3	27.5	22	5.5	3.5	1.2	2.8	6.2	1.5	0.5
11/12	2.0	16.5	20.6	24	3	29.5	24	5.5	3.5	1.2	2.8	6.2	1.5	0.5
13	2.0	19.0	23.1	26	3	30.0	24	6.0	4.0	1.2	2.8	6.7	1.5	0.5
14	2.0	19.0	23.1	27	3	32.0	26	6.0	4.0	1.2	2.8	6.7	1.5	0.5
15	2.5	21.0	26.9	28	3	33.0	26	7.0	4.0	1.3	3.7	7.6	1.5	0.5
16/17	2.5	21.0	26.9	31	3	34.0	27	7.0	4.0	1.3	3.7	7.6	1.5	0.5
18	3.0	25.0	30.9	33	4	36.0	28	8.0	4.5	1.3	3.7	8.5	2.0	0.5
19	3.0	25.0	30.9	36	4	38.0	30	8.0	4.5	1.3	3.7	8.5	2.0	0.5
20	3.0	25.0	30.9	37	4	39.0	31	8.0	4.5	1.3	3.7	8.5	2.0	0.5
21/22	3.5	30.0	35.4	39	4	39.0	31	8.0	5.0	1.8	3.7	8.5	2.0	0.5
23	3.5	30.0	35.4	42	4	40.0	32	8.0	5.0	1.8	3.7	8.5	2.0	0.5
24	3.5	30.0	35.4	42	4	42.0	34	8.0	5.0	1.8	3.7	8.5	2.0	0.5
25/27	4.0	33.0	38.2	43	4	43.5	35	8.5	5.0	1.8	3.7	9.1	2.5	0.5
28	4.0	38.0	43.3	47	4	46.0	37	9.0	6.0	1.8	3.7	9.6	3.0	0.5
23/32	4.0	38.0	43.3	52	4	48.0	39	9.0	6.0	1.8	3.7	9.6	3.0	0.5
33/37	5.0	45.0	53.5	56	4	55.5	44	11.5	7.5	2.1	5.4	12.0	3.0	0.5
38/43	5.0	52.0	60.5	69	4	58.5	47	11.5	7.5	2.1	5.4	12.0	3.0	0.5
44/48	5.0	57.0	65.5	74	4	62.5	51	11.5	8.5	2.1	5.4	13.0	3.0	0.5
50	5.0	64.0	72.5	77	4	65.5	54	11.5	8.5	2.1	5.4	13.0	3.5	1.0
55	5.0	64.0	72.5	83	5	68.5	57	11.5	8.5	2.1	5.4	13.0	3.5	1.0
60	5.0	72.0	79.3	89	5	68.5	57	11.5	8.5	2.1	5.4	13.5	3.5	1.0
65	5.0	77.0	84.5	97	5	71.5	60	11.5	8.5	2.1	5.4	13.5	3.5	1.0
70	5.0	82.0	89.5	104	5	71.5	60	11.5	8.5	2.1	5.4	13.5	4.0	1.5
75	5.0	87.0	94.5	100	5	91.5	80	11.5	8.5	2.1	5.4	13.5	4.0	1.5
80	5.0	92.0	99.5	106	5	96.5	85	11.5	8.5	2.1	5.4	13.5	4.0	1.5
85	5.0	98.0	105.5	115	6	101.5	88	13.5	8.5	2.6	5.4	13.5	5.0	1.5
90	5.0	105.0	111.5	118	6	106.5	93	13.5	8.5	2.6	5.4	13.5	5.0	1.5
95	5.0	110.0	116.5	128	6	110.5	97	13.5	8.5	2.6	5.4	13.5	5.0	1.5
100	5.0	114.0	119.5	137	6	121.5	108	13.5	8.5	2.6	5.4	13.5	5.0	1.5
110	5.0	124.0	132.2	152	6	130.5	113	17.5	8.5	3.9	7.1	13.5	6.0	1.5
120	5.0	134.0	142.2	165	6	137.5	120	17.5	8.5	3.9	7.1	13.5	6.0	1.5
130	5.0	145.0	153.2	176	6	142.5	125	17.5	8.5	3.9	7.1	13.5	6.0	1.5
135	5.0	152.0	161.2	183	6	155.5	137	18.5	8.5	3.9	7.1	13.5	7.0	2.0
140	5.0	157.0	164.3	188	6	165.5	147	18.5	8.5	3.9	7.1	13.5	7.0	2.0
150	5.0	167.0	174.2	200	6	165.5	147	18.5	8.5	3.9	7.1	13.5	7.0	2.0



HQ95



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Type: O-Ring Mechanical Seal,Suit
Hamworthy Pumps

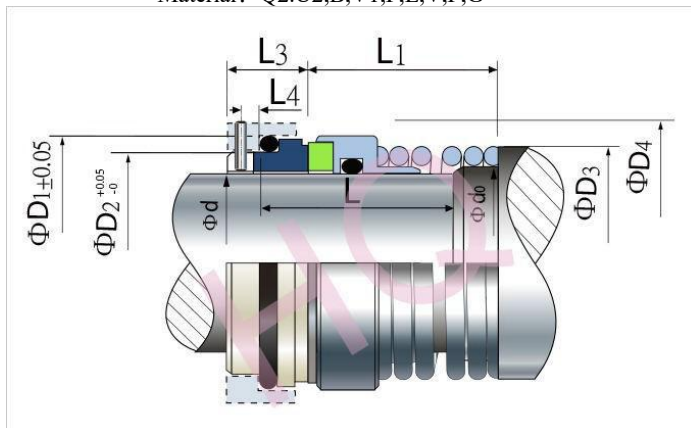
Replacement: AES P08,Vulcan95,Crane ROO.

Temperature: 50°C to +200°C

Pressure: ≤1Mpa

Speed: ≤20m/s

Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	d0	D1	D2	D3	D4	L	L1	L3	L4
20	24.00	33.32	29.06	34.5	37.0	36.5	27.5	15	4
25	28.57	39.85	33.84	41.0	43.0	40.0	30.0	16	4
28	31.75	43.05	37.01	42.0	46.0	41.5	31.5	16	4
30	33.32	44.63	38.61	45.5	47.5	41.5	31.5	16	4
32	34.92	46.32	40.28	47.0	49.0	44.5	34.5	16	4
35	38.10	49.48	43.46	50.0	52.5	47.5	37.5	16	4
38	42.88	52.56	46.63	53.0	55.5	47.5	37.5	16	4
40	44.45	54.25	48.13	55.0	57.0	47.5	37.5	16	4
42	46.02	55.83	49.81	55.5	58.5	47.5	37.5	16	4
45	49.20	59.02	52.98	60.0	62.0	47.5	37.5	16	4
50	53.97	65.37	59.33	66.0	68.5	55.5	45.5	18	5
55	58.72	70.03	64.01	71.0	73.0	57.0	47.0	18	5
60	65.07	76.38	70.36	77.0	81.0	60.5	50.5	18	5
65	69.85	81.23	75.21	82.0	85.5	63.5	53.5	18	5
70	74.60	85.90	79.88	87.0	90.5	63.5	53.5	18	5
75	79.37	90.77	84.73	91.5	97.0	66.6	56.6	18	5
80	85.73	100.29	94.26	99.5	103.0	73.0	63.0	18	5
85	90.00	104.77	98.93	105.5	108.0	73.0	63.0	18	5
90	95.25	109.82	103.78	110.5	114.5	78.0	68.0	18	5
95	100.00	114.30	108.46	115.5	119.0	78.0	68.0	18	5
100	104.77	119.33	113.31	120.0	124.0	78.0	68.0	18	5
105	111.00	127.00	121.16	128.0	132.0	82.5	72.5	18	5
110	116.00	131.77	126.01	133.0	137.0	82.5	72.5	18	5
115	121.00	136.52	130.68	137.5	142.0	82.5	72.5	18	5
120	126.00	142.87	137.03	144.0	147.0	89.0	79.0	18	5

d (inch)	d0	D1	D2	D3	D4	L	L1	L3	L4
0.625	19.05	28.57	24.31	29.00	31.5	33.5	24.5	15	4
0.750	22.22	31.75	27.48	32.50	35.0	33.5	24.5	15	4
0.875	25.40	34.93	30.66	34.93	38.0	35.0	26.0	15	4
1.000	28.57	39.85	33.84	38.1	43.0	40.0	30.0	16	4
1.125	31.75	43.05	37.01	42.86	46.0	41.5	31.5	16	4
1.250	34.92	46.32	40.28	46.00	49.0	44.5	34.5	16	4
1.375	38.10	49.48	43.46	49.21	52.5	47.5	37.5	16	4
1.500	42.88	52.56	46.63	52.39	55.5	47.5	37.5	16	4
1.625	46.02	55.83	49.81	55.50	58.5	47.5	37.5	16	4
1.750	49.20	59.02	52.98	58.74	62.0	47.5	37.5	16	4
1.875	52.37	63.68	57.66	61.91	66.5	52.5	42.5	18	5
2.000	55.57	66.85	60.83	66.68	70.0	55.5	45.5	18	5
2.125	58.72	70.03	64.01	69.85	73.0	57.0	47.0	18	5
2.250	61.90	73.20	67.18	73.02	76.0	57.0	47.0	18	5
2.375	65.07	76.38	70.36	76.20	81.0	60.5	50.58	18	5
2.500	68.23	79.56	73.53	79.38	84.0	60.5	50.58	18	5
2.625	71.42	82.73	76.71	82.55	87.5	63.5	53.5	18	5
2.750	74.60	85.90	79.88	85.72	90.5	63.5	53.5	18	5
2.875	77.77	89.06	83.06	90.00	95.5	66.5	56.5	18	5
3.000	80.97	95.43	89.41	95.25	98.5	73.0	63.0	18	5
2.250	87.30	101.78	95.76	101.60	105.0	73.0	63.0	18	5
3.500	93.67	108.13	102.11	107.95	111.0	73.0	63.0	18	5
4.000	107.95	124.00	117.98	124.50	128.5	82.5	72.5	18	5



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HQ96

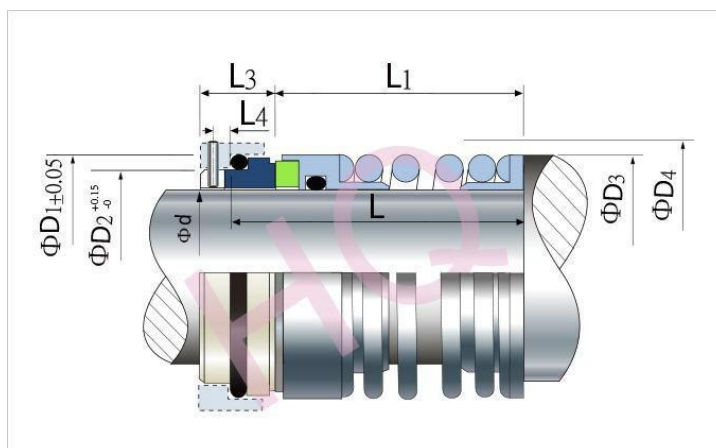


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Type: O-Ring Mechanical Seal
 Replacement: Vulcan96, John Crane
 (Flexibox) type R10
 Temperature: 50°C to +200°C
 Pressure: ≤1Mpa
 Speed: ≤20m/s
 Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	D1	D2	D3	D4	L	L1	L3	L4
20	33.32	29.06	34.5	37.0	38.0	29.9	15	4
25	39.85	33.84	41.0	43.0	41.5	31.5	16	4
28	43.05	37.01	42.0	46.0	43.0	33.0	16	4
30	44.63	38.61	45.5	47.5	43.0	33.0	16	4
32	46.32	40.28	47.0	49.0	46.0	36.0	16	4
35	49.48	43.46	50.0	52.5	49.0	39.0	16	4
38	52.56	46.63	53.0	55.5	49.0	39.0	16	4
40	54.25	48.13	55.0	57.0	49.0	39.0	16	4
42	55.83	49.81	55.5	58.5	49.0	39.0	16	4
45	59.02	52.98	60.0	62.0	49.0	39.0	16	4
50	65.37	59.33	66.0	68.5	57.0	47.0	18	5
55	70.03	64.01	71.0	73.0	58.5	48.5	18	5
60	76.38	70.36	77.0	81.0	62.0	52.0	18	5
65	81.23	75.21	82.0	85.5	65.0	55.0	18	5
70	85.90	79.88	87.0	90.5	65.0	55.0	18	5
75	90.77	84.73	91.5	97.0	70.0	60.0	18	5
80	100.29	94.26	99.5	103.0	76.0	66.0	18	5
85	104.77	98.93	105.5	108.0	76.0	66.0	18	5
90	109.82	103.78	110.5	114.5	81.0	71.0	18	5
95	114.30	108.46	115.5	119.0	81.0	71.0	18	5
100	119.33	113.31	120.0	124.0	81.0	71.0	18	5
105	127.00	121.16	128.0	132.0	85.5	75.5	18	5
110	131.77	126.01	133.0	137.0	85.5	75.5	18	5
115	136.52	130.68	137.5	142.0	85.5	75.5	18	5
120	142.87	137.03	144.0	147.0	92.0	82.0	18	5

d (inch)	D1	D2	D3	D4	L	L1	L3	L4
0.625	28.57	24.31	29.00	31.5	35.0	26.0	15	4
0.750	31.75	27.48	32.50	35.0	35.0	26.0	15	4
0.875	34.93	30.66	34.93	38.0	36.5	27.5	15	4
1.000	39.85	33.84	38.1	43.0	41.5	31.5	16	4
1.125	43.05	37.01	42.86	46.0	43.0	33.0	16	4
1.250	46.32	40.28	46.00	49.0	46.0	36.0	16	4
1.375	49.48	43.46	49.21	52.5	49.0	39.0	16	4
1.500	52.56	46.63	52.39	55.5	49.0	39.0	16	4
1.625	55.83	49.81	55.50	58.5	49.0	39.0	16	4
1.750	59.02	52.98	58.74	62.0	49.0	39.0	16	4
1.875	63.68	57.66	61.91	66.5	54.0	44.0	18	5
2.000	66.85	60.83	66.68	70.0	57.0	47.0	18	5
2.125	70.03	64.01	69.85	73.0	58.5	48.5	18	5
2.250	73.20	67.18	73.02	76.0	58.5	48.5	18	5
2.375	76.38	70.36	76.20	81.0	62.0	52.0	18	5
2.500	79.56	73.53	79.38	84.0	62.0	52.0	18	5
2.625	82.73	76.71	82.55	87.5	65.0	55.0	18	5
2.750	85.90	79.88	85.72	90.5	65.0	55.0	18	5
2.875	89.06	83.06	90.00	95.5	70.0	60.0	18	5
3.000	95.43	89.41	95.25	98.5	76.0	66.0	18	5
2.250	101.78	95.76	101.60	105.0	76.0	66.0	18	5
3.500	108.13	102.11	107.95	111.0	76.0	66.0	18	5
4.000	124.00	117.98	124.50	128.5	85.5	75.5	18	5



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HQ97



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Type: O-Ring Mechanical

Seal,Suit Hamworthy Pumps

Replacement: Vulcan97, John Crane

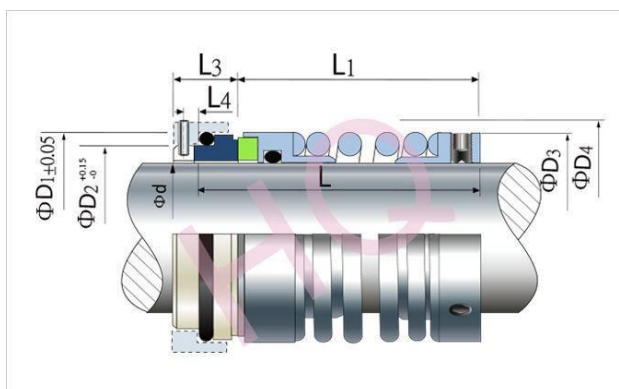
(Flexibox) R20 ,Billi BB27

Temperature: 50°C to +200°C

Pressure: ≤1Mpa

Speed: ≤20m/s

Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	D1	D2	D3	D4	L	L1	L3	L4
20	33.32	29.06	34.5	37.0	44.5	35.5	15	4
25	39.85	33.84	41.0	43.0	49.0	39.0	16	4
28	43.05	37.01	42.0	46.0	51.0	41.0	16	4
30	44.63	38.61	45.5	47.5	51.0	41.0	16	4
32	46.32	40.28	47.0	49.0	54.0	44.0	16	4
35	49.48	43.46	50.0	52.5	57.0	47.0	16	4
38	52.56	46.63	53.0	55.5	57.0	47.0	16	4
40	54.25	48.13	55.0	57.0	57.0	47.0	16	4
42	55.83	49.81	55.5	58.5	57.0	47.0	16	4
45	59.02	52.98	60.0	62.0	57.0	47.0	16	4
50	65.37	59.33	66.0	68.5	68.5	58.5	18	5
55	70.03	64.01	71.0	73.0	70.0	60.0	18	5
60	76.38	70.36	77.0	81.0	73.0	63.0	18	5
65	81.23	75.21	82.0	85.5	76.0	66.0	18	5
70	85.90	79.88	87.0	90.5	76.0	66.0	18	5
75	90.77	84.73	91.5	97.0	81.0	71.0	18	5
80	100.29	94.26	99.5	103.0	87.5	77.5	18	5
85	104.77	98.93	105.5	108.0	87.5	77.5	18	5
90	109.82	103.78	110.5	114.5	92.0	82.0	18	5
95	114.3	108.46	115.5	119.0	92.0	82.0	18	5
100	119.33	113.31	120.0	124.0	92.0	82.0	18	5
105	127.00	121.16	128.0	132.0	98.5	88.5	18	5
110	131.77	126.01	133.0	137.0	85.5	88.5	18	5
115	136.52	130.68	137.5	142.0	85.5	88.5	18	5
120	142.87	137.03	144.0	147.0	105.0	95.0	18	5

d (inch)	D1	D2	D3	D4	L	L1	L3	L4
0.625	28.57	24.31	29.00	31.5	41.5	32.5	15	4
0.750	31.75	27.48	32.50	35.0	41.5	32.5	15	4
0.875	34.93	30.66	34.93	38.0	44.5	35.5	15	4
1.000	39.85	33.84	38.10	43.0	49.0	39.0	16	4
1.125	43.05	37.01	42.86	46.0	51.0	41.0	16	4
1.250	46.32	40.28	46.00	49.0	54.0	44.0	16	4
1.375	49.48	43.46	49.21	52.5	57.0	47.0	16	4
1.500	52.56	46.63	52.39	55.5	57.0	47.0	16	4
1.625	55.83	49.81	55.50	58.5	57.0	47.0	16	4
1.750	59.02	52.98	58.74	62.0	57.0	47.0	16	4
1.875	63.68	57.66	61.91	66.5	65.0	55.0	18	5
2.000	66.85	60.83	66.68	70.0	68.5	58.5	18	5
2.125	70.03	64.01	69.85	73.0	70.0	60.0	18	5
2.250	73.20	67.18	73.02	76.0	70.0	60.0	18	5
2.375	76.38	70.36	76.20	81.0	73.0	63.0	18	5
2.500	79.56	73.53	79.38	84.0	73.0	63.0	18	5
2.625	82.73	76.71	82.55	87.5	76.0	66.0	18	5
2.750	85.90	79.88	85.72	90.5	76.0	66.0	18	5
2.875	89.06	83.06	90.00	95.5	81.0	71.0	18	5
3.000	95.43	89.41	95.25	98.5	87.5	77.5	18	5
3.250	101.78	95.76	101.60	105.0	87.5	77.5	18	5
3.500	108.13	102.11	107.95	111.0	87.5	77.5	18	5
4.000	124.00	117.98	124.50	128.5	98.5	88.5	18	5



HQ98



Type: O-Ring Mechanical Seal
 Replacement: Vulcan 98, AESP080
 Temperature: 50°C to +200°C

Pressure: ≤1Mpa

Speed: ≤20m/s

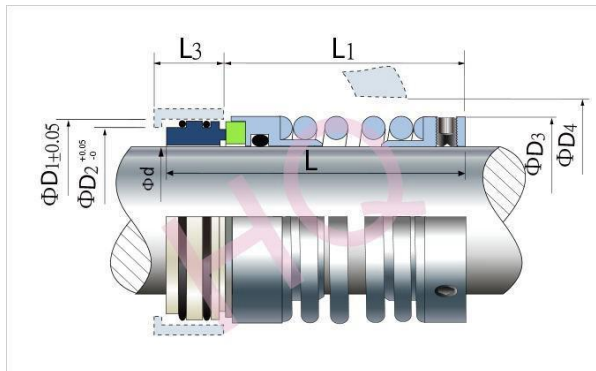
Material: Q2.U2,B,V1,P,E,V,F,G



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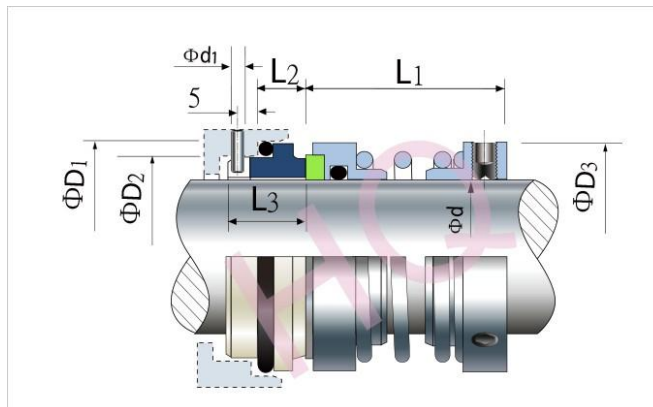
d (mm)	D1	D2	D3	D4	L	L1	L3
20	37.0	31.0	34.50	40	61	38	24
22	39.0	33.0	34.93	42	61	38	24
25	40.0	34.0	41.00	45	38	24	24
28	44.0	38.0	42.00	48	63	40	24
30	47.0	41.0	45.50	53	64	40	26
32	48.0	42.0	47.00	55	64	40	26
35	51.0	45.0	50.00	58	64	40	26
38	54.0	48.0	53.00	62	69	45	26
40	57.0	51.0	55.00	64	69	45	26
42	60.5	54.5	55.50	66	74	50	26
45	61.0	55.0	60.00	69	74	50	26
48	64.0	58.0	61.91	72	79	55	26
50	67.0	61.0	66.00	75	79	55	26
52	70.0	64.0	68.00	77	82	58	26
55	73.0	67.0	71.00	80	82	58	26
58	76.0	70.0	74.00	83	82	58	26
60	80.0	74.0	77.00	85	86	60	28
62	83.0	77.0	78.00	87	86	60	28
65	86.0	80.0	82.00	90	88	62	28
68	89.0	83.0	84.00	93	88	62	28
70	89.0	83.0	87.00	95	91	65	28
75	95.0	89.0	91.50	100	91	65	28
80	99.0	93.0	99.50	110	96	70	28
85	105.0	99.0	105.50	115	96	70	28
90	111.0	105.0	110.50	120	96	70	28
95	114.0	108.0	115.50	130	101	75	28
100	118.0	112.0	120.00	135	101	75	28
105	132.0	126.0	128.00	140	103	75	30
110	137.0	131.0	133.00	145	108	80	30
115	140.0	134.0	137.50	150	108	80	30
120	147.0	141.0	144.00	160	113	85	30
125	150.0	144.0	149.00	165	113	85	30
130	156.0	150.0	154.00	170	113	85	30



HQUS2



Type: O-Ring Mechanical Seal
 Replacement: Pillar US2
 Temperature: -20°C to +180°C
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q2.U2,B,V1,P,E,V,F,G



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d (mm)	D3	D2	D1	d1	L1	L2	L3
20	34.5	29.06	33.32	-	37.3	7.2	9.4
25	41.0	33.83	39.67	-	40.0	9.2	11.4
30	45.5	38.61	44.45	-	41.6	9.2	11.4
35	50.0	43.46	49.20	-	48.0	9.2	11.4
38	53.0	46.3	52.00	-	62.3	9.2	11.4
40	55.0	48.13	53.97	-	48.0	9.2	11.4
45	60.0	52.98	58.72	-	48.0	9.2	11.4
50	66.0	59.33	65.07	3	59.1	9.2	17.7
55	71.0	64.01	69.85	3	60.7	9.2	17.7
60	77.0	70.36	76.20	3	63.8	9.2	17.7
65	82.0	75.21	80.97	3	67.0	9.2	17.7
70	88.0	79.88	85.72	3	67.0	9.2	17.7
75	92.0	84.73	90.47	3	71.8	9.2	20.9
80	99.5	92.58	98.42	3	78.1	9.2	20.9
85	105.5	98.93	104.77	4	78.1	9.2	20.9
90	110.5	103.78	109.52	4	82.9	9.2	20.9
95	115.5	108.46	114.30	4	82.9	9.2	20.9
100	121.0	113.31	119.07	4	82.9	9.2	20.9
105	129.0	121.16	127.00	4	89.2	9.2	20.9
1120	134.0	126.01	131.77	4	89.2	9.2	20.9
115	139.0	130.68	136.52	4	89.2	9.2	20.9
120	144.0	137.03	142.87	4	95.5	9.2	20.9
125	149.0	141.80	147.60	4	98.0	9.8	21.5
130	156.5	146.50	152.16	4	100.0	9.8	21.5
135	162.0	151.60	157.20	4	102.0	9.8	21.5
140	169.0	156.18	161.93	4	105.0	9.8	21.5
145	178.0	167.50	177.00	4	113.3	18.7	47.7
150	184.0	172.50	182.00	4	117.3	18.7	47.7



HQ250

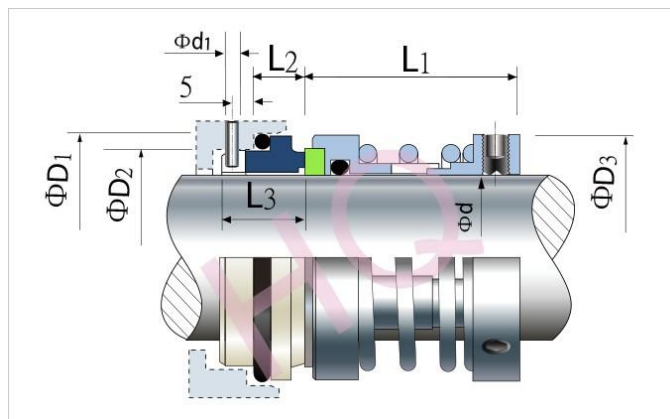


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Type: O-Ring Mechanical Seal
 Temperature: -20°C to $+180^{\circ}\text{C}$
 Pressure: $\leq 1\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: Q2.U2,B,V1,P,E,V,F,G



d (mm)	D3	D2	D1	d1	L1	L2	L3
20	34	29	35	3	41	13	21
22	36	31	37	3	41	13	21
24	38	33	39	3	43	13	21
25	39	34	40	3	43	13	21
28	42	37	43	3	45	13	21
30	44	39	45	3	45	13	21
32	46	42	48	3	45	13	21
33	47	42	48	3	45	13	21
35	49	44	50	3	49	13	21
38	54	50	56	4	53	13	21
40	56	52	58	4	55	13	21
43	59	55	61	4	55	13	21
45	61	57	63	4	55	13	21
48	64	60	66	4	55	13	21
50	66	62	68	4	60	13	21
53	69	65	71	4	61	13	21
55	71	67	73	4	61	13	21
58	76	70	79	4	63	16	24
60	78	72	81	4	63	16	24
63	81	75	84	4	63	16	24
65	83	77	86	4	67	16	24
68	87	81	90	4	67	16	24
70	90	83	92	4	68	16	24
75	95	83	97	4	72	16	24
80	100	96	105	4	72	16	24
85	105	101	110	4	77	16	24
90	112	106	115	4	77	16	24
95	119	111	120	4	82	16	24
100	124	116	125	4	82	16	24



HQ1523/ HQ1524



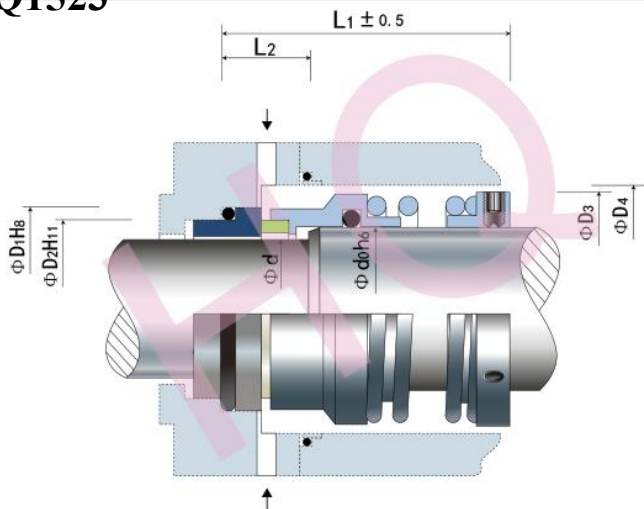
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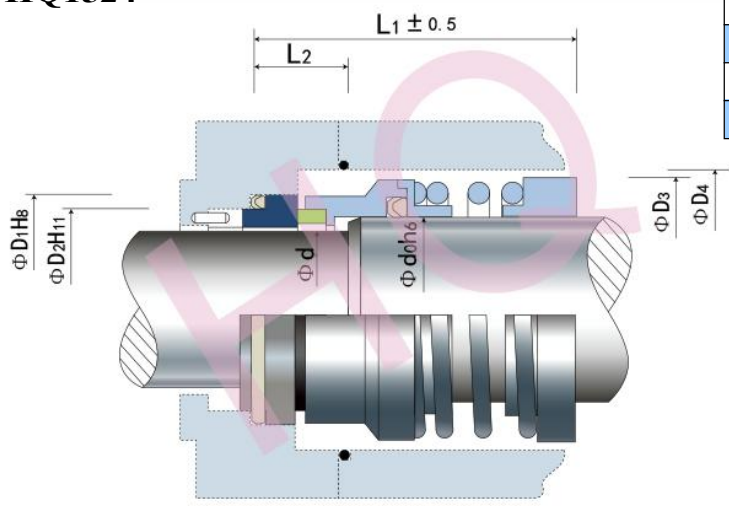
Type: O-Ring Mechanical Seal
 Replacement: Widely used for industrial pumps
 Temperature: -20°C to +180°C
 Pressure: ≤3Mpa
 Speed: ≤15m/s
 Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa

d (mm)	d0	D1	D2	D3	D4 (min)	L1	L2
18	22	33	27	36	38	55	20
20	24	35	29	38	40	60	20
22	26	37	31	40	42	60	20
24	28	39	33	42	44	60	20
25	30	40	34	44	46	60	20
28	33	43	37	47	49	65	20
30	35	45	39	49	51	65	20
32	38	48	42	54	58	65	20
33	38	48	42	54	58	65	20
35	40	50	44	56	60	65	20
38	43	56	49	59	63	75	23
40	45	58	51	61	65	75	23
43	48	61	54	64	68	75	23
45	50	63	56	66	70	75	23
48	53	66	59	69	73	85	23
50	55	70	62	71	75	85	25
53	58	73	65	78	83	85	25
55	60	75	67	80	85	85	25
58	63	78	70	83	88	85	25
60	65	80	72	85	90	95	25
63	68	83	75	88	93	95	25
65	70	85	77	90	95	95	25
68	73	90	81	93	98	95	28
70	75	92	83	99	104	95	28
75	80	97	88	104	109	105	28
80	85	105	95	109	114	105	28
85	90	110	100	114	119	105	28
90	95	115	105	119	124	105	28
95	100	120	110	124	129	105	28
100	105	125	115	129	134	105	28

HQ1523



HQ1524

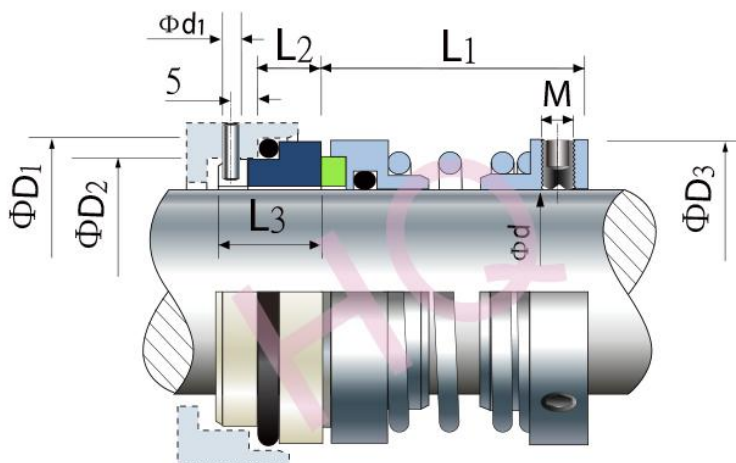




HQ1527/ HQ1528



HQ1527



Type: O-Ring Mechanical Seal
 Replacement: Engle 1527, Suit Southb
 SP,CDM,CDMF Pumps
 Temperature: -20°C to +180°C
 Pressure: ≤1Mpa
 Speed: ≤15m/s
 Material: Q2.U2,B,V1,P,E,V,F,G



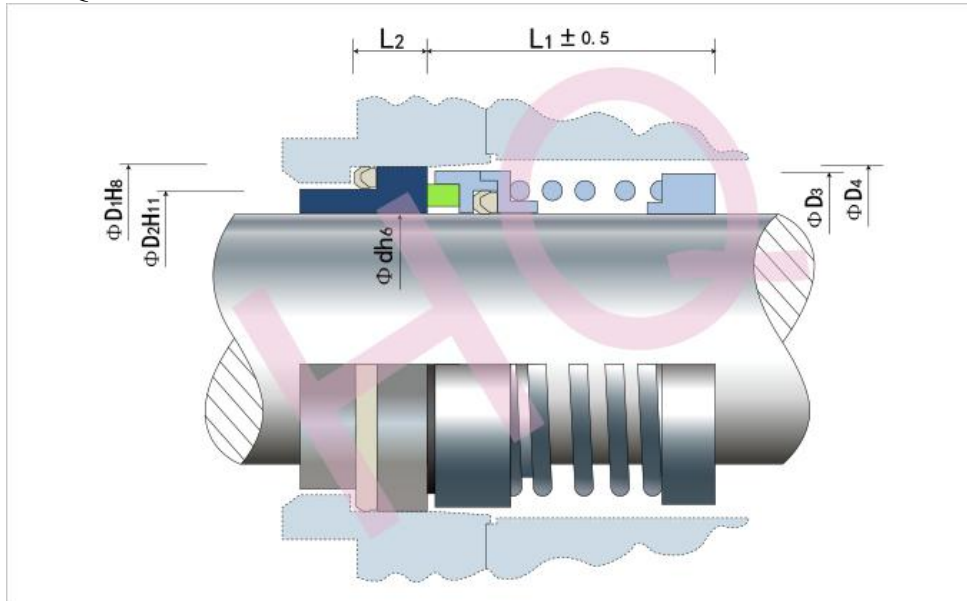
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d (mm)	D1	D2	D3	d1	L1	L2	L3
18	33	27	32	3	35	10.0	17.0
20	35	29	34	3	35	10.0	17.0
22	37	31	36	3	35	10.0	17.0
24	39	33	38	3	40	10.0	17.0
25	40	34	39	3	40	10.0	17.0
28	43	37	42	3	40	10.0	17.0
30	45	39	44	3	40	10.0	17.0
32	48	42	46	3	45	10.0	17.0
33	48	42	47	3	45	10.0	17.0
35	50	44	49	3	45	10.0	17.0
38	56	49	54	4	44	11.0	18.0
40	58	51	56	4	44	11.0	18.0
43	61	54	59	4	49	11.0	18.0
45	63	56	61	4	49	11.0	18.0
48	66	59	64	4	49	11.0	18.0
50	68	62	66	4	47	13.0	20.0
53	70	65	69	4	57	13.0	20.0
55	75	67	71	4	57	13.0	20.0
58	78	70	78	4	57	13.0	20.0
60	80	72	80	4	57	13.0	20.0
63	83	75	83	4	57	13.0	20.0
65	85	77	85	4	67	13.0	20.0
68	90	81	88	4	64.7	15.3	22.0
70	92	83	90	4	64.7	15.3	22.0
75	97	88	99	4	64.7	15.3	22.0
80	105	95	104	4	74.3	15.7	22.5
85	110	100	109	4	74.3	15.7	22.5
90	115	105	114	4	74.3	15.7	22.5
95	120	110	119	4	74.3	15.7	22.5
100	125	115	124	4	74.3	15.7	22.5

HQ1528



d (mm)	D1	D2	D3	D4 (mm)	L1	L2
18	33	27	32	34	35.0	10.0
20	35	29	34	36	35.0	10.0
22	37	31	36	38	35.0	10.0
24	39	33	38	40	40.0	10.0
25	40	34	39	41	40.0	10.0
28	43	37	42	44	40.0	10.0
30	45	39	44	46	40.0	10.0
32	48	42	46	48	45.0	10.0
33	48	42	47	49	45.0	10.0
35	50	44	49	51	45.0	10.0
38	56	49	54	58	44.0	11.0
40	58	51	56	61	44.0	11.0
43	61	54	59	63	49.0	11.0
45	63	56	61	65	49.0	11.0
48	66	59	64	68	49.0	11.0
50	70	62	66	70	47.0	13.0
53	73	65	69	73	57.0	13.0
55	75	67	71	75	57.0	13.0
58	78	70	78	83	57.0	13.0
60	80	72	80	85	57.0	13.0
63	83	75	83	88	57.0	13.0
65	85	77	85	90	67.0	13.0
68	90	81	88	93	64.7	15.3
70	92	83	90	95	64.7	15.3
75	97	88	99	104	64.7	15.3
80	105	95	104	109	74.3	15.7
85	110	100	109	114	74.3	15.7
90	115	105	114	119	74.3	15.7
95	120	110	119	124	74.3	15.7
100	125	115	124	129	74.3	15.7



HQ103A



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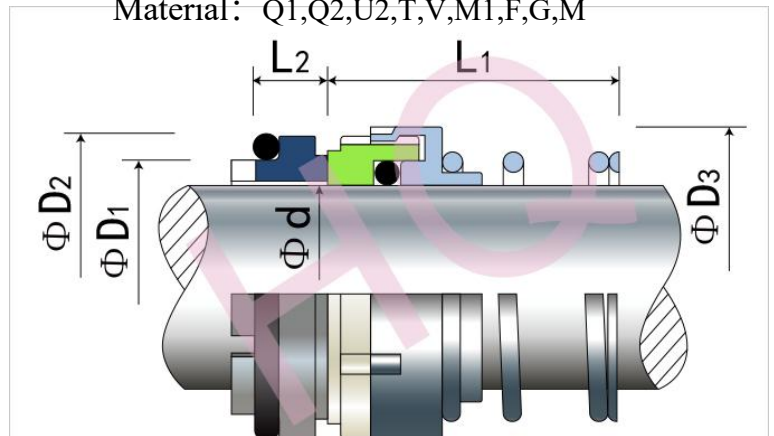
Type: O-Ring Mechanical Seal
Replacement: Suit South CHL, CDL, CDLK,
CDM, CDMF Pumps

Temperature: -20°C to $+140^{\circ}\text{C}$

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

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

Material: Q1,Q2,U2,T,V,M1,F,G,M



Note: Please confirm the spring
is **flat hook** or **vertical hook** when
you order.

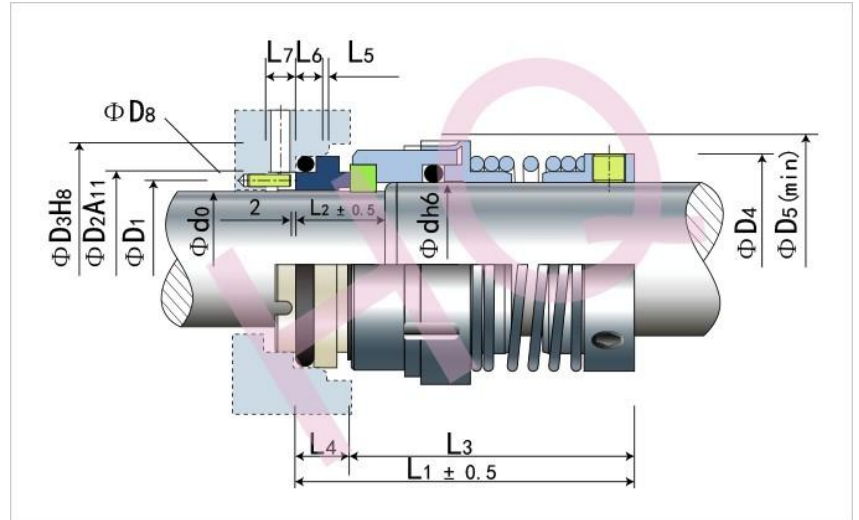
See our photo please.

d (mm)	D1	D2	D3	L1	L2
16	25.5	33	33	40	16
18	28.5	36	35	44	16
20	30.5	40	37	44	19
22	32.5	42	39	48	19
25	35.5	45	42	48	19
28	38.5	48	45	53	19
30	40.5	50	52	56	19
35	45.5	55	57	60	19
40	50.5	60	62	64	19
45	55.5	65	67	71	19
50	60.5	70	72	75	19
55	65.5	75	77	77	19
60	70.5	80	82	77	19
65	80.5	90	92	89	22
70	85.5	97	97	91	25
75	90.5	102	102	91	25
80	95.5	107	107	98	25
85	100.0	112	112	100	25
90	105.0	117	117	101	25
95	110.0	122	122	101	25
100	115.0	127	127	101	25
110	130.0	142	141	126	27
120	140.0	152	151	126	27

HQ103B



Type: O-Ring Mechanical Seal
 Temperature: -20 to +150°C
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	d0	D4	D5	D1	D2	D3	D8	L1	L2	L3	L4	L5	L6	L7
16	11	33	36	19	25	33	2	60	20	48	12	1.5	5.5	7
18	13	35	38	22	28	36	2	64	20	52	12	1.5	5.5	7
20	15	37	40	23	30	40	3	66	22	52	14	2.0	6.5	8
22	17	39	42	26	32	42	3	70	22	56	14	2.0	6.5	8
25	20	42	45	28	35	45	3	70	22	56	14	2.0	6.5	8
28	22	45	48	31	38	48	3	72	22	58	14	2.0	6.5	8
30	25	52	55	33	40	50	3	79	23	65	14	2.0	6.5	8
35	28	57	60	37	45	55	3	84	24	70	14	2.0	6.5	8
40	34	62	65	42	50	60	3	88	24	74	14	2.0	6.5	8
45	38	67	70	47	55	65	3	95	24	81	14	2.0	6.5	8
50	44	72	75	52	60	70	3	99	24	85	14	2.5	6.5	8
55	48	77	80	57	65	75	3	101	24	87	14	2.5	6.5	8
60	52	82	85	62	70	80	3	101	24	87	14	2.5	6.5	8
65	58	92	95	70	80	90	3	113	27	96	17	2.5	6.5	8
70	62	97	100	74	85	97	3	120	32	101	19	2.5	7.5	9
75	66	102	105	79	90	102	3	120	32	101	19	2.5	7.5	9
80	72	107	110	84	95	107	3	127	32	108	19	3.0	7.5	9
85	76	112	115	89	100	112	3	129	32	110	19	3.0	7.5	9
90	82	117	120	94	105	117	3	130	32	111	19	3.0	7.5	9
95	85	122	125	99	110	122	3	130	32	111	19	3.0	7.5	9
100	90	127	130	104	115	127	3	130	32	111	19	3.0	7.5	9
110	100	141	145	116	130	142	3	159	36	138	21	3.0	8.0	9
120	110	151	155	126	140	152	3	159	36	138	21	3.0	8.0	9

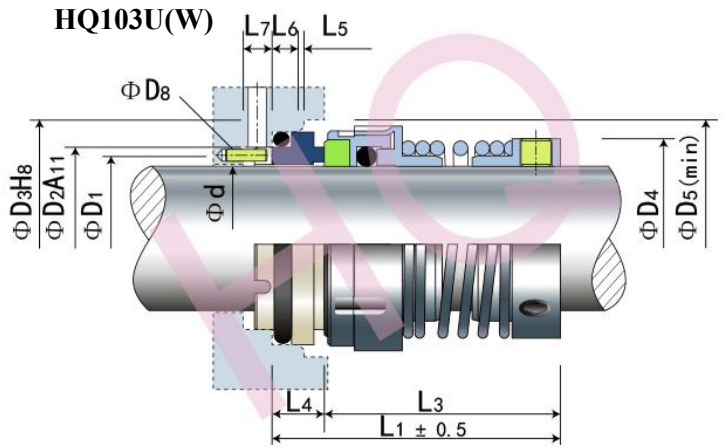


HQ103U

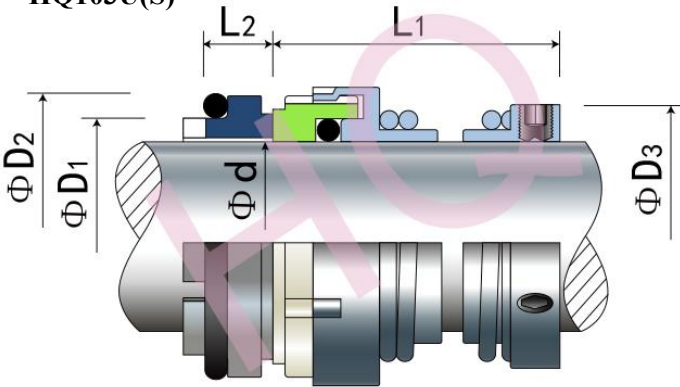
Type: O-Ring Mechanical Seal
 Replacement: Suit South CHL, CDMF Pumps
 Temperature: -20 to +150°C
 Pressure: ≤0.8Mpa
 Speed: ≤10m/s
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



HQ103U(W)



HQ103U(S)



d (mm)	D1	D2	D3	L1	L2
20	30	40	37	44	19
22	32	42	39	48	19
25	35	45	42	48	19
28	38	48	45	50	19
30	40	50	52	56	19
35	45	55	57	60	19
40	50	60	62	64	19
45	55	65	67	71	19
50	60	70	72	75	19
55	65	75	77	77	19
60	70	80	82	77	19
65	80	90	92	89	22
70	85	97	97	91	22
75	90	102	102	91	22
80	95	107	107	98	22
85	100	112	112	100	22
90	105	117	117	101	22
95	110	122	122	101	22
100	115	127	127	101	22
110	130	142	141	126	27
120	140	152	151	126	27

d (m m)	D4	D5	D1	D2	D3	D8	L1	L3	L4	L5	L6	L7
16	33	36	21	25	33	2	52	40	12	1.5	5.5	7
18	35	38	23	28	36	2	56	44	12	1.5	5.5	7
20	37	40	25	30	40	3	58	44	14	2.0	6.5	8
22	39	42	27	32	42	3	62	48	14	2.0	6.5	8
25	42	45	30	35	45	3	62	48	14	2.0	6.5	8
28	45	48	33	38	48	3	64	50	14	2.0	6.5	8
30	52	55	35	40	50	3	70	56	14	2.0	6.5	8
35	57	60	40	45	55	3	74	60	14	2.0	6.5	8
40	62	65	45	50	60	3	78	64	14	2.0	6.5	8
45	67	70	50	55	65	3	85	71	14	2.0	6.5	8
50	72	75	55	60	70	3	89	75	14	2.5	6.5	8
55	77	80	60	65	75	3	91	77	14	2.5	6.5	8
60	82	85	65	70	80	3	91	77	14	2.5	6.5	8
65	92	95	73	80	90	3	106	89	17	2.5	6.5	8
70	97	100	78	85	97	3	110	91	19	2.5	7.5	9
75	102	105	83	90	102	3	110	91	19	2.5	7.5	9
80	107	110	88	95	107	3	117	98	19	3.0	7.5	9
85	112	115	93	100	112	3	119	100	19	3.0	7.5	9
90	117	120	98	105	117	3	120	101	19	3.0	7.5	9
95	122	125	103	110	122	3	120	101	19	3.0	7.5	9
100	127	130	108	115	127	3	120	101	19	3.0	7.5	9
110	141	145	120	130	142	3	147	126	21	3.0	8.0	9
120	151	155	130	140	152	3	147	126	21	3.0	8.0	9



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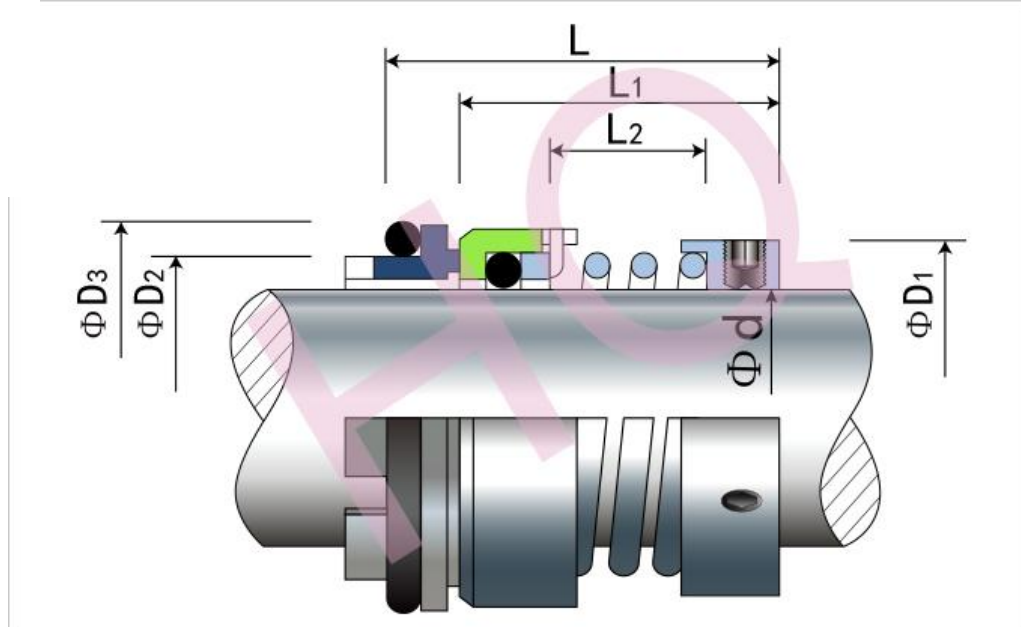
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HQ108U



Type: O-Ring Mechanical Seal
 Temperature: -40 to +150°C
 Pressure: $\leq 10.6\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G,Alfa



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d (mm)	D1	D2	D3	L	L1	L2
35	49	44	50	55	42	16
40	56	50	58	55	42	19
45	61	55	63	60	47	22
50	66	62	70	60	47	27
55	71	67	75	70	55	29
60	80	72	80	70	55	29
65	85	77	85	80	65	34
70	90	84	92	80	65	36

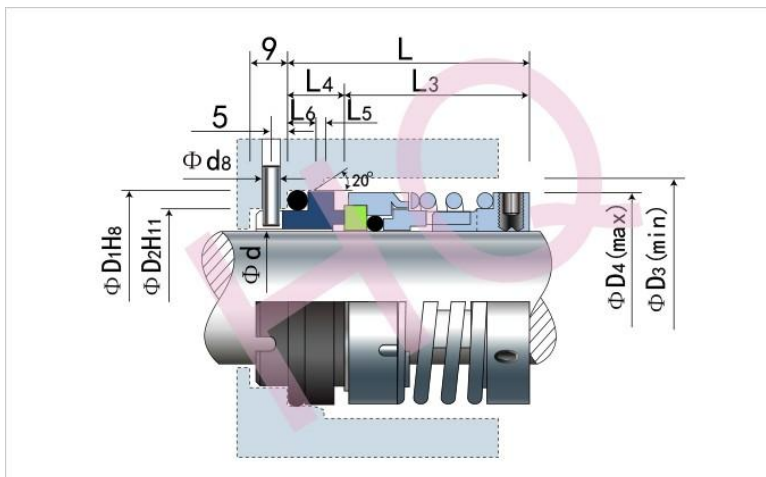


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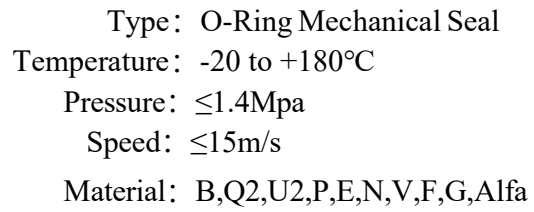


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Type: O-Ring Mechanical Seal
 Temperature: -20 to +180°C
 Pressure: $\leq 1.4\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: B,Q2,U2,P,E,N,V,F,G,Alfa



d (mm)	d8	D1	D2	D3	D4	L	L3	L4	L5	L6	L10
18	3	33	27	34	32	45	35	10	2.0	5	17.5
20	3	35	29	36	34	45	35	10	2.0	5	17.5
22	3	37	31	38	36	45	35	10	2.0	5	17.5
24	3	39	33	40	38	50	40	10	2.0	5	17.5
25	3	40	34	41	39	50	40	10	2.0	5	17.5
28	3	43	37	44	42	50	40	10	2.0	5	17.5
30	3	45	39	46	44	50	40	10	2.0	5	17.5
32	3	48	42	48	46	55	45	10	2.0	5	17.5
33	3	48	42	49	47	55	45	10	2.0	5	17.5
35	3	50	44	51	49	55	45	10	2.0	5	17.5
38	3	56	49	58	54	55	42	13	2.0	6	20.0
40	4	58	51	60	56	55	42	13	2.0	6	20.0
43	4	61	54	63	59	60	47	13	2.0	6	20.0
45	4	63	56	65	61	60	47	13	2.0	6	20.0
48	4	66	59	68	64	60	47	13	2.0	6	20.0
50	4	70	62	70	66	60	46	14	2.5	6	21.0
53	4	73	65	73	69	70	56	14	2.5	6	21.0
55	4	75	67	75	71	70	56	14	2.5	6	21.0
60	4	80	72	85	80	70	56	14	2.5	6	21.0
63	4	83	75	88	83	70	56	14	2.5	6	21.0
65	4	85	77	90	85	80	66	14	2.5	6	21.0
68	4	90	81	93	88	80	64	16	2.5	7	22.0
70	4	92	83	95	90	80	64	16	2.5	7	22.0
75	4	97	88	104	99	80	64	16	2.5	7	22.0
80	4	105	96	109	104	90	72	18	3.0	7	24.5
85	4	110	100	114	109	90	72	18	3.0	7	24.5
90	4	115	105	119	114	90	72	18	3.0	7	24.5
95	4	120	110	124	119	90	72	18	3.0	7	24.5
100	4	125	115	129	124	90	72	18	3.0	7	24.5

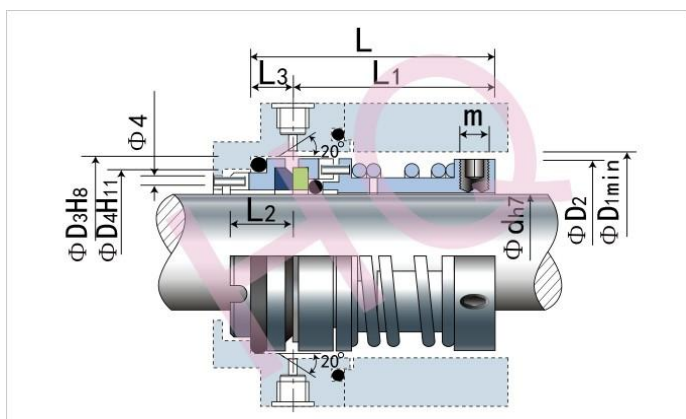


d (mm)	d0	d8	D1	D2	D3	D4	D5	L
18	3	3	33	27	34	32	25	33
20	3	3	35	29	36	34	27	33
25	3	3	40	34	41	39	32	35
28	3	3	43	37	44	42	35	35
30	3	3	45	39	46	44	37	35
35	4	4	50	44	51	49	42	39
40	4	4	58	51	60	56	48	44
45	4	4	63	56	65	61	53	44
50	4	4	70	62	70	66	58	49
55	4	4	75	67	75	71	63	49
60	4	4	80	72	85	80	70	59
65	4	4	85	77	90	85	75	59

HQ114



Type: O-Ring Mechanical Seal, Suit for Alfa Laval ALC(D Series) Pumps
 Temperature: -20 to +120°C
 Pressure: $\leq 0.5\text{Mpa}$
 Speed: $\leq 20\text{m/s}$
 Material: Q1, Q2, V, K, E, P, G, M5, M6, T4



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d (mm)	D1	D2	L1	L2	L3
16	34	40	44	11	11
18	36	42	44	11	11
20	38	44	47	14	11
22	40	46	49	16	11
25	43	49	53	20	11
28	46	52	53	20	11
30	53	64	62	22	11
35	58	69	65	25	11
40	63	74	70	30	11
45	68	79	75	34	14
50	73	84	75	34	14
55	78	89	75	34	14
60	83	94	83	42	14
65	92	103	86	42	14
70	97	110	86	42	14



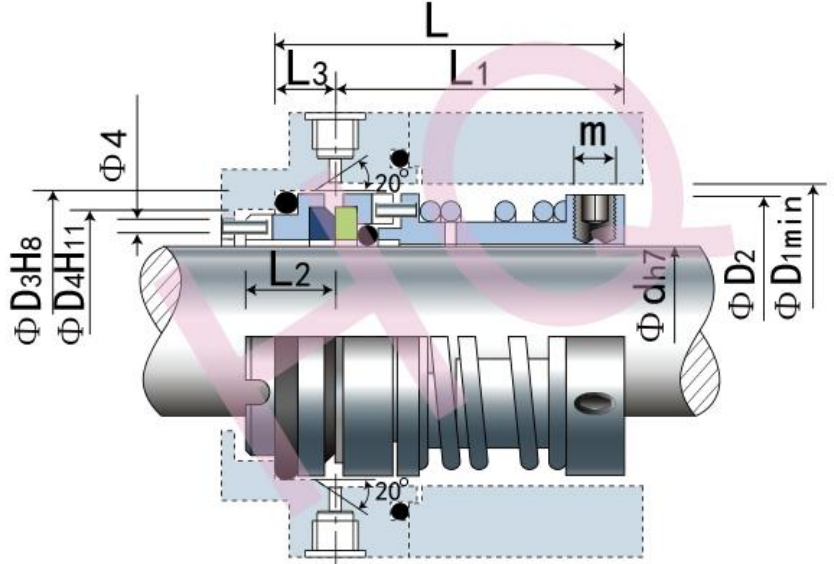
Type: O-Ring Mechanical Seal

Temperature: -20 to +180°C

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

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

Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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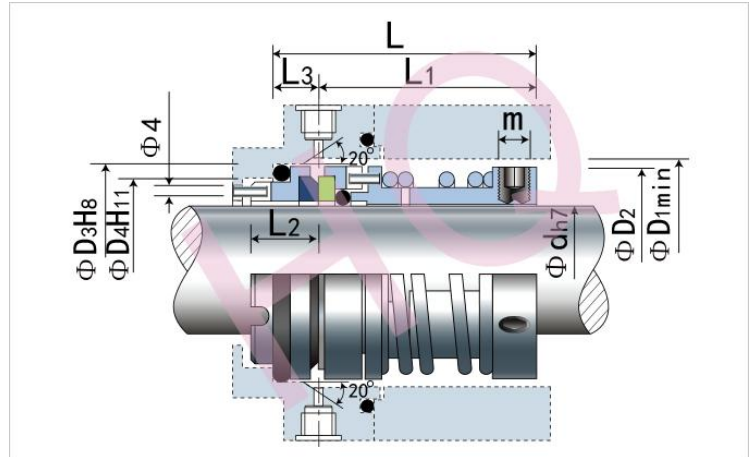
d (mm)	D1	D2	D3	D4	L	L1	L2	L3	m
20	36	34	36	28.5	46.0	31.0	20	15	5
25	41	39	42	34.5	49.0	34.0	20	15	5
30	51	49	50	40.5	51.0	36.0	20	15	6
35	59	57	55	45.5	61.5	46.5	20	15	6
40	64	62	60	50.5	64.5	49.5	20	15	6
45	69	67	65	55.5	69.5	54.5	20	15	6
50	74	72	70	60.5	73.5	57.5	21	16	6
55	80	77	75	65.5	75.5	59.5	21	16	8
60	85	82	80	70.5	75.5	59.5	21	16	8
65	94	91	89	79.5	81.5	64.5	22	17	8
70	99	96	94	84.5	83.5	66.5	22	17	8
75	104	101	99	89.5	83.5	66.5	22	17	8
80	109	106	104	94.5	88.5	71.5	22	17	8
85	114	111	109	99.5	91.5	74.5	22	17	8
90	119	116	114	104.5	92.5	75.5	22	17	8
95	124	121	119	109.5	92.5	75.5	22	17	8



HQ124B



Type: O-Ring Mechanical Seal, Suit for Grundfos, Hilge Pumps
 Temperature: -20 to $+120^{\circ}\text{C}$
 Pressure: $\leq 2.5\text{Mpa}$
 Speed: $\leq 15\text{m/s}$
 Material: A, Q1, Q2, U2, P, E, V, F, G



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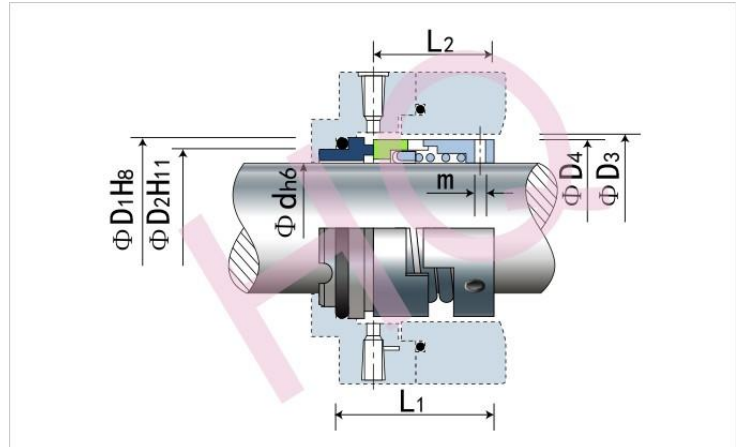


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HQ128



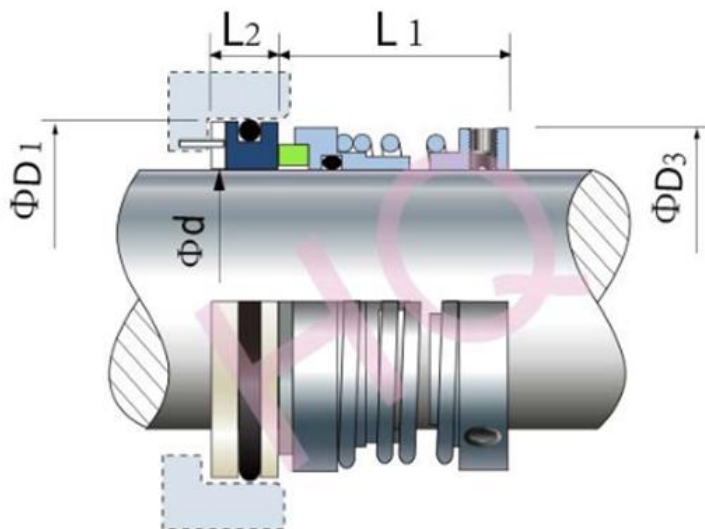
Type: O-Ring Mechanical Seal
 Replacement: Suit South CDLK Pumps
 Temperature: -20 to $+200^{\circ}\text{C}$
 Pressure: $\leq 0.8\text{Mpa}$
 Speed: $\leq 10\text{m/s}$
 Material: B, A1, Q1, Q2, U2, P, E, N, V, F, G, Alfa



d (mm)	D3	D4	D1	D2	L1	L2	m
28	44	42	43	37	50	39	6
35	51	49	50	44	55	42	6
38	58	54	56	48	55	42	8
48	68	64	66	58	60	47	8
50	70	66	70	62	60	47	8
60	85	80	80	67	70	55	8



HQ500AL



d		D1		D3		L1		L2	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
	14	1.000	25.4	1.100	27.94	1.375	34.92	0.313	7.95
5/8	16	1.250	31.75	1.100	27.94	1.375	34.92	0.375	9.52
3/4	18	1.375	34.92	1.210	30.73	1.500	38.10	0.406	10.31
	20	1.142	29.00	1.350	34.29	1.500	38.10	0.406	10.31
7/8	22	1.500	38.1	1.350	34.29	1.500	38.10	0.406	10.31
	24	1.300	33.02	1.538	39.06	1.500	38.10	0.437	11.09
1	25	1.625	41.27	1.538	39.06	1.500	38.10	0.437	11.09
1-1/8	28	1.750	44.45	1.732	44.00	1.562	39.68	0.437	11.09
	30	1.750	44.45	1.811	46.00	1.687	42.85	0.437	11.09
1-1/4	32	1.875	47.62	1.811	46.00	1.687	42.85	0.437	11.09
	33	1.875	47.62	1.975	50.16	1.750	44.45	0.437	11.09
1-3/8	35	2.000	50.8	1.975	50.16	1.750	44.45	0.437	11.09
1-1/2	38	2.125	53.97	2.100	53.34	1.750	44.45	0.437	11.09
1-5/8	40	2.375	60.32	2.226	56.54	1.750	44.45	0.500	12.70
	43	2.500	63.50	2.390	60.70	1.750	44.45	0.500	12.70
1-3/4	45	2.500	63.50	2.390	60.70	1.750	44.45	0.500	12.70
1-7/8	48	2.625	66.67	2.515	63.88	1.875	47.62	0.500	12.70
2	50	2.750	69.85	2.639	67.03	1.937	49.20	0.500	12.70
2-1/8	53	2.875	73.02	2.765	70.23	2.062	52.37	0.563	14.30
2-1/4	55	3.125	79.37	2.890	73.40	2.062	52.37	0.563	14.30
	58	3.250	82.55	3.054	77.57	2.250	57.15	0.563	14.30
2-3/8	60	3.250	82.55	3.054	77.57	2.250	57.15	0.563	14.30
2-1/2	63	3.375	85.72	3.229	82.01	2.250	57.15	0.563	14.30
2-5/8	65	3.500	88.90	3.445	87.50	2.312	58.73	0.625	15.87
	68	3.750	95.25	3.500	88.90	2.312	58.73	0.625	15.87
2-3/4	70	3.750	95.25	3.500	88.90	2.312	58.73	0.625	15.87
2-7/8	73	3.875	98.42	3.625	93.00	2.562	65.07	0.625	15.87
3	75	4.000	101.60	3.767	95.68	2.750	69.85	0.625	15.87
3-1/8	78	4.125	104.77	3.843	97.61	2.750	69.85	0.625	15.87
3-1/4	80	4.250	107.95	4.017	102.03	2.750	69.85	0.625	15.87
3-3/8	83	4.375	111.12	4.272	108.50	2.750	69.85	0.625	15.87
	85	4.375	111.12	4.272	108.50	2.750	69.85	0.687	17.45
3-1/2	90	4.500	114.30	4.272	108.50	2.75	69.85	0.687	17.45
3-5/8	92	4.625	117.47	4.606	117.00	3.500	88.90	0.687	17.45
3-3/4	93	4.750	120.65	4.606	117.00	3.500	88.90	0.687	17.45
	95	4.875	123.82	4.606	117.00	3.500	88.90	0.687	17.45
3-7/8	98	4.875	123.82	4.780	121.41	3.500	88.90	0.687	17.45
4	100	5.000	127.00	4.900	124.50	3.625	92.07	0.687	17.45

Type: O-Ring Mechanical Seal, Siut for Morman RuPP Pump

Replacement: Suit Mormann Rupp Pumps

Temperature: -20 to +180°C

Pressure: ≤1.0Mpa

Speed: ≤15m/s

Material: B,Q2,U2,P,E,N,V,F,G,Alfa



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Type: O-ring Mechanical Seals

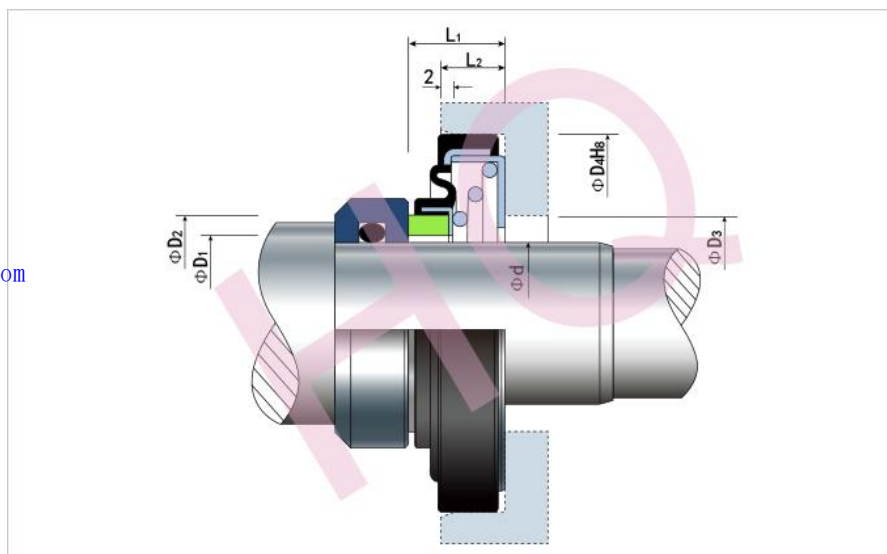
Replacement: Burgmann AX5

Temperature: -20°C to +200°C

Pressure: $\leq 0.8\text{Mpa}$

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

Material: Q1,Q2,A,B,U1,U2,P,E,V,T,F,G,T2
,M5



d (mm)	D1	D2	D3	D4	L1	L2
20	22	27.0	28	42	18	12
25	27	32.0	32	52	12	8
30	32	37.0	37	57	12	8
35	37	42.0	42	62	12	8
40	42	47.5	47	68	12	10
45	47	53.0	52	75	13	10
50	52	58.0	57	80	13	10
55	57	65.0	62	90	14	12
65	67	75.0	72	100	16	10



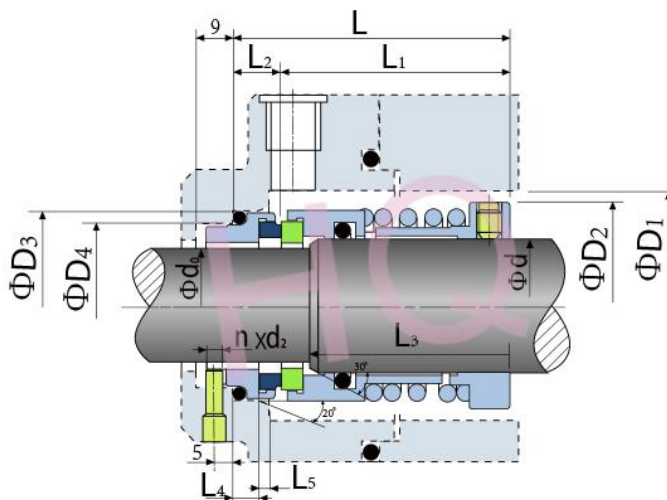
HQ-N01(H3B)



Type: Parallel single-spring seal
 Replacement: Bergmann H3B
 Temperature: -20°C to +160°C
 Pressure: $\leq 1.2\text{Mpa}$
 Speed: $\leq 20\text{m/s}$
 Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G

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d (mm)	d0	D1	D2	D3	D4	d2	L	L1	L2	L3	L4	L5
24	20	40	38	35	29	3	62	49	13	42	5	2.0
26	22	42	40	37	31	3	62	49	13	42	5	2.0
28	24	44	42	39	33	3	64	51	13	44	5	2.0
30	25	46	44	40	34	3	64	51	13	44	5	2.0
33	28	49	47	43	37	3	64	51	13	44	5	2.0
35	30	51	49	45	39	3	68	55	13	48	5	2.0
38	33	58	54	48	42	3	71	58	13	51	5	2.0
40	35	60	56	50	44	3	73	60	13	53	5	2.0
43	38	63	59	56	50	4	76	61	15	53	5	2.0
45	40	65	61	58	52	4	76	61	15	53	5	2.0
48	43	68	64	61	55	4	76	61	15	53	5	2.0
50	45	70	66	63	57	4	80	65	15	57	5	2.0
53	48	73	69	66	60	4	80	65	15	57	5	2.0
55	50	75	71	68	62	4	82	65	17	57	5	2.0
58	53	83	76	71	65	4	84	68	16	59	5	2.0
60	55	85	78	73	67	4	84	68	16	59	5	2.0
63	58	88	81	79	70	4	84	68	16	59	7	2.5
65	60	90	84	81	72	4	88	72	16	63	7	2.5
68	63	93	87	84	75	4	88	72	16	63	7	2.5
70	65	95	90	86	77	4	89	73	16	64	7	2.5
75	70	104	95	92	83	4	94	75	19	66	7	2.5
80	75	109	100	97	88	4	94	75	19	66	7	2.5
85	80	114	107	105	96	4	100	81	19	72	7	2.5
90	85	119	112	110	101	4	100	82	18	72	7	2.5
95	90	124	119	115	106	4	105	87	18	77	7	2.5
100	95	129	124	120	111	4	105	87	18	77	7	2.5
105	100	134	129	125	116	4	105	87	18	77	7	2.5

HQ-N02(HA211)

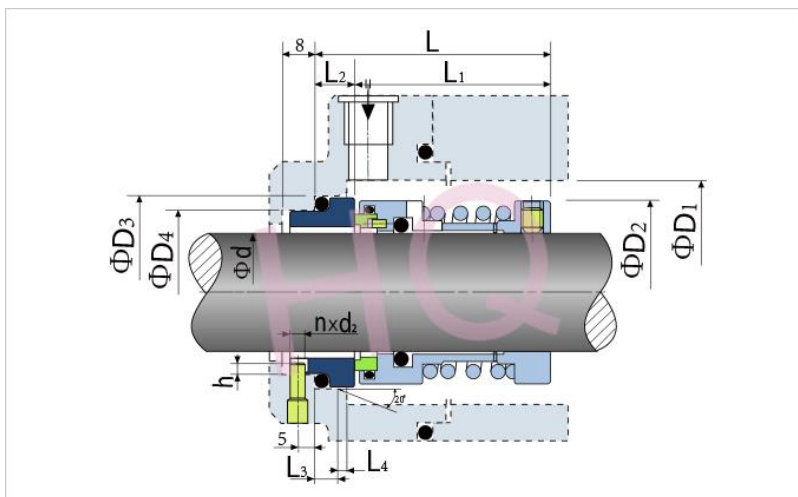


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Type: Parallel single-spring seal, Suit WILO
MVI202 Centrifugal Pumps
Replacement: Bergmann HA211
Temperature: -20°C to $+160^{\circ}\text{C}$
Pressure: $\leq 1.2\text{Mpa}$
Speed: $\leq 20\text{m/s}$
Material: B,A1,Q1,Q2,U2,P,E,N,V,F,G



d (mm)	D1	D2	D3	D4	d2	L	L1	L2	L3	L4	h
20	36	34	35	29	3	51.0	41	10	5.5	2.0	3.5
24	40	38	39	33	3	53.0	43	10	5.5	2.0	3.5
25	41	39	40	34	3	53.0	43	10	5.5	2.0	3.5
28	44	42	43	37	3	55.0	45	10	5.5	2.0	3.5
30	46	44	45	39	3	55.0	45	10	5.5	2.0	3.5
32	48	46	48	42	3	55.0	45	10	5.5	2.0	3.5
33	49	47	48	42	3	55.0	45	10	5.5	2.0	3.5
35	41	49	50	44	3	59.0	49	10	5.5	2.0	3.5
38	58	54	56	49	4	64.0	53	11	6.0	2.0	4.0
40	60	56	58	51	4	66.0	55	11	6.0	2.0	4.0
43	63	59	61	54	4	66.0	55	11	6.0	2.0	4.0
45	65	61	63	56	4	66.0	55	11	6.0	2.0	4.5
48	68	64	66	59	4	66.0	55	11	6.0	2.0	4.5
50	70	66	70	62	4	73.0	60	13	6.0	2.5	4.5
53	73	69	73	65	4	74.0	61	13	6.0	2.5	5.0
55	75	71	75	67	4	74.0	61	13	6.0	2.5	5.0
60	85	78	80	72	4	76.0	63	13	6.0	2.5	5.0
63	88	81	83	75	4	76.0	63	13	6.0	2.5	5.0
65	90	84	85	77	4	80.0	67	13	6.0	2.5	5.0
70	95	90	92	83	4	83.0	68	15	7.0	2.5	5.0
75	104	95	97	88	4	87.0	72	15	7.0	2.5	5.0
80	109	100	105	95	4	87.5	72	15	7.0	3.0	6.0
85	114	107	110	100	4	92.5	77	15	7.0	3.0	6.0
90	119	112	115	105	4	92.5	77	15	7.0	3.0	6.0
95	124	119	120	110	4	97.5	82	15	7.0	3.0	6.0
100	129	124	125	115	4	97.5	82	15	7.0	3.0	6.0

HQ-N60(DF-SGR)



Type: Double Mechanical Seal for
Bornemann S250692 Pump.

Replacement: Burgmann DF-SGR

Temperature: -10 to 40°C

Pressure: 2.0Mpa

Speed: $\leq 1900\text{r/min}$

Material: Q1,Q2,U2,T,V,M1,F,G,M



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