the better seal
DEPAC

Mechanical seal
Type 270P

No mechanical seal lasts forever. Even with double seals, no manufacturer can guarantee that the second seal face pair will seal after the first has failed. The "Disaster Bushings" demanded by the oil industry (API) also offer no protection in case of a leakage. The DEPAC type 270P, conversely, guarantees a high level of process reliability, because in the case of seal damage the integrated packing is simply adjusted to a minimum leakage rate and the mechanical seal can thus remain in service until the next planned standstill. The DEPAC type 270P is the new standard in cartridge-mounted mechanical seals, since expensive production losses and unplanned emergency assignments of fitters can be prevented.

Advantages

- Adjustable safety seal
- Stationary design principle
- Ideal for conversions from gland packings to mechanical seals
- Extremely well suited for standardisations
- Cartridge-mounted, balanced, independent of the direction of rotation
- Multi-springs made of Hastelloy C, springs outside the medium
- Vibration-dampend stationary face support

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Technical specifications

Area of application*

Pressure:	700 mm Hg to 30 bar
Temperature:	dependent on elastomer
Sliding speed:	up to 35 m/s
Shaft movements:	axial +/- 1.0 mm
	radial +/- 0.5 mm

* The maximum specifications for temperature, pressure and sliding speed apply in each case to independent higher operating conditions. However, this does not mean that the seal will function with all extreme conditions at the same time. If in doubt contact DEPAC.

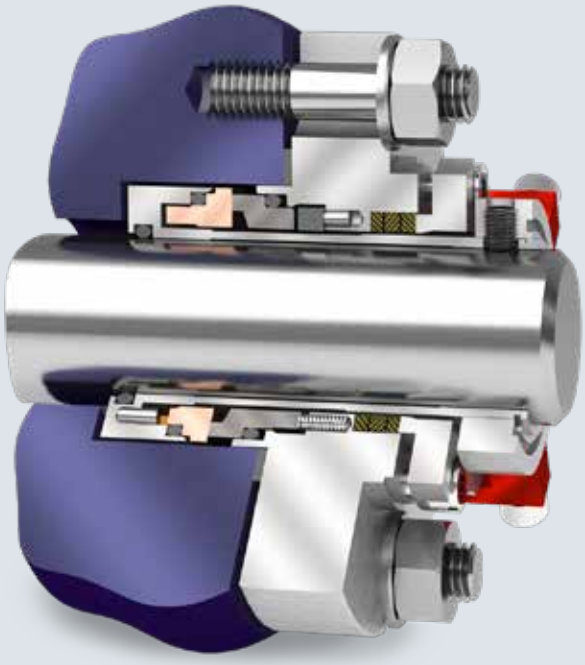
Dimensions

Shaft diameter:	24 – 100 mm
	1“ – 4“
	Special sizes on enquiry

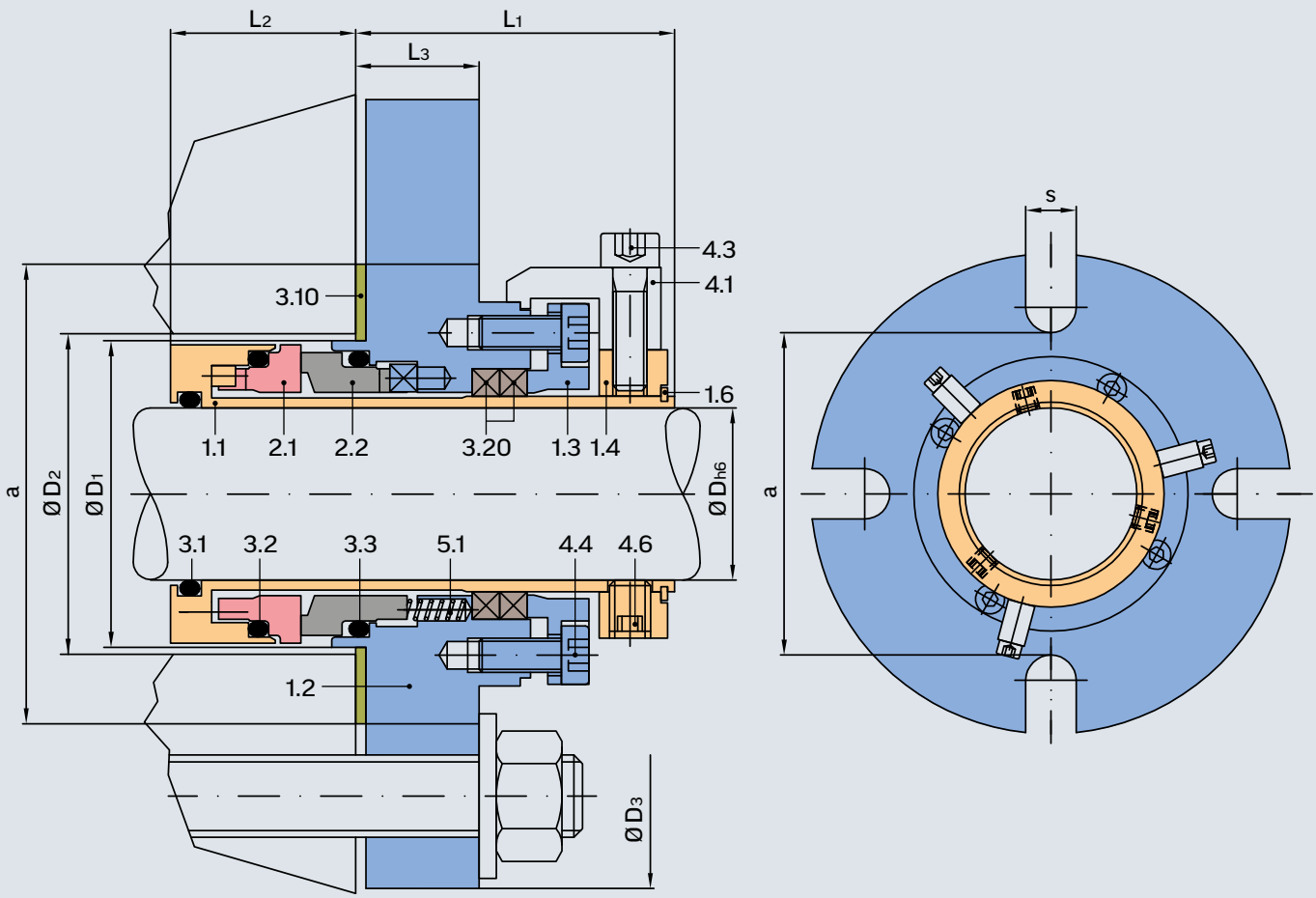
Bill of materials

Item	Description	Material
1.1	Sleeve	1.4571
1.2	Gland	1.4571
1.3	Packing gland	1.4571
1.4	Adjusting ring	1.4571
1.6	Circlip	1.4310
2.1	Dynamic seal face	SC/SSIC/TC
2.2	Stationary seal face	CA/SC/SSIC/TC
3.1, 3.2, 3.3	O-ring	FKM, EPDM, Kalrez®, PTFE,...
3.10	Flat gasket	Klingersil® C-4300
3.20	Integrated safety packing	Graphite – PTFE packing DEPAC Type 730
4.1	Centering piece	Al
4.3	Cheesehead screw	A2
4.4	Cheesehead screw	A2
4.6	Threaded pin	A4
5.1	Spring	2.4610

Other materials on enquiry!



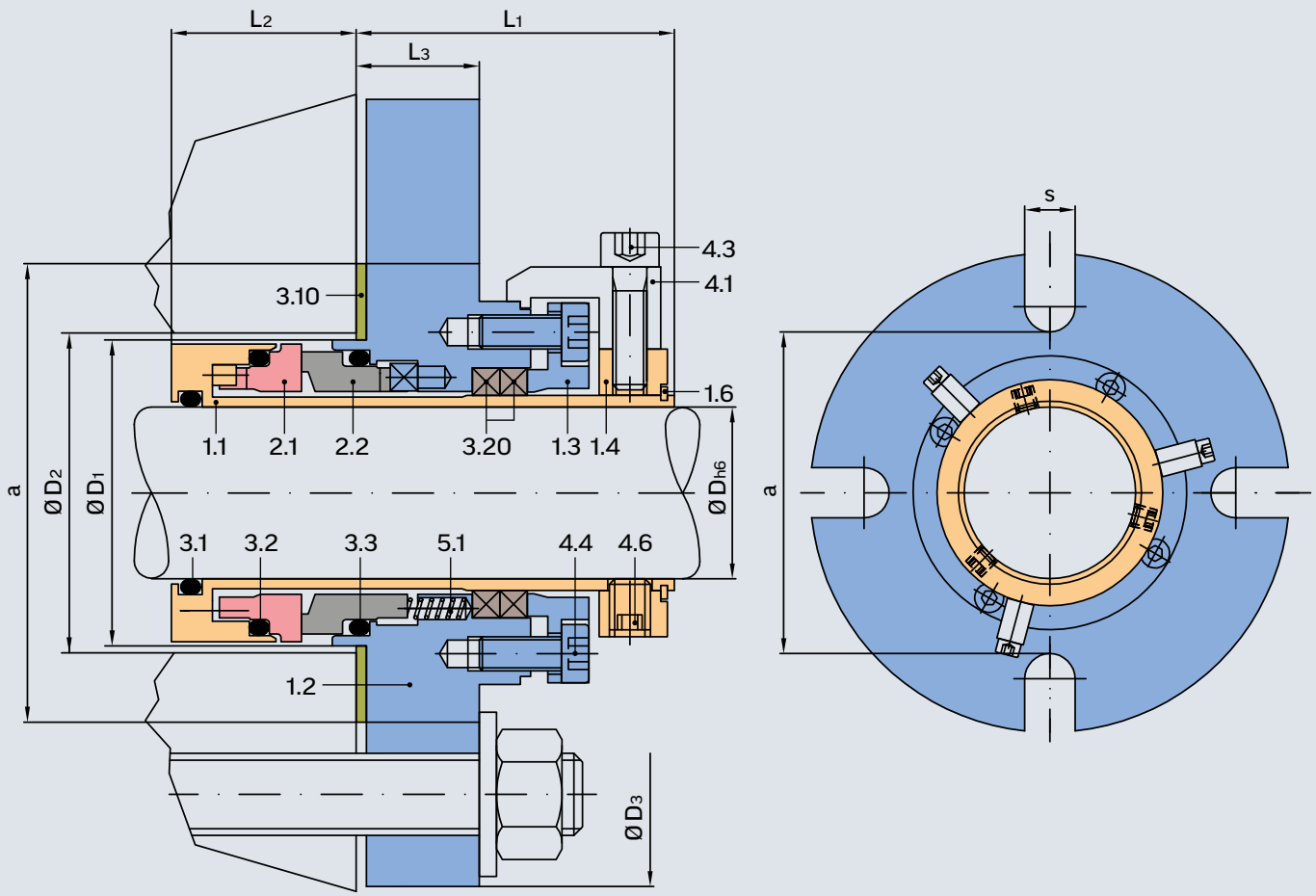
Mechanical seal
Type 270P
Data sheet



Dimension table Ø 24 – 50 millimetres

Dh6	D1	D2 min.	D2 max.	D3	L1	L2	L3	a	s	O-rings DASH no.		
										3.1	3.2	3.3
24	44.7	46.7	54	104	45	28.5	19	62	12.5	120	127	127
25	44.7	46.7	54	104	45	28.5	19	62	12.5	120	127	127
28	47.7	49.7	54	104	45	28.5	19	62	12.5	122	129	129
30	49.7	51.7	59	104	45	28.5	19	67	12.5	123	130	130
32	50.9	52.9	59	104	45	28.5	19	67	12.5	124	131	131
33	50.9	52.9	59	104	45	28.5	19	67	12.5	125	131	131
35	54.7	56.7	62	115	45	28.5	19	70	12.5	126	133	133
38	57.7	59.7	67	125	45	28.5	19	75	14.7	128	136	136
40	59.7	61.7	67	125	45	28.5	19	75	14.7	130	137	137
42	61.7	63.7	72	133	45	28.5	19	80	14.7	131	138	138
43	62.7	64.7	72	133	45	28.5	19	80	14.7	132	138	138
45	64.7	66.7	74	140	45	28.5	19	82	14.7	133	140	140
48	67.7	69.7	74	140	45	28.5	19	82	14.7	135	142	142
50	69.7	71.7	79	140	45	28.5	19	87	14.7	136	143	143

Mechanical seal
Type 270P
Data sheet



Dimension table Ø 53 – 70 millimetres

D_{h6}	D_1	D_2 min.	D_2 max.	D_3	L_1	L_2	L_3	a	s	O-rings DASH no.		
										3.1	3.2	3.3
53	72.7	74.7	84	150	45	28.5	19	92	17.5	138	145	145
55	74.7	76.7	84	150	45	28.5	19	92	17.5	139	146	146
58	77.7	79.7	92	160	45	28.5	19	100	17.5	141	148	148
60	79.7	81.7	92	160	45	28.5	19	100	17.5	142	149	149
63	82.7	84.7	97	165	45	28.5	19	105	17.5	144	150	150
65	84.7	86.7	97	165	45	28.5	19	105	17.5	145	151	151
68	87.7	89.7	112	180	45	28.5	19	120	17.5	148	151	151
70	89.7	91.7	112	180	45	28.5	19	120	17.5	149	152	152

Mechanical seal
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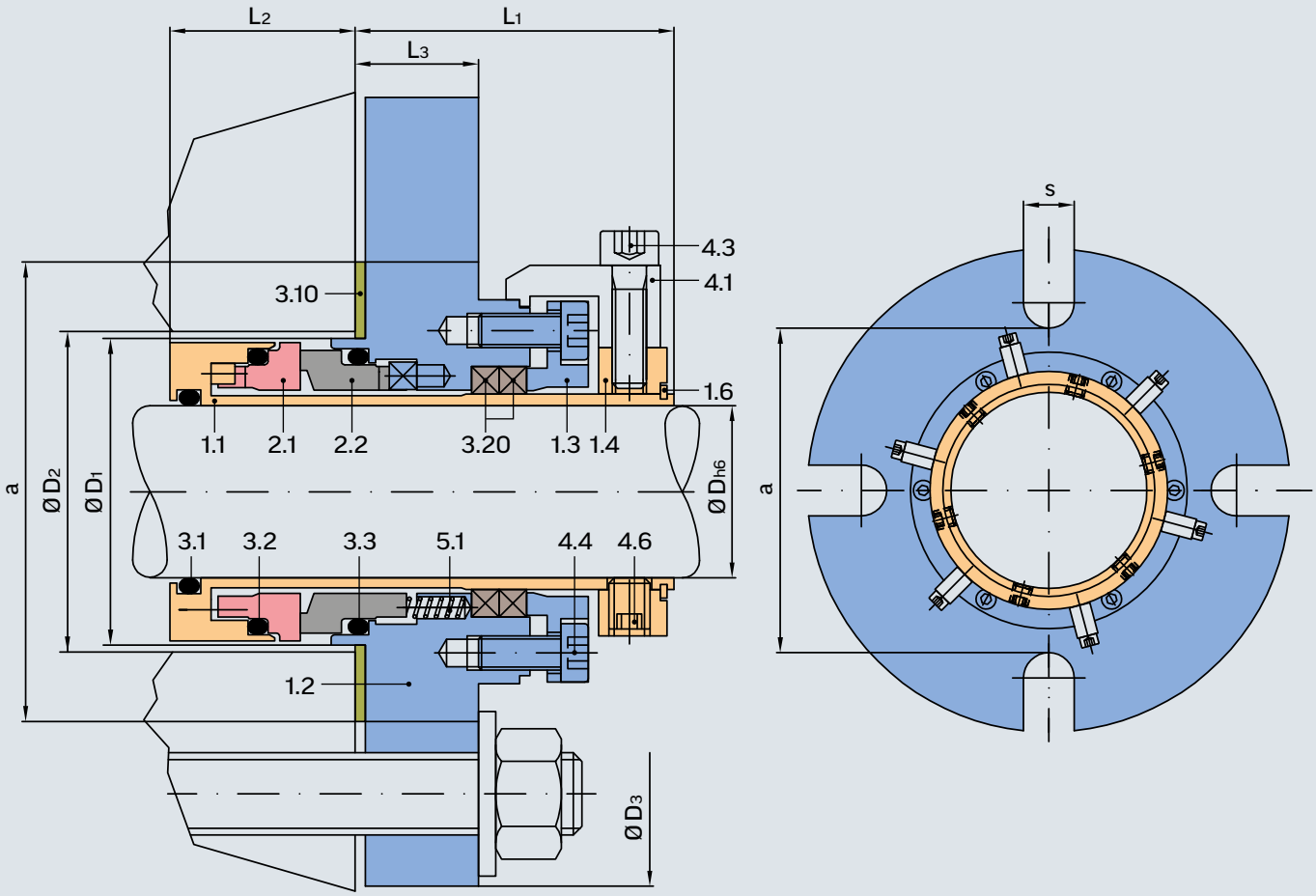

Dimension table Ø 75 – 100 millimetres

Dh6	D1	D2 min.	D2 max.	D3	L1	L2	L3	a	s	O-rings DASH no.		
										3.1	3.2	3.3
75	102.8	104.8	117	190	50	34	22	125	17.5	234	238	238
80	107.8	109.8	122	190	50	34	22	130	17.5	236	240	240
85	112.8	114.8	129	220	50	34	22	137	21.5	237	242	242
90	117.8	119.8	134	220	50	34	22	142	21.5	239	243	243
95	122.8	124.8	139	220	50	34	22	147	21.5	240	245	245
100	127.8	129.8	144	220	50	34	22	152	21.5	242	246	246

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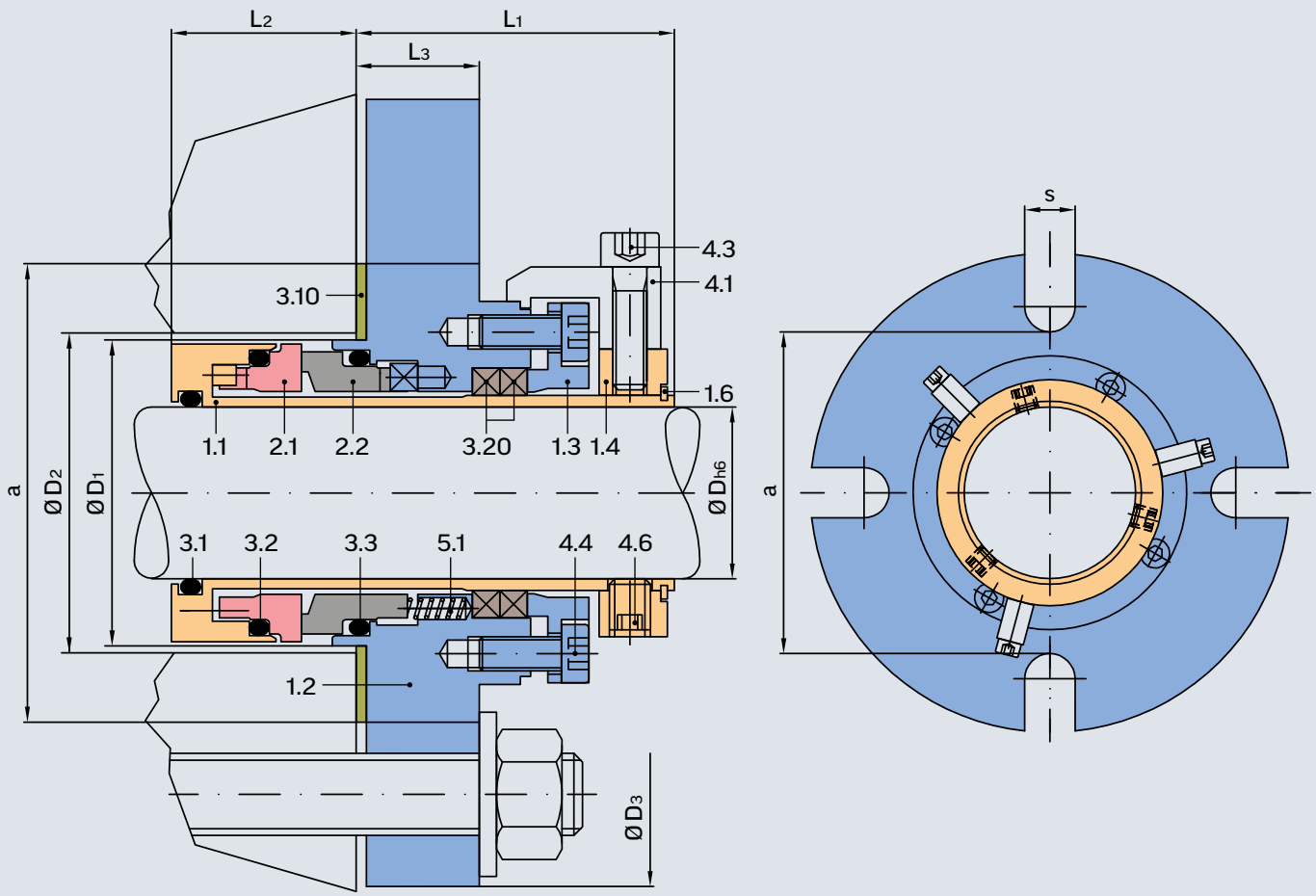

Dimension table Ø 1 – 2¾ inches

D_{h6}	D_1	D_2 min.	D_2 max.	D_3	L_1	L_2	L_3	a	s	O-rings DASH no.		
										3.1	3.2	3.3
1	1.760	1.839	2.126	4.094	1.772	1.122	0.748	2.441	0.492	120	127	127
1 ⅛	1.878	1.957	2.126	4.094	1.772	1.122	0.748	2.441	0.492	122	129	129
1 ¼	2.004	2.083	2.323	4.094	1.772	1.122	0.748	2.638	0.492	124	131	131
1 ⅜	2.154	2.233	2.441	4.528	1.772	1.122	0.748	2.756	0.492	126	133	133
1 ½	2.272	2.351	2.638	4.921	1.772	1.122	0.748	2.953	0.579	128	136	136
1 ⅝	2.429	2.508	2.835	5.236	1.772	1.122	0.748	3.150	0.579	131	138	138
1 ¾	2.547	2.626	2.913	5.512	1.772	1.122	0.748	3.228	0.579	133	140	140
1 ⅞	2.665	2.744	2.913	5.512	1.772	1.122	0.748	3.228	0.579	135	142	142
2	2.744	2.823	3.110	5.512	1.772	1.122	0.748	3.425	0.579	136	143	143
2 ⅛	2.862	2.941	3.307	5.906	1.772	1.122	0.748	3.622	0.689	138	145	145
2 ¼	3.020	3.099	3.622	6.299	1.772	1.122	0.748	3.937	0.689	140	147	147
2 ⅜	3.138	3.217	3.622	6.299	1.772	1.122	0.748	3.937	0.689	142	149	149
2 ½	3.256	3.335	3.819	6.496	1.772	1.122	0.748	4.134	0.689	144	150	150
2 ⅝	3.413	3.492	4.409	7.087	1.772	1.122	0.748	4.724	0.689	146	151	151
2 ¾	3.531	3.610	4.409	7.087	1.772	1.122	0.748	4.724	0.689	149	152	152

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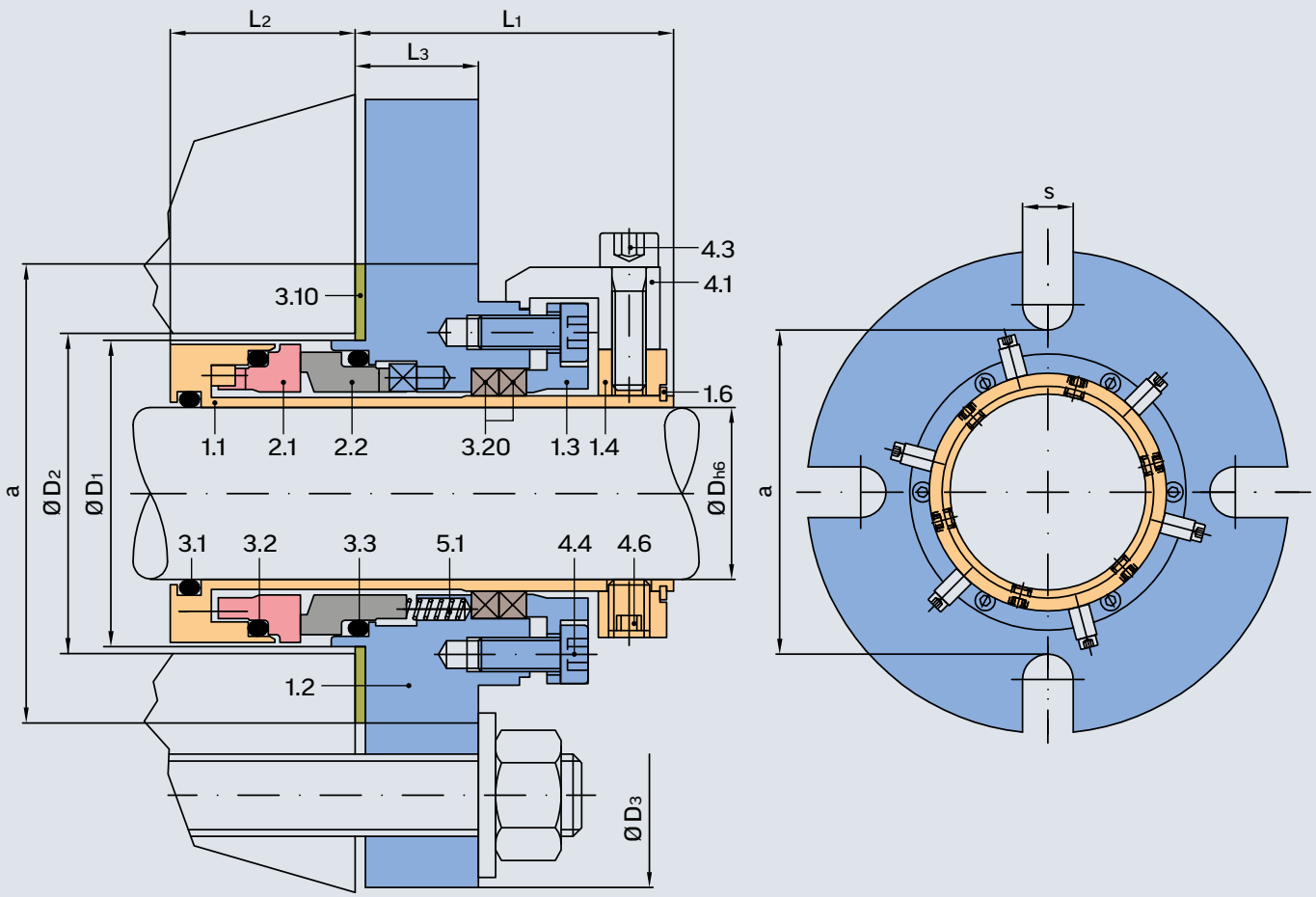

Dimension table Ø 2 ⅞ – 4 inches

Dh6	D1	D2 min.	D2 max.	D3	L1	L2	L3	a	s	O-rings DASH no.		
										3.1	3.2	3.3
2 ⅞	3.969	4.048	4.606	7.480	1.969	1.339	0.866	4.921	0.689	233	238	238
3	4.047	4.126	4.606	7.480	1.969	1.339	0.866	4.921	0.689	234	238	238
3 ⅛	4.244	4.323	4.803	7.480	1.969	1.339	0.866	5.118	0.689	236	240	240
3 ¼	4.362	4.441	5.079	8.661	1.969	1.339	0.866	5.394	0.846	236	241	241
3 ⅜	4.441	4.520	5.079	8.661	1.969	1.339	0.866	5.394	0.846	237	242	242
3 ½	4.638	4.717	5.276	8.661	1.969	1.339	0.866	5.591	0.846	239	243	243
3 ⅝	4.717	4.796	5.472	8.661	1.969	1.339	0.866	5.787	0.846	239	244	244
3 ¾	4.835	4.914	5.472	8.661	1.969	1.339	0.866	5.787	0.846	240	245	245
3 ⅞	5.031	5.110	5.669	8.661	1.969	1.339	0.866	5.984	0.846	242	246	246
4	5.031	5.110	5.669	8.661	1.969	1.339	0.866	5.984	0.846	242	246	246

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