



SINGLE MECHANICAL SEAL

type

D9G

ALL DIMENSIONS ACC. TO
EN 12756 (DIN 24960)

DESIGN FEATURES

OPERATING LIMITS

Pressure	- $P=1,0$ MPa
Temperature	- $t= 220^{\circ}\text{C}$
Sliding speed	- $V_n= 15$ m/s

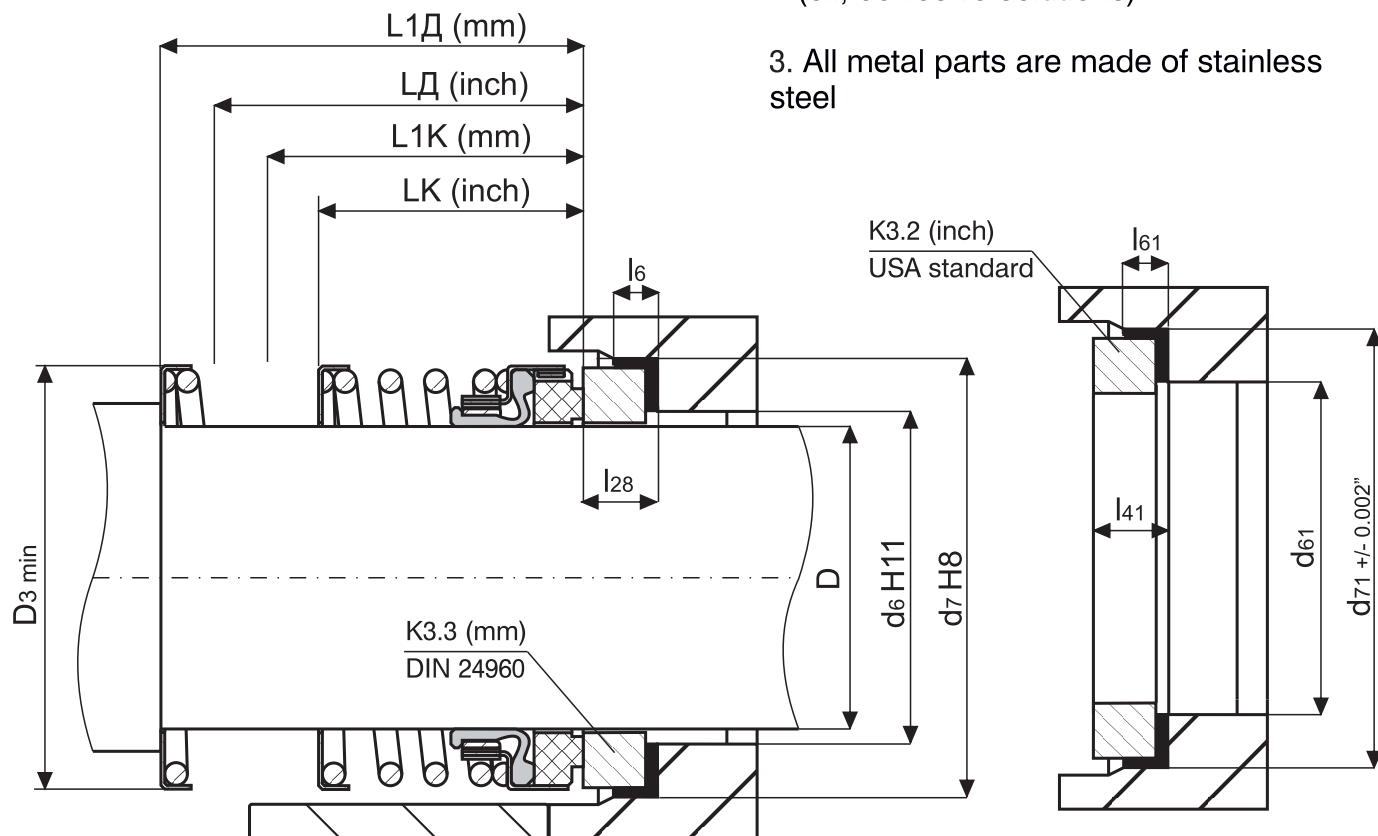
1. Sealing faces materials:

- carbon graphite
- tungsten carbide
- silicon carbide
- Al_2O_3
- special stainless steels

2. Secondary seals materials:

- NB-rubber up to $t=90^{\circ}\text{C}$
(petrol, oil)
- EP-rubber up to $t=130^{\circ}\text{C}$
(water, steam)
- FPM - up to $t=200^{\circ}\text{C}$
(oil, corrosive solutions)

3. All metal parts are made of stainless steel



GENERAL DIMENSIONS (mm)

D	d ₆	d ₇	D ₃	L _{1K}	L _{1Д}	l ₆	l ₂₈
10	17	21	13.0	32.5	40	4	6.6
12	19	23	15.0	32.5	40	4	6.6
14	21	25	18.0	35.0	40	4	6.6
15	-	-	19.0	-	-	-	-
16	23	27	20.0	35.0	40	4	6.6
18	27	33	22.0	37.5	45	5	7.5
20	29	35	24.5	37.5	45	5	7.5
22	31	37	27.0	37.5	45	5	7.5
24	33	39	29.0	40.0	50	5	7.5
25	34	40	30.0	40.0	50	5	7.5
28	37	43	34.0	42.5	50	5	7.5
30	39	45	36.0	42.5	50	5	7.5
32	42	48	38.0	42.5	55	5	7.5
33	42	48	39.0	42.5	55	5	7.5
35	44	50	41.0	42.5	55	5	7.5
38	49	56	44.5	45.0	55	6	9.0
40	51	58	47.5	45.0	55	6	9.0
43	54	61	50.5	45.0	60	6	9.0
45	56	63	52.5	45.0	60	6	9.0
48	59	66	56.0	45.0	60	6	9.0
50	62	70	58.0	47.5	60	6	9.5
53	65	73	61.0	47.5	70	6	11.0
55	67	75	63.0	47.5	70	6	11.0
58	70	78	66.0	52.5	70	6	11.0
60	72	80	68.0	52.5	70	6	11.0
63	75	83	71.5	52.5	70	6	11.0
65	77	85	73.5	52.5	80	6	11.0
68	81	90	76.5	52.5	80		11.3
70	83	92	79.0	60.0	80		11.3
75	88	97	85.0	60.0	80		11.3
80	95	105	91.5	60.0	90		12.0
85	100	110	-	60.0	90		14.0
90	105	115	-	65.0	90		14.0
95	110	120	-	65.0	90		14.0
100	115	125	114.0	65.0	90		14.0

GENERAL DIMENSIONS (inch)

D	d ₆₁	d ₇₁	D ₃	L _K	L _Д	l ₆₁	l ₄₁
0.375	0.625	0.875	0.492	1.125	1.500	0.250	0.313
0.500	0.750	1.000	0.630	1.125	1.500	0.250	0.313
0.625	0.937	1.250	0.787	1.281	1.718	0.344	0.406
0.750	1.062	1.375	0.905	1.281	1.718	0.344	0.406
0.875	1.187	1.500	1.063	1.343	1.781	0.344	0.406
1.000	1.312	1.625	1.200	1.437	2.000	0.375	0.437
1.125	1.437	1.750	1.358	1.500	2.062	0.375	0.437
1.250	1.563	1.875	1.496	1.500	2.062	0.375	0.437
1.375	1.687	2.000	1.614	1.562	2.124	0.375	0.437
1.500	1.813	2.125	1.752	1.562	2.124	0.375	0.437
1.625	2.000	2.375	1.909	1.875	2.500	0.437	0.500
1.750	2.125	2.500	2.028	1.875	2.500	0.437	0.500
1.875	2.250	2.625	2.165	2.000	2.625	0.437	0.500
2.000	2.375	2.750	2.283	2.000	2.625	0.437	0.500
2.125	2.375	3.000	2.421	2.249	2.937	0.500	0.562
2.250	2.437	3.125	2.559	2.249	2.937	0.500	0.562
2.375	2.563	3.250	2.697	2.375	3.062	0.500	0.562
2.500	2.687	3.375	2.834	2.375	3.062	0.500	0.562
2.625	2.812	3.375	2.953	2.562	3.375	0.562	0.625
2.750	2.937	3.500	3.110	2.562	3.375	0.562	0.625
2.875	3.062	3.750	3.228	2.687	3.500	0.562	0.625
3.000	3.187	3.875	3.366	2.687	3.500	0.562	0.625
3.125	3.312	4.000	3.583	2.968	3.906	0.656	0.781
3.250	3.437	4.125	-	2.968	3.906	0.656	0.781
3.375	3.562	4.250	-	2.968	3.906	0.656	0.781
3.500	3.687	4.375	3.937	2.968	3.906	0.656	0.781
3.625	3.812	4.500	-	3.093	4.031	0.656	0.781
3.750	3.937	4.625	4.252	3.093	4.031	0.656	0.781
3.875	4.062	4.750	-	3.218	4.156	0.656	0.781
4.000	4.187	4.875	4.567	3.218	4.156	0.656	0.781

NOTES:

1. Recommended stationary seats type: K1, K2, K3, K4, K5, K6, K7, K8
2. It is possible to have metric rotary part with inch stationary seat
3. See pages 45-49 for stationary seats type
4. See pages 50-51 for seals designation and material codes