



type

SINGLE
MECHANICAL
SEAL

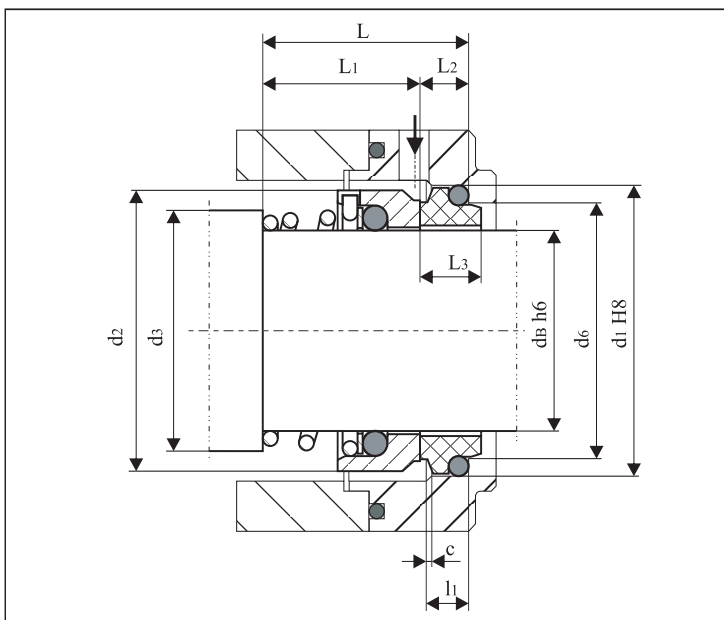
D300

ALL DIMENSIONS ACC. TO
EN 12756 (DIN 24960)

OPERATING LIMITS

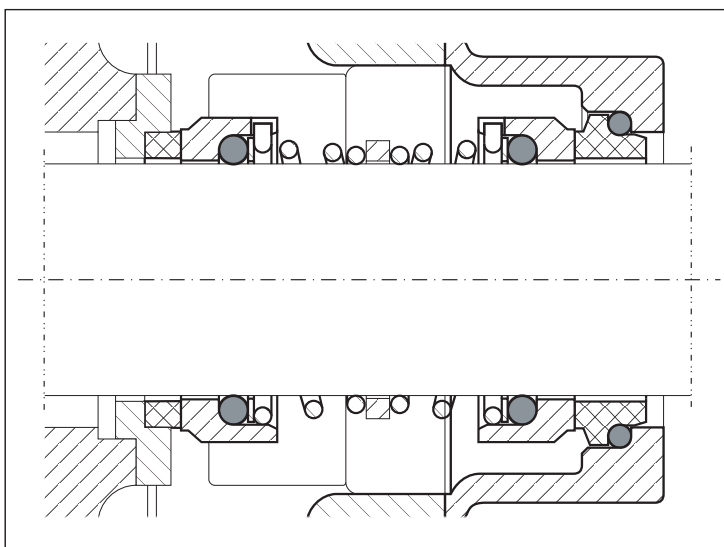
Pressure	- $P = 1,0 \text{ MPa}$
Temperature	- $T = 240^\circ\text{C}$
Sliding speed	- $V_n = 20 \text{ m/s}$

Solid metal face, unbalanced, with single spring, dependent on direction of rotation.



DESIGN FEATURES

1. Sealing faces materials:
 - graphite
 - 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)
 - PTFE - up to $t = 240^\circ\text{C}$ (highly corrosive solutions)
 - FEP Encapsulated - up to $t = 205^\circ\text{C}$
 - PFA Encapsulated - up to $t = 260^\circ\text{C}$



3. All metal parts are made of stainless steel

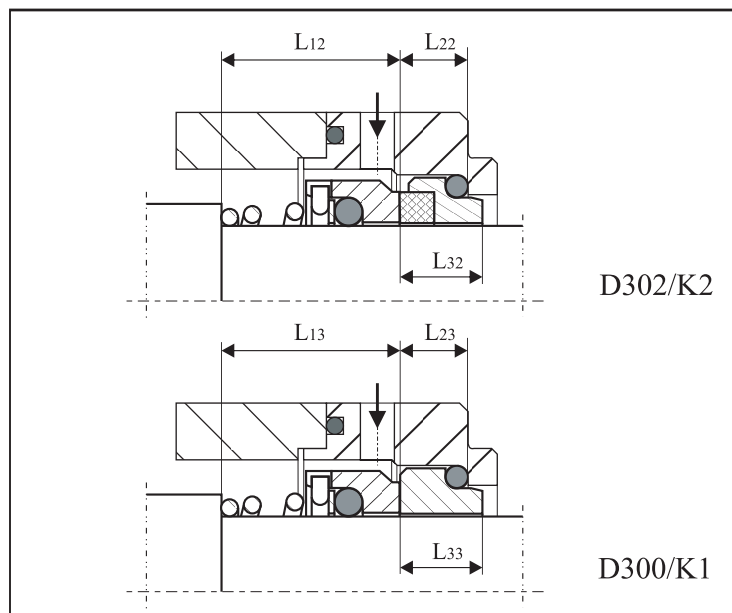
An example of back-to back mounting scheme.

GENERAL DIMENSIONS (mm)

d _B	d ₁	d ₂	d ₃	d ₆	L	L ₁	L ₂	L ₃	l ₁	C	L ₁₂	L ₂₂	L ₃₂	L ₁₃	L ₂₃	L ₃₃
6	16,0	14	8	11,5	17,5	10,5	7,1	9,0	5,0	1,2	-	-	-	11,9	5,6	8,0
8	19,2	18	11	15,5	22,5	15,5	7,1	9,0	5,0	1,2	-	-	-	16,9	7,0	8,0
10	19,2	19	13	15,5	22,5	15,5	7,1	9,0	5,0	1,2	-	-	-	16,9	6,6	8,0
12	21,6	21	16	17,5	23,0	15,5	7,6	10,0	5,0	1,2	-	-	-	17,4	5,6	8,0
14	24,6	23	18	20,5	23,0	15,5	7,6	10,0	5,0	1,2	-	-	-	17,4	5,6	8,0
15	24,6	24	19	20,5	24,0	15,5	8,6	11,0	5,0	1,2	-	-	-	17,4	6,6	9,0
16	28,0	26	21	22,0	26,5	17,5	9,0	11,5	6,5	1,5	16,5	10,0	12,5	19,5	7,5	9,5
18	30,0	29	23	24,0	28,5	18,5	10,0	12,5	6,5	1,5	18,0	10,5	13,5	20,5	8,0	10,5
20	35,0	31	26	29,5	29,5	20,0	9,5	12,5	6,5	1,5	19,0	10,5	13,5	22,0	7,5	10,0
22	35,0	33	28	29,5	31,0	21,5	9,5	12,5	6,5	1,5	20,5	10,5	13,5	23,5	7,5	10,0
24	38,0	35	30	32,0	32,5	23,0	9,5	12,5	6,5	1,5	22,0	10,5	13,5	25,0	7,5	10,0
25	38,0	36	31	32,0	34,0	24,5	9,5	12,5	6,5	1,5	23,5	10,5	13,5	26,5	7,5	10,0
26	40,0	37	32	34,0	34,5	24,5	10,0	13,0	6,5	1,5	23,5	11,0	14,0	26,5	8,0	10,5
28	42,0	40	35	36,0	35,5	24,5	11,0	14,0	6,5	1,5	24,5	11,0	14,0	26,5	9,0	11,5
30	45,0	43	37	39,2	35,5	24,5	11,0	14,0	6,5	1,5	24,5	11,0	14,0	25,0	10,5	13,0
32	48,0	46	39	42,2	39,0	28,0	11,0	14,0	6,5	1,5	28,0	11,0	14,0	28,5	10,5	13,0
35	52,0	49	43	46,2	39,5	28,0	11,5	14,5	6,5	1,5	28,0	11,5	14,5	28,5	11,0	13,5
38	55,0	53	47	49,2	42,5	31,0	11,5	14,5	6,5	1,5	31,0	11,5	14,5	32,2	10,3	13,0
40	58,0	56	49	52,2	45,5	34,0	11,5	14,5	6,5	1,5	34,0	11,5	14,5	34,7	10,8	13,5
42	62,0	59	52	53,3	49,3	35,0	14,3	17,0	8,0	2,0	35,0	14,3	17,0	37,3	12,0	14,5
45	64,0	61	55	55,3	50,8	36,5	14,3	17,0	8,0	2,0	36,5	14,3	17,0	39,2	11,6	14,5
48	68,4	64	58	59,7	56,3	42,0	14,3	17,0	8,0	2,0	42,0	14,3	17,0	44,7	11,6	14,5
50	69,3	66	61	60,8	57,3	43,0	14,3	17,0	8,0	2,0	43,0	14,3	17,0	45,7	11,6	14,5
55	75,4	71	66	66,5	62,3	47,0	15,3	18,0	8,0	2,0	47,0	15,3	18,0	49,0	13,3	16,0
58	78,4	76	69	69,5	65,3	50,0	15,3	18,0	8,0	2,0	50,0	15,3	18,0	52,0	13,3	16,0
60	80,4	78	71	71,5	66,3	51,0	15,3	18,0	8,0	2,0	51,0	15,3	18,0	53,0	13,3	16,0
65	85,4	84	77	76,5	67,3	52,0	15,3	18,0	8,0	2,0	52,0	15,3	18,0	54,3	13,0	16,0
68	91,5	88	80	82,7	69,0	53,0	16,0	19,0	8,0	2,0	52,7	16,3	19,0	55,3	13,7	16,0
70	92,0	90	83	83,0	69,3	54,0	15,3	18,0	8,0	2,0	54,0	15,3	18,0	56,3	13,0	16,0
75	99,0	98	88	90,2	70,3	55,0	15,3	18,0	8,0	2,0	54,0	16,3	19,0	56,3	14,0	17,0
80	104,0	100	93	95,2	74,3	58,0	16,3	19,0	8,0	2,0	58,0	16,3	19,0	59,3	15,0	17,5

NOTES:

1. Permissible installing deviations of the L dimension up to ± 1 mm.
2. When placing an order specify the shaft rotation direction.
(From the stationary seat face point of view the shaft rotates to the right, if it moves clockwise).
3. See pages 45-49 for stationary seats type
4. See pages 50-51 for seals designation and material codes



D300 mechanical seal with stationary seats type K1 and K2.

Can be produced with stationary seats type:

K5, K6, K8, K9