

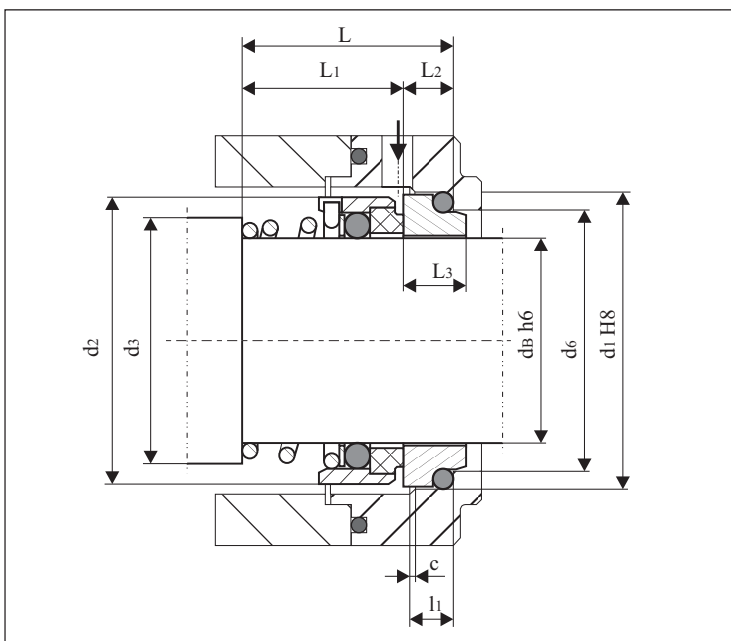


type

SINGLE  
MECHANICAL  
SEAL

# D320

Rotary ring with pressing mounted graphite ring unbalanced, with a central spring, dependent on the direction of rotation



### OPERATING PARAMETERS

Pressure:  $P = 1,0 \text{ MPa}$   
 Temperature:  $t = 180 \text{ }^\circ\text{C}$   
 Slide Speed:  $V_n = 20 \text{ m/s}$

### DESIGN'S CHARACTERISTICS

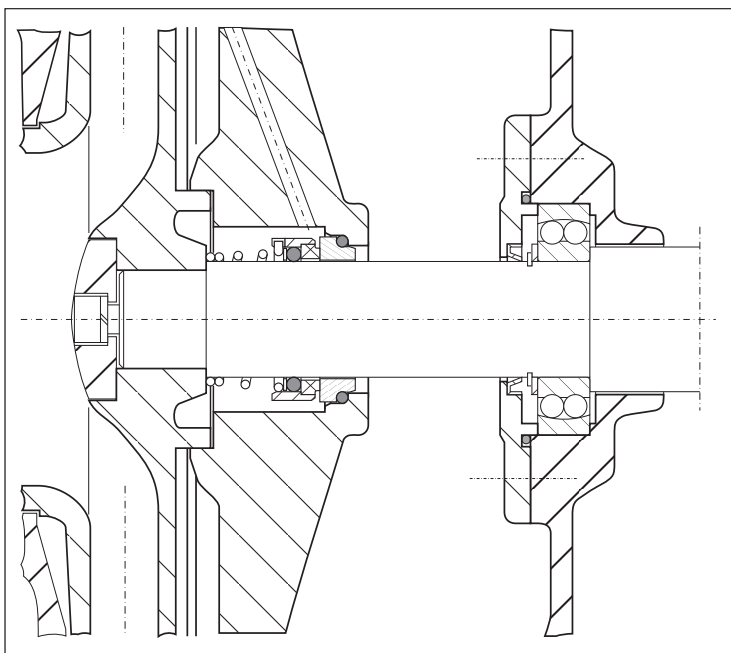
1. Face materials:

- Rotary ring – graphite;
- Stationary ring – ceramic, TC, SiC;
- Special stainless steels.

2. Secondary seals materials:

- NBR – till  $T = 90 \text{ }^\circ\text{C}$  (gasoline, oil);
- EPDM – till  $T = 120 \text{ }^\circ\text{C}$  (water, steam);
- FPM – Viton – till  $T = 220 \text{ }^\circ\text{C}$  (oil, aggressive solutions);
- PTFE – Teflon – till  $T = 240 \text{ }^\circ\text{C}$  (high aggressive solutions).

3. All metal parts are from special stainless steel.



Exemplary application of mechanical seals D320

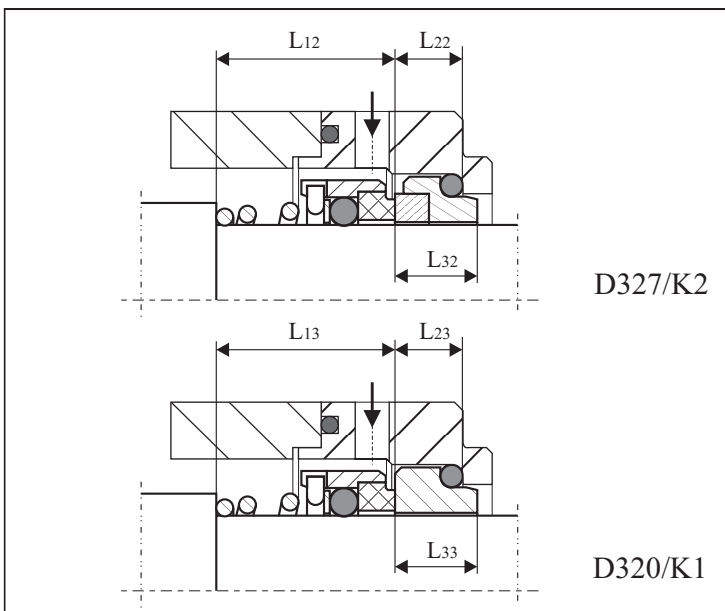
## MAIN DIMENSIONS (mm)

dB	d1	d2	d3	d6	L	L1	L2	L3	l1	C	L12	L22	L32	L13	L23	L33
6	16,0	16	8	11,5	16,5	11,9	5,6	8,0	5,0	1,2	-	-	-	10,5	7,1	9,0
8	19,2	18	11	15,5	22,5	16,9	7,0	8,0	5,0	1,2	-	-	-	15,5	7,1	9,0
10	19,2	20	13	15,5	22,5	16,9	6,6	8,0	5,0	1,2	-	-	-	15,5	7,1	9,0
12	21,6	22	16	17,5	23,0	17,4	5,6	8,0	5,0	1,2	-	-	-	15,5	7,6	10,0
14	24,6	24	18	20,5	23,0	17,4	5,6	8,0	5,0	1,2	-	-	-	15,5	7,6	10,0
15	24,6	25	19	20,5	24,0	17,4	6,6	9,0	5,0	1,2	-	-	-	15,5	8,6	11,0
16	28,0	26	21	22,0	26,5	19,5	7,5	9,5	6,5	1,5	16,5	10,0	12,5	17,5	9,0	11,5
18	30,0	31	23	24,0	28,5	20,5	8,0	10,5	6,5	1,5	18,0	10,5	13,5	18,5	10,0	12,5
20	35,0	34	26	29,5	29,5	22,0	7,5	10,0	6,5	1,5	19,0	10,5	13,5	20,0	9,5	12,5
22	35,0	36	28	29,5	31,0	23,5	7,5	10,0	6,5	1,5	20,5	10,5	13,5	21,5	9,5	12,5
24	38,0	38	30	32,0	32,5	25,0	7,5	10,0	6,5	1,5	22,0	10,5	13,5	23,0	9,5	12,5
25	38,0	39	31	32,0	34,0	26,5	7,5	10,0	6,5	1,5	23,5	10,5	13,5	24,5	9,5	12,5
26	40,0	40	32	34,0	34,5	26,5	8,0	10,5	6,5	1,5	23,5	11,0	14,0	24,5	10,0	13,0
28	42,0	42	35	36,0	35,5	26,5	9,0	11,5	6,5	1,5	24,5	11,0	14,0	24,5	11,0	14,0
30	45,0	44	37	39,2	35,5	25,0	10,5	13,0	6,5	1,5	24,5	11,0	14,0	24,5	11,0	14,0
32	48,0	46	39	42,2	39,0	28,5	10,5	13,0	6,5	1,5	28,0	11,0	14,0	28,0	11,0	14,0
35	52,0	49	43	46,2	39,5	28,5	11,0	13,5	6,5	1,5	28,0	11,5	14,5	28,0	11,5	14,5
38	55,0	54	47	49,2	42,5	32,2	10,3	13,0	6,5	1,5	31,0	11,5	14,5	31,0	11,5	14,5
40	58,0	56	49	52,2	45,5	34,7	10,8	13,5	6,5	1,5	34,0	11,5	14,5	34,0	11,5	14,5
42	62,0	58	52	53,3	49,3	37,3	12,0	14,5	8,0	2,0	35,0	14,3	17,0	35,0	14,3	17,0
45	64,0	61	55	55,3	50,8	39,2	11,6	14,5	8,0	2,0	36,5	14,3	17,0	36,5	14,3	17,0
48	68,4	64	58	59,7	56,3	44,7	11,6	14,5	8,0	2,0	42,0	14,3	17,0	42,0	14,3	17,0
50	69,3	66	61	60,8	57,3	45,7	11,6	14,5	8,0	2,0	43,0	14,3	17,0	43,0	14,3	17,0
55	75,4	71	66	66,5	62,3	49,0	13,3	16,0	8,0	2,0	47,0	15,3	18,0	47,0	15,3	18,0
58	78,4	78	69	69,5	65,3	52,0	13,3	16,0	8,0	2,0	50,0	15,3	18,0	50,0	15,3	18,0
60	80,4	79	71	71,5	66,3	53,0	13,3	16,0	8,0	2,0	51,0	15,3	18,0	51,0	15,3	18,0
65	85,4	85	77	76,5	67,3	54,3	13,0	16,0	8,0	2,0	52,0	15,3	18,0	52,0	15,3	18,0
68	91,5	88	80	82,7	69,0	55,3	13,7	16,0	8,0	2,0	52,7	16,3	19,0	53,0	16,0	19,0
70	92,0	90	83	83,0	69,3	56,3	13,0	16,0	8,0	2,0	54,0	15,3	18,0	54,0	15,3	18,0
75	99,0	98	88	90,2	70,3	56,3	14,0	17,0	8,0	2,0	54,0	16,3	19,0	55,0	15,3	18,0
80	104,0	103	93	95,2	74,3	59,3	15,0	17,5	8,0	2,0	58,0	16,3	19,0	58,0	16,3	19,0

### REMARKS:

1. Tolerances of L1 = +/- 1 mm.

2. When ordering please define direction of shaft's rotation (View of stationary ring's side – the shaft is with right direction of rotation if it rotates clockwise direction).



D320 manufactured with stationary ring type: K1 and K2

After ordering it is possible to be produced with stationary ring type: K3, K4, K5, K6, K8, K9, K10, K11, K12