

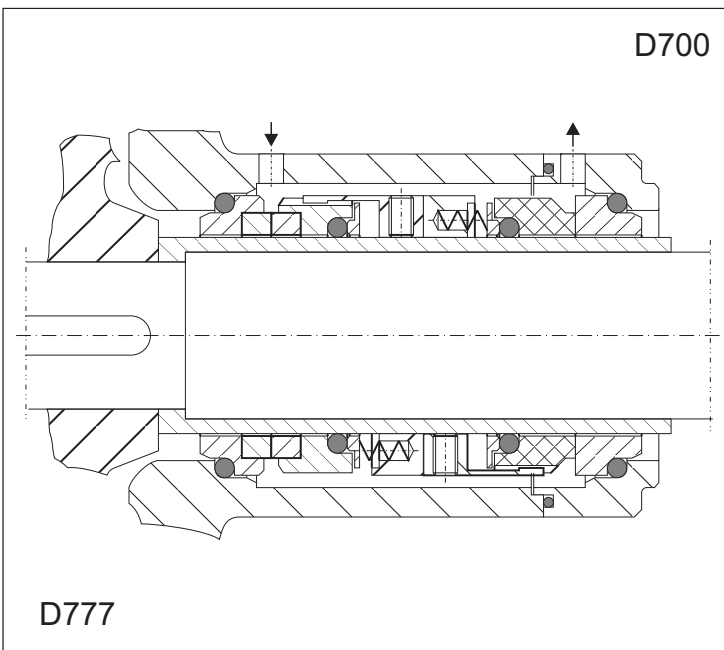
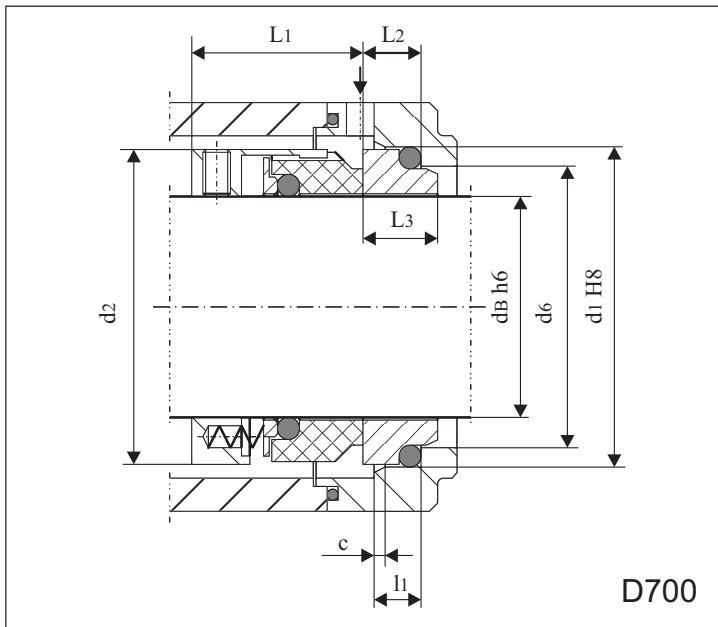


SINGLE  
MECHANICAL  
SEAL

type

**D7\_\_**

Multiple hidden springs construction, unbalanced, not dependant on the direction of rotation



**OPERATING PARAMETERS**

Pressure:	P = 2,5 MPa
Temperature:	t = 220 °C
Slide Speed:	Vn = 20 m/s
D777	Vn = 10 m/s

**DESIGN'S CHARACTERISTICS**

1. Face materials:

- Graphite;
- Ceramic;
- Tungsten Carbide;
- Silicon Carbide.

2. Secondary seals materials:

- NBR – till T = 90 °C (gasoline, oil);
- EPDM – till T = 120 °C (water, steam);
- FPM – Viton – till T = 220 °C (oil, aggressive solutions);
- PTFE – Teflon – till T = 240°C (high aggressive solutions).

3. All metal parts are from special stainless steel.

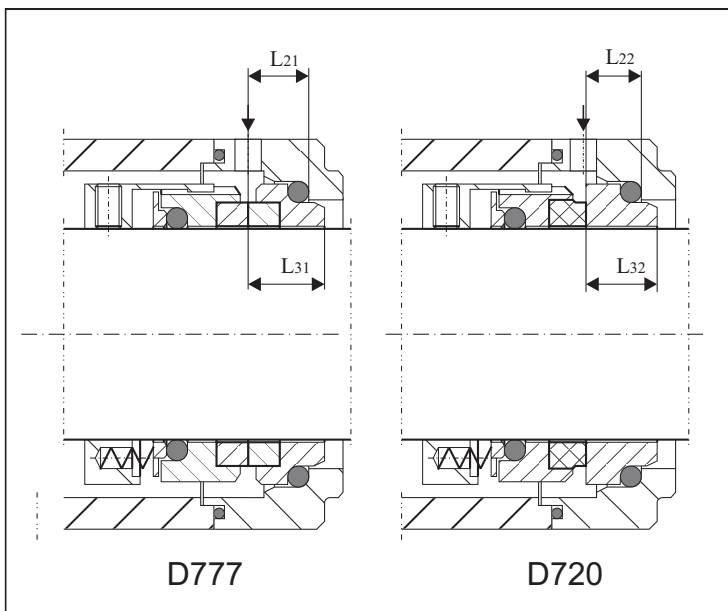
System double mechanical seals “back to back” made with D777 and D700

## MAIN DIMENSIONS (mm)

dB	d1	d2	d6	L1	L2	L3	l1	C	L21	L31	L22	L32
18	30,0	33	24,0	26,0	8,0	9,5	6,5	1,5	10,5	12,5	-	-
20	35,0	35	29,5	26,0	7,5	10,5	6,5	1,5	10,5	13,5	-	-
22	35,0	37	29,5	26,0	7,5	10,0	6,5	1,5	10,5	13,5	-	-
24	38,0	39	32,0	28,5	7,5	10,0	6,5	1,5	10,5	13,5	-	-
25	38,0	40	32,0	28,5	7,5	10,0	6,5	1,5	10,5	13,5	-	-
28	42,0	43	36,0	31,0	9,0	10,0	6,5	1,5	11,0	13,5	-	-
30	45,0	45	39,2	31,0	10,5	10,5	6,5	1,5	11,0	14,0	-	-
32	48,0	47	42,2	31,0	10,5	11,5	6,5	1,5	11,0	14,0	-	-
33	50,0	48	44,2	31,0	10,5	13,0	6,5	1,5	11,0	14,0	-	-
35	52,0	50	46,2	31,0	11,0	13,5	6,5	1,5	11,5	14,0	-	-
38	55,0	55	49,2	31,0	10,3	13,5	6,5	1,5	11,5	14,5	-	-
40	58,0	57	52,2	31,0	10,8	13,0	6,5	1,5	11,5	14,5	-	-
43	62,0	60	53,3	31,0	12,0	14,5	8,0	2,0	14,3	17,0	-	-
45	64,0	62	55,3	31,0	11,6	14,5	8,0	2,0	14,3	17,0	-	-
48	68,4	65	59,7	31,0	11,6	14,5	8,0	2,0	14,3	17,0	-	-
50	69,3	67	60,8	32,5	11,6	14,5	8,0	2,0	14,3	17,0	14,3	17,0
53	72,3	70	63,8	32,5	12,3	14,5	8,0	2,0	14,3	17,0	14,3	17,0
55	75,4	72	66,5	32,5	13,3	16,0	8,0	2,0	15,3	18,0	15,3	18,0
58	78,4	79	69,3	37,5	13,3	16,0	8,0	2,0	15,3	18,0	15,3	18,0
60	80,4	81	71,5	37,5	13,3	16,0	8,0	2,0	15,3	18,0	15,3	18,0
63	83,4	84	74,5	37,5	13,3	16,0	8,0	2,0	15,3	18,0	15,3	18,0
65	85,4	86	76,5	37,5	13,0	16,0	8,0	2,0	15,3	18,0	15,3	18,0
68	91,5	89	82,7	34,5	13,7	16,0	8,0	2,0	16,3	19,0	16,3	19,0
70	92,0	91	83,0	42,0	13,0	16,0	8,0	2,0	15,3	18,0	15,3	18,0
75	99,0	99	90,2	42,0	14,0	17,0	8,0	2,0	16,3	19,0	16,3	18,0
80	104,0	104	95,2	41,8	15,0	17,5	8,0	2,0	16,3	19,0	16,3	19,0
85	109,0	109	100,2	41,8	14,8	17,5	8,0	2,0	17,3	19,0	17,3	19,0
90	114,0	114	105,5	46,8	14,8	17,5	8,0	2,0	17,3	19,0	17,3	19,0
95	120,3	119	111,6	47,8	15,8	18,5	8,0	2,0	18,3	20,0	18,3	20,0
100	123,3	124	114,5	47,8	15,8	18,5	8,0	2,0	18,3	20,0	18,3	20,0

### REMARKS:

1. Tolerances of L1 = +/- 0,5 mm.
2. The seals type D720 and D777 are made for shaft  $d \geq 50$  mm.



It is recommended to use stationary rings type:  
K1,K2,K7,K8,K9,K10,K11,K12,K13