

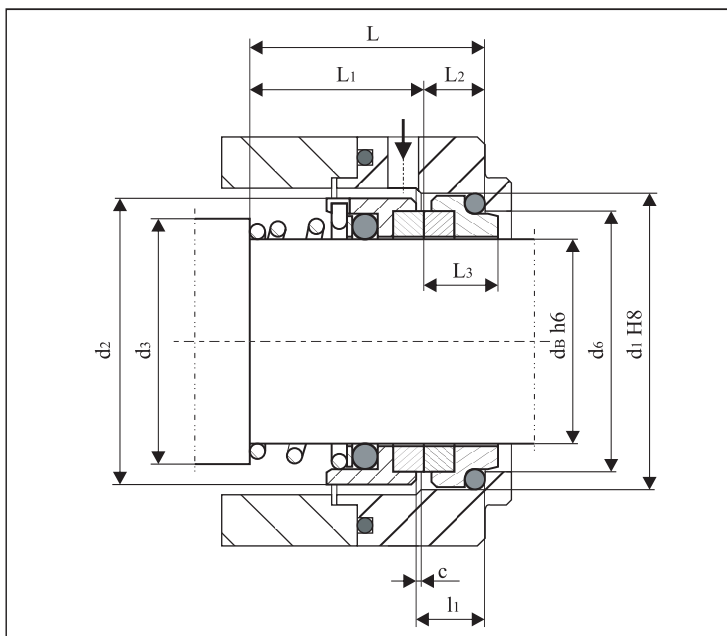


type

SINGLE
MECHANICAL
SEAL

D377

ALL DIMENSIONS ACC. TO
EN 12756 (DIN 24960)



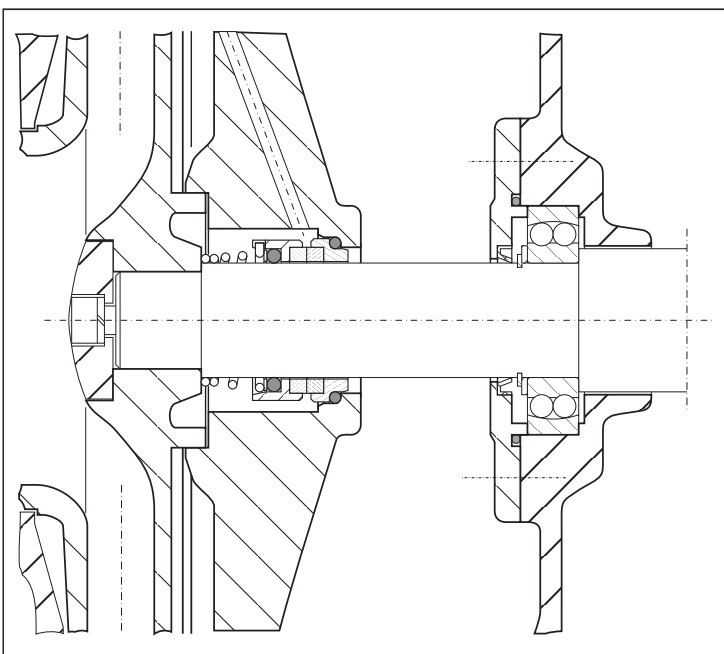
Rotary parts with shrink-fitted tungsten carbide rings, unbalanced, with single spring, dependent on direction of rotation.

OPERATING LIMITS

Pressure	- P=1,0 MPa
Temperature	- t= 240°C
Sliding speed	- V _n = 20 m/s

DESIGN FEATURES

- Sealing faces materials:
 - rotary and stationary part from tungsten carbide
- Secondary seals materials:
 - NB-rubber up to t=90°C (petrol, oil)
 - EP-rubber up to t=130°C (water, steam)
 - FPM - up to t=200°C (oil, corrosive solutions)
 - PTFE - up to t=240°C (highly corrosive solutions)
 - FEP Encapsulated - up to t=205°C
 - PFA Encapsulated - up to t=260°C
- All metal parts are made of stainless steel



An example D377 seal mounting scheme.

GENERAL DIMENSIONS (mm)

d_A	d_1	d_2	d_3	d_6	L	L_1	L_2	L_3	l_1	C	L_{12}	L_{22}	L_{32}
16	28,0	26	21	22,0	26,5	16,5	10,0	12,5	6,5	1,5	17,5	9,0	11,5
18	30,0	31	23	24,0	28,5	18,0	10,5	13,5	6,5	1,5	18,5	10,0	12,5
20	35,0	34	26	29,5	29,5	19,0	10,5	13,5	6,5	1,5	20,0	9,5	12,5
22	35,0	36	28	29,5	31,0	20,5	10,5	13,5	6,5	1,5	21,5	9,5	12,5
24	38,0	38	30	32,0	32,5	22,0	10,5	13,5	6,5	1,5	23,0	9,5	12,5
25	38,0	39	31	32,0	34,0	23,5	10,5	13,5	6,5	1,5	24,5	9,5	12,5
26	40,0	40	32	34,0	34,5	23,5	11,0	14,0	6,5	1,5	24,5	10,0	13,0
28	42,0	42	35	36,0	35,5	24,5	11,0	14,0	6,5	1,5	24,5	11,0	14,0
30	45,0	44	37	39,2	35,5	24,5	11,0	14,0	6,5	1,5	24,5	11,0	14,0
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
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
38	55,0	54	47	49,2	42,5	31,0	11,5	14,5	6,5	1,5	31,0	11,5	14,5
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
42	62,0	58	52	53,3	49,3	35,0	14,3	17,0	8,0	2,0	35,0	14,3	17,0
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
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
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
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
58	78,4	78	69	69,5	65,3	50,0	15,3	18,0	8,0	2,0	50,0	15,3	18,0
60	80,4	79	71	71,5	66,3	51,0	15,3	18,0	8,0	2,0	51,0	15,3	18,0
65	85,4	85	77	76,5	67,3	52,0	15,3	18,0	8,0	2,0	52,0	15,3	18,0
68	91,5	88	80	82,7	69,0	52,7	16,3	19,0	8,0	2,0	53,0	16,0	19,0
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
75	99,0	98	88	90,2	70,3	54,0	16,3	19,0	8,0	2,0	55,0	15,3	18,0
80	104,0	103	93	95,2	74,3	58,0	16,3	19,0	8,0	2,0	58,0	16,3	19,0

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

Can be produced with stationary seats
type:

K4, K6, K8, K9, K10, K13