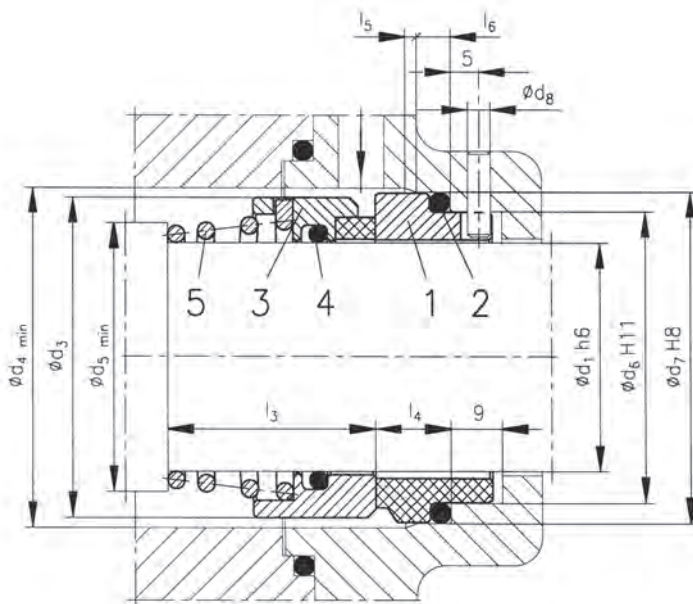


- Single mechanical seal
- Unbalanced
- Dependent of the direction of shaft rotation
- With central tapered spring

Operating limits*		
Pressure	$p_{max}$	1.0 MPa
Temperature	$t_{max}$	200 °C
Speed	$v_{max}$	20 m/s (4000 rpm)

\* - see note on page 3.



## Legend

- |                    |           |
|--------------------|-----------|
| 1. Stationary ring | 4. O-ring |
| 2. O-ring          | 5. Spring |
| 3. Rotating ring   |           |

## Application

General purpose mechanical seal for use in centrifugal pumps and other equipment with rotating shaft handling water, oils, fuels, mild chemicals and liquids containing low quantity of abrasives.

## Note

Type A3 seal with conical spring is dependent on the direction of the shaft rotation. Looking at the sliding face of the rotating seal ring, a righthanded shaft rotation needs a right handed spring (A3R - clockwise) and vice-versa (A3L - anticlockwise).

## Materials

Part	Code
Rotating ring	A, B, U, Q
Stationary ring	A, B, U2, Q, V, S
Secondary, flexible seals	E, P, V
Spring	G
Other metal parts	F, G

## Dimensions (mm)

D1	D3	D4	D5	D6	D7	D8	L3*	L4	L5	L6
12	22	24	15	19	23	3	21,0	10,0	1,5	4
14	24	26	18	21	25	3	24,0	10,0	1,5	4
15	27	29	20	22	26	3	25,0	10,0	1,5	4
16	27	29	20	23	27	3	26,0	10,0	1,5	4
18	32	34	22	27	33	3	26,0	11,5	2,0	5
19	32	34	23	28	34	3	26,0	11,5	2,0	5
20	34	36	24	29	35	3	26,0	11,5	2,0	5
22	36	38	27	31	37	3	26,0	11,5	2,0	5
24	38	40	29	33	39	3	28,5	11,5	2,0	5
25	39	41	30	34	40	3	28,5	11,5	2,0	5
28	42	44	33	37	43	3	31,0	11,5	2,0	5
30	44	46	35	39	45	3	31,0	11,5	2,0	5
32	46	48	38	42	48	3	31,0	11,5	2,0	5
33	47	49	39	42	48	3	31,0	11,5	2,0	5
35	49	51	41	44	50	3	31,0	11,5	2,0	5
38	54	58	45	49	56	4	36,5	14,0	2,0	6
40	56	60	47	51	58	4	36,5	14,0	2,0	6
43	59	63	50	54	61	4	39,5	14,0	2,0	6
45	61	65	52	56	63	4	39,5	14,0	2,0	6
48	64	68	55	59	66	4	39,5	14,0	2,0	6
50	66	70	58	62	70	4	40,5	15,0	2,5	6
53	69	73	61	65	73	4	40,5	15,0	2,5	6
55	71	75	64	67	75	4	46,5	15,0	2,5	6
58	78	83	67	70	78	4	49,0	15,0	2,5	6
60	80	85	70	72	80	4	51,0	15,0	2,5	6
63	83	88	73	75	83	4	51,0	15,0	2,5	6
65	85	90	76	77	85	4	55,0	15,0	2,5	6
68	88	93	79	81	90	4	55,0	15,0	2,5	7
70	90	95	81	83	92	4	55,0	17,0	2,5	7
75	99	104	87	88	97	4	58,0	17,0	2,5	7
80	104	109	92	95	105	4	58,0	17,0	3,0	7

\* tolerance of  $L_3$  dimension for  $d_1 = 10 \div 30 \text{ mm} \pm 0.5 \text{ mm}$   
 $d_1 = 32 \div 50 \text{ mm} \pm 0.8 \text{ mm}$   
 $d_1 = 53 \div 100 \text{ mm} \pm 1.0 \text{ mm}$   
 Other dimensions are available as an option. Please contact ANGA.