

# RN / LS60 and RN.NU / LS60DIN



### COMPONENTS:

- 1 Rotating contact surface
- 2 Stationary contact surface
- 3 O-rings
- 3a O-rings
- 4 Spring
- 5 Metal frame
- A Spacer not provided with the seal

### SECTORS:



### CHARACTERISTICS:

- Unbalanced.
- Single conical spring.
- Dependent on the rotation direction.

### OPERATING LIMITS:

$d_1 = 10 \div 140 \text{ mm}$      $p = 10 \text{ kg/cm}^2$   
 $v = 20 \text{ m/s}$                        $t = -20 \div +200^\circ\text{C}$  (\*)

(\*) The temperature resistance depends on the material of the secondary seals used.

The operating limits are defined by the PV factor which is determined for the sealing system characteristics and those of the application.

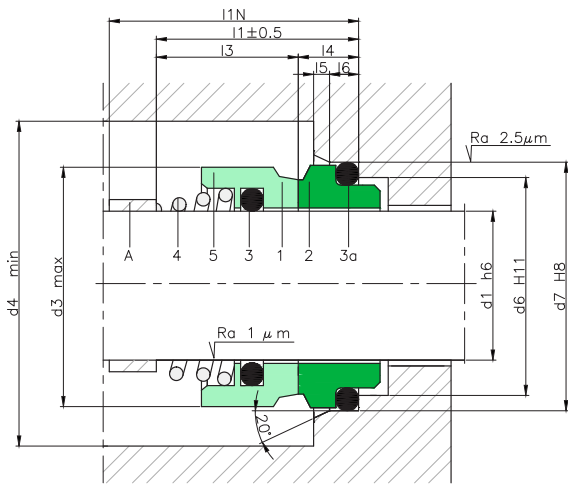
### DESCRIPTION:

A versatile, robust single seal that is widely used in many different industrial and household applications. The rotating part, with a compact design, only permits the use of secondary seals made of elastic materials. If it should be necessary to use secondary seals made of PTFE for reasons related to temperature, the RN6 model is recommended.

Types:

RN6 and RN6 DIN: Secondary seals made of PTFE and contact surfaces in GB.

RN.NU / LS60DIN: standardised models in accordance with EN 12756 NU.



### DIMENSIONS CHART RN / LS60

Dimensions in mm

Shaft	Rotary part			Stationary part						Total length
mm	d <sub>3</sub>	d <sub>4</sub>	l <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>1</sub>	
10	19.0	23.0	15	14.0	18.1	5.5	1.2	3	20.5	
11	21.0	25.0	18	16.5	20.6	5.5	1.2	3	23.5	
12	21.0	25.0	18	16.5	20.6	5.5	1.2	3	23.5	
13	23.0	27.0	22	19.0	23.1	6.0	1.2	3	28.0	
14	23.0	27.0	22	19.0	23.1	6.0	1.2	3	28.0	
15	24.0	28.0	22	21.0	26.9	7.0	1.5	4	29.0	
16	26.0	30.0	23	21.0	26.9	7.0	1.5	4	30.0	
17	26.0	30.0	23	22.0	26.9	7.0	1.5	4	30.0	
18	29.0	33.0	24	25.0	30.9	8.0	1.5	4	32.0	
19	31.0	35.0	25	25.0	30.9	8.0	1.5	4	33.0	
20	31.0	35.0	25	25.0	30.9	8.0	1.5	4	33.0	
21	33.0	37.0	25	30.0	35.4	8.0	2.0	4	33.0	
22	33.0	37.0	25	30.0	35.4	8.0	2.0	4	33.0	
23	35.0	39.0	27	30.0	35.4	8.0	2.0	4	35.0	
24	35.0	39.0	27	30.0	35.4	8.0	2.0	4	35.0	
25	36.0	40.0	27	33.0	38.2	8.5	2.0	4	35.5	
26	36.0	40.0	27	33.0	38.2	8.5	2.0	4	35.5	
27	36.0	40.0	27	33.0	38.2	8.5	2.0	4	35.5	
28	40.0	44.0	29	38.0	43.3	9.0	2.0	4	38.0	
29	43.0	47.0	30	38.0	43.3	9.0	2.0	4	39.0	
30	43.0	47.0	30	38.0	43.3	9.0	2.0	4	39.0	
31	46.0	50.0	30	38.0	43.3	9.0	2.0	4	39.0	
32	46.0	50.0	30	38.0	43.3	9.0	2.0	4	39.0	
33	46.0	50.0	39	45.0	53.5	11.5	2.0	6	50.5	
34	49.0	53.0	39	45.0	53.5	11.5	2.0	6	50.5	
35	49.0	53.0	39	45.0	53.5	11.5	2.0	6	50.5	
36	49.0	53.0	39	45.0	53.5	11.5	2.0	6	50.5	
37	49.0	53.0	39	45.0	53.5	11.5	2.0	6	50.5	
38	53.0	57.0	39	52.0	60.5	11.5	2.0	6	50.5	
39	56.0	60.0	39	52.0	60.5	11.5	2.0	6	50.5	
40	56.0	60.0	39	52.0	60.5	11.5	2.0	6	50.5	
41	56.0	60.0	39	52.0	60.5	11.5	2.0	6	50.5	
42	59.0	63.0	39	52.0	60.5	11.5	2.0	6	50.5	
43	59.0	63.0	41	57.0	60.5	11.5	2.0	6	52.5	
44	60.0	64.0	41	57.0	65.5	11.5	2.0	6	52.5	
45	61.0	65.0	41	57.0	65.5	11.5	2.0	6	52.5	
46	61.0	65.0	41	57.0	65.5	11.5	2.0	6	52.5	
47	64.0	68.0	41	57.0	65.5	11.5	2.0	6	52.5	
48	64.0	68.0	41	57.0	65.5	11.5	2.0	6	52.5	
49	64.0	68.0	41	57.0	65.5	11.5	2.0	6	52.5	
50	66.0	70.0	45	64.0	72.5	11.5	2.0	6	56.5	
55	71.0	75.0	47	64.0	72.5	11.5	2.0	6	58.5	
60	78.0	82.0	49	72.0	79.3	11.5	2.0	6	60.5	
65	84.0	88.0	51	77.0	84.5	11.5	2.0	6	62.5	
70	89.6	93.6	51	82.0	89.5	11.5	2.0	6	62.5	
75	98.0	102.0	57	87.0	94.5	11.5	2.0	6	68.5	
80	100.0	104.0	59	92.0	99.5	11.5	2.0	6	70.5	
85	107.5	111.5	59	98.0	105.5	13.5	2.5	6	72.5	
90	111.0	115.0	62	105.0	111.5	13.5	2.5	6	75.5	
95	119.0	123.0	62	110.0	116.5	13.5	2.5	6	75.5	
100	123.8	127.8	75	114.0	119.5	13.5	2.5	6	88.5	
110	136.0	140.0	75	124.0	132.2	17.5	4.0	7	92.5	
120	148.0	152.0	85	134.0	142.2	17.5	4.0	7	102.5	
130	160.0	164.0	95	145.0	153.2	17.5	4.0	7	112.5	
135	166.0	170.0	95	152.0	161.2	18.5	4.0	7	113.5	
140	171.0	175.0	100	157.0	164.3	18.5	4.0	7	118.5	

Dimensions subject to changes or modifications.

### DIMENSIONS CHART RN.NU / LS60DIN

Dimensions in mm

Shaft	Rotary part			Stationary part						Total length
mm	d <sub>3</sub>	d <sub>4</sub>	l <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>1N</sub>	l <sub>1</sub>
10	19.0	22	15	17	21	7	1.5	4	40	22
12	21.0	24	18	19	23	7	1.5	4	40	25
14	23.0	26	22	21	25	7	1.5	4	40	29
16	26.0	28	23	23	27	7	1.5	4	40	30
18	29.0	34	24	27	33	10	2.0	4	45	34
20	31.0	36	25	29	35	10	2.0	5	45	35
22	33.0	38	25	31	37	10	2.0	5	45	35
24	35.0	40	27	33	39	10	2.0	5	50	37
25	36.0	41	27	34	40	10	2.0	5	50	37
28	40.0	44	29	37	43	10	2.0	5	50	39
30	43.0	46	30	39	45	10	2.0	5	50	40
32	46.0	48	30	42	48	10	2.0	5	55	40
33	46.0	49	39	42	48	10	2.0	5	55	49
35	49.0	51	39	44	50	10	2.0	5	55	49
38	53.0	58	42	49	56	13	2.0	6	55	55
40	56.0	60	42	51	58	13	2.0	6	55	55
43	59.0	63	47	54	61	13	2.0	6	60	60
45	61.0	65	47	56	63	13	2.0	6	60	60
48	64.0	68	47	59	66	13	2.0	6	60	60
50	66.0	70	46	62	70	14	2.5	6	60	60
53	69.0	73	56	65	73	14	2.5	6	70	70
55	71.0	75	56	67	75	14	2.5	6	70	70
58	76.0	83	56	70	78	14	2.5	6	70	70
60	78.0	85	56	72	80	14	2.5	6	70	70
63	81.0	88	56	75	83	14	2.5	6	70	70
65	84.0	90	66	77	85	14	2.5	6	80	80
68	88.0	93	64	81	90	16	2.5	7	80	80
70	89.6	95	64	83	92	16	2.5	7	80	80
75	98.0	104	64	88	97	16	2.5	7	80	80
80	100.0	109	72	95	105	18	3.0	7	90	90
85	107.5	114	72	100	110	18	3.0	7	90	90
90	111.0	119	72	105	115	18	3.0	7	90	90
95	119.0	124	72	110	120	18	3.0	7	90	90
100	123.8	129	72	115	125	18	3.0	7	90	90