

### CUT profile data

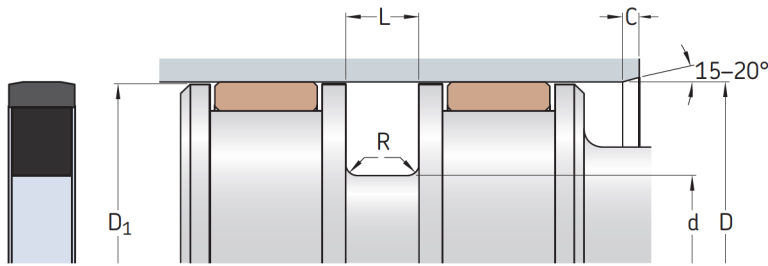


<b>Materials</b>	Slide ring: PA66/6011 Energizer: NBR N70/6015 For additional information → <b>page 26</b>
<b>Pressure</b>	Up to 500 bar (7 250 psi)
<b>Speed</b>	Up to 1 m/s (3.2 ft/s)
<b>Temperature range</b>	<p>For temperature limits depending on fluid compatibility → <b>table 8, page 32</b></p> <ul style="list-style-type: none"> <li><span style="color: blue;">■</span> Extreme low temperature range: may be intermittently exposed (e.g. cold start-up) without seal damage, but seal performance may be compromised while in this range</li> <li><span style="color: gray;">■</span> Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended)</li> <li><span style="color: green;">■</span> <b>Recommended operating temperature range for this profile and material</b></li> <li><span style="color: yellow;">■</span> Temperatures above the recommended operating range: acceptable only with reduced pressure and/or speed</li> <li><span style="color: red;">■</span> Extreme high temperature range: only occasional short term exposure</li> </ul>
<b>Dimension standards</b>	Some sizes fit seal housings in accordance with ISO 7425-1.
<b>Counter-surface</b>	→ <b>page 22</b>

Maximum values of application parameters (e.g. pressure, speed, temperature, e-gap) should not be applied continuously nor simultaneously.

## 2.9 CUT profile piston seals, metric sizes

D 40 – 140 mm



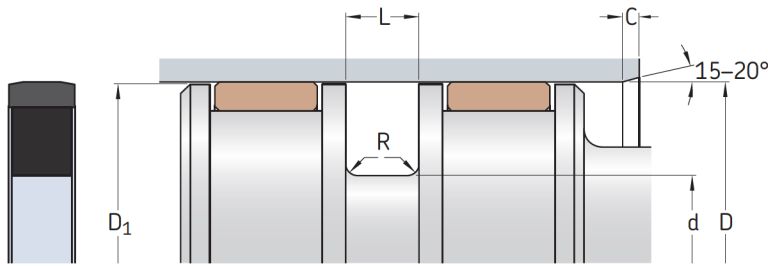
2.9

Cylinder dimensions						Designation
D	d	L	D <sub>1</sub>	R	C	
H9	h9	+0,2		max.	min.	
mm						–
40	29	4,2	39,2	0,3	7	• CUT 40x29x4.2
50	34,5	6,3	49	0,5	10	• CUT 50x34.5x6.3
	39	4,2	49,2	0,3	7	• CUT 50x39x4.2
60	41,7	7,0	59	0,5	10	CUT 60x41.7x7
63	44,7	7,0	62	0,5	10	CUT 63x44.7x7
	47,5	6,3	62	0,5	10	• CUT 63x47.5x6.3
65	49,5	6,3	64	0,5	10	CUT 65x49.5x6.3
70	51,7	7,0	69	0,5	10	CUT 70x51.7x7
75	54	8,1	73,8	0,9	12	CUT 75x54x8.1
	59,5	6,3	74	0,5	10	CUT 75x59.5x6.3
80	59	8,1	78,8	0,9	12	CUT 80x59x8.1
	64,5	6,3	79	0,5	10	• CUT 80x64.5x6.3
90	69	8,1	88,8	0,9	12	CUT 90x69x8.1
	74,5	6,3	89	0,5	10	CUT 90x74.5x6.3
100	79	8,1	98,8	0,9	12	CUT 100x79x8.1
	84,5	6,3	99	0,5	10	• CUT 100x84.5x6.3
110	89	8,1	108,8	0,9	12	CUT 110x89x8.1
115	94	8,1	113,8	0,9	12	CUT 115x94x8.1
120	99	8,1	118,8	0,9	12	CUT 120x99x8.1
125	104	8,1	123,8	0,9	12	• CUT 125x104x8.1
	109,5	6,3	124	0,5	10	• CUT 125x109.5x6.3
130	109	8,1	128,8	0,9	12	CUT 130x109x8.1
140	119	8,1	138,8	0,9	12	CUT 140x119x8.1

• Seal housing dimensions in accordance with ISO 7425-1

## 2.9 CUT profile piston seals, metric sizes

D 150 – 320 mm



Cylinder dimensions						Designation
D H9	d h9	L +0,2	D <sub>1</sub>	R max.	C min.	
mm						–
150	129	8,1	148,8	0,9	12	CUT 150x129x8.1
160	139	8,1	158,8	0,9	12	• CUT 160x139x8.1
170	149	8,1	168,8	0,9	12	CUT 170x149x8.1
180	159	8,1	178,8	0,9	12	CUT 180x159x8.1
190	169	8,1	188,8	0,9	12	CUT 190x169x8.1
200	179	8,1	198,8	0,9	12	• CUT 200x179x8.1
210	189	8,1	198,8	0,9	12	CUT 210x189x8.1
220	199	8,1	218,8	0,9	12	CUT 220x199x8.1
230	209	8,1	228,8	0,9	12	CUT 230x209x8.1
240	219 225	8,1 8,1	238,8 239	0,9 0,9	12 12	CUT 240x219x8.1 CUT 240x225x8.1
250	229	8,1	248,8	0,9	12	• CUT 250x229x8.1
260	239	8,1	258,8	0,9	12	CUT 260x239x8.1
280	255,5	8,1	278,8	0,9	12	CUT 280x255.5x8.1
320	292	9,5	318,4	0,9	15	CUT 320x292x9.5

Other sizes are available on request

• Seal housing dimensions in accordance with ISO 7425-1