


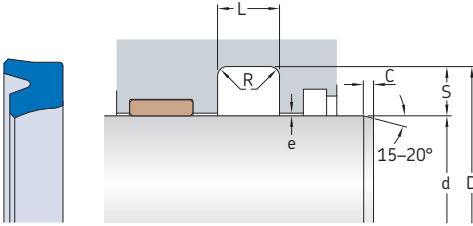
## S1S profile data



<b>Materials</b>	ECOPUR
<b>Pressure</b>	Up to 400 bar (5 800 psi)
<b>Speed</b>	Up to 1 m/s (3.2 ft/s)
<b>Temperature range</b>	 <p> <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  <span style="color: grey;">■</span> Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended)  <span style="color: green;">■</span> <b>Recommended operating temperature range for this profile and material</b>  <span style="color: yellow;">■</span> Temperatures above the recommended operating range: acceptable only with reduced pressure, speed, e-gap and/or with the use of a full-face anti-extrusion ring  <span style="color: red;">■</span> Extreme high temperature range: only occasional short term exposure (e.g. cylinder in curing oven of a powder coating process)         </p>
<b>Dimension standards</b>	Some sizes fit seal housings in accordance with ISO 5597.

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

**S1S profile rod seals, metric sizes**  
**d 18 – 110 mm**



**Maximum extrusion gap e**

Radial depth	$e_{max}$ at 80 °C (175 °F) for pressures		
	160 bar	250 bar	400 bar
5	160 bar	250 bar	400 bar
mm	mm		
<b>4</b>	0,4	0,3	0,15
<b>5</b>	0,5	0,4	0,2
<b>7,5</b>	0,55	0,45	0,25
<b>10</b>	0,6	0,5	0,3

**Cylinder dimensions**

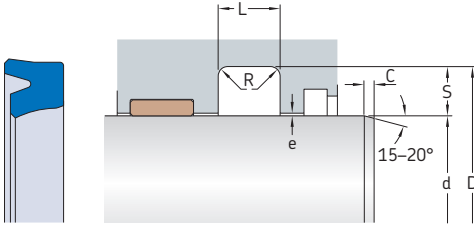
**Designation**

d f8	D H10	L +0,2	S	R max.	C min.	
mm						-
<b>18</b>	26	6,3	4	0,4	3,5	• S1S-18x26x6.3
<b>20</b>	28	6,3	4	0,4	3,5	S1S-20x28x6.3
<b>25</b>	33 35	6 8	4 5	0,4 0,4	3,5 4	S1S-25x33x6 • S1S-25x35x8
<b>28</b>	38	8	5	0,4	4	• S1S-28x38x8
<b>30</b>	40	7	5	0,4	4	S1S-30x40x7
<b>32</b>	42	8	5	0,4	4	• S1S-32x42x8
<b>35</b>	45	7	5	0,4	4	S1S-35x45x7
<b>36</b>	46	8	5	0,4	4	• S1S-36x46x8
<b>40</b>	50	8	5	0,4	4	• S1S-40x50x8
<b>45</b>	55	8	5	0,4	4	• S1S-45x55x8
<b>50</b>	60 65	8 10	5 7,5	0,4 0,4	4 5	S1S-50x60x8 • S1S-50x65x10
<b>55</b>	65 70	10 10	5 7,5	0,4 0,4	4 5	S1S-55x65x10 S1S-55x70x10
<b>63</b>	78	10	7,5	0,4	5	• S1S-63x78x10
<b>75</b>	85	12,4	5	0,4	4	S1S-75x85x12.4
<b>80</b>	95 95	10 12,4	7,5 7,5	0,4 0,4	5 5	• S1S-80x95x10 S1S-80x95x12.4
<b>90</b>	105	10	7,5	0,4	5	• S1S-90x105x10
<b>100</b>	115	10	7,5	0,4	5	• S1S-100x115x10
<b>110</b>	125	10	7,5	0,4	5	• S1S-110x125x10

• Dimensions in accordance with ISO 5597

### 3.1 S1S profile rod seals, metric sizes

d 125 – 240 mm



#### Maximum extrusion gap e

Radial depth	e <sub>max</sub> at 80 °C (175 °F) for pressures		
	160 bar	250 bar	400 bar
5	0,4	0,3	0,15
mm	mm	mm	mm
4	0,4	0,3	0,15
5	0,5	0,4	0,2
7,5	0,55	0,45	0,25
10	0,6	0,5	0,3

#### Cylinder dimensions

#### Designation

d	D	L	S	R	C	Designation
f8	H10	+0,2		max.	min.	
mm						-
125	145	16	10	0,4	6	S1S-125x145x16
140	155	10	7,5	0,4	5	• S1S-140x155x10
160	180	16	10	0,4	6	S1S-160x180x16
180	200	14	10	0,4	6	• S1S-180x200x14
200	220	14	10	0,4	6	• S1S-200x220x14
240	260	16	10	0,4	6	S1S-240x260x16

Other sizes are available on request



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• Dimensions in accordance with ISO 5597