



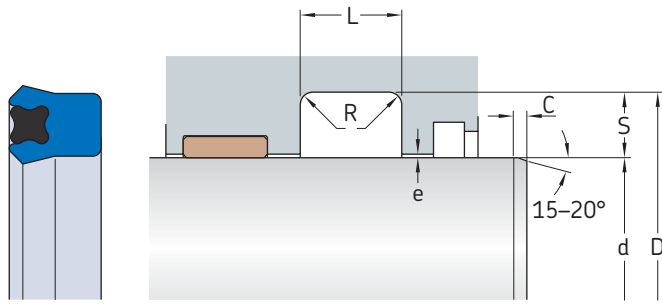
## PTB profile data



<b>Material codes</b>	Sealing ring: U-1003 X-ring: A-8501
<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>-50 -40 -30 100 110 120 [°C] -60 -40 -20 210 230 250 [°F]</p> <ul style="list-style-type: none"><li> 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> Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended)</li><li> <b>Recommended operating temperature range for this profile and material</b></li><li> 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</li><li> Extreme high temperature range: only occasional short-term exposure (e.g. cylinder in curing oven of a powder coating process)</li></ul>
<b>Dimension standards</b>	Some metric 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.

**PTB profile rod seals, metric sizes**  
d 8 – 17 mm



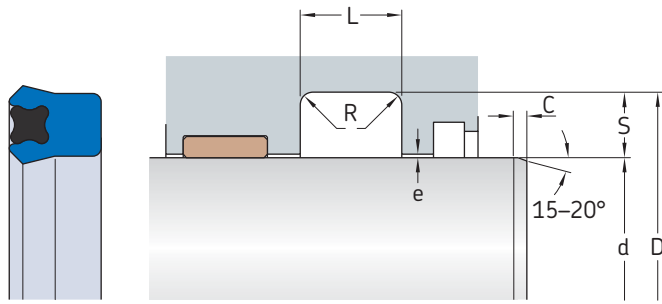
**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
3	0,2	0,1	–
3,5 to 4	0,35	0,2	–
4,5 to 6,5	0,45	0,25	0,1
7 to 8	0,5	0,3	0,15
9 to 11,5	0,55	0,3	0,15
12,5	0,6	0,3	0,2
15	0,6	0,3	0,2

Dimensions						Designation
d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
8	16	6,3	4	0,2	6	• PTB-8x16x6.3-J1S
9	17	6,3	4	0,2	6	PTB-9x17x6.3-J1S
	19	8,8	5	0,2	6	PTB-9x19x8.8-J1S
10	16	6,6	3	0,2	6	PTB-10x16x6.6-J1S
	18	6,3	4	0,2	6	• PTB-10x18x6.3-J1S
	18	8,8	4	0,2	6	PTB-10x18x8.8-J1S
	20	8,3	5	0,2	6	PTB-10x20x8.3-J1S
	20	8,8	5	0,2	6	PTB-10x20x8.8-J1S
11,2	19,2	5,5	4	0,2	6	PTB-11.2x19.2x5.5-J1S
12	18	6,6	3	0,2	6	PTB-12x18x6.6-J1S
	19	5,1	3,5	0,2	6	PTB-12x19x5.1-J1S
	20	5,5	4	0,2	6	PTB-12x20x5.5-J1S
	20	7	4	0,2	6	PTB-12x20x7-J1S
	22	6,6	5	0,2	6	PTB-12x22x6.6-J1S
	22	8	5	0,2	6	• PTB-12x22x8-J1S
	22	8,8	5	0,2	6	PTB-12x22x8.8-J1S
	22	8,8	5	0,2	6	PTB-12x22x8.8-J1S
12,5	22,5	8,8	5	0,2	6	PTB-12.5x22.5x8.8-J1S
13	19	4,4	3	0,2	6	PTB-13x19x4.4-J1S
14	21	5,1	3,5	0,2	6	PTB-14x21x5.1-J1S
	22	5,5	4	0,2	6	PTB-14x22x5.5-J1S
	24	6,1	5	0,2	6	PTB-14x24x6.1-J1S
	24	8,8	5	0,2	6	PTB-14x24x8.8-J1S
15	22	5,5	3,5	0,2	6	PTB-15x22x5.5-J1S
	25	8,8	5	0,2	6	PTB-15x25x8.8-J1S
16	22	4,4	3	0,2	6	PTB-16x22x4.4-J1S
	24	5,5	4	0,2	6	PTB-16x24x5.5-J1S
	26	8,8	5	0,2	6	PTB-16x26x8.8-J1S
17	25	11	4	0,2	6	PTB-17x25x11-J1S

• Dimensions in accordance with ISO 5597

**PTB profile rod seals, metric sizes**  
d 18 – 35 mm



**Maximum extrusion gap e**

Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
3	0,2	0,1	–
3,5 to 4	0,35	0,2	–
4,5 to 6,5	0,45	0,25	0,1
7 to 8	0,5	0,3	0,15
9 to 11,5	0,55	0,3	0,15
12,5	0,6	0,3	0,2
15	0,6	0,3	0,2

**Dimensions**

**Designation**

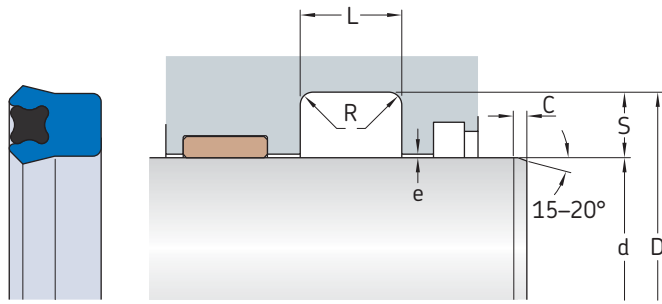
d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
18	25	5,1	3,5	0,2	6	PTB-18x25x5.1-J1S
	26	5,5	4	0,2	6	PTB-18x26x5.5-J1S
	28	8,8	5	0,2	6	PTB-18x28x8.8-J1S
20	26	5,5	3	0,2	6	PTB-20x26x5.5-J1S
	27	6,6	3,5	0,2	6	PTB-20x27x6.6-J1S
	28	5,5	4	0,2	6	PTB-20x28x5.5-J1S
	28	6,3	4	0,2	6	• PTB-20x28x6.3-J1S
	28	7,9	4	0,2	6	PTB-20x28x7.9-J1S
	30	6,6	5	0,2	6	PTB-20x30x6.6-J1S
	30	7,9	5	0,2	6	PTB-20x30x7.9-J1S
	30	8,8	5	0,2	6	PTB-20x30x8.8-J1S
	32	6,6	6	0,2	7	PTB-20x32x6.6-J1S
	32	8,8	6	0,2	7	PTB-20x32x8.8-J1S
	35	11	7,5	0,5	8,5	PTB-20x35x11-J1S
	35	3,2	7,5	0,5	8,5	PTB-20x35x13.2-J1S
	40	3,2	10	0,8	11	PTB-20x40x13.2-J1S
22	29	5,1	3,5	0,2	6	PTB-22x29x5.1-J1S
	30	5,5	4	0,2	6	PTB-22x30x5.5-J1S
	30	6,3	4	0,2	6	• PTB-22x30x6.3-J1S
	30	6,6	4	0,2	6	PTB-22x30x6.6-J1S
	30	7,7	4	0,2	6	PTB-22x30x7.7-J1S
	30	8,8	4	0,2	6	PTB-22x30x8.8-J1S
	32	6,6	5	0,2	6	PTB-22x32x6.6-J1S
	32	8	5	0,2	6	• PTB-22x32x8-J1S
	32	8,8	5	0,2	6	PTB-22x32x8.8-J1S
	35	8,8	6,5	0,2	7,5	PTB-22x35x8.8-J1S
	35	11	6,5	0,2	7,5	PTB-22x35x11-J1S
	40	3,2	9	0,8	11	PTB-22x40x13.2-J1S
	22,4	30	5,5	3,8	0,2	6
32,4		8,8	5	0,2	6	PTB-22.4x32.4x8.8-J1S
23,5	31,5	5,5	4	0,2	6	PTB-23.5x31.5x5.5-J1S

• Dimensions in accordance with ISO 5597

Dimensions						Designation	
d f8 or h9	D H10	L +0,2	S	R max.	C min.		
mm						-	
25	33	5,5	4	0,2	6	PTB-25x33x5.5-J1S	
	33	6,1	4	0,2	6	PTB-25x33x6.1-J1S	
	33	6,3	4	0,2	6	PTB-25x33x6.3-J1S	
	33	8,8	4	0,2	6	PTB-25x33x8.8-J1S	
	33	11	4	0,2	6	PTB-25x33x11-J1S	
	35	8	5	0,2	6	• PTB-25x35x8-J1S	
	35	8,8	5	0,2	6	PTB-25x35x8.8-J1S	
	35	11	5	0,2	6	PTB-25x35x11-J1S	
	38	8,8	6,5	0,2	7,5	PTB-25x38x8.8-J1S	
	38	11	6,5	0,2	7,5	PTB-25x38x11-J1S	
	40	11	7,5	0,5	8,5	PTB-25x40x11-J1S	
	28	35	5,5	3,5	0,2	6	PTB-28x35.5x5.5-J1S
		36	5,8	4	0,2	6	PTB-28x36x5.8-J1S
		36	8,8	4	0,2	6	PTB-28x36x8.8-J1S
37		8,6	4,5	0,2	6	PTB-28x37.5x8.6-J1S	
38		8	5	0,2	6	• PTB-28x38x8-J1S	
38		8,8	5	0,2	6	PTB-28x38x8.8-J1S	
38		11	5	0,2	6	PTB-28x38x11-J1S	
40		6,6	6	0,2	7	PTB-28x40x6.6-J1S	
40		11	6	0,2	7	PTB-28x40x11-J1S	
43		11,2	7,5	0,5	8,5	PTB-28x43x11.2-J1S	
48		13,2	10	0,8	11	PTB-28x48x13.2-J1S	
30		37	6,6	3,5	0,2	6	PTB-30x37x6.6-J1S
		38	6,3	4	0,2	6	PTB-30x38x6.3-J1S
		38	6,9	4	0,2	6	PTB-30x38x6.9-J1S
	38	8,8	4	0,2	6	PTB-30x38x8.8-J1S	
	40	6,6	5	0,2	6	PTB-30x40x6.6-J1S	
	40	7,2	5	0,2	6	PTB-30x40x7.2-J1S	
	40	8	5	0,2	6	PTB-30x40x8-J1S	
	40	11	5	0,2	6	PTB-30x40x11-J1S	
	42	9,9	6	0,2	7	PTB-30x42x9.9-J1S	
	42	11	6	0,2	7	PTB-30x42x11-J1S	
	45	9,9	7,5	0,5	8,5	PTB-30x45x9.9-J1S	
	45	11	7,5	0,5	8,5	PTB-30x45x11-J1S	
	50	11	10	0,8	11	PTB-30x50x11-J1S	
	31,5	41,5	6,6	5	0,2	6	PTB-31.5x41.5x6.6-J1S
32	40	6,3	4	0,2	6	PTB-32x40x6.3-J1S	
	40	8,3	4	0,2	6	PTB-32x40x8.3-J1S	
	40	8,8	4	0,2	6	PTB-32x40x8.8-J1S	
	42	8	5	0,2	6	• PTB-32x42x8-J1S	
	42	11	5	0,2	6	PTB-32x42x11-J1S	
	44	6,1	6	0,2	7	PTB-32x44x6.1-J1S	
	44	6,9	6	0,2	7	PTB-32x44x6.9-J1S	
	45	11	6,5	0,2	7,5	PTB-32x45x11-J1S	
	47	11	7,5	0,5	8,5	PTB-32x47x11-J1S	
	48	11	8	0,5	8,5	PTB-32x48x11-J1S	
	33	40	8,8	3,5	0,2	6	PTB-33x40x8.8-J1S
		43	11	5	0,2	6	PTB-33x43x11-J1S
	35	43	7	4	0,2	6	PTB-35x43x7-J1S
		43	8,8	4	0,2	6	PTB-35x43x8.8-J1S
45		6,6	5	0,2	6	PTB-35x45x6.6-J1S	
45		8	5	0,2	6	PTB-35x45x8-J1S	
45		8,8	5	0,2	6	PTB-35x45x8.8-J1S	
45		11	5	0,2	6	PTB-35x45x11-J1S	

• Dimensions in accordance with ISO 5597

**PTB profile rod seals, metric sizes**  
d 35 – 60 mm



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
<b>3</b>	0,2	0,1	–
<b>3,5 to 4</b>	0,35	0,2	–
<b>4,5 to 6,5</b>	0,45	0,25	0,1
<b>7 to 8</b>	0,5	0,3	0,15
<b>9 to 11,5</b>	0,55	0,3	0,15
<b>12,5</b>	0,6	0,3	0,2
<b>15</b>	0,6	0,3	0,2

**Dimensions**

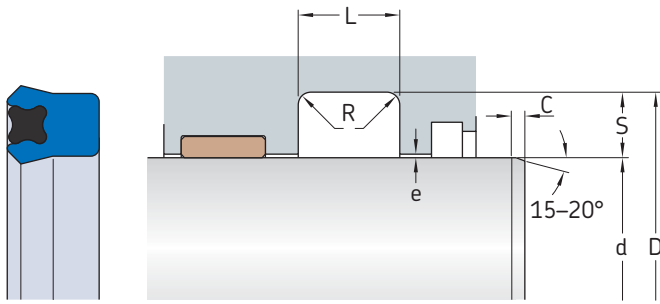
**Designation**

d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
<b>35</b> cont.	50	9,9	7,5	0,5	8,5	PTB-35x50x9.9-J1S
	50	11	7,5	0,5	8,5	PTB-35x50x11-J1S
	50	2,5	7,5	0,5	8,5	PTB-35x50x12.5-J1S
	51	11	8	0,5	8,5	PTB-35x51x11-J1S
	55	11	10	0,8	11	PTB-35x55x11-J1S
<b>35,5</b>	45	6,6	4,75	0,2	6	PTB-35.5x45x6.6-J1S
<b>36</b>	44	5,8	4	0,2	6	PTB-36x44x5.8-J1S
	44	6,6	4	0,2	6	PTB-36x44x6.6-J1S
	44	8,8	4	0,2	6	PTB-36x44x8.8-J1S
	46	8,8	5	0,2	6	PTB-36x46x8-J1S
	46	11	5	0,2	6	PTB-36x46x11-J1S
	52	11	8	0,5	8,5	PTB-36x52x11-J1S
<b>37</b>	47	8,8	5	0,2	6	PTB-37x47x8.8-J1S
	47	5,5	5	0,2	6	PTB-37x47x5.5-J1S
<b>40</b>	48	5,5	4	0,2	6	PTB-40x48x5.5-J1S
	48	6,6	4	0,2	6	PTB-40x48x6.6-J1S
	48	8,8	4	0,2	6	PTB-40x48x8.8-J1S
	50	6,6	5	0,2	6	PTB-40x50x6.6-J1S
	50	7,2	5	0,2	6	PTB-40x50x7.2-J1S
	50	8	5	0,2	6	• PTB-40x50x8-J1S
	50	8,8	5	0,2	6	PTB-40x50x8.8-J1S
	50	11	5	0,2	6	PTB-40x50x11-J1S
	53	8,8	6,5	0,2	7,5	PTB-40x53x8.8-J1S
	55	9,9	7,5	0,5	8,5	PTB-40x55x9.9-J1S
55	11	7,5	0,5	8,5	PTB-40x55x11-J1S	
56	11	8	0,5	8,5	PTB-40x56x11-J1S	
60	13,2	10	0,8	11	PTB-40x60x13.2-J1S	
<b>41,7</b>	50,7	7,8	4,5	0,2	6	PTB-41.7x50.7x7.8-J1S
<b>42</b>	55	7,7	6,5	0,2	7,5	PTB-42x55x7.7-J1S

• Dimensions in accordance with ISO 5597

Dimensions						Designation	
d f8 or h9	D H10	L +0,2	S	R max.	C min.		
mm						-	
45	53	5,8	4	0,2	6	PTB-45x53x5.8-J1S	
	53	8,8	4	0,2	6	PTB-45x53x8.8-J1S	
	55	6,6	5	0,2	6	PTB-45x55x6.6-J1S	
	55	8	5	0,2	6	• PTB-45x55x8-J1S	
	55	11	5	0,2	6	PTB-45x55x11-J1S	
	56	7,7	5,5	0,2	7	PTB-45x56x7.7-J1S	
	60	9,9	7,5	0,5	8,5	PTB-45x60x9.9-J1S	
	60	11	7,5	0,5	8,5	PTB-45x60x11-J1S	
	60	12,7	7,5	0,5	8,5	PTB-45x60x12.7-J1S	
	63	13,2	9	0,8	11	PTB-45x63x13.2-J1S	
	65	13,2	10	0,8	11	PTB-45x65x13.2-J1S	
	70	16,5	12,5	0,8	13	PTB-45x70x16.5-J1S	
	48	63	11,2	7,5	0,5	8,5	PTB-48x63x11.2-J1S
		68	13,2	10	0,8	11	PTB-48x68x13.2-J1S
50	58	8,8	4	0,2	6	PTB-50x58x8.8-J1S	
	60	6,6	5	0,2	6	PTB-50x60x6.6-J1S	
	60	8	5	0,2	6	• PTB-50x60x8-J1S	
	60	8,8	5	0,2	6	PTB-50x60x8.8-J1S	
	60	11	5	0,2	6	PTB-50x60x11-J1S	
	60	13,2	5	0,2	6	PTB-50x60x13.2-J1S	
	63	8,8	6,5	0,2	7,5	PTB-50x63x8.8-J1S	
	63	11	6,5	0,2	7,5	PTB-50x63x11-J1S	
	65	9,9	7,5	0,5	8,5	PTB-50x65x9.9-J1S	
	65	11	7,5	0,5	8,5	PTB-50x65x11-J1S	
	65	12,5	7,5	0,5	8,5	PTB-50x65x12.5-J1S	
	70	11	10	0,8	11	PTB-50x70x11-J1S	
70	13,2	10	0,8	11	PTB-50x70x13.2-J1S		
53	63	6,6	5	0,2	6	PTB-53x63x6.6-J1S	
	63	11	5	0,2	6	PTB-53x63x11-J1S	
55	65	6,6	5	0,2	6	PTB-55x65x6.6-J1S	
	65	11	5	0,2	6	PTB-55x65x11-J1S	
	65	13,2	5	0,2	6	PTB-55x65x13.2-J1S	
	68	11	6,5	0,2	7,5	PTB-55x68x11-J1S	
	70	9,9	7,5	0,5	8,5	PTB-55x70x9.9-J1S	
	70	13,2	7,5	0,5	8,5	PTB-55x70x13.2-J1S	
	75	13,2	10	0,8	11	PTB-55x75x13.2-J1S	
80	6,5	12,5	0,8	13	PTB-55x80x16.5-J1S		
56	64	8,8	4	0,2	6	PTB-56x64x8.8-J1S	
	66	6,6	5	0,2	6	PTB-56x66x6.6-J1S	
	66	11	5	0,2	6	PTB-56x66x11-J1S	
	71	2,5	7,5	0,5	8,5	PTB-56x71x12.5-J1S	
57	70	9,9	6,5	0,2	7,5	PTB-57x70x9.9-J1S	
60	68	8,8	4	0,2	6	PTB-60x68x8.8-J1S	
	70	6,6	5	0,2	6	PTB-60x70x6.6-J1S	
	70	8,8	5	0,2	6	PTB-60x70x8.8-J1S	
	70	9,9	5	0,2	6	PTB-60x70x9.9-J1S	
	70	11	5	0,2	6	PTB-60x70x11-J1S	
	70	13,2	5	0,2	6	PTB-60x70x13.2-J1S	

**PTB profile rod seals, metric sizes**  
d 60 – 85 mm



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
3	0,2	0,1	–
3,5 to 4	0,35	0,2	–
4,5 to 6,5	0,45	0,25	0,1
7 to 8	0,5	0,3	0,15
9 to 11,5	0,55	0,3	0,15
12,5	0,6	0,3	0,2
15	0,6	0,3	0,2

**Dimensions**

**Designation**

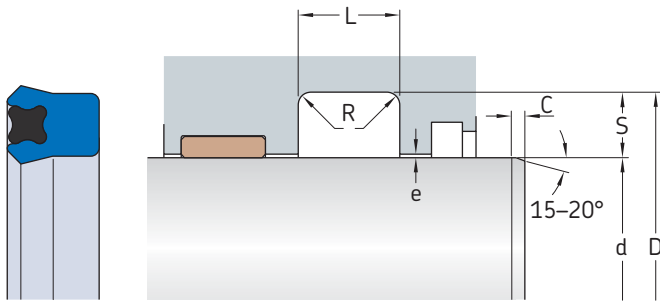
d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
60 cont.	71	7,7	5,5	0,2	7	PTB-60x71x7.7-J1S
	73	11	6,5	0,2	7,5	PTB-60x73x11-J1S
	75	9,9	7,5	0,5	8,5	PTB-60x75x9.9-J1S
	75	11	7,5	0,5	8,5	PTB-60x75x11-J1S
	75	12,1	7,5	0,5	8,5	PTB-60x75x12.1-J1S
	80	13,2	10	0,8	11	PTB-60x80x13.2-J1S
	80	16	10	0,8	11	PTB-60x80x16-J1S
62	72	13,2	5	0,2	6	PTB-62x72x13.2-J1S
63	71	8,8	4	0,2	6	PTB-63x71x8.8-J1S
	73	6,6	5	0,2	6	PTB-63x73x6.6-J1S
	73	13,2	5	0,2	6	PTB-63x73x13.2-J1S
	75	9,6	6	0,2	7	PTB-63x75x9.6-J1S
	78	9,9	7,5	0,5	8,5	PTB-63x78x9.9-J1S
	78	11	7,5	0,5	8,5	PTB-63x78x11-J1S
	78	11,7	7,5	0,5	8,5	PTB-63x78x11.7-J1S
	83	13,2	10	0,8	11	PTB-63x83x13.2-J1S
	83	16,5	10	0,8	11	PTB-63x83x16.5-J1S
64	80	13,2	8	0,5	8,5	PTB-64x80x13.2-J1S
65	73	8,8	4	0,2	6	PTB-65x73x8.8-J1S
	75	6,6	5	0,2	6	PTB-65x75x6.6-J1S
	75	8,8	5	0,2	6	PTB-65x75x8.8-J1S
	75	11	5	0,2	6	PTB-65x75x11-J1S
	75	13,2	5	0,2	6	PTB-65x75x13.2-J1S
	78	11	6,5	0,2	7,5	PTB-65x78x11-J1S
	80	9,9	7,5	0,5	8,5	PTB-65x80x9.9-J1S
	80	11	7,5	0,5	8,5	PTB-65x80x11-J1S
	80	13,2	7,5	0,5	8,5	PTB-65x80x13.2-J1S
	85	13,2	10	0,8	11	PTB-65x85x13.2-J1S
67	77	6,6	5	0,2	6	PTB-67x77x6.6-J1S

Dimensions						Designation	
d f8 or h9	D H10	L +0,2	S	R max.	C min.		
mm						-	
70	78	8,8	4	0,2	6	PTB-70x78x8.8-J1S	
	80	6,6	5	0,2	6	PTB-70x80x6.6-J1S	
	80	11	5	0,2	6	PTB-70x80x11-J1S	
	80	13,2	5	0,2	6	PTB-70x80x13.2-J1S	
	83	11	6,5	0,2	7,5	PTB-70x83x11-J1S	
	85	9,9	7,5	0,5	8,5	PTB-70x85x9.9-J1S	
	85	11	7,5	0,5	8,5	PTB-70x85x11-J1S	
	85	12,5	7,5	0,5	8,5	• PTB-70x85x12.5-J1S	
	85	13,2	7,5	0,5	8,5	PTB-70x85x13.2-J1S	
	90	13,2	10	0,8	11	PTB-70x90x13.2-J1S	
	90	16,5	10	0,8	11	PTB-70x90x16.5-J1S	
	71	80	6,6	4,5	0,2	6	PTB-71x80x6.6-J1S
		80	7,2	4,5	0,2	6	PTB-71x80x7.2-J1S
	72	82	8,8	5	0,2	6	PTB-72x82x8.8-J1S
		87	9,9	7,5	0,5	8,5	PTB-72x87x9.9-J1S
75	83	6,6	4	0,2	6	PTB-75x83x6.6-J1S	
	85	6,6	5	0,2	6	PTB-75x85x6.6-J1S	
	85	8,8	5	0,2	6	PTB-75x85x8.8-J1S	
	85	11	5	0,2	6	PTB-75x85x11-J1S	
	85	13,2	5	0,2	6	PTB-75x85x13.2-J1S	
	88	11	6,5	0,2	7,5	PTB-75x88x11-J1S	
	90	6,6	7,5	0,5	8,5	PTB-75x90x6.6-J1S	
	90	9,9	7,5	0,5	8,5	PTB-75x90x9.9-J1S	
	90	11	7,5	0,5	8,5	PTB-75x90x11-J1S	
	90	12,1	7,5	0,5	8,5	PTB-75x90x12.1-J1S	
	90	12,5	7,5	0,5	8,5	PTB-75x90x12.5-J1S	
	90	13,2	7,5	0,5	8,5	PTB-75x90x13.2-J1S	
	95	13,2	10	0,8	11	PTB-75x95x13.2-J1S	
	100	16,5	12,5	0,8	13	PTB-75x100x16.5-J1S	
	78	90	12,1	6	0,2	7	PTB-78x90x12.1-J1S
80	88	8,8	4	0,2	6	PTB-80x88x8.8-J1S	
	90	6,6	5	0,2	6	PTB-80x90x6.6-J1S	
	90	8,8	5	0,2	6	PTB-80x90x8.8-J1S	
	90	11	5	0,2	6	PTB-80x90x11-J1S	
	90	13,2	5	0,2	6	PTB-80x90x13.2-J1S	
	92	10,5	6	0,2	7	PTB-80x92x10.5-J1S	
	93	11	6,5	0,2	7,5	PTB-80x93x11-J1S	
	95	9,9	7,5	0,5	8,5	PTB-80x95x9.9-J1S	
	95	11	7,5	0,5	8,5	PTB-80x95x11-J1S	
	95	12,1	7,5	0,5	8,5	PTB-80x95x12.1-J1S	
	95	12,5	7,5	0,5	8,5	• PTB-80x95x12.5-J1S	
	100	13,2	10	0,8	11	PTB-80x100x13.2-J1S	
	100	16	10	0,8	11	• PTB-80x100x16-J1S	
	100	16,5	10	0,8	11	PTB-80x100x16.5-J1S	
	82	92	11	5	0,2	6	PTB-82x92x11-J1S
84	98	13,2	7	0,5	8,5	PTB-84x98x13.2-J1S	
85	95	6,6	5	0,2	6	PTB-85x95x6.6-J1S	
	100	9,9	7,5	0,5	8,5	PTB-85x100x9.9-J1S	
	100	11	7,5	0,5	8,5	PTB-85x100x11-J1S	
	100	13,2	7,5	0,5	8,5	PTB-85x100x13.2-J1S	
	105	13,2	10	0,8	11	PTB-85x105x13.2-J1S	

• Dimensions in accordance with ISO 5597



**PTB profile rod seals, metric sizes**  
d **87 – 150** mm



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
<b>3</b>	0,2	0,1	–
<b>3,5 to 4</b>	0,35	0,2	–
<b>4,5 to 6,5</b>	0,45	0,25	0,1
<b>7 to 8</b>	0,5	0,3	0,15
<b>9 to 11,5</b>	0,55	0,3	0,15
<b>12,5</b>	0,6	0,3	0,2
<b>15</b>	0,6	0,3	0,2

**Dimensions**

**Designation**

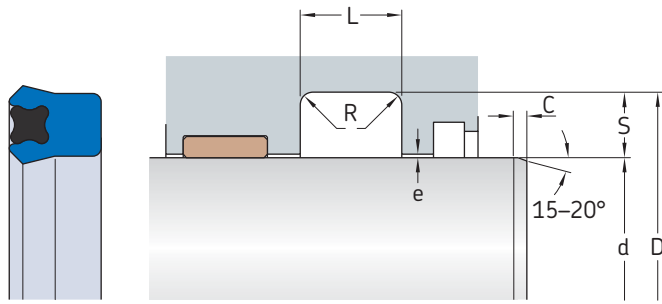
d f8 to h9	D H10	L +0,2	S	R max.	C min.	
mm						–
<b>87</b>	110	11	11,5	0,8	13	<b>PTB-87x110x11-J1S</b>
<b>88</b>	102	11,6	7	0,5	8,5	<b>PTB-88x102x11.6-J1S</b>
<b>90</b>	98	8,8	4	0,2	6	<b>PTB-90x98x8.8-J1S</b>
	100	6,6	5	0,2	6	<b>PTB-90x100x6.6-J1S</b>
	100	7,7	5	0,2	6	<b>PTB-90x100x7.7-J1S</b>
<b>90</b>	105	9,9	7,5	0,5	8,5	<b>PTB-90x105x9.9-J1S</b>
	105	11	7,5	0,5	8,5	<b>PTB-90x105x11-J1S</b>
	105	12,5	7,5	0,5	8,5	• <b>PTB-90x105x12.5-J1S</b>
	105	13,2	7,5	0,5	8,5	<b>PTB-90x105x13.2-J1S</b>
	110	13,2	10	0,8	11	<b>PTB-90x110x13.2-J1S</b>
	110	16	10	0,8	11	• <b>PTB-90x110x16-J1S</b>
	<b>92</b>	102	11	5	0,2	6
<b>95</b>	105	6,6	5	0,2	6	<b>PTB-95x105x6.6-J1S</b>
	110	9,9	7,5	0,5	8,5	<b>PTB-95x110x9.9-J1S</b>
	110	11	7,5	0,5	8,5	<b>PTB-95x110x11-J1S</b>
	110	13,2	7,5	0,5	8,5	<b>PTB-95x110x13.2-J1S</b>
	115	13,2	10	0,8	11	<b>PTB-95x115x13.2-J1S</b>
<b>97</b>	105	14,3	4	0,2	6	<b>PTB-97x105x14.3-J1S</b>
<b>98</b>	110	17,6	6	0,2	7	<b>PTB-98x110x17.6-J1S</b>
<b>100</b>	108	8,8	4	0,2	6	<b>PTB-100x108x8.8-J1S</b>
	115	9,9	7,5	0,5	8,5	<b>PTB-100x115x9.9-J1S</b>
	115	11	7,5	0,5	8,5	<b>PTB-100x115x11-J1S</b>
	115	13,2	7,5	0,5	8,5	<b>PTB-100x115x13.2-J1S</b>
	120	13,2	10	0,8	11	<b>PTB-100x120x13.2-J1S</b>
<b>100</b>	120	16	10	0,8	11	• <b>PTB-100x120x16-J1S</b>
	125	13,6	12,5	0,8	13	<b>PTB-100x125x13.6-J1S</b>
	125	16,5	12,5	0,8	13	<b>PTB-100x125x16.5-J1S</b>
	<b>105</b>	120	9,9	7,5	0,5	8,5

• Dimensions in accordance with ISO 5597

Dimensions						Designation
d f8 to h9	D H10	L +0,2	S	R max.	C min.	
mm						-
<b>105</b> cont.	120	11	7,5	0,5	8,5	PTB-105x120x11-J1S
	125	12,5	10	0,8	11	PTB-105x125x12.5-J1S
	125	13,2	10	0,8	11	PTB-105x125x13.2-J1S
	125	16,5	10	0,8	11	PTB-105x125x16.5-J1S
<b>109</b>	125	11,6	8	0,5	8,5	PTB-109x125x11.6-J1S
<b>110</b>	125	9,9	7,5	0,5	8,5	PTB-110x125x9.9-J1S
	125	10,1	7,5	0,5	8,5	PTB-110x125x10.1-J1S
	125	11	7,5	0,5	8,5	PTB-110x125x11-J1S
	125	13,2	7,5	0,5	8,5	PTB-110x125x13.2-J1S
	130	11	10	0,8	11	PTB-110x130x11-J1S
	130	13,2	10	0,8	11	PTB-110x130x13.2-J1S
	130	16	10	0,8	11	• PTB-110x130x16-J1S
	130	16,5	10	0,8	11	PTB-110x130x16.5-J1S
135	19,8	12,5	0,8	13	• PTB-110x135x19.8-J1S	
<b>112</b>	125	7,7	6,5	0,2	7,5	PTB-112x125x7.7-J1S
<b>115</b>	130	9,4	7,5	0,5	8,5	PTB-115x130x9.4-J1S
	130	9,9	7,5	0,5	8,5	PTB-115x130x9.9-J1S
	135	13,2	10	0,8	11	PTB-115x135x13.2-J1S
	140	19,8	12,5	0,8	13	PTB-115x140x19.8-J1S
<b>118</b>	133	9,9	7,5	0,5	8,5	PTB-118x133x9.9-J1S
<b>120</b>	130	16,5	5	0,2	6	PTB-120x130x16.5-J1S
	135	9,9	7,5	0,5	8,5	PTB-120x135x9.9-J1S
	140	11	10	0,8	11	PTB-120x140x11-J1S
	140	13,2	10	0,8	11	PTB-120x140x13.2-J1S
	140	16	10	0,8	11	PTB-120x140x16-J1S
	140	16,5	10	0,8	11	PTB-120x140x16.5-J1S
<b>125</b>	140	9,9	7,5	0,5	8,5	PTB-125x140x9.9-J1S
	140	16,5	7,5	0,5	8,5	PTB-125x140x16.5-J1S
	145	16	10	0,8	11	• PTB-125x145x16-J1S
	145	16,5	10	0,8	11	PTB-125x145x16.5-J1S
	150	19,8	12,5	0,8	13	• PTB-125x150x19.8-J1S
<b>130</b>	145	9,9	7,5	0,5	8,5	PTB-130x145x9.9-J1S
	150	13,2	10	0,8	11	PTB-130x150x13.2-J1S
	150	14,3	10	0,8	11	PTB-130x150x14.3-J1S
	150	16,5	10	0,8	11	PTB-130x150x16.5-J1S
	150	17,6	10	0,8	11	PTB-130x150x17.6-J1S
	160	18,7	15	0,8	14	PTB-130x160x18.7-J1S
<b>135</b>	150	9,9	7,5	0,5	8,5	PTB-135x150x9.9-J1S
	155	16,5	10	0,8	11	PTB-135x155x16.5-J1S
<b>136</b>	150	9,9	7	0,5	8,5	PTB-136x150x9.9-J1S
<b>140</b>	155	9,9	7,5	0,5	8,5	PTB-140x155x9.9-J1S
	160	13,2	10	0,8	11	PTB-140x160x13.2-J1S
	160	15,4	10	0,8	11	PTB-140x160x15.4-J1S
	160	16	10	0,8	11	• PTB-140x160x16-J1S
	160	16,5	10	0,8	11	PTB-140x160x16.5-J1S
<b>145</b>	160	7,7	7,5	0,5	8,5	PTB-145x160x7.7-J1S
	160	9,9	7,5	0,5	8,5	PTB-145x160x9.9-J1S
<b>150</b>	160	8,8	5	0,2	6	PTB-150x160x8.8-J1S
	165	9,9	7,5	0,5	8,5	PTB-150x165x9.9-J1S
	170	16,5	10	0,8	11	PTB-150x170x16.5-J1S
	170	17,6	10	0,8	11	PTB-150x170x17.6-J1S
	180	19,8	15	0,8	14	PTB-150x180x19.8-J1S

• Dimensions in accordance with ISO 5597

**PTB profile rod seals, metric sizes**  
d 155 – 205 mm



**Maximum extrusion gap e**

Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	160 bar	250 bar	400 bar
mm	mm		
3	0,2	0,1	–
3,5 to 4	0,35	0,2	–
4,5 to 6,5	0,45	0,25	0,1
7 to 8	0,5	0,3	0,15
9 to 11,5	0,55	0,3	0,15
12,5	0,6	0,3	0,2
15	0,6	0,3	0,2

**Dimensions**

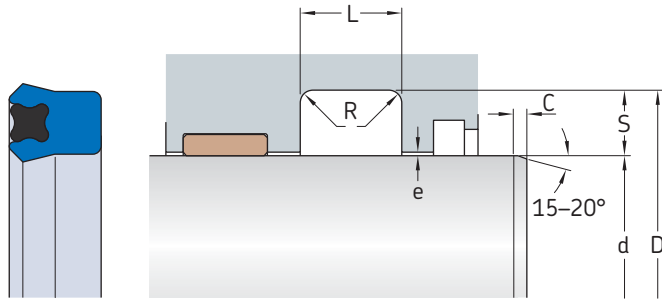
**Designation**

d f8 or h9	D H10	L +0,2	S	R max.	C min.	
mm						–
155	180	16,5	12,5	0,8	13	PTB-155x180x16.5-J1S
	180	17,6	12,5	0,8	13	PTB-155x180x17.6-J1S
160	175	9,9	7,5	0,5	8,5	PTB-160x175x9.9-J1S
	180	16,5	10	0,8	11	PTB-160x180x16.5-J1S
	185	17,6	12,5	0,8	13	PTB-160x185x17.6-J1S
	185	19,8	12,5	0,8	13	PTB-160x185x19.8-J1S
	190	25	15	0,8	14	PTB-160x190x25-J1S
165	180	10,5	7,5	0,5	8,5	PTB-165x180x10.5-J1S
	190	17,6	12,5	0,8	13	PTB-165x190x17.6-J1S
170	190	16,5	10	0,8	11	PTB-170x190x16.5-J1S
	195	17,6	12,5	0,8	13	PTB-170x195x17.6-J1S
	200	16,5	15	0,8	14	PTB-170x200x16.5-J1S
175	185	12,5	5	0,2	6	PTB-175x185x12.5-J1S
	200	16,5	12,5	0,8	13	PTB-175x200x16.5-J1S
	200	19,8	12,5	0,8	13	PTB-175x200x19.8-J1S
180	200	13,8	10	0,8	11	PTB-180x200x13.8-J1S
	205	16,5	12,5	0,8	13	PTB-180x205x16.5-J1S
	205	17,6	12,5	0,8	13	PTB-180x205x17.6-J1S
190	210	13,2	10	0,8	11	PTB-190x210x13.2-J1S
	210	16,5	10	0,8	11	PTB-190x210x16.5-J1S
	215	16,5	12,5	0,8	13	PTB-190x215x16.5-J1S
	215	17,6	12,5	0,8	13	PTB-190x215x17.6-J1S
199	224	17,6	12,5	0,8	13	PTB-199x224x17.6-J1S
200	220	13,8	10	0,8	11	PTB-200x220x13.8-J1S
	220	16,5	10	0,8	11	PTB-200x220x16.5-J1S
	225	16,5	12,5	0,8	13	PTB-200x225x16.5-J1S
	225	17,6	12,5	0,8	13	PTB-200x225x17.6-J1S
205	235	19,8	15	0,8	14	PTB-205x235x19.8-J1S

Other sizes are available on request

# PTB profile rod seals, inch sizes

d 0.125 – 0.688 in.



## Maximum extrusion gap e

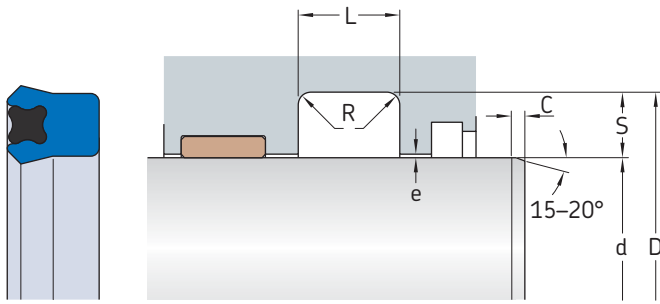
Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.010	0.004
<b>0.281 to 0.437</b>	0.020	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

## Dimensions

## Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
<b>0.125</b>	–0.001	0.375	0.002	0.275	0.125	0.015	0.25	<b>PTB125-125-250-J1S</b>
<b>0.187</b>	–0.001	0.437	0.002	0.206	0.125	0.015	0.25	<b>PTB125-187-187-J1S</b>
	–0.001	0.437	0.002	0.275	0.125	0.015	0.25	<b>PTB125-187-250-J1S</b>
<b>0.25</b>	–0.001	0.5	0.002	0.275	0.125	0.015	0.25	<b>PTB125-250-250-J1S</b>
<b>0.282</b>	–0.001	0.532	0.002	0.275	0.125	0.015	0.25	<b>PTB125-282-250-J1S</b>
<b>0.312</b>	–0.001	0.562	0.002	0.275	0.125	0.015	0.25	<b>PTB125-312-250-J1S</b>
	–0.001	0.687	0.002	0.343	0.187	0.015	0.25	<b>PTB187-312-312-J1S</b>
<b>0.375</b>	–0.001	0.625	0.002	0.275	0.125	0.015	0.25	<b>PTB125-375-250-J1S</b>
	–0.001	0.75	0.002	0.343	0.187	0.015	0.25	<b>PTB187-375-312-J1S</b>
<b>0.437</b>	–0.001	0.687	0.002	0.275	0.125	0.015	0.25	<b>PTB125-437-250-J1S</b>
	–0.001	0.687	0.002	0.413	0.125	0.015	0.25	<b>PTB125-437-375-J1S</b>
	–0.002	0.937	0.003	0.413	0.25	0.02	0.312	<b>PTB250-437-375-J1S</b>
<b>0.5</b>	–0.001	0.75	0.002	0.193	0.125	0.015	0.25	<b>PTB125-500-175-J1S</b>
	–0.001	0.75	0.002	0.275	0.125	0.015	0.25	<b>PTB125-500-250-J1S</b>
	–0.001	0.875	0.002	0.343	0.187	0.015	0.25	<b>PTB187-500-312-J1S</b>
	–0.002	1	0.003	0.413	0.25	0.02	0.312	<b>PTB250-500-375-J1S</b>
<b>0.54</b>	–0.001	0.915	0.002	0.343	0.187	0.015	0.25	<b>PTB187-540-312-J1S</b>
<b>0.562</b>	–0.001	0.812	0.002	0.275	0.125	0.015	0.25	<b>PTB125-562-250-J1S</b>
	–0.001	0.937	0.002	0.343	0.187	0.015	0.25	<b>PTB187-562-312-J1S</b>
<b>0.625</b>	–0.001	0.875	0.002	0.196	0.125	0.015	0.25	<b>PTB125-625-178-J1S</b>
	–0.001	0.875	0.002	0.275	0.125	0.015	0.25	<b>PTB125-625-250-J1S</b>
	–0.001	1	0.002	0.343	0.187	0.015	0.25	<b>PTB187-625-312-J1S</b>
<b>0.687</b>	–0.001	0.937	0.002	0.275	0.125	0.015	0.25	<b>PTB125-687-250-J1S</b>
	–0.001	1.062	0.002	0.343	0.187	0.015	0.25	<b>PTB187-687-312-J1S</b>
	–0.002	1.187	0.003	0.413	0.25	0.02	0.312	<b>PTB250-687-375-J1S</b>
<b>0.688</b>	–0.001	0.938	0.002	0.196	0.125	0.015	0.25	<b>PTB125-688-178-J1S</b>

**PTB profile rod seals, inch sizes**  
**d 0.75 – 1.625 in.**



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

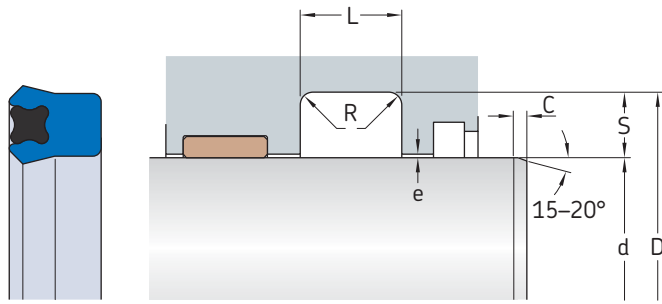
**Dimensions**

**Designation**

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
<b>0.75</b>	-0.001	1	0.002	0.196	0.125	0.015	0.25	<b>PTB125-750-178-J1S</b>
	-0.001	1	0.002	0.206	0.125	0.015	0.25	<b>PTB125-750-187-J1S</b>
	-0.001	1	0.002	0.275	0.125	0.015	0.25	<b>PTB125-750-250-J1S</b>
	-0.001	1.125	0.002	0.343	0.187	0.015	0.25	<b>PTB187-750-312-J1S</b>
	-0.002	1.25	0.003	0.413	0.25	0.02	0.312	<b>PTB250-750-375-J1S</b>
	-0.002	1.375	0.004	0.55	0.312	0.02	0.312	<b>PTB312-750-500-J1S</b>
<b>0.812</b>	-0.001	1.062	0.002	0.275	0.125	0.015	0.25	<b>PTB125-812-250-J1S</b>
	-0.001	1.187	0.002	0.343	0.187	0.015	0.25	<b>PTB187-812-312-J1S</b>
	-0.002	1.312	0.003	0.413	0.25	0.02	0.312	<b>PTB250-812-375-J1S</b>
<b>0.875</b>	-0.001	1.125	0.002	0.275	0.125	0.015	0.25	<b>PTB125-875-250-J1S</b>
	-0.001	1.25	0.002	0.343	0.187	0.015	0.25	<b>PTB187-875-312-J1S</b>
	-0.002	1.375	0.003	0.413	0.25	0.02	0.312	<b>PTB250-875-375-J1S</b>
<b>0.937</b>	-0.001	1.187	0.002	0.275	0.125	0.015	0.25	<b>PTB125-937-250-J1S</b>
	-0.001	1.312	0.002	0.343	0.187	0.015	0.25	<b>PTB187-937-312-J1S</b>
	-0.002	1.562	0.004	0.413	0.312	0.02	0.312	<b>PTB312-937-375-J1S</b>
<b>1</b>	-0.001	1.25	0.002	0.206	0.125	0.015	0.25	<b>PTB125-1000-187-J1S</b>
	-0.001	1.25	0.002	0.275	0.125	0.015	0.25	<b>PTB125-1000-250-J1S</b>
	-0.001	1.312	0.002	0.24	0.156	0.015	0.25	<b>PTB156-1000-218-J1S</b>
	-0.001	1.312	0.002	0.257	0.156	0.015	0.25	<b>PTB156-1000-234-J1S</b>
	-0.001	1.375	0.002	0.275	0.187	0.015	0.25	<b>PTB187-1000-250-J1S</b>
	-0.001	1.375	0.002	0.293	0.187	0.015	0.25	<b>PTB187-1000-266-J1S</b>
	-0.001	1.375	0.002	0.343	0.187	0.015	0.25	<b>PTB187-1000-312-J1S</b>
	-0.001	1.375	0.002	0.413	0.187	0.015	0.25	<b>PTB187-1000-375-J1S</b>
	-0.002	1.5	0.003	0.413	0.25	0.02	0.312	<b>PTB250-1000-375-J1S</b>
	-0.002	1.625	0.004	0.413	0.312	0.02	0.312	<b>PTB312-1000-375-J1S</b>
	-0.002	1.625	0.004	0.55	0.312	0.02	0.312	<b>PTB312-1000-500-J1S</b>
	<b>1.062</b>	-0.001	1.312	0.002	0.275	0.125	0.015	0.25
-0.001		1.437	0.002	0.343	0.187	0.015	0.25	<b>PTB187-1062-312-J1S</b>
<b>1.125</b>	-0.001	1.375	0.002	0.275	0.125	0.015	0.25	<b>PTB125-1125-250-J1S</b>
	-0.001	1.5	0.002	0.275	0.187	0.015	0.25	<b>PTB187-1125-250-J1S</b>
	-0.001	1.5	0.002	0.343	0.187	0.015	0.25	<b>PTB187-1125-312-J1S</b>
	-0.001	1.5	0.002	0.413	0.187	0.015	0.25	<b>PTB187-1125-375-J1S</b>
	-0.002	1.625	0.003	0.413	0.25	0.02	0.312	<b>PTB250-1125-375-J1S</b>
	-0.002	1.75	0.004	0.413	0.312	0.02	0.312	<b>PTB312-1125-375-J1S</b>

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
<b>1.187</b>	-0.001	1.437	0.002	0.196	0.125	0.015	0.25	PTB125-1187-178-J1S
	-0.001	1.437	0.002	0.206	0.125	0.015	0.25	PTB125-1187-187-J1S
	-0.001	1.437	0.002	0.275	0.125	0.015	0.25	PTB125-1187-250-J1S
	-0.001	1.562	0.002	0.275	0.187	0.015	0.25	PTB187-1187-250-J1S
	-0.001	1.562	0.002	0.343	0.187	0.015	0.25	PTB187-1187-312-J1S
<b>1.25</b>	-0.001	1.5	0.002	0.206	0.125	0.015	0.25	PTB125-1250-187-J1S
	-0.001	1.5	0.002	0.275	0.125	0.015	0.25	PTB125-1250-250-J1S
	-0.001	1.625	0.002	0.275	0.187	0.015	0.25	PTB187-1250-250-J1S
	-0.001	1.625	0.002	0.293	0.187	0.015	0.25	PTB187-1250-266-J1S
	-0.001	1.625	0.002	0.343	0.187	0.015	0.25	PTB187-1250-312-J1S
	-0.001	1.625	0.002	0.413	0.187	0.015	0.25	PTB187-1250-375-J1S
	-0.002	1.75	0.003	0.413	0.25	0.02	0.312	PTB250-1250-375-J1S
	-0.002	1.875	0.004	0.413	0.312	0.02	0.312	PTB312-1250-375-J1S
	-0.002	1.875	0.004	0.55	0.312	0.02	0.312	PTB312-1250-500-J1S
	-0.003	2.25	0.007	0.825	0.5	0.03	0.625	PTB500-1250-750-J1S
<b>1.312</b>	-0.001	1.562	0.002	0.206	0.125	0.015	0.25	PTB125-1312-187-J1S
	-0.001	1.687	0.002	0.343	0.187	0.015	0.25	PTB187-1312-312-J1S
	-0.002	1.812	0.003	0.413	0.25	0.02	0.312	PTB250-1312-375-J1S
<b>1.375</b>	-0.001	1.625	0.002	0.275	0.125	0.015	0.25	PTB125-1375-250-J1S
	-0.001	1.687	0.002	0.24	0.156	0.015	0.25	PTB156-1375-218-J1S
	-0.001	1.75	0.002	0.275	0.187	0.015	0.25	PTB187-1375-250-J1S
	-0.001	1.75	0.002	0.293	0.187	0.015	0.25	PTB187-1375-266-J1S
	-0.001	1.75	0.002	0.343	0.187	0.015	0.25	PTB187-1375-312-J1S
	-0.001	1.75	0.002	0.413	0.187	0.015	0.25	PTB187-1375-375-J1S
	-0.002	1.875	0.003	0.413	0.25	0.02	0.312	PTB250-1375-375-J1S
	-0.002	2	0.004	0.413	0.312	0.02	0.312	PTB312-1375-375-J1S
	-0.002	2	0.004	0.55	0.312	0.02	0.312	PTB312-1375-500-J1S
	<b>1.437</b>	-0.001	1.687	0.002	0.275	0.125	0.015	0.25
-0.001		1.812	0.002	0.343	0.187	0.015	0.25	PTB187-1437-312-J1S
-0.002		1.937	0.003	0.413	0.25	0.02	0.312	PTB250-1437-375-J1S
<b>1.5</b>	-0.001	1.75	0.002	0.206	0.125	0.015	0.25	PTB125-1500-187-J1S
	-0.001	1.75	0.002	0.275	0.125	0.015	0.25	PTB125-1500-250-J1S
	-0.001	1.812	0.002	0.343	0.156	0.015	0.25	PTB156-1500-312-J1S
	-0.001	1.875	0.002	0.275	0.187	0.015	0.25	PTB187-1500-250-J1S
	-0.001	1.875	0.002	0.286	0.187	0.015	0.25	PTB187-1500-260-J1S
	-0.001	1.875	0.002	0.293	0.187	0.015	0.25	PTB187-1500-266-J1S
	-0.001	1.875	0.002	0.343	0.187	0.015	0.25	PTB187-1500-312-J1S
	-0.001	1.875	0.002	0.413	0.187	0.015	0.25	PTB187-1500-375-J1S
	-0.002	2	0.003	0.343	0.25	0.02	0.312	PTB250-1500-312-J1S
	-0.002	2	0.003	0.413	0.25	0.02	0.312	PTB250-1500-375-J1S
	-0.002	2	0.003	0.55	0.25	0.02	0.312	PTB250-1500-500-J1S
	-0.002	2.125	0.004	0.481	0.312	0.02	0.312	PTB312-1500-437-J1S
	-0.002	2.125	0.004	0.55	0.312	0.02	0.312	PTB312-1500-500-J1S
	-0.002	2.25	0.005	0.55	0.375	0.03	0.5	PTB375-1500-500-J1S
	-0.002	2.25	0.005	0.688	0.375	0.03	0.5	PTB375-1500-625-J1S
<b>1.562</b>	-0.001	1.937	0.002	0.413	0.187	0.015	0.25	PTB187-1562-375-J1S
	-0.002	2	0.003	0.343	0.218	0.02	0.312	PTB218-1562-312-J1S
	-0.002	2.062	0.003	0.343	0.25	0.02	0.312	PTB250-1562-312-J1S
<b>1.625</b>	-0.001	2	0.002	0.275	0.187	0.015	0.25	PTB187-1625-250-J1S
	-0.001	2	0.002	0.293	0.187	0.015	0.25	PTB187-1625-266-J1S
	-0.001	2	0.002	0.343	0.187	0.015	0.25	PTB187-1625-312-J1S
	-0.001	2	0.002	0.413	0.187	0.015	0.25	PTB187-1625-375-J1S

**PTB profile rod seals, inch sizes**  
**d 1.625 – 2.5 in.**



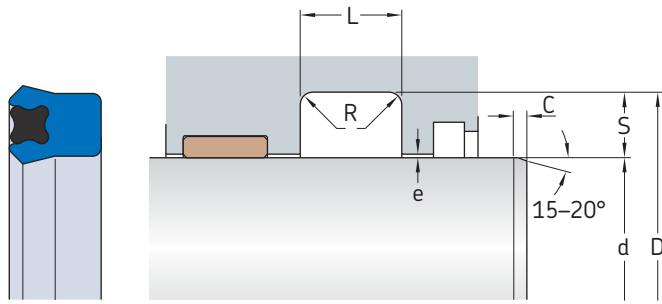
Maximum extrusion gap e			
Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								–
<b>1.625</b> cont.	-0.002	2.125	0.003	0.413	0.25	0.02	0.312	<b>PTB250-1625-375-J1S</b>
	-0.002	2.25	0.004	0.413	0.312	0.02	0.312	<b>PTB312-1625-375-J1S</b>
	-0.002	2.25	0.004	0.55	0.312	0.02	0.312	<b>PTB312-1625-500-J1S</b>
	-0.002	2.375	0.005	0.688	0.375	0.03	0.5	<b>PTB375-1625-625-J1S</b>
<b>1.687</b>	-0.002	2.312	0.004	0.55	0.312	0.02	0.312	<b>PTB312-1687-500-J1S</b>
<b>1.75</b>	-0.001	2	0.002	0.275	0.125	0.015	0.25	<b>PTB125-1750-250-J1S</b>
	-0.001	2.125	0.002	0.275	0.187	0.015	0.25	<b>PTB187-1750-250-J1S</b>
	-0.001	2.125	0.002	0.293	0.187	0.015	0.25	<b>PTB187-1750-266-J1S</b>
	-0.001	2.125	0.002	0.343	0.187	0.015	0.25	<b>PTB187-1750-312-J1S</b>
	-0.001	2.125	0.002	0.413	0.187	0.015	0.25	<b>PTB187-1750-375-J1S</b>
	-0.002	2.25	0.003	0.343	0.25	0.02	0.312	<b>PTB250-1750-312-J1S</b>
	-0.002	2.25	0.003	0.413	0.25	0.02	0.312	<b>PTB250-1750-375-J1S</b>
	-0.002	2.375	0.004	0.413	0.312	0.02	0.312	<b>PTB312-1750-375-J1S</b>
	-0.002	2.375	0.004	0.55	0.312	0.02	0.312	<b>PTB312-1750-500-J1S</b>
	-0.002	2.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-1750-625-J1S</b>
	-0.003	2.75	0.007	0.825	0.5	0.03	0.625	<b>PTB500-1750-750-J1S</b>
	<b>1.875</b>	-0.001	2.25	0.002	0.293	0.187	0.015	0.25
-0.001		2.25	0.002	0.343	0.187	0.015	0.25	<b>PTB187-1875-312-J1S</b>
-0.001		2.25	0.002	0.413	0.187	0.015	0.25	<b>PTB187-1875-375-J1S</b>
-0.002		2.375	0.003	0.413	0.25	0.02	0.312	<b>PTB250-1875-375-J1S</b>
-0.002		2.5	0.004	0.413	0.312	0.02	0.312	<b>PTB312-1875-375-J1S</b>
-0.002		2.5	0.004	0.55	0.312	0.02	0.312	<b>PTB312-1875-500-J1S</b>
-0.003		2.875	0.007	0.688	0.5	0.03	0.625	<b>PTB500-1875-625-J1S</b>
<b>2</b>		-0.001	2.25	0.002	0.275	0.125	0.015	0.25
	-0.001	2.375	0.002	0.253	0.187	0.015	0.25	<b>PTB187-2000-230-J1S</b>
	-0.001	2.375	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2000-250-J1S</b>
	-0.001	2.375	0.002	0.343	0.187	0.015	0.25	<b>PTB187-2000-312-J1S</b>
	-0.001	2.375	0.002	0.391	0.187	0.015	0.25	<b>PTB187-2000-355-J1S</b>
	-0.001	2.375	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2000-375-J1S</b>
	-0.002	2.5	0.003	0.343	0.25	0.02	0.312	<b>PTB250-2000-312-J1S</b>
	-0.002	2.5	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2000-375-J1S</b>
	-0.002	2.5	0.003	0.55	0.25	0.02	0.312	<b>PTB250-2000-500-J1S</b>

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
<b>2</b>	-0.002	2.625	0.004	0.413	0.312	0.02	0.312	<b>PTB312-2000-375-J1S</b>
cont.	-0.002	2.625	0.004	0.481	0.312	0.02	0.312	<b>PTB312-2000-437-J1S</b>
	-0.002	2.625	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2000-500-J1S</b>
	-0.002	2.75	0.005	0.481	0.375	0.03	0.5	<b>PTB375-2000-437-J1S</b>
	-0.002	2.75	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2000-500-J1S</b>
	-0.002	2.75	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2000-625-J1S</b>
	-0.003	3	0.007	0.825	0.5	0.03	0.625	<b>PTB500-2000-750-J1S</b>
<b>2.125</b>	-0.001	2.5	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2125-250-J1S</b>
	-0.001	2.5	0.002	0.293	0.187	0.015	0.25	<b>PTB187-2125-266-J1S</b>
	-0.001	2.5	0.002	0.343	0.187	0.015	0.25	<b>PTB187-2125-312-J1S</b>
	-0.001	2.5	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2125-375-J1S</b>
	-0.002	2.625	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2125-375-J1S</b>
	-0.002	2.75	0.004	0.413	0.312	0.02	0.312	<b>PTB312-2125-375-J1S</b>
	-0.002	2.75	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2125-500-J1S</b>
	-0.002	2.875	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2125-625-J1S</b>
<b>2.187</b>	-0.001	2.562	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2187-375-J1S</b>
	-0.002	2.687	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2187-375-J1S</b>
	-0.002	2.937	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2187-625-J1S</b>
<b>2.25</b>	-0.001	2.625	0.002	0.343	0.187	0.015	0.25	<b>PTB187-2250-312-J1S</b>
	-0.001	2.625	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2250-375-J1S</b>
	-0.002	2.75	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2250-375-J1S</b>
	-0.002	2.875	0.004	0.413	0.312	0.02	0.312	<b>PTB312-2250-375-J1S</b>
	-0.002	2.875	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2250-500-J1S</b>
	-0.002	3	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2250-500-J1S</b>
	-0.002	3	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2250-625-J1S</b>
<b>2.375</b>	-0.001	2.625	0.002	0.206	0.125	0.015	0.25	<b>PTB125-2375-187-J1S</b>
	-0.001	2.75	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2375-250-J1S</b>
	-0.001	2.75	0.002	0.293	0.187	0.015	0.25	<b>PTB187-2375-266-J1S</b>
	-0.001	2.75	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2375-375-J1S</b>
	-0.001	2.75	0.002	0.55	0.187	0.015	0.25	<b>PTB187-2375-500-J1S</b>
	-0.002	2.875	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2375-375-J1S</b>
	-0.002	3	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2375-500-J1S</b>
	-0.002	3.125	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2375-500-J1S</b>
	-0.002	3.125	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2375-625-J1S</b>
<b>2.437</b>	-0.002	3	0.003	0.413	0.281	0.02	0.312	<b>PTB281-2437-375-J1S</b>
<b>2.5</b>	-0.001	2.75	0.002	0.275	0.125	0.015	0.25	<b>PTB125-2500-250-J1S</b>
	-0.001	2.875	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2500-250-J1S</b>
	-0.001	2.875	0.002	0.293	0.187	0.015	0.25	<b>PTB187-2500-266-J1S</b>
	-0.001	2.875	0.002	0.343	0.187	0.015	0.25	<b>PTB187-2500-312-J1S</b>
	-0.001	2.875	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2500-375-J1S</b>
	-0.002	2.937	0.003	0.309	0.218	0.02	0.312	<b>PTB218-2500-281-J1S</b>
	-0.002	3	0.003	0.343	0.25	0.02	0.312	<b>PTB250-2500-312-J1S</b>
	-0.002	3	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2500-375-J1S</b>
	-0.002	3	0.003	0.55	0.25	0.02	0.312	<b>PTB250-2500-500-J1S</b>
	-0.002	3.125	0.004	0.413	0.312	0.02	0.312	<b>PTB312-2500-375-J1S</b>
	-0.002	3.125	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2500-500-J1S</b>
	-0.002	3.25	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2500-500-J1S</b>
	-0.002	3.25	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2500-625-J1S</b>
	-0.003	3.5	0.007	0.825	0.5	0.03	0.5	<b>PTB500-2500-750-J1S</b>



**PTB profile rod seals, inch sizes**  
d 2.625 – 3.75 in.



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

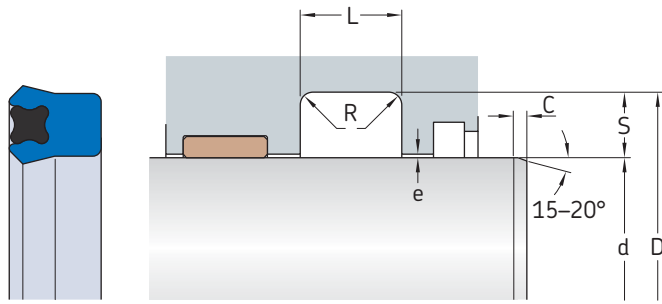
**Dimensions**

**Designation**

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
<b>2.625</b>	-0.001	3	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2625-250-J1S</b>
	-0.001	3	0.002	0.293	0.187	0.015	0.25	<b>PTB187-2625-266-J1S</b>
	-0.001	3	0.002	0.309	0.187	0.015	0.25	<b>PTB187-2625-281-J1S</b>
	-0.001	3	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2625-375-J1S</b>
	-0.002	3.125	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2625-375-J1S</b>
	-0.002	3.375	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2625-625-J1S</b>
<b>2.75</b>	-0.001	3	0.002	0.275	0.125	0.015	0.25	<b>PTB125-2750-250-J1S</b>
	-0.001	3	0.002	0.413	0.125	0.015	0.25	<b>PTB125-2750-375-J1S</b>
	-0.001	3.125	0.002	0.309	0.187	0.015	0.25	<b>PTB187-2750-281-J1S</b>
	-0.001	3.125	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2750-375-J1S</b>
	-0.002	3.25	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2750-375-J1S</b>
	-0.002	3.25	0.003	0.55	0.25	0.02	0.312	<b>PTB250-2750-500-J1S</b>
	-0.002	3.375	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2750-500-J1S</b>
	-0.002	3.5	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2750-500-J1S</b>
	-0.002	3.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2750-625-J1S</b>
	-0.003	3.75	0.007	0.825	0.5	0.03	0.625	<b>PTB500-2750-750-J1S</b>
<b>2.875</b>	-0.001	3.25	0.002	0.275	0.187	0.015	0.25	<b>PTB187-2875-250-J1S</b>
	-0.001	3.25	0.002	0.293	0.187	0.015	0.25	<b>PTB187-2875-266-J1S</b>
	-0.001	3.25	0.002	0.413	0.187	0.015	0.25	<b>PTB187-2875-375-J1S</b>
	-0.002	3.375	0.003	0.413	0.25	0.02	0.312	<b>PTB250-2875-375-J1S</b>
	-0.002	3.5	0.004	0.55	0.312	0.02	0.312	<b>PTB312-2875-500-J1S</b>
	-0.002	3.625	0.005	0.55	0.375	0.03	0.5	<b>PTB375-2875-500-J1S</b>
	-0.002	3.625	0.005	0.688	0.375	0.03	0.5	<b>PTB375-2875-625-J1S</b>
<b>3</b>	-0.001	3.25	0.002	0.413	0.125	0.015	0.25	<b>PTB125-3000-375-J1S</b>
	-0.001	3.375	0.002	0.343	0.187	0.015	0.25	<b>PTB187-3000-312-J1S</b>
	-0.001	3.375	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3000-375-J1S</b>
	-0.002	3.5	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3000-375-J1S</b>
	-0.002	3.5	0.003	0.55	0.25	0.02	0.312	<b>PTB250-3000-500-J1S</b>
	-0.002	3.625	0.004	0.413	0.312	0.02	0.312	<b>PTB312-3000-375-J1S</b>
	-0.002	3.625	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3000-500-J1S</b>
	-0.002	3.75	0.005	0.55	0.375	0.03	0.5	<b>PTB375-3000-500-J1S</b>
	-0.002	3.75	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3000-625-J1S</b>
	-0.002	3.875	0.004	0.759	0.437	0.03	0.5	<b>PTB437-3000-690-J1S</b>

Dimensions				Designation				
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
<b>3</b>	-0.003	4	0.007	0.688	0.5	0.03	0.625	<b>PTB500-3000-625-J1S</b>
cont.	-0.003	4	0.007	0.825	0.5	0.03	0.625	<b>PTB500-3000-750-J1S</b>
<b>3.125</b>	-0.001	3.5	0.002	0.275	0.187	0.015	0.25	<b>PTB187-3125-250-J1S</b>
	-0.001	3.5	0.002	0.343	0.187	0.015	0.25	<b>PTB187-3125-312-J1S</b>
	-0.001	3.5	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3125-375-J1S</b>
	-0.002	3.625	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3125-375-J1S</b>
	-0.002	3.75	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3125-500-J1S</b>
	-0.002	3.875	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3125-625-J1S</b>
<b>3.187</b>	-0.002	3.75	0.003	0.55	0.281	0.02	0.312	<b>PTB281-3187-500-J1S</b>
<b>3.25</b>	-0.001	3.625	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3250-375-J1S</b>
	-0.002	3.75	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3250-375-J1S</b>
	-0.002	3.75	0.003	0.55	0.25	0.02	0.312	<b>PTB250-3250-500-J1S</b>
	-0.002	3.875	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3250-500-J1S</b>
	-0.002	4	0.005	0.55	0.375	0.03	0.5	<b>PTB375-3250-500-J1S</b>
	-0.002	4	0.005	0.618	0.375	0.03	0.5	<b>PTB375-3250-562-J1S</b>
	-0.002	4	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3250-625-J1S</b>
	-0.003	4.25	0.007	0.825	0.5	0.03	0.625	<b>PTB500-3250-750-J1S</b>
	-0.003	4.5	0.009	1.1	0.625	0.045	0.875	<b>PTB625-3250-1000-J1S</b>
<b>3.375</b>	-0.001	3.75	0.002	0.275	0.187	0.015	0.25	<b>PTB187-3375-250-J1S</b>
	-0.001	3.75	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3375-375-J1S</b>
	-0.002	3.875	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3375-375-J1S</b>
	-0.002	4	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3375-500-J1S</b>
	-0.002	4	0.004	0.688	0.312	0.02	0.312	<b>PTB312-3375-625-J1S</b>
	-0.002	4.125	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3375-625-J1S</b>
	-0.003	4.375	0.007	0.688	0.5	0.03	0.625	<b>PTB500-3375-625-J1S</b>
<b>3.437</b>	-0.002	4	0.003	0.55	0.281	0.02	0.312	<b>PTB281-3437-500-J1S</b>
<b>3.5</b>	-0.002	4	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3500-375-J1S</b>
	-0.002	4	0.003	0.55	0.25	0.02	0.312	<b>PTB250-3500-500-J1S</b>
	-0.002	4.125	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3500-500-J1S</b>
	-0.002	4.25	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3500-625-J1S</b>
	-0.003	4.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-3500-750-J1S</b>
<b>3.625</b>	-0.001	3.875	0.002	0.206	0.125	0.015	0.25	<b>PTB125-3625-187-J1S</b>
	-0.001	4	0.002	0.275	0.187	0.015	0.25	<b>PTB187-3625-250-J1S</b>
	-0.001	4	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3625-375-J1S</b>
	-0.002	4.125	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3625-375-J1S</b>
	-0.002	4.25	0.004	0.413	0.312	0.02	0.312	<b>PTB312-3625-375-J1S</b>
	-0.002	4.25	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3625-500-J1S</b>
	-0.002	4.375	0.005	0.55	0.375	0.03	0.5	<b>PTB375-3625-500-J1S</b>
	-0.002	4.375	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3625-625-J1S</b>
<b>3.75</b>	-0.001	4	0.002	0.275	0.125	0.015	0.25	<b>PTB125-3750-250-J1S</b>
	-0.001	4.125	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3750-375-J1S</b>
	-0.002	4.25	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3750-375-J1S</b>
	-0.002	4.25	0.003	0.55	0.25	0.02	0.312	<b>PTB250-3750-500-J1S</b>
	-0.002	4.25	0.003	0.618	0.25	0.02	0.312	<b>PTB250-3750-562-J1S</b>
	-0.002	4.375	0.004	0.413	0.312	0.02	0.312	<b>PTB312-3750-375-J1S</b>
	-0.002	4.375	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3750-500-J1S</b>
	-0.002	4.375	0.004	0.688	0.312	0.02	0.312	<b>PTB312-3750-625-J1S</b>
	-0.002	4.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3750-625-J1S</b>
	-0.003	4.75	0.007	0.759	0.5	0.03	0.625	<b>PTB500-3750-690-J1S</b>
	-0.003	5	0.009	1.1	0.625	0.045	0.875	<b>PTB625-3750-1000-J1S</b>

**PTB profile rod seals, inch sizes**  
d 3.875 – 5.25 in.



**Maximum extrusion gap e**

Radial depth S	$e_{max}$ at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

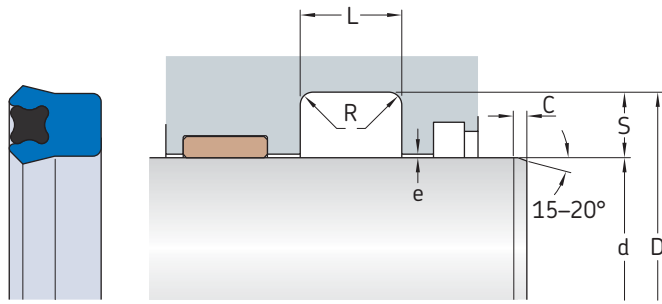
**Dimensions**

**Designation**

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Designation
in.								–
<b>3.875</b>	–0.001	4.25	0.002	0.413	0.187	0.015	0.25	<b>PTB187-3875-375-J1S</b>
	–0.002	4.375	0.003	0.413	0.25	0.02	0.312	<b>PTB250-3875-375-J1S</b>
	–0.002	4.5	0.004	0.55	0.312	0.02	0.312	<b>PTB312-3875-500-J1S</b>
	–0.002	4.625	0.005	0.688	0.375	0.03	0.5	<b>PTB375-3875-625-J1S</b>
	–0.002	4.75	0.004	0.825	0.437	0.03	0.5	<b>PTB437-3875-750-J1S</b>
<b>4</b>	–0.001	4.375	0.002	0.413	0.187	0.015	0.25	<b>PTB187-4000-375-J1S</b>
	–0.002	4.5	0.003	0.343	0.25	0.02	0.312	<b>PTB250-4000-312-J1S</b>
	–0.002	4.5	0.003	0.413	0.25	0.02	0.312	<b>PTB250-4000-375-J1S</b>
	–0.002	4.5	0.003	0.55	0.25	0.02	0.312	<b>PTB250-4000-500-J1S</b>
	–0.002	4.5	0.003	0.618	0.25	0.02	0.312	<b>PTB250-4000-562-J1S</b>
	–0.002	4.625	0.004	0.618	0.312	0.02	0.312	<b>PTB312-4000-562-J1S</b>
	–0.002	4.75	0.005	0.55	0.375	0.03	0.5	<b>PTB375-4000-500-J1S</b>
	–0.002	4.75	0.005	0.688	0.375	0.03	0.5	<b>PTB375-4000-625-J1S</b>
	–0.002	4.875	0.004	0.825	0.437	0.03	0.5	<b>PTB437-4000-750-J1S</b>
	–0.003	5	0.007	0.688	0.5	0.03	0.625	<b>PTB500-4000-625-J1S</b>
	–0.003	5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-4000-750-J1S</b>
	–0.003	5.124	0.007	0.825	0.562	0.03	0.75	<b>PTB562-4000-750-J1S</b>
	<b>4.125</b>	–0.001	4.5	0.002	0.413	0.187	0.015	0.25
–0.002		4.625	0.003	0.413	0.25	0.02	0.312	<b>PTB250-4125-375-J1S</b>
–0.002		4.625	0.003	0.618	0.25	0.02	0.312	<b>PTB250-4125-562-J1S</b>
–0.002		4.75	0.004	0.55	0.312	0.02	0.312	<b>PTB312-4125-500-J1S</b>
–0.002		4.75	0.004	0.618	0.312	0.02	0.312	<b>PTB312-4125-562-J1S</b>
<b>4.25</b>	–0.001	4.625	0.002	0.413	0.187	0.015	0.25	<b>PTB187-4250-375-J1S</b>
	–0.002	4.75	0.003	0.413	0.25	0.02	0.312	<b>PTB250-4250-375-J1S</b>
	–0.002	4.75	0.003	0.618	0.25	0.02	0.312	<b>PTB250-4250-562-J1S</b>
	–0.002	4.875	0.004	0.481	0.312	0.02	0.312	<b>PTB312-4250-437-J1S</b>
	–0.002	4.875	0.004	0.618	0.312	0.02	0.312	<b>PTB312-4250-562-J1S</b>
	–0.002	5	0.005	0.55	0.375	0.03	0.5	<b>PTB375-4250-500-J1S</b>
	–0.002	5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-4250-625-J1S</b>
	–0.003	5.25	0.007	0.825	0.5	0.03	0.625	<b>PTB500-4250-750-J1S</b>
	–0.003	5.5	0.009	1.1	0.625	0.045	0.875	<b>PTB625-4250-1000-J1S</b>
	–0.003	5.5	0.009	0.825	0.625	0.045	0.875	<b>PTB625-4250-750-J1S</b>

Dimensions								Designation	
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.		
in.								-	
4.375	-0.001	4.75	0.002	0.413	0.187	0.015	0.25	PTB187-4375-375-J1S	
	-0.002	4.875	0.003	0.618	0.25	0.02	0.312	PTB250-4375-562-J1S	
	-0.002	5	0.004	0.55	0.312	0.02	0.312	PTB312-4375-500-J1S	
	-0.002	5	0.004	0.618	0.312	0.02	0.312	PTB312-4375-562-J1S	
	-0.002	5.125	0.005	0.55	0.375	0.03	0.5	PTB375-4375-500-J1S	
	-0.002	5.125	0.005	0.688	0.375	0.03	0.5	PTB375-4375-625-J1S	
	-0.003	5.375	0.007	0.825	0.5	0.03	0.625	PTB500-4375-750-J1S	
	4.5	-0.001	4.75	0.002	0.206	0.125	0.015	0.25	PTB125-4500-187-J1S
		-0.001	4.875	0.002	0.343	0.187	0.015	0.25	PTB187-4500-312-J1S
-0.001		4.875	0.002	0.413	0.187	0.015	0.25	PTB187-4500-375-J1S	
-0.002		5	0.003	0.343	0.25	0.02	0.312	PTB250-4500-312-J1S	
-0.002		5	0.003	0.413	0.25	0.02	0.312	PTB250-4500-375-J1S	
-0.002		5	0.003	0.55	0.25	0.02	0.312	PTB250-4500-500-J1S	
-0.002		5	0.003	0.618	0.25	0.02	0.312	PTB250-4500-562-J1S	
-0.002		5	0.003	0.688	0.25	0.02	0.312	PTB250-4500-625-J1S	
-0.002		5.125	0.004	0.55	0.312	0.02	0.312	PTB312-4500-500-J1S	
-0.002	5.125	0.004	0.688	0.312	0.02	0.312	PTB312-4500-625-J1S		
-0.002	5.25	0.005	0.688	0.375	0.03	0.5	PTB375-4500-625-J1S		
-0.002	5.375	0.006	0.825	0.437	0.03	0.5	PTB437-4500-750-J1S		
4.625	-0.002	5.125	0.003	0.618	0.25	0.02	0.312	PTB250-4625-562-J1S	
	-0.002	5.25	0.004	0.688	0.312	0.02	0.312	PTB312-4625-625-J1S	
	-0.002	5.375	0.005	0.688	0.375	0.03	0.5	PTB375-4625-625-J1S	
4.75	-0.001	5	0.002	0.275	0.125	0.015	0.25	PTB125-4750-250-J1S	
	-0.001	5.125	0.002	0.413	0.187	0.015	0.25	PTB187-4750-375-J1S	
	-0.002	5.25	0.003	0.413	0.25	0.02	0.312	PTB250-4750-375-J1S	
	-0.002	5.25	0.003	0.618	0.25	0.02	0.312	PTB250-4750-562-J1S	
	-0.002	5.375	0.004	0.55	0.312	0.02	0.312	PTB312-4750-500-J1S	
	-0.002	5.375	0.004	0.688	0.312	0.02	0.312	PTB312-4750-625-J1S	
	-0.002	5.5	0.005	0.55	0.375	0.03	0.5	PTB375-4750-500-J1S	
	-0.002	5.5	0.005	0.688	0.375	0.03	0.5	PTB375-4750-625-J1S	
	-0.002	5.625	0.006	0.825	0.437	0.03	0.5	PTB437-4750-750-J1S	
-0.003	5.75	0.007	0.759	0.5	0.03	0.625	PTB500-4750-690-J1S		
4.875	-0.002	5.375	0.003	0.618	0.25	0.02	0.312	PTB250-4875-562-J1S	
	-0.002	5.375	0.003	0.688	0.25	0.02	0.312	PTB250-4875-625-J1S	
	-0.002	5.625	0.005	0.688	0.375	0.03	0.5	PTB375-4875-625-J1S	
5	-0.001	5.25	0.002	0.275	0.125	0.015	0.25	PTB125-5000-250-J1S	
	-0.001	5.375	0.002	0.413	0.187	0.015	0.25	PTB187-5000-375-J1S	
	-0.002	5.5	0.003	0.413	0.25	0.02	0.312	PTB250-5000-375-J1S	
	-0.002	5.5	0.003	0.55	0.25	0.02	0.312	PTB250-5000-500-J1S	
	-0.002	5.5	0.003	0.618	0.25	0.02	0.312	PTB250-5000-562-J1S	
	-0.002	5.625	0.004	0.688	0.312	0.02	0.312	PTB312-5000-625-J1S	
	-0.002	5.75	0.005	0.55	0.375	0.03	0.5	PTB375-5000-500-J1S	
	-0.002	5.75	0.005	0.688	0.375	0.03	0.5	PTB375-5000-625-J1S	
	-0.003	6	0.007	0.688	0.5	0.03	0.625	PTB500-5000-625-J1S	
-0.003	6	0.007	0.825	0.5	0.03	0.625	PTB500-5000-750-J1S		
-0.003	6.25	0.009	1.1	0.625	0.045	0.875	PTB625-5000-1000-J1S		
5.125	-0.002	5.875	0.005	0.688	0.375	0.03	0.5	PTB375-5125-625-J1S	
5.25	-0.001	5.625	0.002	0.413	0.187	0.015	0.25	PTB187-5250-375-J1S	
	-0.002	5.75	0.003	0.413	0.25	0.02	0.312	PTB250-5250-375-J1S	
	-0.002	5.75	0.003	0.618	0.25	0.02	0.312	PTB250-5250-562-J1S	
	-0.002	5.875	0.004	0.688	0.312	0.02	0.312	PTB312-5250-625-J1S	

**PTB profile rod seals, inch sizes**  
d 5.25 – 7.5 in.

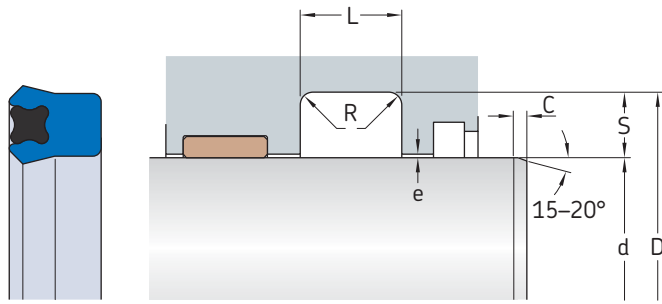


Maximum extrusion gap e			
Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								–
<b>5.25</b> cont.	-0.002	6	0.005	0.55	0.375	0.03	0.5	<b>PTB375-5250-500-J1S</b>
	-0.002	6	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5250-625-J1S</b>
	-0.003	6.25	0.007	0.825	0.5	0.03	0.625	<b>PTB500-5250-750-J1S</b>
	-0.003	6.5	0.009	1.1	0.625	0.045	0.875	<b>PTB625-5250-1000-J1S</b>
<b>5.375</b>	-0.002	5.875	0.003	0.618	0.25	0.02	0.312	<b>PTB250-5375-562-J1S</b>
	-0.002	6	0.004	0.688	0.312	0.02	0.312	<b>PTB312-5375-625-J1S</b>
	-0.002	6.125	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5375-625-J1S</b>
	-0.003	6.375	0.007	0.825	0.5	0.03	0.625	<b>PTB500-5375-750-J1S</b>
<b>5.437</b>	-0.002	5.875	0.003	0.618	0.218	0.02	0.312	<b>PTB218-5437-562-J1S</b>
	-0.002	6	0.003	0.618	0.281	0.02	0.312	<b>PTB281-5437-562-J1S</b>
<b>5.5</b>	-0.001	5.875	0.002	0.413	0.187	0.015	0.25	<b>PTB187-5500-375-J1S</b>
	-0.002	6	0.003	0.413	0.25	0.02	0.312	<b>PTB250-5500-375-J1S</b>
	-0.002	6	0.003	0.618	0.25	0.02	0.312	<b>PTB250-5500-562-J1S</b>
	-0.002	6.125	0.004	0.413	0.312	0.02	0.312	<b>PTB312-5500-375-J1S</b>
	-0.002	6.125	0.004	0.688	0.312	0.02	0.312	<b>PTB312-5500-625-J1S</b>
	-0.002	6.25	0.005	0.55	0.375	0.03	0.5	<b>PTB375-5500-500-J1S</b>
	-0.002	6.25	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5500-625-J1S</b>
	-0.002	6.375	0.006	0.55	0.437	0.03	0.5	<b>PTB437-5500-500-J1S</b>
	-0.003	6.5	0.007	0.688	0.5	0.03	0.625	<b>PTB500-5500-625-J1S</b>
	-0.003	6.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-5500-750-J1S</b>
<b>5.625</b>	-0.001	6	0.002	0.413	0.187	0.015	0.25	<b>PTB187-5625-375-J1S</b>
<b>5.625</b>	-0.002	6.25	0.004	0.688	0.312	0.02	0.312	<b>PTB312-5625-625-J1S</b>
<b>5.75</b>	-0.001	6.125	0.002	0.413	0.187	0.015	0.25	<b>PTB187-5750-375-J1S</b>
	-0.002	6.25	0.003	0.413	0.25	0.02	0.312	<b>PTB250-5750-375-J1S</b>
	-0.002	6.25	0.003	0.618	0.25	0.02	0.312	<b>PTB250-5750-562-J1S</b>
<b>5.875</b>	-0.002	6.375	0.004	0.688	0.312	0.02	0.312	<b>PTB312-5750-625-J1S</b>
	-0.002	6.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5750-625-J1S</b>
	-0.003	6.75	0.007	0.825	0.5	0.03	0.625	<b>PTB500-5750-750-J1S</b>
	-0.003	7	0.009	1.1	0.625	0.045	0.875	<b>PTB625-5750-1000-J1S</b>
	-0.002	6.375	0.003	0.618	0.25	0.02	0.312	<b>PTB250-5875-562-J1S</b>
<b>5.875</b>	-0.002	6.5	0.004	0.413	0.312	0.02	0.312	<b>PTB312-5875-375-J1S</b>
	-0.002	6.625	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5875-625-J1S</b>
	-0.002	6.625	0.005	0.688	0.375	0.03	0.5	<b>PTB375-5875-625-J1S</b>
	-0.003	6.875	0.007	0.825	0.5	0.03	0.625	<b>PTB500-5875-750-J1S</b>

Dimensions				Designation				
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
6	-0.001	6.375	0.002	0.413	0.187	0.015	0.25	PTB187-6000-375-J1S
	-0.002	6.5	0.003	0.413	0.25	0.02	0.312	PTB250-6000-375-J1S
	-0.002	6.5	0.003	0.481	0.25	0.02	0.312	PTB250-6000-437-J1S
	-0.002	6.5	0.003	0.618	0.25	0.02	0.312	PTB250-6000-562-J1S
	-0.002	6.625	0.004	0.688	0.312	0.02	0.312	PTB312-6000-625-J1S
	-0.002	6.75	0.005	0.55	0.375	0.03	0.5	PTB375-6000-500-J1S
	-0.002	6.75	0.005	0.618	0.375	0.03	0.5	PTB375-6000-562-J1S
	-0.002	6.75	0.005	0.688	0.375	0.03	0.5	PTB375-6000-625-J1S
	-0.003	7	0.007	0.825	0.5	0.03	0.625	PTB500-6000-750-J1S
6.125	-0.002	6.625	0.003	0.413	0.25	0.02	0.312	PTB250-6125-375-J1S
6.25	-0.001	6.625	0.002	0.343	0.187	0.015	0.25	PTB187-6250-312-J1S
	-0.002	6.75	0.003	0.413	0.25	0.02	0.312	PTB250-6250-375-J1S
	-0.002	7	0.005	0.55	0.375	0.03	0.5	PTB375-6250-500-J1S
	-0.002	7	0.005	0.688	0.375	0.03	0.5	PTB375-6250-625-J1S
	-0.003	7.25	0.007	0.825	0.5	0.03	0.625	PTB500-6250-750-J1S
	-0.003	7.5	0.009	1.1	0.625	0.045	0.875	PTB625-6250-1000-J1S
6.375	-0.002	7	0.004	0.688	0.312	0.02	0.312	PTB312-6375-625-J1S
6.5	-0.002	7	0.003	0.413	0.25	0.02	0.312	PTB250-6500-375-J1S
	-0.002	7	0.003	0.618	0.25	0.02	0.312	PTB250-6500-562-J1S
	-0.002	7.125	0.004	0.688	0.312	0.02	0.312	PTB312-6500-625-J1S
	-0.002	7.25	0.005	0.55	0.375	0.03	0.5	PTB375-6500-500-J1S
	-0.002	7.25	0.005	0.688	0.375	0.03	0.5	PTB375-6500-625-J1S
	-0.003	7.5	0.007	0.825	0.5	0.03	0.625	PTB500-6500-750-J1S
6.625	-0.002	7.25	0.004	0.688	0.312	0.02	0.312	PTB312-6625-625-J1S
6.75	-0.002	7.25	0.003	0.413	0.25	0.02	0.312	PTB250-6750-375-J1S
	-0.002	7.25	0.003	0.618	0.25	0.02	0.312	PTB250-6750-562-J1S
	-0.002	7.5	0.005	0.55	0.375	0.03	0.5	PTB375-6750-500-J1S
	-0.002	7.5	0.005	0.688	0.375	0.03	0.5	PTB375-6750-625-J1S
	-0.003	7.75	0.007	0.825	0.5	0.03	0.625	PTB500-6750-750-J1S
6.875	-0.002	7.625	0.005	0.688	0.375	0.03	0.5	PTB375-6875-625-J1S
7	-0.002	7.5	0.003	0.413	0.25	0.02	0.312	PTB250-7000-375-J1S
	-0.002	7.5	0.003	0.618	0.25	0.02	0.312	PTB250-7000-562-J1S
	-0.002	7.625	0.004	0.688	0.312	0.02	0.312	PTB312-7000-625-J1S
	-0.002	7.75	0.005	0.55	0.375	0.03	0.5	PTB375-7000-500-J1S
	-0.002	7.75	0.005	0.688	0.375	0.03	0.5	PTB375-7000-625-J1S
	-0.003	8	0.007	0.825	0.5	0.03	0.625	PTB500-7000-750-J1S
-0.003	8.25	0.009	1.1	0.625	0.045	0.875	PTB625-7000-1000-J1S	
-0.003	8.25	0.009	0.825	0.625	0.045	0.875	PTB625-7000-750-J1S	
7.125	-0.002	7.625	0.003	0.618	0.25	0.02	0.312	PTB250-7125-562-J1S
7.25	-0.002	7.75	0.003	0.618	0.25	0.02	0.312	PTB250-7250-562-J1S
	-0.002	7.875	0.004	0.688	0.312	0.02	0.312	PTB312-7250-625-J1S
	-0.002	8	0.005	0.688	0.375	0.03	0.5	PTB375-7250-625-J1S
	-0.003	8.25	0.007	0.825	0.5	0.03	0.625	PTB500-7250-750-J1S
7.375	-0.002	8	0.004	0.688	0.312	0.02	0.312	PTB312-7375-625-J1S
7.5	-0.001	7.875	0.002	0.343	0.187	0.015	0.25	PTB187-7500-312-J1S
	-0.002	8	0.003	0.413	0.25	0.02	0.312	PTB250-7500-375-J1S
	-0.002	8	0.003	0.618	0.25	0.02	0.312	PTB250-7500-562-J1S
	-0.002	8.25	0.005	0.55	0.375	0.03	0.5	PTB375-7500-500-J1S
	-0.002	8.25	0.005	0.688	0.375	0.03	0.5	PTB375-7500-625-J1S
	-0.002	8.375	0.006	0.55	0.437	0.03	0.5	PTB437-7500-500-J1S
	-0.003	8.75	0.009	1.1	0.625	0.045	0.875	PTB625-7500-1000-J1S

**PTB profile rod seals, inch sizes**  
d 7.75 – 14.375 in.



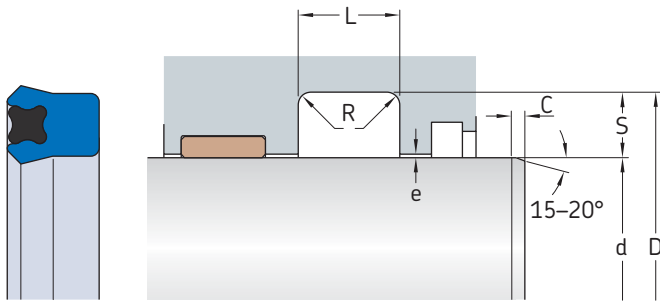
Maximum extrusion gap e			
Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								–
<b>7.75</b>	-0.002	8.25	0.003	0.618	0.25	0.02	0.312	<b>PTB250-7750-562-J1S</b>
	-0.002	8.5	0.005	0.55	0.375	0.03	0.5	<b>PTB375-7750-500-J1S</b>
	-0.002	8.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-7750-625-J1S</b>
	-0.003	8.75	0.007	0.825	0.5	0.03	0.625	<b>PTB500-7750-750-J1S</b>
<b>8</b>	-0.002	8.5	0.003	0.618	0.25	0.02	0.312	<b>PTB250-8000-562-J1S</b>
	-0.002	8.625	0.004	0.688	0.312	0.02	0.312	<b>PTB312-8000-625-J1S</b>
	-0.002	8.75	0.005	0.688	0.375	0.03	0.5	<b>PTB375-8000-625-J1S</b>
	-0.003	9	0.007	0.825	0.5	0.03	0.625	<b>PTB500-8000-750-J1S</b>
	-0.003	9.5	0.011	1.375	0.75	0.045	1	<b>PTB750-8000-1250-J1S</b>
<b>8.125</b>	-0.002	8.625	0.003	0.618	0.25	0.02	0.312	<b>PTB250-8125-562-J1S</b>
<b>8.25</b>	-0.002	8.75	0.003	0.618	0.25	0.02	0.312	<b>PTB250-8250-562-J1S</b>
	-0.002	9	0.005	0.688	0.375	0.03	0.5	<b>PTB375-8250-625-J1S</b>
	-0.003	9.5	0.009	1.1	0.625	0.045	0.875	<b>PTB625-8250-1000-J1S</b>
<b>8.375</b>	-0.002	8.875	0.003	0.618	0.25	0.02	0.312	<b>PTB250-8375-562-J1S</b>
<b>8.5</b>	-0.002	9	0.003	0.618	0.25	0.02	0.312	<b>PTB250-8500-562-J1S</b>
	-0.002	9.25	0.005	0.55	0.375	0.03	0.5	<b>PTB375-8500-500-J1S</b>
	-0.002	9.25	0.005	0.688	0.375	0.03	0.5	<b>PTB375-8500-625-J1S</b>
	-0.002	9.312	0.005	0.55	0.406	0.03	0.5	<b>PTB406-8500-500-J1S</b>
	-0.003	9.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-8500-750-J1S</b>
	-0.003	9.75	0.009	1.1	0.625	0.045	0.875	<b>PTB625-8500-1000-J1S</b>
	-0.003	10	0.011	1.238	0.75	0.045	1	<b>PTB750-8500-1125-J1S</b>
<b>8.75</b>	-0.002	9.5	0.005	0.55	0.375	0.03	0.5	<b>PTB375-8750-500-J1S</b>
<b>9</b>	-0.002	9.5	0.003	0.618	0.25	0.02	0.312	<b>PTB250-9000-562-J1S</b>
	-0.002	9.75	0.005	0.688	0.375	0.03	0.5	<b>PTB375-9000-625-J1S</b>
	-0.003	10	0.007	0.825	0.5	0.03	0.625	<b>PTB500-9000-750-J1S</b>
	-0.003	10.5	0.011	1.375	0.75	0.045	1	<b>PTB750-9000-1250-J1S</b>
	-0.003	10.5	0.011	1.65	0.75	0.045	1	<b>PTB750-9000-1500-J1S</b>
<b>9.25</b>	-0.002	9.875	0.004	0.688	0.312	0.02	0.312	<b>PTB312-9250-625-J1S</b>
	-0.002	10	0.005	0.688	0.375	0.03	0.5	<b>PTB375-9250-625-J1S</b>
	-0.003	10.25	0.007	0.825	0.5	0.03	0.625	<b>PTB500-9250-750-J1S</b>

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
9.5	-0.002	10	0.003	0.618	0.25	0.02	0.312	PTB250-9500-562-J1S
	-0.002	10.25	0.005	0.688	0.375	0.03	0.5	PTB375-9500-625-J1S
	-0.003	10.5	0.007	0.825	0.5	0.03	0.625	PTB500-9500-750-J1S
9.625	-0.002	10.125	0.003	0.413	0.25	0.02	0.312	PTB250-9625-375-J1S
9.75	-0.002	10.5	0.005	0.688	0.375	0.03	0.5	PTB375-9750-625-J1S
	-0.003	10.75	0.007	0.825	0.5	0.03	0.625	PTB500-9750-750-J1S
10	-0.002	10.5	0.003	0.618	0.25	0.02	0.312	PTB250-10000-562-J1S
	-0.002	10.75	0.005	0.688	0.375	0.03	0.5	PTB375-10000-625-J1S
	-0.003	11	0.007	0.825	0.5	0.03	0.625	PTB500-10000-750-J1S
	-0.003	11.25	0.009	1.1	0.625	0.045	0.875	PTB625-10000-1000-J1S
	-0.003	11.5	0.011	1.375	0.75	0.045	1	PTB750-10000-1250-J1S
10.25	-0.002	11	0.005	0.55	0.375	0.03	0.5	PTB375-10250-500-J1S
10.5	-0.002	11.25	0.005	0.688	0.375	0.03	0.5	PTB375-10500-625-J1S
	-0.003	11.5	0.007	1.1	0.5	0.03	0.625	PTB500-10500-1000-J1S
	-0.003	11.5	0.007	0.825	0.5	0.03	0.625	PTB500-10500-750-J1S
	-0.003	12	0.011	1.1	0.75	0.045	1	PTB750-10500-1000-J1S
10.625	-0.003	11.625	0.007	0.825	0.5	0.03	0.625	PTB500-10625-750-J1S
10.75	-0.002	11.5	0.005	0.688	0.375	0.03	0.5	PTB375-10750-625-J1S
	-0.003	11.75	0.007	0.825	0.5	0.03	0.625	PTB500-10750-750-J1S
11	-0.002	11.75	0.005	0.688	0.375	0.03	0.5	PTB375-11000-625-J1S
	-0.003	12	0.007	0.825	0.5	0.03	0.625	PTB500-11000-750-J1S
	-0.003	12.25	0.009	1.1	0.625	0.045	0.875	PTB625-11000-1000-J1S
11.25	-0.002	12	0.005	0.688	0.375	0.03	0.5	PTB375-11250-625-J1S
	-0.003	12.5	0.009	1.1	0.625	0.045	0.875	PTB625-11250-1000-J1S
11.5	-0.002	12	0.003	0.584	0.25	0.02	0.312	PTB250-11500-531-J1S
	-0.002	12.25	0.005	0.688	0.375	0.03	0.5	PTB375-11500-625-J1S
	-0.003	12.75	0.009	1.1	0.625	0.045	0.875	PTB625-11500-1000-J1S
11.75	-0.003	12.75	0.007	0.825	0.5	0.03	0.625	PTB500-11750-750-J1S
12	-0.002	12.5	0.003	0.618	0.25	0.02	0.312	PTB250-12000-562-J1S
	-0.003	13	0.007	0.825	0.5	0.03	0.625	PTB500-12000-750-J1S
	-0.003	13.5	0.011	1.375	0.75	0.045	1	PTB750-12000-1250-J1S
12.25	-0.003	13.5	0.009	1.1	0.625	0.045	0.875	PTB625-12250-1000-J1S
12.5	-0.002	13	0.003	0.584	0.25	0.02	0.312	PTB250-12500-531-J1S
	-0.003	13.5	0.007	0.825	0.5	0.03	0.625	PTB500-12500-750-J1S
12.75	-0.002	13.25	0.003	0.618	0.25	0.02	0.312	PTB250-12750-562-J1S
	-0.002	13.5	0.005	0.688	0.375	0.03	0.5	PTB375-12750-625-J1S
	-0.003	13.75	0.007	0.825	0.5	0.03	0.625	PTB500-12750-750-J1S
13	-0.003	14	0.007	0.825	0.5	0.03	0.625	PTB500-13000-750-J1S
13.5	-0.002	14	0.003	0.584	0.25	0.02	0.312	PTB250-13500-531-J1S
	-0.002	14	0.003	0.618	0.25	0.02	0.312	PTB250-13500-562-J1S
	-0.003	14.75	0.009	0.963	0.625	0.045	0.875	PTB625-13500-875-J1S
13.625	-0.002	14.375	0.005	0.688	0.375	0.03	0.5	PTB375-13625-625-J1S
14	-0.003	15	0.007	0.825	0.5	0.03	0.625	PTB500-14000-750-J1S
	-0.003	15.5	0.011	1.375	0.75	0.045	1	PTB750-14000-1250-J1S
14.25	-0.002	15	0.005	0.688	0.375	0.03	0.5	PTB375-14250-625-J1S
	-0.003	15.75	0.011	1.375	0.75	0.045	1	PTB750-14250-1250-J1S
14.375	-0.002	15.125	0.005	0.688	0.375	0.03	0.5	PTB375-14375-625-J1S



**PTB profile rod seals, inch sizes**  
d 14.5 – 35 in.



**Maximum extrusion gap e**

Radial depth S	e <sub>max</sub> at 60 °C (140 °F) for pressures		
	2 300 psi	3 600 psi	5 800 psi
in.	in.		
<b>0.125</b>	0.008	0.004	–
<b>0.156 to 0.187</b>	0.014	0.008	–
<b>0.218 to 0.25</b>	0.018	0.01	0.004
<b>0.281 to 0.437</b>	0.02	0.012	0.006
<b>0.5 to 0.562</b>	0.024	0.012	0.008
<b>0.625 to 0.75</b>	0.024	0.012	0.008

Dimensions								Designation
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								–
14.5	-0.003	16	0.011	1.238	0.75	0.045	1	<b>PTB750-14500-1125-J1S</b>
14.75	-0.002	15.5	0.005	0.688	0.375	0.03	0.5	<b>PTB375-14750-625-J1S</b>
	-0.003	16	0.009	1.1	0.625	0.045	0.875	<b>PTB625-14750-1000-J1S</b>
15	-0.003	16	0.007	0.825	0.5	0.03	0.625	<b>PTB500-15000-750-J1S</b>
15.25	-0.002	16	0.005	0.688	0.375	0.03	0.5	<b>PTB375-15250-625-J1S</b>
15.5	-0.003	16.75	0.009	1.1	0.625	0.045	0.875	<b>PTB625-15500-1000-J1S</b>
15.75	-0.003	16.75	0.007	0.825	0.5	0.03	0.625	<b>PTB500-15750-750-J1S</b>
16	-0.003	17	0.007	0.825	0.5	0.03	0.625	<b>PTB500-16000-750-J1S</b>
	-0.003	17.25	0.009	1.238	0.625	0.045	0.875	<b>PTB625-16000-1125-J1S</b>
	-0.003	17.5	0.011	1.375	0.75	0.045	1	<b>PTB750-16000-1250-J1S</b>
16.5	-0.003	17.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-16500-750-J1S</b>
17	-0.003	18	0.007	0.825	0.5	0.03	0.625	<b>PTB500-17000-750-J1S</b>
18	-0.003	19	0.007	0.825	0.5	0.03	0.625	<b>PTB500-18000-750-J1S</b>
	-0.003	19.25	0.009	1.1	0.625	0.045	0.875	<b>PTB625-18000-1000-J1S</b>
18.5	-0.003	20	0.011	1.375	0.75	0.045	1	<b>PTB750-18500-1250-J1S</b>
18.75	-0.003	20	0.009	1.1	0.625	0.045	0.875	<b>PTB625-18750-1000-J1S</b>
19	-0.003	20	0.007	0.825	0.5	0.03	0.625	<b>PTB500-19000-750-J1S</b>
20	-0.003	21.5	0.011	1.375	0.75	0.045	1	<b>PTB750-20000-1250-J1S</b>
21	-0.003	22	0.007	0.825	0.5	0.03	0.625	<b>PTB500-21000-750-J1S</b>
22.5	-0.003	24	0.011	1.1	0.75	0.045	1	<b>PTB750-22500-1000-J1S</b>
23	-0.003	24	0.007	0.825	0.5	0.03	0.625	<b>PTB500-23000-750-J1S</b>
24.5	-0.003	25.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-24500-750-J1S</b>
25.5	-0.003	26.5	0.007	0.825	0.5	0.03	0.625	<b>PTB500-25500-750-J1S</b>

Dimensions							Designation	
d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	
in.								-
30.75	-0.003	32	0.009	1.1	0.625	0.045	0.875	PTB625-30750-1000-J1S
35	-0.002	35.75	0.005	0.688	0.375	0.03	0.5	PTB375-35000-625-J1S

Other sizes are available on request

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