



RSB profile data

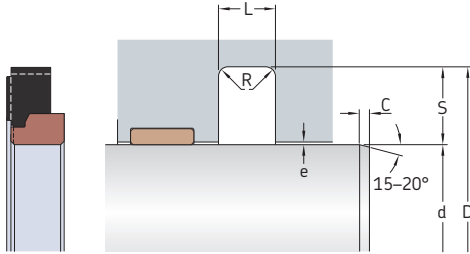


Materials	Energizer: NBA 70A, A-8501 Slide ring: 40% bronze PTFE 741
Pressure	Up to 400 bar (5 800 psi)
Speed	Up to 1 m/s (3.2 ft/s)
Temperature range	<p> ■ Extreme low temperature range: may be intermittently exposed (e.g. cold start-up) without seal damage, but seal performance may be compromised while in this range ■ Temperatures below the recommended operating range: seal performance depends on system design (precision guiding arrangement recommended) ■ Recommended operating temperature range for this profile and material ■ Extreme high temperature range: only occasional short term exposure (e.g. cylinder in curing oven of a powder coating process) </p>
Dimension standards	Some sizes fit seal grooves in accordance with ISO 7425-1.

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

RSB profile buffer seals, inch sizes

d 1.25 – 6 in.



Maximum extrusion gap e

Radial depth S	Series	e _{max} at 80 °C (175 °F) for pressures		
		2 300 psi	3 600 psi	5 800 psi
in.	-	in.		
0.166	2	0.014	0.01	0.008
0.247	3	0.018	0.012	0.008
0.32	4	0.02	0.014	0.01

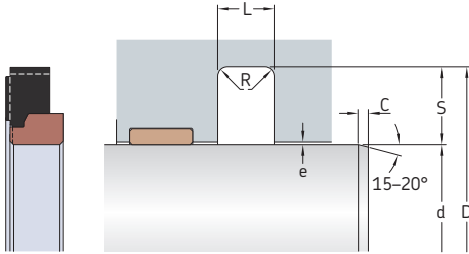
Cylinder dimensions

Designation

d	Tolerance	D	Tolerance	L +0.01	S	R max.	C min.	Series	
in.									-
1.25	-0.003	1.582	+0.004	0.166	0.212	0.022	0.25	2	RSB2-1250-AD2
1.5	-0.003	1.832	+0.004	0.166	0.212	0.022	0.25	2	RSB2-1500-AD2
	-0.004	1.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-1500-AD2
1.75	-0.003	2.082	+0.004	0.166	0.212	0.022	0.25	2	RSB2-1750-AD2
2	-0.004	2.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-2000-AD2
2.25	-0.003	2.582	+0.004	0.166	0.212	0.022	0.25	2	RSB2-2250-AD2
	-0.004	2.744	+0.005	0.247	0.308	0.028	0.312	3	RSB3-2250-AD2
2.375	-0.004	2.869	+0.005	0.247	0.308	0.028	0.312	3	RSB3-2375-AD2
2.5	-0.003	2.832	+0.004	0.166	0.212	0.022	0.25	2	RSB2-2500-AD2
	-0.004	2.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-2500-AD2
2.75	-0.004	3.244	+0.005	0.247	0.308	0.028	0.312	3	RSB3-2750-AD2
3	-0.004	3.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-3000-AD2
3.25	-0.004	3.744	+0.005	0.247	0.308	0.028	0.312	3	RSB3-3250-AD2
3.5	-0.004	3.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-3500-AD2
3.75	-0.004	4.244	+0.005	0.247	0.308	0.028	0.312	3	RSB3-3750-AD2
4	-0.004	4.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-4000-AD2
4.5	-0.004	4.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-4500-AD2
	-0.005	5.14	+0.006	0.32	0.415	0.035	0.312	4	RSB4-4500-AD2
5	-0.004	5.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-5000-AD2
	-0.005	5.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-5000-AD2
5.25	-0.004	5.744	+0.005	0.247	0.308	0.028	0.312	3	RSB3-5250-AD2
5.5	-0.004	5.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-5500-AD2
6	-0.004	6.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-6000-AD2
	-0.005	6.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-6000-AD2

RSB profile buffer seals, inch sizes

d 6.5 – 13 in.



Maximum extrusion gap e

Radial Series e_{max} at 80 °C (175 °F)
depth S for pressures
2 300 psi 3 600 psi 5 800 psi

in.	-	in.		
0.166	2	0.014	0.01	0.008
0.247	3	0.018	0.012	0.008
0.32	4	0.02	0.014	0.01

Cylinder dimensions

Designation

d	Tolerance	D	Tolerance	L	S	R	C	Series	
in.				+0.01		max.	min.		-
6.5	-0.005	7.14	+0.006	0.32	0.415	0.035	0.312	4	RSB4-6500-AD2
7	-0.004	7.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-7000-AD2
	-0.005	7.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-7000-AD2
8	-0.004	8.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-8000-AD2
	-0.005	8.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-8000-AD2
8.5	-0.004	8.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-8500-AD2
9	-0.005	9.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-9000-AD2
10	-0.005	10.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-10000-AD2
10.5	-0.004	10.994	+0.005	0.247	0.308	0.028	0.312	3	RSB3-10500-AD2
11	-0.005	11.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-11000-AD2
13	-0.004	13.494	+0.005	0.247	0.308	0.028	0.312	3	RSB3-13000-AD2
	-0.005	13.64	+0.006	0.32	0.415	0.035	0.312	4	RSB4-13000-AD2

Other sizes are available on request



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