

## Rod Buffer Seals

### Technical details

Metric

Inch

#### Operating conditions

Maximum Speed	4.0 m/sec
Temperature Range	-30°C +100°C
Maximum Pressure	500 bar

12.0 ft/sec
-22°F +212°F
7500 p.s.i.



#### Maximum extrusion gap

Pressure bar	160	250	400	500
Maximum Gap mm	1.0	0.8	0.6	0.4
Pressure p.s.i.	2400	3750	6000	7500

Figures show the maximum permissible gap all on one side using minimum rod  $\varnothing$  and maximum clearance  $\varnothing$ .

#### Surface roughness

	$\mu\text{mRa}$	$\mu\text{mRt}$	$\mu\text{inCLA}$	$\mu\text{inRMS}$
Dynamic Sealing Face $\varnothing d_1$	0.1 <-> 0.4	4 max	4 <-> 16	5 <-> 18
Static Sealing Face $\varnothing D_1$	1.6 max	10 max	63 max	70 max
Static Housing Faces $L_1$	3.2 max	16 max	125 max	140 max

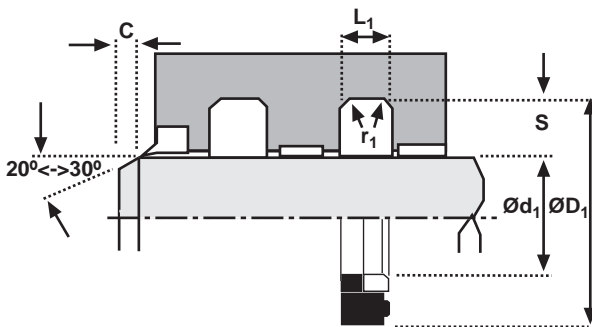
#### Chamfers & Radii

Min Chamfer C mm	5.00
Max Fillet Rad $r_1$ mm	0.80

#### Tolerances

	$\varnothing d_1$	$\varnothing D_1$	$L_1$
mm	f9	H10	+0.2 -0

SRB



### Design

CDI's Secondary Rod Seal with Back-Up (SRB), includes a thermoplastic back-up ring. It is designed to protect the primary rod seal from pressure spikes and is available for more severe applications.

### Features

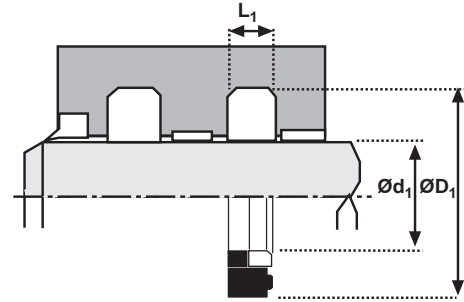
- Low friction - no stick slip
- Self relieving design prevents pressure trapping
- High strength machined PTFE cap ring
- Wide range of materials, available for special applications
- Extended temperature ranges

### ORDERING INFORMATION

Example: Rod Diameter 80mm

Product code	SRB	SRB-80MM - N 702 A
Rod Diameter		
Energizer Material	N = NBR, H = HNBR F = FKM, E = EPDM	
SRS Ring Material	702 PTFE 15% Glass, 5% MoS2 741 PTFE 40% Bronze	
Back-Up Material	A = 798 Oil Filled Nylon B = 707 MoS2 Filled	

# SRB



Ød <sub>1</sub>	TOL f9	ØD <sub>1</sub>	TOL H10	L <sub>1</sub> +0,2	PART NUMBER
40	-0,025 -0,087	55,6	+0,100 +0,000	6,3	SRB-40MM
45	-0,025 -0,087	60,6	+0,100 +0,000	6,3	SRB-45MM
50	-0,025 -0,087	65,6	+0,100 +0,000	6,3	SRB-50MM
55	-0,030 -0,104	70,6	+0,120 +0,000	6,3	SRB-55MM
60	-0,030 -0,104	75,6	+0,120 +0,000	6,3	SRB-60MM
65	-0,030 -0,104	80,6	+0,120 +0,000	6,3	SRB-65MM
70	-0,030 -0,104	85,6	+0,120 +0,000	6,3	SRB-70MM
75	-0,030 -0,104	90,6	+0,120 +0,000	6,3	SRB-75MM
80	-0,030 -0,104	95,6	+0,120 +0,000	6,3	SRB-80MM
85	-0,036 -0,123	100,6	+0,140 +0,000	6,3	SRB-85MM
90	-0,036 -0,123	105,6	+0,140 +0,000	6,3	SRB-90MM
95	-0,036 -0,123	110,6	+0,140 +0,000	6,3	SRB-95MM
100	-0,036 -0,123	115,6	+0,140 +0,000	6,3	SRB-100MM

Ød <sub>1</sub>	TOL f9	ØD <sub>1</sub>	TOL H10	L <sub>1</sub> +0,2	PART NUMBER
105	-0,036 -0,123	120,6	+0,140 +0,000	6,3	SRB-105MM
110	-0,036 -0,123	125,6	+0,140 +0,000	6,3	SRB-110MM
115	-0,036 -0,123	130,6	+0,140 +0,000	6,3	SRB-115MM
120	-0,036 -0,123	135,6	+0,140 +0,000	6,3	SRB-120MM
125	-0,043 -0,143	140,6	+0,160 +0,000	6,3	SRB-125MM
130	-0,043 -0,143	145,6	+0,160 +0,000	6,3	SRB-130MM
135	-0,043 -0,143	150,6	+0,160 +0,000	6,3	SRB-135MM
140	-0,043 -0,143	155,6	+0,160 +0,000	6,3	SRB-140MM
150	-0,043 -0,143	165,6	+0,160 +0,000	6,3	SRB-150MM
160	-0,043 -0,143	175,6	+0,160 +0,000	6,3	SRB-160MM
170	-0,043 -0,143	185,6	+0,160 +0,000	6,3	SRB-170MM
180	-0,043 -0,143	195,6	+0,160 +0,000	6,3	SRB-180MM