

Design

Used in tandem, the AB Seals SSR rod seal provides the designer with a compact low friction seal for light to medium duty hydraulic cylinders. It is designed to have high contact area with the rod to retain the media at low pressure. Standard seals are supplied with a nitrile O ring but other materials can also be provided.



For information about other material options available, please contact your local AB Seals office.

OPERATING RANGE

Technical details	Metric	Inch
Maximum Speed	1 m/sec	3.28 ft/sec
Temperature Range	-30 to +100	-22F + 212F
Maximum Pressure	360 bar	5220 P.S.I
Operating Fluid	Standard hydraulic oils	

MATERIAL

- Main seal- PTB4 / PTB6
- O' ring- NBR 75 / VKM75

APPLICATION

- Mobile hydraulics
- Agriculture equipment
- Machine tools

Maximum Extrusions Gap

Allowable Extrusion Gap is
0.2 to 0.3 mm

Surface Roughness

Technical details	Ra (um)	Rt (um)
Sliding Surface	0.1	1.5
Base Groove	0.8	6.3
Side Groove	3.2	15

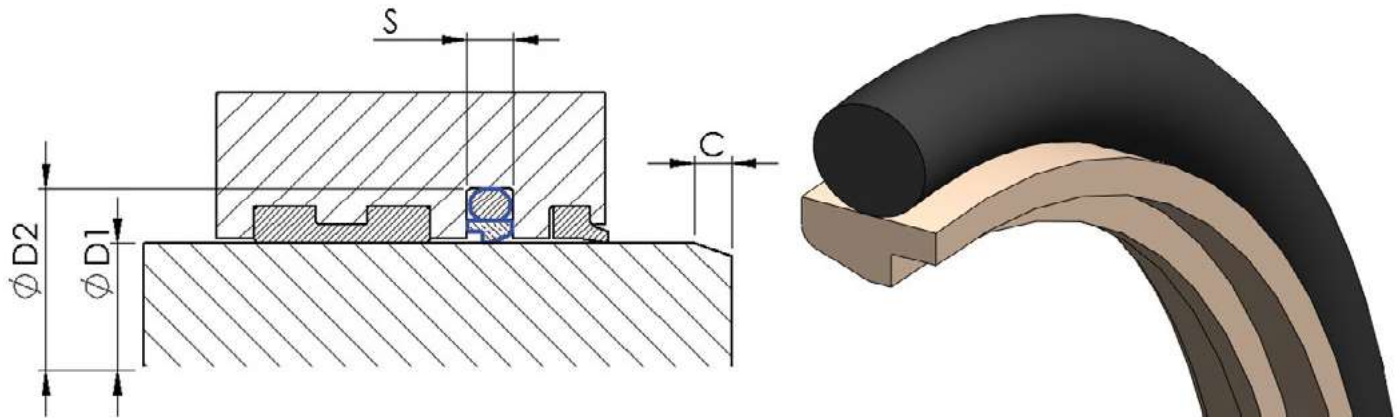
Chamfers & Radii

Chamfer 3.75 - 12.25 mm
Radii 0.4 - 0.8 mm

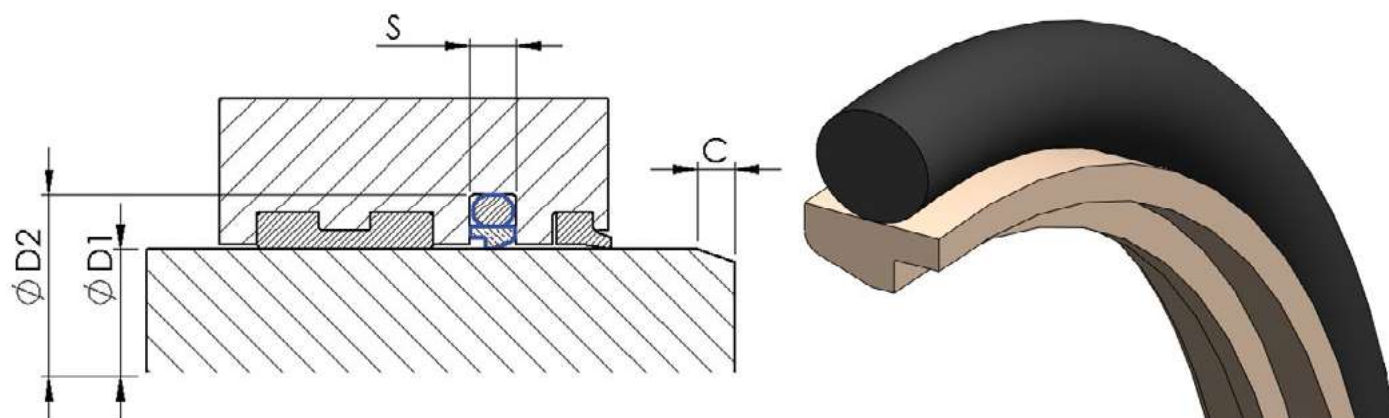
Standard Bore- DH8	Groove Width L, D10	EXTRUSION GAP		Seal width b
		0-200 bar	200 - 350 bar	
6 - 8	2,2	0,3 - 0,2	0,2 - 0,15	1,7
8 - 18	3,2	0,4 - 0,25	0,25 - 0,15	2,7
19 - 37	4,2	0,4 - 0,25	0,25 - 0,15	3,7
38 - 199	6,3	0,5 - 0,3	0,3 - 0,2	5,8
200 - 255	8,1	0,5 - 0,3	0,3 - 0,2	7,6
256 - 649	8,1	0,6 - 0,35	0,35 - 0,25	7,6
650 - 999	9,5	0,7 - 0,4	0,4 - 0,3	9,0

Ordering Code:

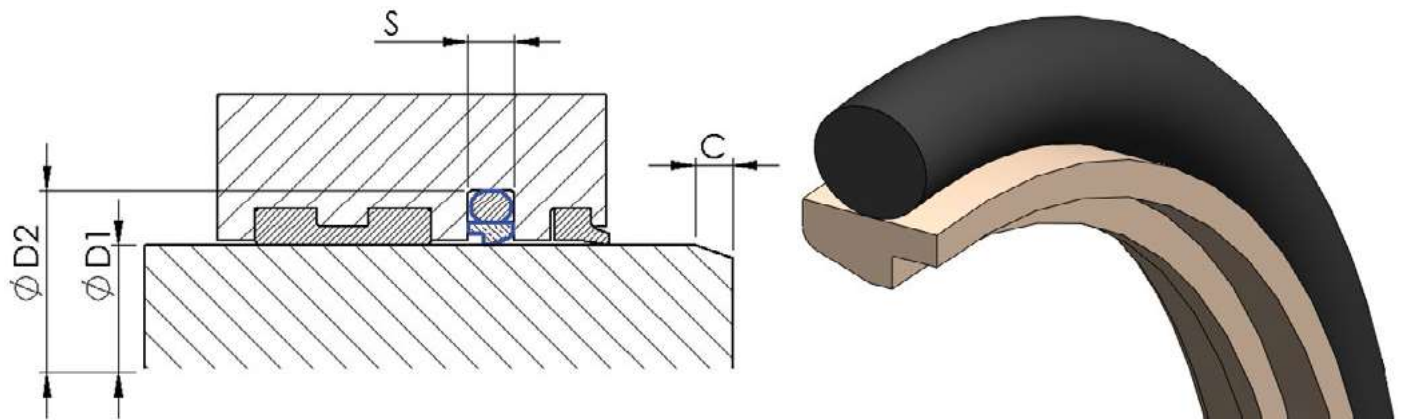
- Example For Temperature -30 to 100, And Tube Rod 50mm - SSR506142
- For Temperature -30 to 200, And Tube Rod 50mm - SSRV506142
- For information about other material options available, please contact your local AB Seals office.
- For Requirement of other sizes contact us.



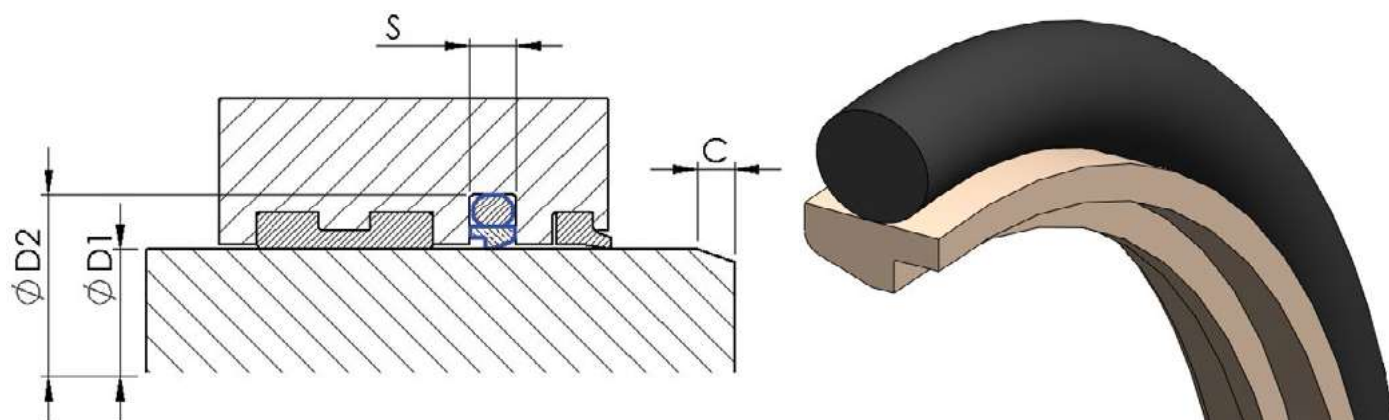
Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
20X27.5X3	20	27.5	3.2	23X2.62	SSR2027532
20X31X4	20	31	4.2	25X3.53	SSR203142
20X35X6	20	35	6.3	27X5.33	SSR203563
22X29.5X3	22	29.5	3.2	25X2.62	SSR2229532
22X33X4	22	33	4.2	27X3.53	SSR223342
25X32.5X3	25	32.5	3.2	28X2.62	SSR2532532
25X36X4	25	36	4.2	30X3.53	SSR253642
25X37X4	25	37	4.5	30X3.5	SSR253745
25X40X6	25	40	6.3	32X5.33	SSR254063
28X35.5X3	28	35.5	3.2	31X2.62	SSR2835532
28X39X4	28	39	4.2	33X3.53	SSR283942
28X40X4	28	40	4.5	34X3.5	SSR284045
30X37.5X3	30	37.5	3.2	33X2.62	SSR3037532
30X41X4	30	41	4.2	35X3.53	SSR304142
30X42X4	30	42	4.5	34X3.5	SSR304245
30X45X6	30	45	6.3	37X5.33	SSR304563
32X39.5X3	32	39.5	3.2	35X2.62	SSR3239532
32X43X4	32	43	4.2	37X3.53	SSR324342
35X42.5X3	35	42.5	3.2	38X2.62	SSR3542532
35X46X4	35	46	4.2	40X3.53	SSR354642
35X48X4	35	48	4.5	40X3.5	SSR354845
35X50X6	35	50	6.3	42X5.33	SSR355063
36X43.5X3	36	43.5	3.2	39X2.62	SSR3643532
36X47X4	36	47	4.2	41X3.53	SSR364742
36X49X4	36	49	4.5	42X3.5	SSR364945
38X49X4	38	49	4.2	43X3.53	SSR384942
38X53X6	38	53	6.3	45X5.33	SSR385363



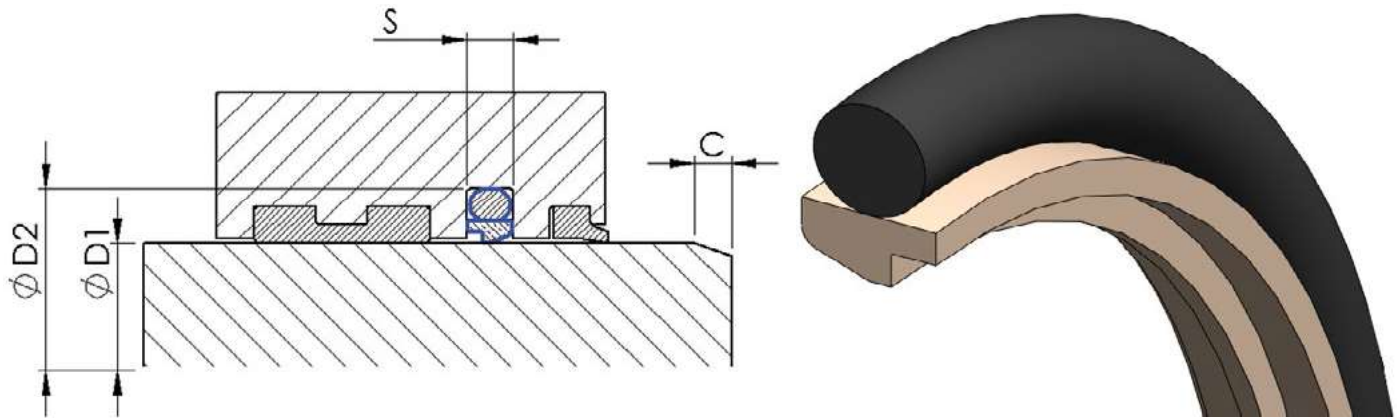
Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
40X51X4	40	51	4.2	45X3.53	SSR405142
40X52X4	40	52	4.5	45X3.5	SSR405245
40X55X6	40	55	6.3	47X5.33	SSR405563
42X53X4	42	53	4.2	47X3.53	SSR425342
42X57X6	42	57	6.3	49X5.33	SSR425763
45X56X4	45	56	4.2	50X3.53	SSR455642
45X57X4	45	57	4.5	50X3.5	SSR455745
45X60X6	45	60	6.3	52X5.33	SSR456063
48X63X6	48	63	6.3	55X5.33	SSR486363
50X61X4	50	61	4.2	55X3.53	SSR506142
50X62X4	50	62	4.5	55X3.5	SSR506245
50X65X6	50	65	6.3	57X5.33	SSR506563
55X66X4	55	66	4.2	60X3.53	SSR556642
55X70X6	55	70	6.3	62X5.33	SSR557063
56X67X4	56	67	4.2	61X3.53	SSR566742
56X71X6	56	71	6.3	63X5.33	SSR567163
60X71X4	60	71	4.2	65X3.53	SSR607142
60X75X6	60	75	6.3	67X5.33	SSR607563
60X77X6	60	77	6.5	66X5.5	SSR607765
63X74X4	63	74	4.2	68X3.53	SSR637442
63X78X6	63	78	6.3	70X5.33	SSR637863
63X80X6	63	80	6.5	69X5.5	SSR638065
65X76X4	65	76	4.2	70X3.53	SSR657642
65X80X6	65	80	6.3	72X5.33	SSR658063
65X82X6	65	82	6.5	71X5.5	SSR658265
68X83X6	68	83	6.3	75X5.33	SSR688363
70X81X4	70	81	4.2	75X3.53	SSR708142



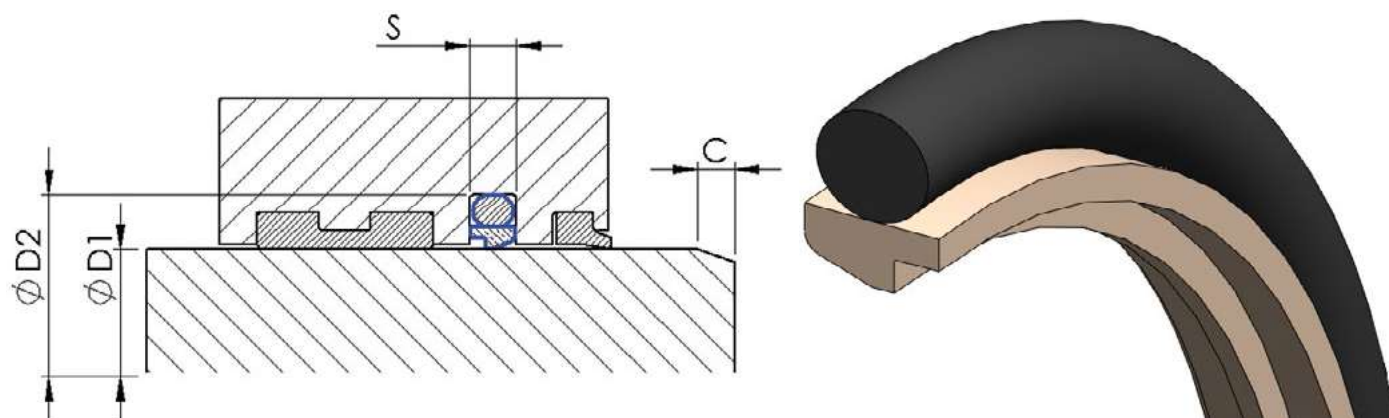
Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
70X85X6	70	85	6.3	77X5.33	SSR708563
70X87X6	70	87	6.5	76X5.5	SSR708765
75X86X4	75	86	4.2	80X3.53	SSR758642
75X90X6	75	90	6.3	82X5.33	SSR759063
75X92X6	75	92	6.5	81X5.5	SSR759265
78X93X6	78	93	6.3	85X5.33	SSR789363
80X91X4	80	91	4.2	85X3.53	SSR809142
80X95X6	80	95	6.3	87X5.33	SSR809563
80X97X6	80	97	6.5	86X5.5	SSR809765
80X100.5X8	80	100.5	8.1	90X7	SSR80100581
83X98X6	83	98	6.3	90X5.33	SSR839863
85X96X4	85	96	4.2	90X3.53	SSR859642
85X100X6	85	100	6.3	92X5.33	SSR8510063
85X102X6	85	102	6.5	91X5.5	SSR8510265
88X103X6	88	103	6.3	95X5.33	SSR8810363
90X101X4	90	101	4.2	95X3.53	SSR9010142
90X105X6	90	105	6.3	97.5X5.33	SSR9010563
90X107X6	90	107	6.5	96X5.5	SSR9010765
90X110.5X8	90	110.5	8.1	100X7	SSR90110581
95X110X6	95	110	6.3	102.5X5.33	SSR9511063
98X113X6	98	113	6.3	105.5X5.33	SSR9811363
100X115X6	100	115	6.3	107.5X5.33	SSR10011563
100X117X6	100	117	6.5	106X5.5	SSR10011765
100X120.5X8	100	120.5	8.1	110X7	SSR100120581
105X116X4	105	116	4.2	110X3.53	SSR10511642
105X120X6	105	120	6.3	112.5X5.33	SSR10512063
105X122X6	105	122	6.5	112X5.5	SSR10512265



Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
108X123X6	108	123	6.3	115.5X5.33	SSR10812363
110X125X6	110	125	6.3	117.5X5.33	SSR11012563
110X127X6	110	127	6.5	117X5.5	SSR11012765
110X130.5X8	110	130.5	8.1	120X6.99	SSR110130581
115X130X6	115	130	6.3	122.5X5.33	SSR11513063
115X135.5X8	115	135.5	8.1	125X6.99	SSR115135581
118X133X6	118	133	6.3	125.5X5.33	SSR11813363
120X135X6	120	135	6.3	127.5X5.33	SSR12013563
120X137X6	120	137	6.5	127X5.5	SSR12013765
120X140.5X8	120	140.5	8.1	130X6.99	SSR120140581
125X140X6	125	140	6.3	132.5X5.33	SSR12514063
125X142X6	125	142	6.5	132X5.5	SSR12514265
125X145.5X8	125	145.5	8.1	135X6.99	SSR125145581
127X138X4	127	138	4.2	132.5X3.53	SSR12713842
127X142X6	127	142	6.3	134.5X5.33	SSR12714263
128X143X6	128	143	6.3	135.5X5.33	SSR12814363
130X145X6	130	145	6.3	137.5X5.33	SSR13014563
130X147X6	130	147	6.5	137X5.5	SSR13014765
130X150.5X8	130	150.5	8.1	140X6.99	SSR130150581
135X150X6	135	150	6.3	142.5X5.33	SSR13515063
135X155.5X8	135	155.5	8.1	145X6.99	SSR135155581
136X151X6	136	151	6.3	143.5X5.33	SSR13615163
138X153X6	138	153	6.3	145.5X5.33	SSR13815363
140X151X4	140	151	4.2	145.5X3.53	SSR14015142
140X155X6	140	155	6.3	147.5X5.33	SSR14015563
140X157X6	140	157	6.5	146X5.5	SSR14015765
140X160.5X8	140	160.5	8.1	150X6.99	SSR140160581



Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
145X156X4	145	156	4.2	150.5X3.53	SSR14515642
145X160X6	145	160	6.3	152.5X5.33	SSR14516063
150X165X6	150	165	6.3	157.5X5.33	SSR15016563
150X167X6	150	167	6.5	156X5.5	SSR15016765
150X170.5X8	150	170.5	8.1	160X6.99	SSR150170581
155X170X6	155	170	6.3	162.5X5.33	SSR15517063
160X175X6	160	175	6.3	167.5X5.33	SSR16017563
160X181X7.5	160	181	8	167X7	SSR1601818
160X180.5X8	160	180.5	8.1	170X6.99	SSR160180581
165X180X6	165	180	6.3	172.5X5.33	SSR16518063
170X185X6	170	185	6.3	177.5X5.33	SSR17018563
170X191X7.5	170	191	8	177X7	SSR1701918
170X190.5X8	170	190.5	8.1	180X6.99	SSR170190581
175X186X4	175	186	4.2	180.5X3.53	SSR17518642
175X190X6	175	190	6.3	182.5X5.33	SSR17519063
175X195.5X8	175	195.5	8.1	185X6.99	SSR175195581
180X195X6	180	195	6.3	187.5X5.33	SSR18019563
180X201X7.5	180	201	8	187X7	SSR1802018
180X200.5X8	180	200.5	8.1	190X6.99	SSR180200581
185X200X6	185	200	6.3	192.5X5.33	SSR18520063
190X205.5X6	190	205.5	6.3	197.5X5.33	SSR190205563
190X211X7.5	190	211	8	197X7	SSR1902118
190X210.5X8	190	210.5	8.1	200X6.99	SSR190210581
195X210X6	195	210	6.3	202.5X5.33	SSR19521063
200X215X6	200	215	6.3	207.5X5.33	SSR20021563
200X221X7.5	200	221	8	207X7	SSR2002218
200X220.5X8	200	220.5	8.1	210X6.99	SSR200220581



Assy Size	ØD1	ØD2	S	O Ring Size	Pt No
210X230.5X8	210	230.5	8.1	220X6.99	SSR210230581
215X235.5X8	215	235.5	8.1	225X6.99	SSR215235581
220X240.5X8	220	240.5	8.1	230X6.99	SSR220240581
225X245.5X8	225	245.5	8.1	235X6.99	SSR225245581
230X250.5X8	230	250.5	8.1	240X6.99	SSR230250581
235X255.5X8	235	255.5	8.1	245X6.99	SSR235255581
240X260.5X8	240	260.5	8.1	250X6.99	SSR240260581
245X265.5X8	245	265.5	8.1	255X6.99	SSR245265581
250X270.5X8	250	270.5	8.1	260X6.99	SSR250270581
260X284X8	260	284	8.1	273X6.99	SSR26028481
270X294X8	270	294	8.1	283X6.99	SSR27029481
275X299X8	275	299	8.1	288X6.99	SSR27529981
280X304X8	280	304	8.1	293X6.99	SSR28030481
290X314X8	290	314	8.1	303X6.99	SSR29031481
300X324X8	300	324	8.1	313X6.99	SSR30032481
304X328X8	304	328	8.1	317X6.99	SSR30432881
310X334X8	310	334	8.1	323X6.99	SSR31033481
320X344X8	320	344	8.1	333X6.99	SSR32034481
330X354X8	330	354	8.1	343X6.99	SSR33035481
340X364X8	340	364	8.1	353X6.99	SSR34036481
350X374X8	350	374	8.1	363X6.99	SSR35037481
360X384X8	360	384	8.1	373X6.99	SSR36038481
375X399X8	375	399	8.1	388X6.99	SSR37539981
380X404X8	380	404	8.1	393X6.99	SSR38040481
390X414X8	390	414	8.1	403X6.99	SSR39041481
400X424X8	400	424	8.1	413X6.99	SSR40042481
410X434X8	410	434	8.1	423X6.99	SSR41043481