

Design

The Turcon Piston seal SSP is a compact seal for light to medium duty hydraulic application. This is a double acting piston seal with single acting capabilities. This makes it an excellent choice for double acting applications where minimal dynamic leakage is required. The housing width allows a narrow width piston to be used, but it is recommended that an adequate bearing is mounted on one or both sides of the seal.



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 ft/sec
Temperature Range	-30 to +100	-22 + 212
Maximum Pressure	250 bar	3600 P.S.I
Operating Fluid		

MATERIAL

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

APPLICATION

- Mobile hydraulics
- Agriculture equipment
- Machine tools
- Lift platforms

Maximum Extrusions Gap

Allowable Extrusion Gap is
0.1 to 0.3 mm

Surface Roughness

Technical details	Ra (um)	Rt (um)
Sliding Surface	0.4	4
Base Groove	1.6	10
Side Groove	3.2	16

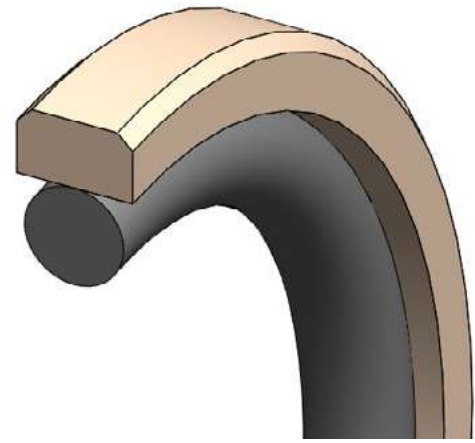
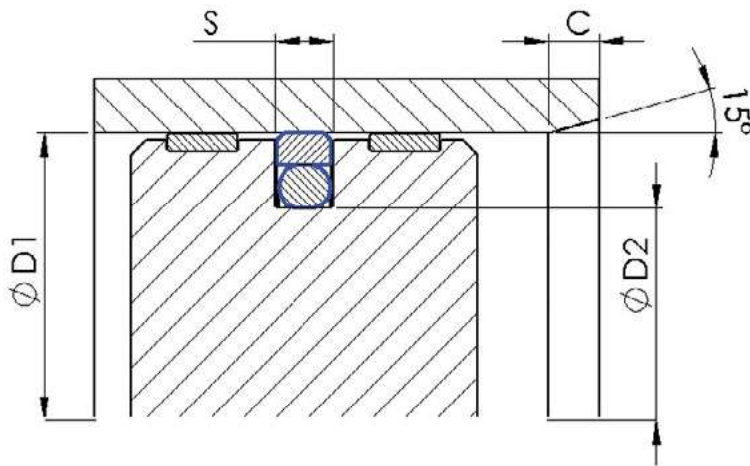
Chamfers & Radii

Chamfer 3.75 - 10.5
Radii 0.4 - 8 mm

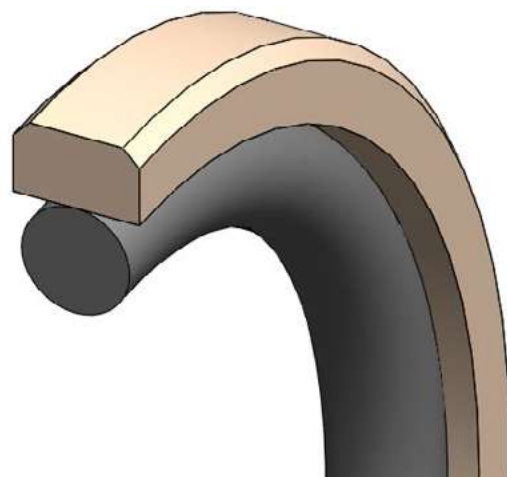
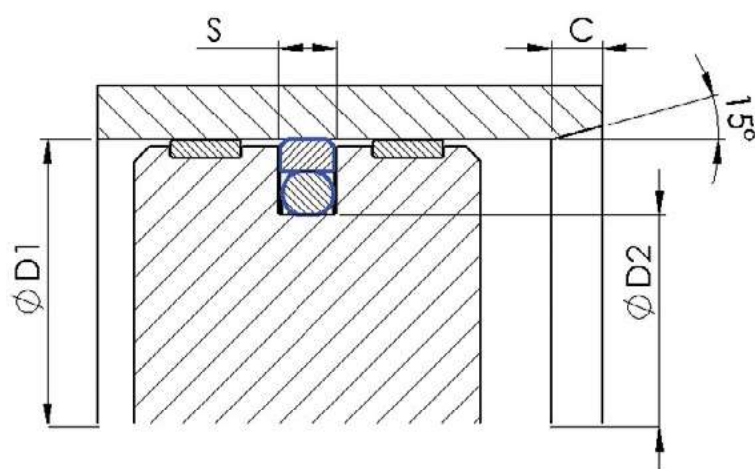
Standard Bore- DH8	Groove Width L D10	EXTRUSION GAP		SEAL WIDTH b
		0-200 bar	200 - 360 bar	
8 - 14	2,2	0,25 - 0,15	0,15 - 0,10	1,9
15 - 39	3,2	0,4 - 0,25	0,25 - 0,15	2,9
40 - 79	4,2	0,4 - 0,25	0,25 - 0,2	3,9
80 - 132	6,3	0,5 - 0,3	0,3 - 0,2	6,0
133 - 329	8,1	0,5 - 0,3	0,3 - 0,25	7,8
330 - 669	8,1	0,6 - 0,35	0,4 - 0,3	7,8
670 - 999	9,5	0,7 - 0,4	0,5 - 0,35	9,2

Ordering Code:

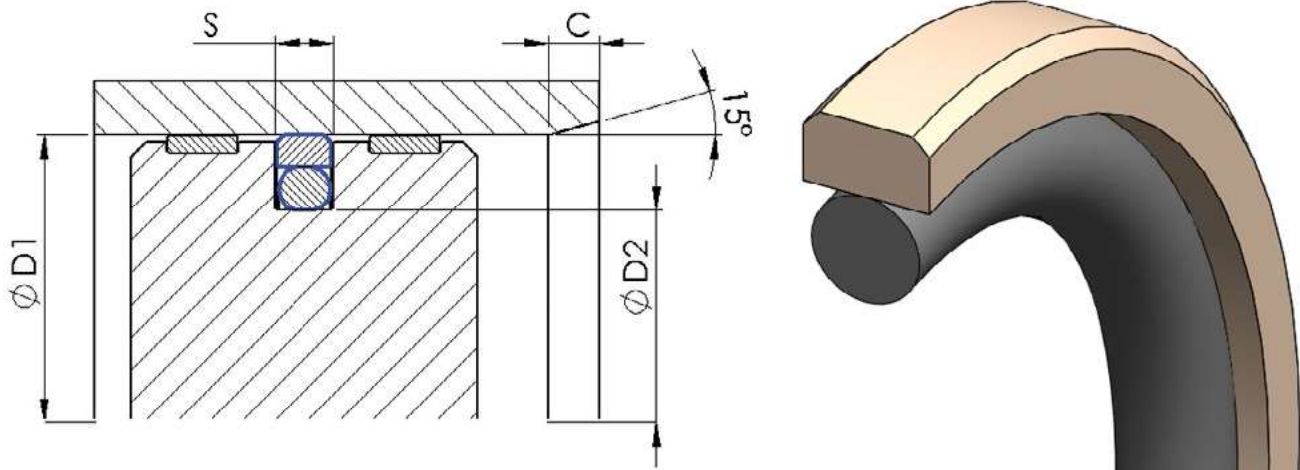
- Example For Temperature -30 to 100, And Tube Bore 50mm - SSP503942
- For Temperature -30 to 200, And Tube Bore 50mm - SSPV503942
- For information about other material options available, please contact your local AB Seals office.
- For Requirement of other sizes contact us.



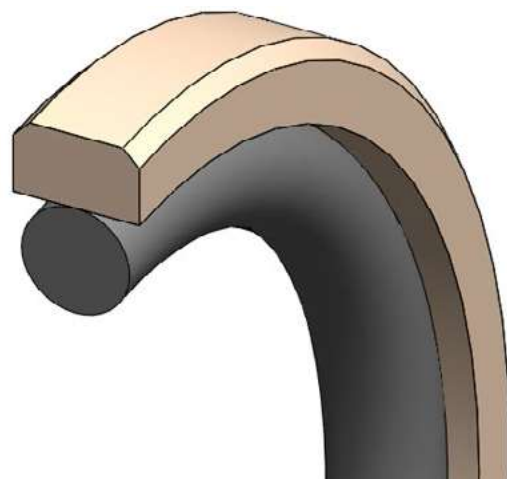
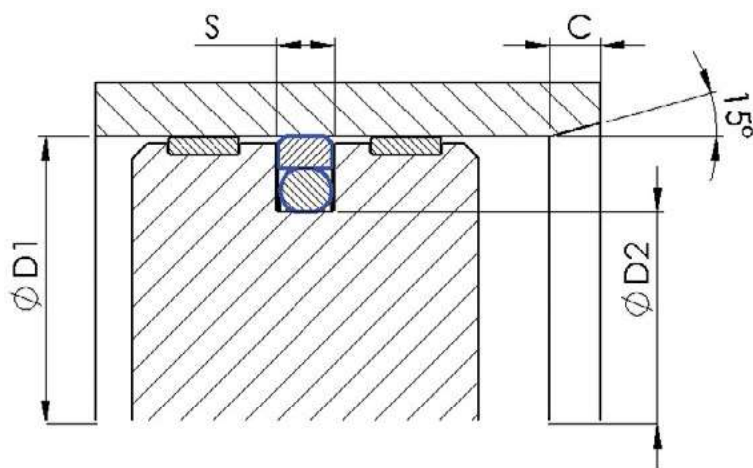
Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
20X12.5X3	20	12.5	3.2	12X2.62	SSP2012532
22X14.5X3	22	14.5	3.2	14X2.62	SSP2214532
24X16.5X3	24	16.5	3.2	16X2.62	SSP2416532
25X17.5X3	25	17.5	3.2	17X2.62	SSP2517532
25X14X4	25	14	4.2	14X3.53	SSP251442
27X19.5X3	27	19.5	3.2	19X2.62	SSP2719532
28X20.5X3	28	20.5	3.2	20X2.62	SSP2820532
28X17X4	28	17	4.2	17X3.53	SSP281742
30X22.5X3	30	22.5	3.2	22X2.62	SSP3022532
30X19X4	30	19	4.2	19X3.53	SSP301942
32X24.5X3	32	24.5	3.2	24X2.62	SSP3224532
32X21X4	32	21	4.2	21X3.53	SSP322142
35X27.5X3	35	27.5	3.2	27X2.62	SSP3527532
35X24X4	35	24	4.2	24X3.53	SSP352442
36X28.5X3	36	28.5	3.2	28X2.62	SSP3628532
36X25X4	36	25	4.2	25X3.53	SSP362542
38X30.5X3	38	30.5	3.2	30X2.62	SSP3830532
38X27X4	38	27	4.2	27X3.53	SSP382742
40X32.5X3	40	32.5	3.2	32X2.62	SSP4032532
40X28X4	40	28	4.5	28X3.5	SSP402845
40X29X4	40	29	4.2	28X3.53	SSP402942
40X24.5X6	40	24.5	6.3	24X5.33	SSP4024563
42X31X4	42	31	4.2	31X3.53	SSP423142
45X37.5X3	45	37.5	3.2	37X2.62	SSP4537532
45X33X4	45	33	4.5	33X3.5	SSP453345
45X34X4	45	34	4.2	34X3.53	SSP453442
45X29.5X6	45	29.5	6.3	29X5.33	SSP4529563



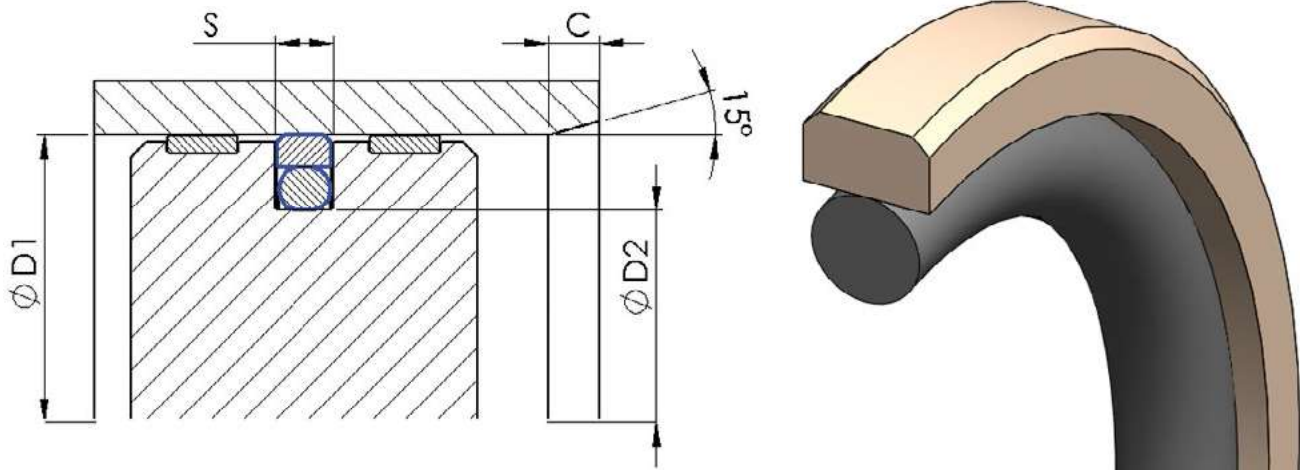
Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
48X37X4	48	37	4.2	37X3.53	SSP483742
50X42.5X3	50	42.5	3.2	42X2.62	SSP5042532
50X38X4	50	38	4.5	38X3.5	SSP503845
50X39X4	50	39	4.2	39X3.53	SSP503942
50X34.5X6	50	34.5	6.3	34X5.33	SSP5034563
52X41X4	52	41	4.2	41X3.53	SSP524142
55X43X4	55	43	4.5	43X3.5	SSP554345
55X44X4	55	44	4.2	44X3.53	SSP554442
55X39.5X6	55	39.5	6.3	39X5.33	SSP5539563
56X45X4	56	45	4.2	45X3.53	SSP564542
60X48X4	60	48	4.5	48X3.5	SSP604845
60X49X4	60	49	4.2	49X3.53	SSP604942
60X44.5X6	60	44.5	6.3	44X5.33	SSP6044563
63X51X4	63	51	4.5	51X3.5	SSP635145
63X52X4	63	52	4.2	52X3.53	SSP635242
63X47.5X6	63	47.5	6.3	47X5.33	SSP6347563
65X53X4	65	53	4.5	53X3.5	SSP655345
65X54X4	65	54	4.2	54X3.53	SSP655442
65X49.5X6	65	49.5	6.3	49X5.33	SSP6549563
70X58X4	70	58	4.5	58X3.5	SSP705845
70X59X4	70	59	4.2	59X3.53	SSP705942
70X54.5X6	70	54.5	6.3	54X5.33	SSP7054563
75X64X4	75	64	4.2	64X3.53	SSP756442
75X59.5X6	75	59.5	6.3	59X5.33	SSP7559563
75X60X6	75	60	6.5	60X5	SSP756065
75X54X8	75	54	8.1	54X7	SSP755481
80X69X4	80	69	4.2	69X3.53	SSP806942



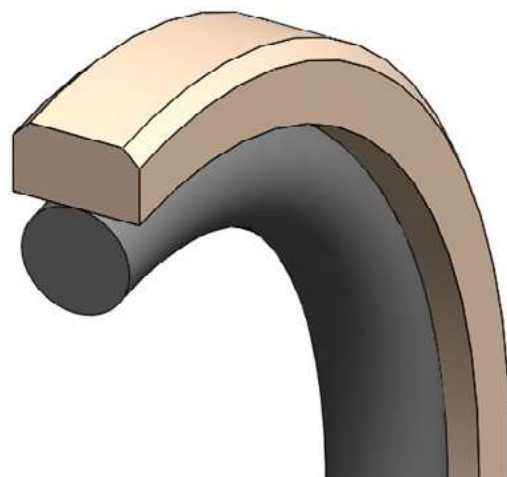
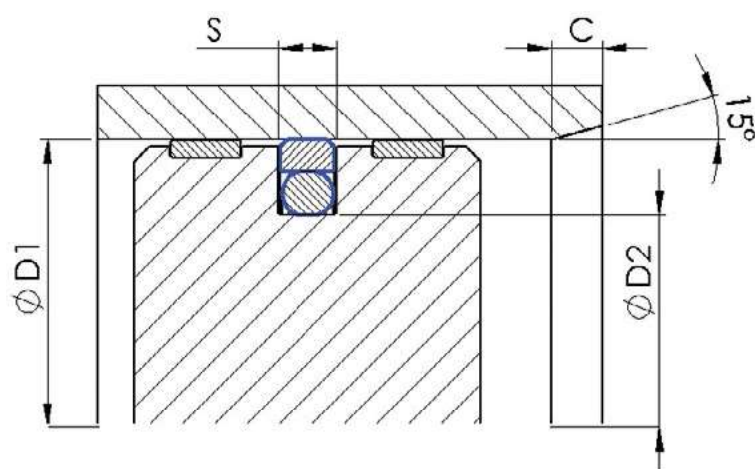
Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
80X64.5X6	80	64.5	6.3	64X5.33	SSP8064563
80X65X6	80	65	6.5	65X5	SSP806565
80X59X8	80	59	8.1	59X7	SSP805981
85X74X4	85	74	4.2	74X3.53	SSP857442
85X69.5X6	85	69.5	6.3	69X5.33	SSP8569563
85X70X6	85	70	6.5	70X5	SSP857065
85X64X8	85	64	8.1	64X7	SSP856481
90X79X4	90	79	4.2	79X3.53	SSP907942
90X74.5X6	90	74.5	6.3	74X5.33	SSP9074563
90X75X6	90	75	6.5	75X5	SSP907565
90X69X8	90	69	8.1	69X6.99	SSP906981
95X84X4	95	84	4.2	84X3.50	SSP958442
95X79.5X6	95	79.5	6.3	79X5.33	SSP9579563
95X80X6	95	80	6.5	80X5	SSP958065
95X74X8	95	74	8.1	74X7	SSP957481
100X89X4	100	89	4.2	89X3.53	SSP1008942
100X84.5X6	100	84.5	6.3	84X5.33	SSP10084563
100X85X6	100	85	6.5	85X5	SSP1008565
100X79X8	100	79	8.1	79X6.99	SSP1007981
101.6X86.6X6	101.6	86.6	6.5	86.6X5	SSP101686665
105X94X4	105	94	4.2	94X3.50	SSP1059442
105X89.5X6	105	89.5	6.3	89X5.33	SSP10589563
105X90X6	105	90	6.5	90X5	SSP1059065
105X84X8	105	84	8.1	84X7	SSP1058481
110X99X4	110	99	4.2	99X3.53	SSP1109942
110X94.5X6	110	94.5	6.3	94X5.33	SSP11094563
110X95X6	110	95	6.5	95X5	SSP1109565



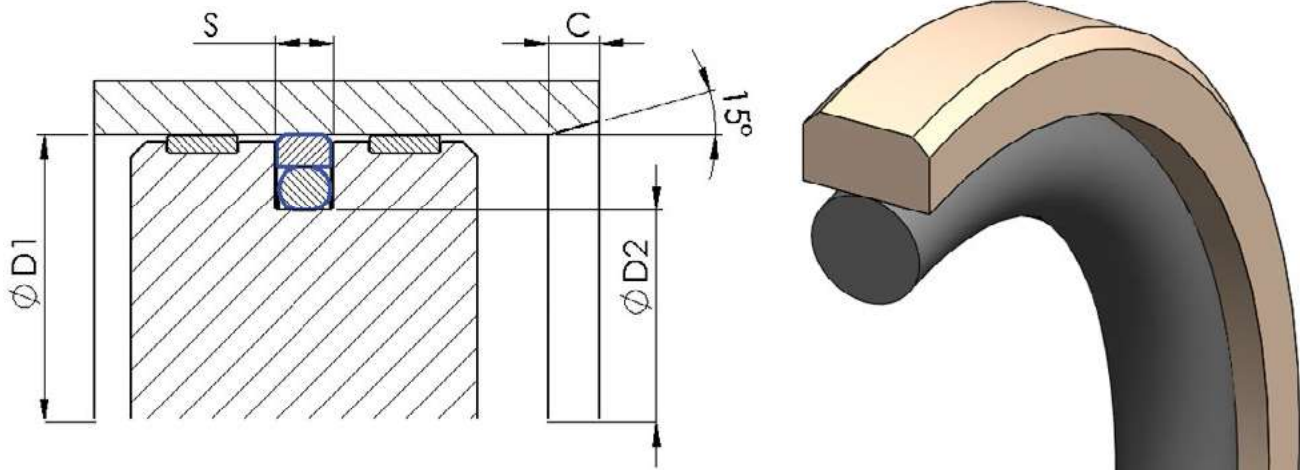
Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
110X89X8	110	89	8.1	89X7	SSP1108981
115X104X4	115	104	4.2	104X3.53	SSP11510442
115X99.5X6	115	99.5	6.3	99X5.33	SSP11599563
115X100X6	115	100	6.5	100X5	SSP11510065
115X94X8	115	94	8.1	94X7	SSP1159481
120X109X4	120	109	4.2	109X3.53	SSP12010942
120X104.5X6	120	104.5	6.3	104X5.33	SSP120104563
120X105X6	120	105	6.5	105X5	SSP12010565
120X99X8	120	99	8.1	99X7	SSP1209981
125X114X4	125	114	4.2	114X3.53	SSP12511442
125X109.5X6	125	109.5	6.3	109X5.33	SSP125109563
125X110X6	125	110	6.5	110X5	SSP12511065
125X104X8	125	104	8.1	104X7	SSP12510481
127X112X6	127	112	6.5	112X5	SSP12711265
128X113X6	128	113	6.5	113X5	SSP12811365
130X114.5X6	130	114.5	6.3	114X5.33	SSP130114563
130X115X6	130	115	6.5	115X5	SSP13011565
130X109X8	130	109	8.1	109X6.99	SSP13010981
135X119.5X6	135	119.5	6.3	119X5.33	SSP135119563
135X120X6	135	120	6.5	120X5	SSP13512065
135X114X8	135	114	8.1	114X6.99	SSP13511481
140X124.5X6	140	124.5	6.3	124X5.33	SSP140124563
140X119X8	140	119	8.1	119X6.99	SSP14011981
140X121X8	140	121	8.5	121X7	SSP14012185
145X129.5X6	145	129.5	6.3	129X5.33	SSP145129563
145X124X8	145	124	8.1	124X6.99	SSP14512481
145X126X8	145	126	8.5	126X7	SSP14512685



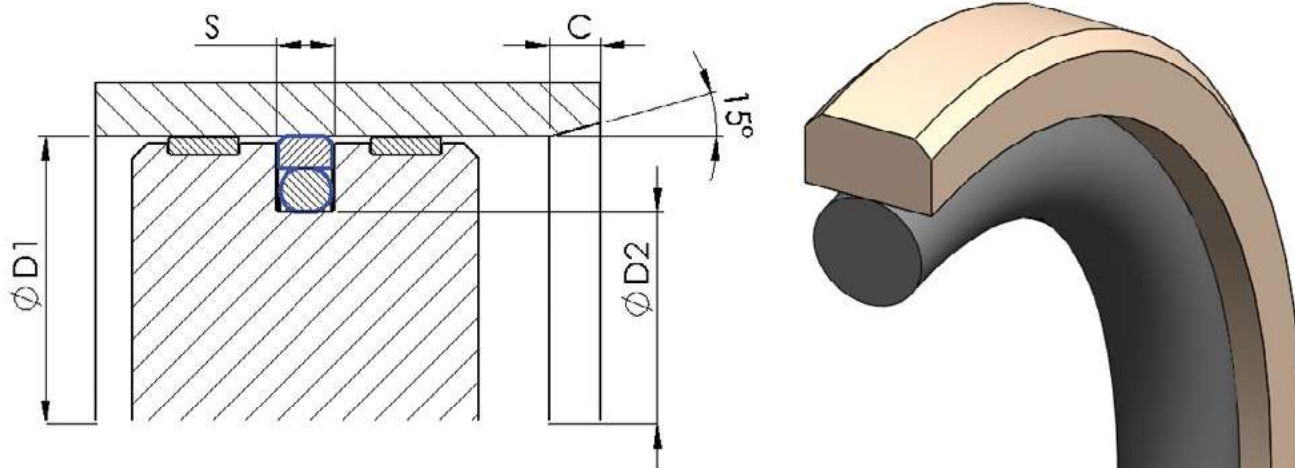
Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
150X134.5X6	150	134.5	6.3	134X5.33	SSP150134563
150X128X8	150	128	8.5	128X7	SSP15012885
150X129X8	150	129	8.1	129X6.99	SSP15012981
152.4X130X8	152.4	130	8.5	130X7	SSP152413085
155X139.5X6	155	139.5	6.3	139X5.33	SSP155139563
155X133X8	155	133	8.5	133X7	SSP15513385
155X134X8	155	134	8.1	134X6.99	SSP15513481
160X144.5X6	160	144.5	6.3	144X5.33	SSP160144563
160X138X8	160	138	8.5	138X7	SSP16013885
160X139X8	160	139	8.1	139X6.99	SSP16013981
165X149.5X6	165	149.5	6.3	149X5.33	SSP165149563
165X144X8	165	144	8.1	144X6.99	SSP16514481
170X154.5X6	170	154.5	6.3	154X5.33	SSP170154563
170X148X8	170	148	8.5	148X7	SSP17014885
170X149X8	170	149	8.1	149X6.99	SSP17014981
175X159.5X6	175	159.5	6.3	159X5.33	SSP175159563
175X154X8	175	154	8.1	154X6.99	SSP17515481
180X164.5X6	180	164.5	6.3	164X5.33	SSP180164563
180X158X8	180	158	8.5	158X7	SSP18015885
180X159X8	180	159	8.1	159X6.99	SSP18015981
185X169.5X6	185	169.5	6.3	169X5.33	SSP185169563
185X164X8	185	164	8.1	164X7	SSP18516481
190X174.5X6	190	174.5	6.3	174X5.33	SSP190174563
190X168X8	190	168	8.5	168X7	SSP19016885
190X169X8	190	169	8.1	169X6.99	SSP19016981
195X179.5X6	195	179.5	6.3	179X5.33	SSP195179563
195X174X8	195	174	8.1	174X6.99	SSP19517481



Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
200X184.5X6	200	184.5	6.3	184X5.33	SSP200184563
200X176X8	200	176	8.5	176X7	SSP20017685
200X179X8	200	179	8.1	179X6.99	SSP20017981
205X189.5X6	205	189.5	6.3	189X5.33	SSP205189563
205X184X8	205	184	8.1	184X6.99	SSP20518481
210X189X8	210	189	8.1	189X6.99	SSP21018981
215X194X8	215	194	8.1	194X6.99	SSP21519481
220X204.5X6	220	204.5	6.3	204X5.33	SSP220204563
220X196X8	220	196	8.5	196X7	SSP22019685
220X199X8	220	199	8.1	199X6.99	SSP22019981
225X204X8	225	204	8.1	204X6.99	SSP22520481
230X209X8	230	209	8.1	209X6.99	SSP23020981
235X211X8	235	211	8.5	211X7	SSP23521185
235X214X8	235	214	8.1	214X6.99	SSP23521481
240X224.5X6	240	224.5	6.3	224X5.33	SSP240224563
240X219X8	240	219	8.1	219X6.99	SSP24021981
245X224X8	245	224	8.1	224X6.99	SSP24522481
250X229X8	250	229	8.1	229X6.99	SSP25022981
250X223X9.5	250	223	10	223X8.5	SSP25022310
260X244.5X6	260	244.5	6.3	244X5.33	SSP260244563
260X239X8	260	239	8.1	239X7	SSP26023981
265X244X8	265	244	8.1	244X6.99	SSP26524481
270X254.5X6	270	254.5	6.3	254X5.33	SSP270254563
270X249X8	270	249	8.1	249X6.99	SSP27024981
275X254X8	275	254	8.1	254X6.99	SSP27525481
280X259X8	280	259	8.1	259X6.99	SSP28025981
280X253X9.5	280	253	10	253X8.5	SSP28025310



Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
285X264X8	285	264	8.1	264X6.99	SSP28526481
290X269X8	290	269	8.1	269X6.99	SSP29026981
300X279X8	300	279	8.1	279X6.99	SSP30027981
300X273X9.5	300	273	10	273X8.5	SSP30027310
305X284X8	305	284	8.1	284X6.99	SSP30528481
310X289X8	310	289	8.1	289X7	SSP31028981
320X299X8	320	299	8.1	299X6.99	SSP32029981
320X293X9.5	320	293	10	293X8.5	SSP32029310
325X304X8	325	304	8.1	304X6.99	SSP32530481
330X305.5X8	330	305.5	8.1	305X6.99	SSP330305581
335X310.5X8	335	310.5	8.1	310X6.99	SSP335310581
340X315.5X8	340	315.5	8.1	315X6.99	SSP340315581
340X313X9.5	340	313	10	313X8.5	SSP34031310
350X325.5X8	350	325.5	8.1	325X6.99	SSP350325581
360X335.5X8	360	335.5	8.1	335X6.99	SSP360335581
360X333X9.5	360	333	10	333X8.5	SSP36033310
365X340.5X8	365	340.5	8.1	340X6.99	SSP365340581
370X345.5X8	370	345.5	8.1	345X6.99	SSP370345581
375X350.5X8	375	350.5	8.1	350X6.99	SSP375350581
380X355.5X8	380	355.5	8.1	355X6.99	SSP380355581
390X365.5X8	390	365.5	8.1	365X6.99	SSP390365581
400X375.5X8	400	375.5	8.1	375X6.99	SSP400375581
400X373X9.5	400	373	10	373X8.5	SSP40037310
410X385.5X8	410	385.5	8.1	385X6.99	SSP410385581
420X395.5X8	420	395.5	8.1	395X6.99	SSP420395581
425X400.5X8	425	400.5	8.1	400X6.99	SSP425400581



Assy Size	ØD1	ØD2	S	O Ring Size	PART NO.
430X405.5X8	430	405.5	8.1	405X7	SSP430405581
440X415.5X8	440	415.5	8.1	415X7	SSP440415581
450X425.5X8	450	425.5	8.1	425X6.99	SSP450425581
460X435.5X8	460	435.5	8.1	435X6.99	SSP460435581
470X445.5X8	470	445.5	8.1	445X6.99	SSP470445581
480X455.5X8	480	455.5	8.1	455X6.99	SSP480455581
500X475.5X8	500	475.5	8.1	475X6.99	SSP500475581
500X473X9.5	500	473	10	473X8.5	SSP50047310
520X495.5X8	520	495.5	8.1	495X6.99	SSP520495581
530X505.5X8	530	505.5	8.1	505X6.99	SSP530505581
540X515.5X8	540	515.5	8.1	515X6.99	SSP540515581
545X520.5X8	545	520.5	8.1	520X6.99	SSP545520581
550X525.5X8	550	525.5	8.1	525X7	SSP550525581
560X535.5X8	560	535.5	8.1	535X6.99	SSP560535581
570X545.5X8	570	545.5	8.1	545X7	SSP570545581
600X575.5X8	600	575.5	8.1	575X7	SSP600575581
620X595.5X8	620	595.5	8.1	595X6.99	SSP620595581
630X605.5X8	630	605.5	8.1	605X6.99	SSP630605581
650X625.5X8	650	625.5	8.1	625X7	SSP650625581
660X635.5X8	660	635.5	8.1	635X6.99	SSP660635581
680X655.5X8	680	655.5	8.1	655X7	SSP680655581
700X675.5X8	700	675.5	8.1	675X7	SSP700675581
720X692X9	720	692	9.5	692X8.4	SSP72069295