

Design

The SP is used for heavy duty applications and this is a two piece piston seal, and used as pairs, provides an excellent double-acting piston design. It is suitable for difficult operating conditions such as pressure surging, vibration or some misalignment. Both parts are manufactured from rubberised fabric which gives strength and durability and retains lubrication to keep friction low and reduce wear. Grooves across the protruding face allow pressure to reach both sealing edges. The hard support ring is manufactured to protect the seal from extrusion damage.

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



OPERATING RANGE

Technical details	Metric	Inch
Maximum Speed	0.8 m/sec	2.62 ft/sec
Temperature Range	-30 to +100	-22 F + 212 F
Maximum Pressure	600 bar	8702.26 P.S.I
Operating Fluid	Standard hydraulic oils	

MATERIAL

- NBRC

APPLICATION

- Machine tools
- Injection cylinder
- Hydraulic presses

Maximum Extrusions Gap

Allowable Extrusion Gap is
0.1 to 0.3 mm

Surface Roughness

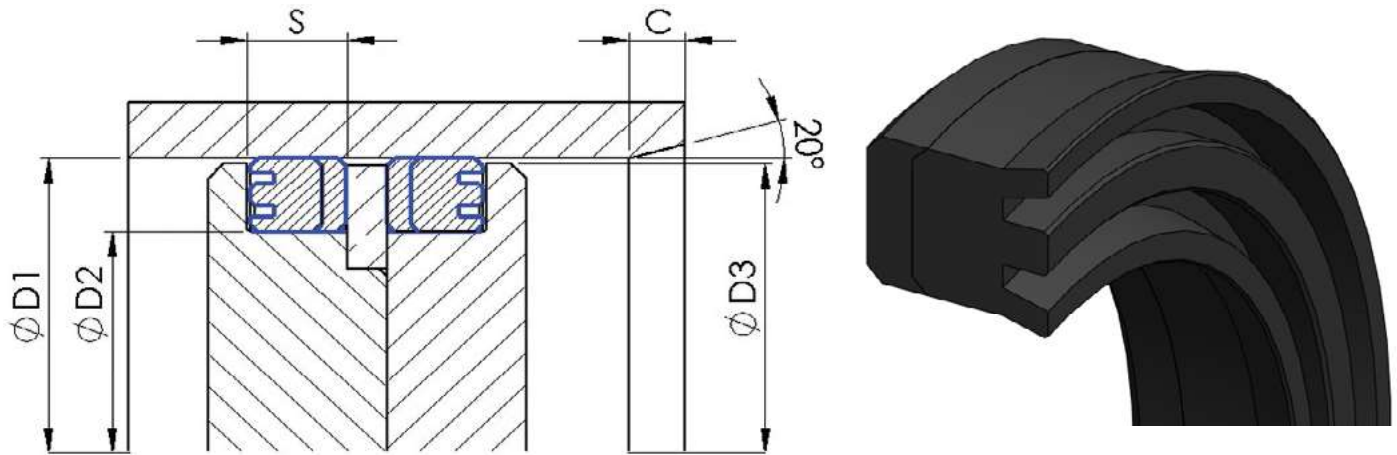
Technical details	Ra (um)	Rt (um)
Sliding Surface	0.4	4
Base Groove	1.6	10
Side Groove	3.2	16

Chamfers & Radii

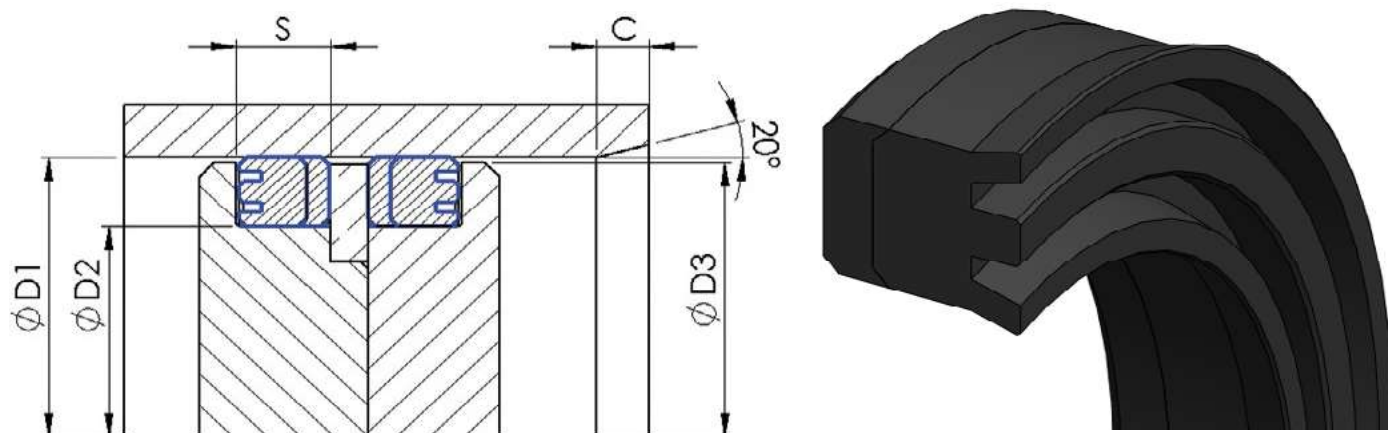
Chamfer 5 - 15 mm
Radii 0.4 - 0.8 mm

Ordering Code:

- Example For Temperature -30 to 100, And Tube Bore 50mm - SP503595
- For information about other material options available, please contact your local AB Seals office.
- For Requirement of other sizes contact us.



ØD1	ØD2	ØD3	S	PART NO
40	25	39	10	SP402510
50	35	49	9.5	SP503595
60	45	59	10	SP604510
63	48	62	9.5	SP634895
65	48	64	10	SP654810
70	50	68.5	13	SP705013
80	60	78.5	12.5	SP8060125
85	65	83.5	12.5	SP8565125
90	70	88.5	13	SP907013
100	80	98.5	12.5	SP10080125
110	90	108.5	13	SP1109013
115	95	113.5	13	SP1159513
120	95	118.5	16	SP1209516
123	98	121.5	16	SP1239816
125	100	123.5	16	SP12510016
127	102	125.5	16	SP12710216
130	105	128.5	16	SP13010516
135	110	133.5	16	SP13511016
140	115	138.5	16.2	SP140115162
150	120	148.5	20	SP15012020
160	130	158	19.8	SP160130198
170	140	168	20	SP17014020
180	150	178	19.8	SP180150198
190	160	188	20	SP19016020
195	165	193	20	SP19516520
200	170	198	20	SP20017020
225	195	223	19.8	SP225195198



ØD1	ØD2	ØD3	S	PART NO
235	205	233	20	SP23520520
250	220	248	20	SP25022020
252	222	250	20	SP25222220
255	225	253	20	SP25522520
270	240	268	20	SP27024020
280	250	278	20	SP28025020
290	260	288	20	SP29026020
300	270	298	20	SP30027020
304	270	302	20	SP30427020
308	270	306	20	SP30827020
320	290	318	20	SP32029020
350	320	348	20	SP35032020
385	355	383	20	SP38535520
400	370	398	20	SP40037020