

Design

The AB Seals slide ring seal for piston SRS acts as a seal and bearing element for pistons with double acting hydraulic cylinders. Due to its construction and the special materials, this seal is recommendable for extraordinary applications e.g. for construction machinery cylinders. It can be used for hydraulic oil and in a modified design also for water oil emulsions, and for non inflammable fluids as well as for compressed air. The SRS consists of 6 parts, an elastic internal ring of a modified NBR, a slide ring of abrasion proof PTFE bronze compound as the actual sealing ring, 2 lateral support rings of modified PU and 2 bearing rings of pressure resistant DEL compound. The elastic internal ring provides initial pressure by means of which the side ring is pressed against the cylinder wall even in the pressureless state. The onset of pressure compresses the elastic inner ring axially so that the side ring is pressed more securely against the cylinder wall and the sealing effect is increased.



Features

- Well proven design
- Tolerant to contamination
- High pressure capability

MATERIAL

- Sealing ring - PTB
- Support ring- PUB
- Energizer - NBR 7

Application

- Mobile hydraulics
- Agriculture equipment
- Machine tools
- Injection cylinder
- Hydraulic presses
- Lift platforms

Technical details

Operating Conditions
 Maximum speed
 Temperature Range
 Maximum Pressure

Metric

0.5m/sec
 -30
 700 bar

inch

1.5ft/sec
 -22
 10,000 p.s.i

Surface roughness

Dynamic Sealing Face $\varnothing D1$
 static sealing face $\varnothing d1$ $\varnothing d2$
 static housing faces $\varnothing d3$ L1 L2

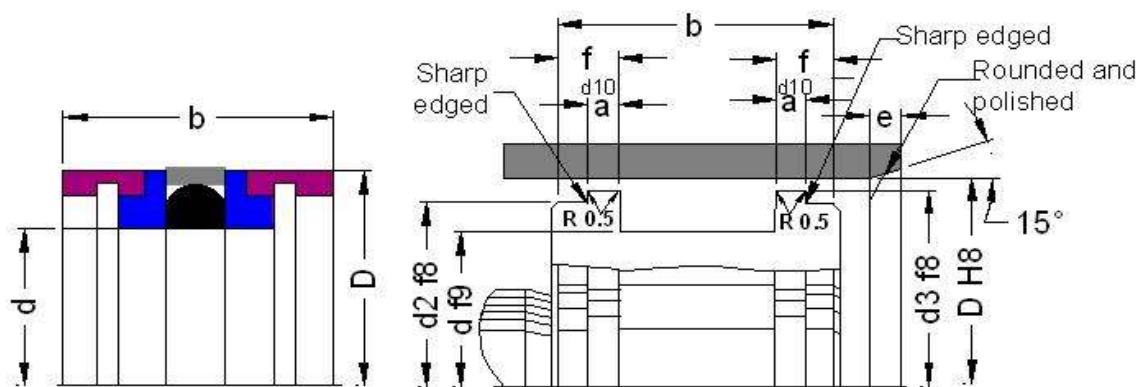
umRa	umRt	Uin CLA	UIN RMS
0.1<> 0.4	4 max	4<>16	5<>18
1.6 max	10 max	63 max	70 max
3.2 max	16 max	125 max	140 max

Chamfers & RadII

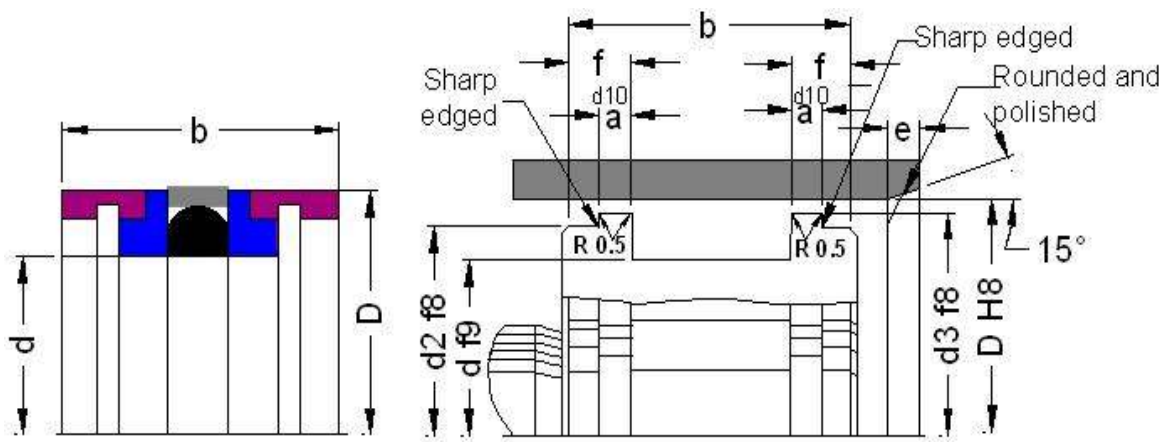
Grove section <5 mm	5	7.5	10	12.5	15	
Min Chamfer C mm	2.5	4	5	6.5	7.5	
Min Chamfer C1 mm	1	1	1	1.5	1.5	
Max Fillet rad r1 mm	0.2	0.2	0.2	0.4	0.4	
Max Fillet rad r2 mm	0.2	0.2	0.2	0.4	0.4	
Grove section <5 in	0.187	0.25	0.312	0.375	0.5	0.625
Min Chamfer C in	0.093	0.125	0.156	0.187	0.217	0.25
Min Chamfer C1 in	0.032	0.032	0.032	0.062	0.062	0.062
Max Fillet rad r1 in	0.008	0.008	0.008	0.008	0.016	0.016
Max Fillet rad r2 in	0.008	0.008	0.008	0.008	0.016	0.016

Tolerance

	$\varnothing D1$	$\varnothing d1$	$\varnothing d2$	$\varnothing d3$	L1	L2
mm	H11	js11	h9	js11	0.25	-0.15
in	H11	js11	h9	js11	0.035	-0.005



PART NO.	D	d	b	d2	d3	a	c	f
SRS – 40	40	26	32	32	36	3.5	15.5	8.25
SRS –45	45	31	32	37	41	3	15.5	8.25
SRS –50	50	34	39	42	46	3	20.5	9.25
SRS –56	56	40	39	48	52	3	20.5	9.25
SRS –63	63	47	39	55	59	3	20.5	9.25
SRS –65	65	49	39	57	61	3	20.5	9.25
SRS –70	70	54	39	62	66	3	20.5	9.25
SRS –75	75	59	39	67	71	3	20.5	9.25
SRS –80	80	62	43	72	76	3	22.5	10.25
SRS –85	85	67	43	77	81	3	22.5	10.25
SRS –90	90	72	43	82	86	3	22.5	10.25
SRS –95	95	77	43	87	91	3	22.5	10.25
SRS –100	100	82	43	92	96	3	22.5	10.25
SRS –110	110	92	43	102	106	3	22.5	10.25
SRS –115	115	97	43	107	111	3	22.5	10.25
SRS –120	120	102	43	112	116	3	22.5	10.25
SRS –125	125	103	53	115	121	4	26.5	13.25
SRS –130	130	108	53	120	126	4	26.5	13.25
SRS –140	140	118	53	130	136	4	26.5	13.25
SRS –150	150	128	53	140	146	4	26.5	13.25
SRS –160	160	138	53	150	156	4	26.5	13.25
SRS –170	170	148	57	160	166	6	26.5	15.25
SRS –180	180	158	57	170	176	6	26.5	15.25
SRS –190	190	165	64	180	186	4.5	31.5	16.25
SRS –200	200	175	64	190	196	4.5	31.5	16.25
SRS –210	210	185	71	200	206	8	31.5	19.75
SRS –220	220	195	71	210	216	8	31.5	19.75
SRS –225	225	200	71	215	221	8	31.5	19.75
SRS –230	230	205	85	220	226	15	31.5	26.75
SRS –240	240	215	85	230	236	15	31.5	26.75
SRS –250	250	225	85	240	246	15	31.5	26.75
SRS –275	275	250	85	265	271	15	31.5	26.75
SRS –280	280	255	85	270	276	15	31.5	26.75
SRS –290	290	265	85	280	286	15	31.5	26.75
SRS –300	300	275	85	290	296	15	31.5	26.75
SRS –310	310	280	80	295	304	8.5	36.5	21.75
SRS –320	320	290	80	308	314	8.5	36.5	21.75
SRS –340	340	310	80	328	334	8.5	36.5	21.75



PART NO.	D	d	b	d2	d3	a	c	f
SRS -350	350	320	80	338	344	8.5	36.5	21.75
SRS -360	360	330	80	348	354	8.5	36.5	21.75
SRS -380	380	350	80	368	374	8.5	36.5	21.75
SRS -400	400	370	80	388	394	8.5	36.5	21.75
SRS -420	420	390	80	408	414	8.5	36.5	21.75
SRS -450	450	420	80	438	444	8.5	36.5	21.75
SRS -480	480	450	80	468	474	8.5	36.5	21.75
SRS -500	500	470	80	488	494	8.5	36.5	21.75
SRS -560	560	530	80	548	554	8.5	36.5	21.75
SRS -600	600	570	80	588	594	8.5	36.5	21.75