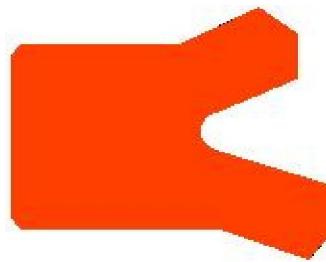


Design

The AB seals PU is an asymmetric piston seal designed to offer effective bore sealing in a wide variety of Applications. The outer dynamic lip is shorter and more robust to provide improved sealing and compression set characteristics over conventional U rings. The seal can be used by itself as a single acting seal or fitted back to back in separate grooves for double acting applications. Manufactured in AB Seals high performance polyurethane.



Features

- Flexible for easy installation
- Excellent wear resistance
- High resistance to extrusion
- Robust design
- Wide temperature range

Materials

Polyurethane - PUA/PUB /PUAB

Applications

Mobile hydraulics
Agricultural equipment
Machine tools
Injection cylinder
Hydraulic presses
Lift plateform

Technical details

Operating Conditions

Maximum speed	1.0m/sec	3.0ft/sec
Temperature Range	-45	-50
Maximum Pressure	400 bar	6,000 p.s.i

Maximum extrusion gap:

Figures show the maximum permissible gap all on one side for rod seal using minimum rod Ø and maximum clearance Ø, and for piston seals using the minimum clearance Ø and maximum bore Ø. Refer to housing design section.

Pressure Bar	160	250	400
Maximum Gap mm.	0.6	0.5	0.4
Pressure p.s.i.	2400	3750	6000
Maximum Gap in.	0.024	0.02	0.016

Surface roughness

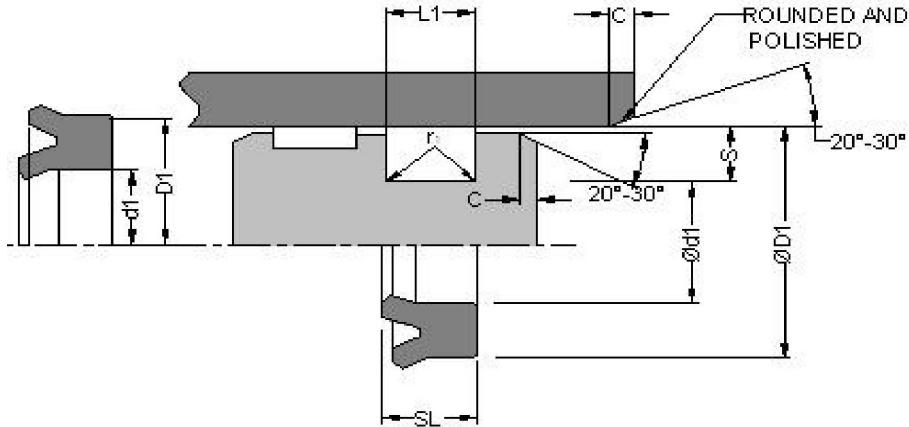
	umRa	umrt	Uin CLA	UIN RMS
Dynamic Sealing Face ØD1	0.1<0..	4 max	4<>16	5<>18
static sealing face Ød1	1.6 max	10 max	63 max	70 max
static housing faces L1	3.2 max	16 max	125 max	140 max

chamfers & Radii

Grove section < 5mm	4	5	7.5	10	
Min chamfer C mm	3	3.5	5	6.5	
max Fillet Rad r1 mm	0.2	0.4	0.8	0.8	
Grove section < 5in	0.125	0.187	0.25	0.312	0.375 0.5
Min chamfer C in	0.093	0.093	0.125	0.156	0.187 0.217
max Fillet Rad r1 in	0.008	0.008	0.016	0.032	0.032 0.032

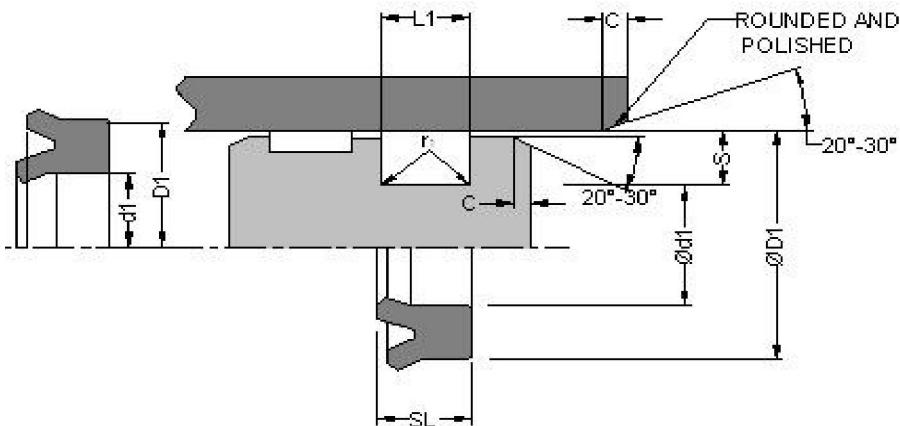
Tolerance

ØD1	Ød1	L1 mm	L1 in
H9	js11	0.25	0.01



METRIC

$\varnothing D1$	TOL H9	$\varnothing d1$	TOL JS11	SL	L1 0.25	PART NO.	$\varnothing D1$	TOL H9	$\varnothing d1$	TOL JS11	SL	L1 0.25	PART NO.
16	0.05 0	10	0.06 -0.06	5.7	6.3	PU - 16X10X5.7	70	0.07 0	60	0.1 -0.1	8.1	9	PU- 70X60X8.1
25	0.05 0	15	0.06 -0.06	8.2	9	PU- 25X15X8.2	71	0.07 0	61	0.1 -0.1	6	7	PU- 71X61X6
25	0.05 0	17	0.06 -0.06	5.7	6.3	PU- 25X17X5.7	75	0.07 0	67	0.1 -0.1	5.7	6.3	PU- 75X67X5.7
30	0.05 0	20	0.07 -0.07	8	9	PU - 30X20X8	75	0.07 0	67	0.1 -0.1	8.8	9.7	PU- 75X67X8.8
32	0.06 0	24	0.07 -0.07	5.7	6.3	PU- 32X24X5.7	80	0.07 0	65	0.1 -0.1	11.4	12.5	PU- 80X65X11.4
35	0.06 0	25	0.07 -0.07	7.3	8	PU- 35X25X7.3	80	0.07 0	70	0.1 -0.1	6.8	7.5	PU- 80X70X6.8
37	0.06 0	21	0.07 -0.07	11.8	13	PU- 37X21X11.8	80	0.07 0	70	0.1 -0.1	8	9	PU- 80X70X8
38	0.06 0	31	0.08 -0.08	5.2	6	PU- 38X31X5.2	85	0.09 0	75	0.1 -0.1	8.1	9	PU- 85X75X8.1
40	0.06 0	28	0.07 -0.07	9	10	PU- 40X28X9	85.7	0.09 0	70.7	0.1 -0.1	10.3	11.4	PU- 85.7X70.7X10.
40	0.06 0	30	0.07 -0.07	7.3	8	PU- 40X30X7.5	90	0.09 0	80	0.1 -0.1	11	12	PU- 90X80X11
40	0.06 0	30	0.07 -0.07	10	11	PU- 40X30X10	100	0.09 0	85	0.11 -0.11	11.4	12.5	PU- 100X85X11.4
45	0.06 0	35	0.08 -0.08	7.3	8	PU- 45X35X7.3	100	0.09 0	90	0.11 -0.11	6.8	7.5	PU- 100X90X6.8
50	0.06 0	39	0.08 -0.08	3.8	4.2	PU- 50X39X3.8	110	0.09 0	100	0.11 -0.11	8	9	PU- 110X100X8
50	0.06 0	40	0.08 -0.08	7.8	8	PU- 50X40X7.8	125	0.1 0	105	0.11 -0.11	14.5	16	PU- 125X105X14.5
55	0.07 0	45	0.08 -0.08	7.3	8	PU- 55X45X7.3	150	0.1 0	130	0.13 -0.13	14.5	16	PU- 150X130X14.5



$\varnothing D1$	TOL H9	$\varnothing d1$	TOL JS11	SL	L1 0.25	PART NO.	$\varnothing D1$	TOL H9	$\varnothing d1$	TOL JS11	SL	L1 0.25	PART NO.
60	0.070	44.9	0.08 -0.08	5.7	6.3	PU-60X44.9X5.7	150	0.10	140	0.13 -0.13	13.6	15	PU-150X140X13.6
60	0.070	45	0.08 -0.08	10	11	PU-60X45X10	160	0.10	140	0.13 -0.13	14.5	16	PU-160X140X14.5
60	0.070	50	0.08 -0.08	9	10	PU-60X50X9	160	0.10	140	0.13 -0.13	18.2	20	PU-160X140X18.2
63	0.070	48	0.08 -0.08	11.4	12.5	PU-63X48X11.4	170	0.10	150	0.13 -0.13	15	16.5	PU-170X150X15
63	0.070	53	0.1 -0.1	7.3	8	PU-63X53X7.3	180	0.10	160	0.13 -0.13	15	16.5	PU-180X160X15
63	0.070	53	0.1 -0.1	11.8	13	PU-63X53X11.8	190	0.10	170	0.13 -0.13	15	16.5	PU-190X170X15
65	0.070	55	0.1 -0.1	7.3	8	PU-65X55X7.3	200	0.120	180	0.13 -0.13	14.5	16	PU-200X180X14.5
70	0.070	55	0.1 -0.1	10	11	PU-70X55X10	280	0.120	260	0.13 -0.13	15.5	17	PU-280X260X15.5