

Design

The AB Seals O-rings & Back-up rings is available in standard and custom sizes. With high temperature PU O-rings, need for back-up rings can be eliminated. AB Seals high performance NBR O-rings & Back-up ring used to minimize extrusion leakage due to pressure surging in hydraulic cylinder.



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

OPERATING RANGE

Technical details	Metric	Inch
Maximum Speed	1.0m/sec	3.0 ft/sec
Temperature Range	-35 to 120	-50 to 230F
Operating Fluid	Standard hydraulic oils	

MATERIAL

NBR75 , VKM75 , SI50,
PUA,TF01

APPLICATION

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

Maximum Extrusions Gap

Surface Roughness

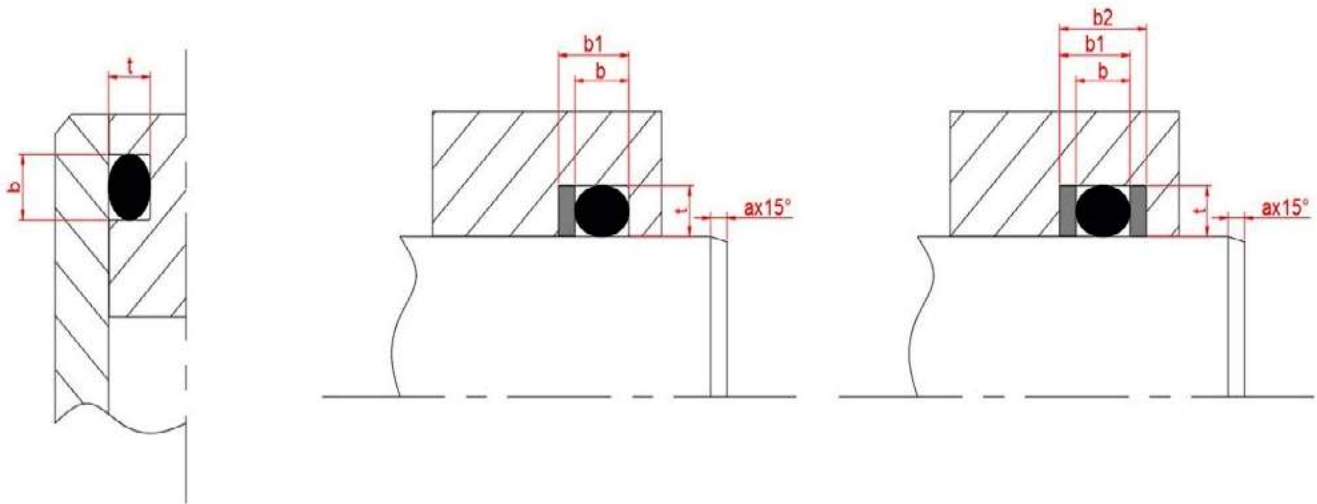
Technical details	Ra (um)	Rt (um)
Sliding Surface	0.1	1.6
Base Groove	1.6	6.3
Side Groove	3.2	10

Chamfers & Radii

Chamfer 4 – 10 mm
Radii 0.4 – 0.8 mm

Ordering Code:

- Example For Temperature -35 to 120, GROOVE DIMENSION ID 50mm AND CORD 3 MM IS ORN503 FOR NBR.
- For Temperature -50 to 230, GROOVE DIMENSION ID 50mm AND CORD 3 MM IS ORV503 FOR FKM.
- For BACK-UP RINGS GROOVE DIMENSION ID 50mm AND CORD 3 MM IS BCT503 FOR TEFLON.
- For information about other material options available, please contact your local AB Seals office.
- For Requirement of other sizes contact us.



CORD-F	HOUSING SEALING OUTSIDE		HOUSING SEALING INSIDE		BACK-UP RING	HOUSING AXIALLY SEALING INWARD PRESSURE		RADIUS		CHAMFER
			GROOVE WIDTH							
	t	b +0.25	b1 +0.25	b2 +0.25	THICKNESS	t +0.25 GROOVE DEPTH	b +0.25 GROOVE DEPTH	WITHOUT SUPPORT RING	WITH SUPPORT RING	a
1.5	1.2	2.1	3.5	4.9	1.4	1.1	2.3	0.3	0.3	1.5
1.78	1.4	2.4	3.8	5.2	1.4	1.3	2.6	0.3	0.3	1.5
2	1.6	2.6	4	5.4	1.4	1.5	2.8	0.3	0.3	2
2.5	2	3.4	4.8	6.2	1.4	1.9	3.6	0.3	0.3	2
2.62	2.1	3.6	5	6.4	1.4	2	3.8	0.3	0.3	2
3	2.4	4	5.4	6.8	1.4	2.3	4.2	0.6	0.4	2.5
3.5	2.8	4.7	6.1	7.5	1.4	2.7	4.9	0.6	0.4	2.5
3.53	2.8	4.8	6.2	7.6	1.4	2.7	5	0.6	0.4	2.5
4	3.2	5.4	6.8	8.2	1.4	3.1	5.6	0.6	0.4	3
5	4.1	6.6	8.5	10.4	1.9	4	6.8	0.6	0.4	3
5.33	4.3	7.1	9	10.9	1.9	4.2	7.3	1	0.6	4
5.7	4.6	7.7	9.6	11.5	1.9	4.5	7.9	1	0.6	4
6	4.9	8	10.8	13.8	2.8	4.7	8.2	1	0.6	4
6.99	5.8	9.5	12.3	15.1	2.8	5.7	9.7	1	0.6	4
8	6.7	10.6	13.4	16.2	2.8	6.5	11	1	0.6	5
10	8.5	13.5	16.3	19.1	2.8	8.3	13.7	1	0.6	5