

Features:

- Excellent wiping and scraping performance*
- Abrasion resistant*
- Beveled lip offers maximum dirt exclusion*
- Easy snap-in installation*



MATERIAL

The 301 Series Single Lip Wiper features high-grade polyurethane. Standard materials are MP03 machined H-PU, available up to 2100 mm in diameter, and MP50 injection-molded TPU. To suit a variety of applications the series is also available in NBR, H-NBR, EPDM and high temperature-resistant FPM.

Material	Code
Polyurethane H-PU	MP03
Nitrile NBR	MN01
Fluoroelastomer FPM	MF01

OPERATING PARAMETERS

Temperature	MP03	
	°C	°F
hydraulic oil	-20...+115	-5...+240
water oil emulsions (HFA)	+5...+55	+40...+130
water-glycol fluids (HFC)	-20...+55	-5...+130
polyol esters (HFD)	-	-
water	+5...+55	+40...+130
speed	2 m/s (6.5 ft/sec)	
pressure	-	

Note: for other materials or fluids please contact our engineering department.

DESCRIPTION

The 301 Series Snap-In Wiper is manufactured from high-quality polyurethane, which ensures aggressive wiping performance and maximum abrasion resistance. The wiper is designed to exclude and protect the hydraulic cylinder in the harshest conditions.

PRODUCT BENEFITS

- Prevents pressure build up between wiper and seal
- Designed to fit securely in the groove
- Long service life

APPLICATIONS

The 301 Series Wiper is used in a range of standard applications where heavy contamination is present.

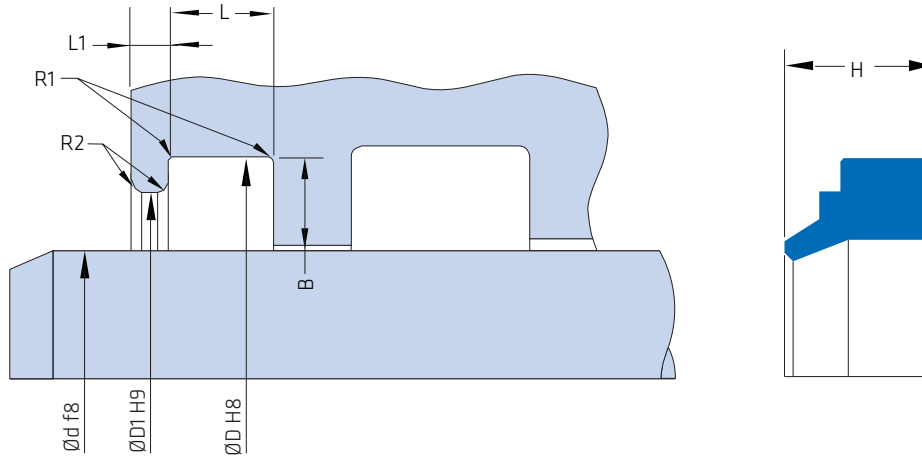
Typical applications include:

- Mining
- Mobile hydraulics
- Agricultural
- Standard hydraulic cylinders



Above: Installation Drawing

DESIGN GUIDELINES



METRIC SERIES

	Rod Diameter d	B	ØD	ØD1	L ^{+0.20}	H	R1	L1	R2
Series 1	up to 42.00 mm	4.00	+8.00	+6.00	4.00	7.00	0.30	1.00	0.50
Series 2	up to 42.00 mm	4.00	+8.00	+5.50	5.00	7.80	0.30	1.00	0.50
Series 3	up to 70.00 mm	5.00	+10.00	+7.00	6.30	9.00	0.30	1.00	0.50
Series 4	up to 175.00 mm	6.00	+12.00	+9.00	5.50	10.00	0.30	1.50	0.50
Series 5	up to 250.00 mm	7.50	+15.00	+10.00	9.50	13.00	0.30	1.50	0.50

INCH SERIES

	Rod Diameter d	B	ØD	ØD1	L ^{+0.008}	H	R1	L1	R2
Series 1	up to 1.654 in	0.157	+0.315	+0.236	0.157	0.276	0.012	0.039	0.020
Series 2	up to 1.654 in	0.157	+0.315	+0.217	0.197	0.307	0.012	0.039	0.020
Series 3	up to 2.756 in	0.197	+0.394	+0.276	0.248	0.354	0.012	0.039	0.020
Series 4	up to 6.890 in	0.236	+0.472	+0.354	0.217	0.394	0.012	0.059	0.020
Series 5	up to 9.843 in	0.295	+0.591	+0.394	0.374	0.512	0.012	0.059	0.020

Note: for a complete list of available sizes please refer to the System Seals online product catalogue at www.systemseals.com.

SURFACE FINISH

Surface roughness	Ra	Rt	RMS
Sliding surface	≤0.3 µm	≤3 µm	8 RMS
Surface of groove I.D.	≤1.8 µm	≤10 µm	64 RMS
Sides of groove	≤3 µm	≤16 µm	125 RMS

