

Features:

Aggressive wiping and high scraping performance

Abrasion resistant

Unique umbrella designs ensures maximum exclusion

Easy snap-in installation

Water resistant



MATERIAL

The 324 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 (shown in photo)	MP03
Nitrile NBR	MN01
Fluoroelastomer FPM	MF01
Polyurethane TPU	MP50

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 324 Series Heavy-Duty Snap-In Wiper is the most aggressive excluder available, which earned the nickname "Rambo" by customers who swear by its excellent performance. The aggressive design includes a unique umbrella feature that wraps around the face of the cylinder that creates an impenetrable barrier. It works particularly well in vertically mounted cylinders, where contamination collects or fluid splashes on top of the cylinder. The wiper is designed to exclude and protect the hydraulic cylinder in the harshest conditions.

PRODUCT BENEFITS

- Internal notches prevent pressure trapping
- Ability to retrofit and upgrade existing wipers
- Designed to fit securely in the groove
- Long service life

APPLICATIONS

The 324 Series Wiper is used in severely contaminated, wet, or abrasive conditions.

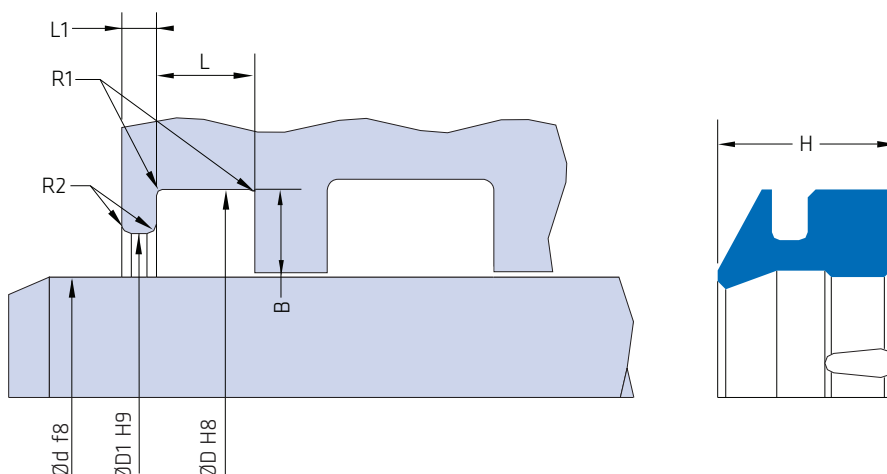
Typical applications include:

- Mining
- Mobile Hydraulics
- Steel and Aluminum Processing
- Agricultural
- Oil and Gas
- Mineral Processing



Above: Installation Drawing

DESIGN GUIDELINES



METRIC SERIES

	Rod Diameter Ød	B	ØD	ØD1	L ^{+0.20}	L1 ^{-0.10}	R1	R2	H
Series 1	up to 40.00 mm	3.00	d+6.00	d+3.75	3.00	1.00	0.30	0.50	6.00
Series 2	up to 50.00 mm	5.00	d+10.00	d+5.75	5.00	1.50	0.30	0.50	10.00
Series 3	up to 90.00 mm	6.50	d+13.00	d+7.50	6.50	2.00	0.30	0.50	13.00
Series 4	up to 115.00 mm	8.00	d+16.00	d+9.10	8.00	3.00	0.30	0.50	16.50
Series 5	up to 175.00 mm	10.00	d+20.00	d+11.25	10.00	4.00	0.30	0.50	22.00
Series 6	up to 1,000.00 mm	12.50	d+25.00	d+15.00	12.50	5.00	0.30	0.50	27.00

INCH SERIES

	Rod Diameter Ød	B	ØD	ØD1	L ^{+0.008}	L1 ^{-0.004}	R1	R2	H
Series 1	up to 1.625 in	0.125	d+0.250	d+0.148	0.125	0.040	0.012	0.020	0.250
Series 2	up to 1.875 in	0.188	d+0.376	d+0.222	0.188	0.060	0.012	0.020	0.375
Series 3	up to 3.500 in	0.250	d+0.500	d+0.296	0.250	0.080	0.012	0.020	0.500
Series 4	up to 4.375 in	0.313	d+0.626	d+0.358	0.313	0.118	0.012	0.020	0.650
Series 5	up to 6.750 in	0.375	d+0.750	d+0.442	0.375	0.158	0.012	0.020	0.820
Series 6	up to 40.000 in	0.500	d+1.000	d+0.590	0.500	0.197	0.012	0.020	1.090

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