systemseals

SEVERE DUTY WIPER

321 *series*

Features:

Excellent wiping and scraping performance

Straight cut lip offers maximum exclusion

Easy installation

DESCRIPTION

The 321 Series Severe Duty Wiper is designed for applications where heavy contaminates such as ice and high-stick buildup adhere to the rod. It is a common upgrade when standard wipers fail to perform. It is manufactured from highquality thermoplastic, which ensures aggressive wiping performance and maximum exclusion.

PRODUCT BENEFITS

- An upgrade for traditional wipers that fail to perform
- Designed to fit securely in the groove
- Thermoplastic material protects the inside of the cylinder
- Long service life

MATERIAL

The 321 Series Single Lip Wiper features high-grade thermoplastic. Standard materials are ML01 machined POM. To suit a variety of applications the series is also available in polyamide, UHMW and PEEK.

Material	Code
Polyoxymethylene (POM) shown in photo	ML01
Ultrahigh Molecular Weight Polyethylene (UHMW)	ML10
Polyetheretherketone (PEEK)	MK11

APPLICATIONS

The 321 Series Wiper is used in severely contaminated environments where high scraping is required.

Typical applications include:

- Steel and Aluminum Processing
- Mining
- Mobile hydraulics
- Construction

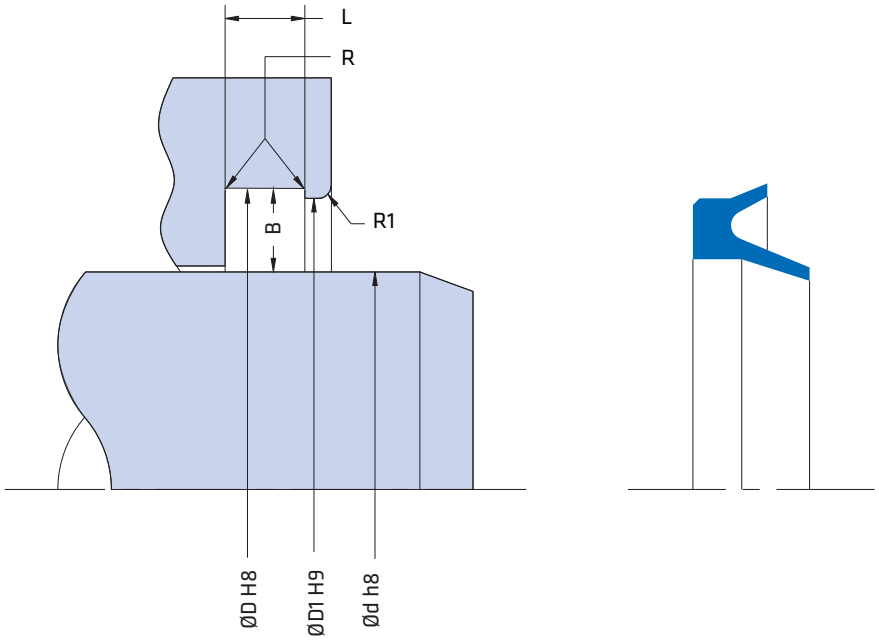
OPERATING PARAMETERS

	ML01	
Temperature	**°C**	**°F**
hydraulic oil	-45...+110	-49...+230
water oil emulsions (HFA)	-	-
water-glycol fluids (HFC)	-	-
polyol esters (HFD)	-	-
water	-	-
speed	1.5 m/s (5ft/s)	
pressure	-	

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

Above: *Installation Drawing*

DESIGN GUIDELINES



METRIC SERIES

	Rod Diameter Ød	B	ØD	ØD1	$L^{+0.25}$	R	R1
Series 1	Up to 20.00 mm	5.00	d + 10.00	D - 1.50	4.50	0.40	1.50
Series 2	Up to 130.00 mm	6.50	d + 13.00	D - 1.50	6.00	0.40	1.50
Series 3	Up to 180.00 mm	8.00	d + 16.00	D - 1.50	6.00	0.40	1.50
Series 4	Up to 300.00 mm	9.50	d + 19.00	D - 1.50	8.50	0.40	1.50

INCH SERIES

	Rod Diameter Ød	B	ØD	ØD1	$L^{+0.010}$	R	R1
Series 1	Up to 0.750 in	0.188	d + 0.375	D - 0.063	0.203	0.016	0.060
Series 2	Up to 5.000 in	0.250	d + 0.500	D - 0.063	0.234	0.016	0.060
Series 3	Up to 8.000 in	0.313	d + 0.625	D - 0.063	0.234	0.016	0.060

SURFACE FINISH

Surface roughness	Ra	Rt	RMS
Sliding surface	≤0.3 µm	≤3 µm	6-12 RMS
Surface of groove I.D.	≤1.8 µm	≤10 µm	64 RMS
Sides of groove	≤3 µm	≤16 µm	125 RMS