

# 839

## WIPER

*Double-Lipped  
Polyurethane  
Designed for ISO Housings*

### DESIGN

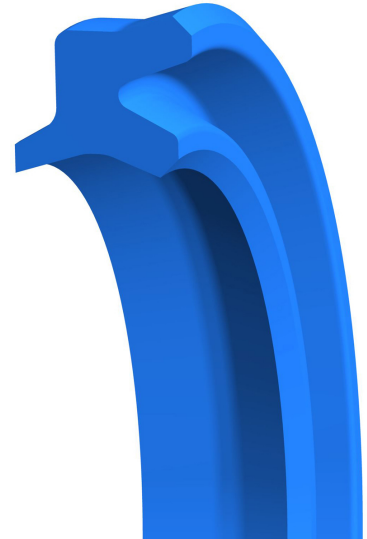
The Hallite 839 double-lipped, snap-in wiper is designed to fit standard housings, including many ISO 6195C sizes, and to exclude dirt and moisture from entering the cylinder. The design minimises the oil transfer out of the ram on the cylinder rod by collecting traces of fluid passing the rod seal.

Opposite the wiper lip are two sealing lips that are precision trimmed at an angle to give optimal rod sealing performance. The Hallite 839 is designed to have an interference in the seal housing groove to improve the stability of the wiper in the gland and to reduce the possibility of ingress around the outside of the wiper.

The Hallite 839 is moulded in Hythane® 181, Hallite's high-performance polyurethane, for maximum wear resistance.

Hallite recommends a vent is provided between the seal and the wiper to avoid a pressure trap.

For customers that require a wiper for heavier duty applications, the Hallite technical team may advise you to use a Hallite 844 wiper instead of the Hallite 839. Contact your local Hallite team for more information.



### FEATURES

- ISO housing range
- Long life and long wear
- Double lips ensures drier sealing system
- Easy to install

### MATERIALS

As standard, this product comes in the following material. Contact your local Hallite technical team if you would like to find out if this profile can be made in a custom material to suit your application. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Type	Colour
Standard	Hythane® 181	TPU-EU	Blue



## TECHNICAL DETAILS

OPERATING CONDITIONS	METRIC	INCH
Maximum Speed	4.0 m/sec	12.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F

**NOTE**

Not designed to scrape ice

**NOTE**

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

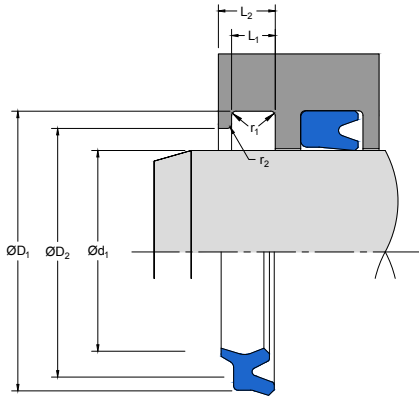
SURFACE ROUGHNESS	$\mu\text{mRa}$	$\mu\text{mRz}$	$\mu\text{mRt}$	$\mu\text{inRa}$	$\mu\text{inRz}$	$\mu\text{inRt}$
Dynamic Sealing Face $\varnothing d_1$	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face $\varnothing D_1, \varnothing D_2$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces $L_1$	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII		
Rod Diameter $\varnothing d_1$ , mm	$\leq 90$	$> 90$
Max Fillet Rad $r_1$ , mm	0.20	0.40
Max Fillet Rad $r_2$ , mm	0.40	0.40

**NOTE**

Assembly chamfers are governed by the associated rod seal.

TOLERANCES	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	$L_1$
mm	f9	H11	H11	+0.20 -0



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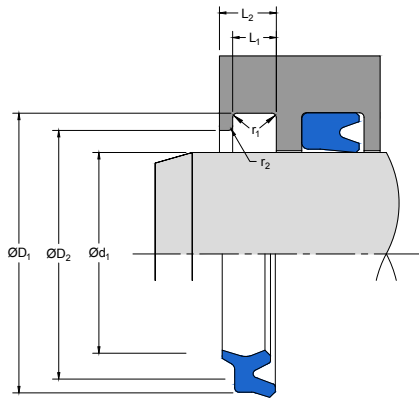
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### PART NUMBER RANGE

METRIC								
Ød <sub>1</sub>	TOL f9	ØD <sub>1</sub>	TOL H11	ØD <sub>2</sub>	TOL H11	L <sub>1</sub> +0.20-0	L <sub>2</sub>	PART No.
12.00	-0.02 -0.06	18.00	+0.11 0.00	14.50	+0.11 0.00	4.00	7.00	4436800†
14.00	-0.02 -0.06	20.00	+0.13 0.00	16.50	+0.11 0.00	4.00	7.00	4436900†
15.00	-0.02 -0.06	22.00	+0.13 0.00	18.00	+0.11 0.00	3.80	6.00	4762300
18.00	-0.02 -0.06	24.00	+0.13 0.00	20.50	+0.13 0.00	4.00	7.00	4437000†
20.00	-0.02 -0.07	26.00	+0.13 0.00	22.50	+0.13 0.00	4.00	6.00	4415000†
22.00	-0.02 -0.07	28.00	+0.13 0.00	24.50	+0.13 0.00	4.00	7.00	4437100†
25.00	-0.02 -0.07	31.00	+0.16 0.00	27.50	+0.13 0.00	4.00	7.00	4799700†
28.00	-0.02 -0.07	36.00	+0.16 0.00	31.00	+0.16 0.00	5.00	8.00	4437200†
30.00	-0.02 -0.07	38.00	+0.16 0.00	33.00	+0.16 0.00	5.00	8.00	4519200
32.00	-0.03 -0.09	40.00	+0.16 0.00	35.00	+0.16 0.00	5.00	8.00	4594000†
36.00	-0.03 -0.09	44.00	+0.16 0.00	39.00	+0.16 0.00	5.00	8.00	4437300†
40.00	-0.03 -0.09	48.00	+0.16 0.00	43.00	+0.16 0.00	5.00	8.00	4591600†
45.00	-0.03 -0.09	53.00	+0.19 0.00	48.00	+0.16 0.00	5.00	8.00	4437400†
50.00	-0.03 -0.09	58.00	+0.19 0.00	53.00	+0.19 0.00	5.00	8.00	4584400†
55.00	-0.03 -0.10	65.00	+0.19 0.00	58.00	+0.19 0.00	6.00	9.70	4575200
56.00	-0.03 -0.10	66.00	+0.19 0.00	59.00	+0.19 0.00	6.00	9.70	4437500†
60.00	-0.03 -0.10	70.00	+0.19 0.00	63.00	+0.19 0.00	6.00	9.70	4802400

**NOTE** Part numbers suffixed by "†" indicate housing sizes to meet ISO 6195C.



## PART NUMBER RANGE

METRIC								
Ød <sub>1</sub>	TOL f9	ØD <sub>1</sub>	TOL H11	ØD <sub>2</sub>	TOL H11	L <sub>1</sub> +0.20-0	L <sub>2</sub>	PART No.
65.00	-0.03 -0.10	75.00	+0.19 0.00	68.00	+0.19 0.00	6.00	9.70	4575300
70.00	-0.03 -0.10	80.00	+0.19 0.00	73.00	+0.19 0.00	6.00	9.70	4437600†
90.00	-0.04 -0.12	100.00	+0.22 0.00	93.00	+0.22 0.00	6.00	9.70	4437700†
110.00	-0.04 -0.12	125.00	+0.25 0.00	114.00	+0.22 0.00	8.50	13.00	4437800†
130.00	-0.04 -0.14	142.00	+0.25 0.00	135.00	+0.25 0.00	8.20	11.00	4786300
140.00	-0.04 -0.14	155.00	+0.25 0.00	144.00	+0.25 0.00	8.50	13.00	4437900†
150.00	-0.04 -0.14	165.00	+0.25 0.00	154.00	+0.25 0.00	8.50	13.00	4804200
180.00	-0.04 -0.14	196.00	+0.29 0.00	184.00	+0.29 0.00	9.50	14.00	4595600

**NOTE** Part numbers suffixed by “†” indicate housing sizes to meet ISO 6195C.

