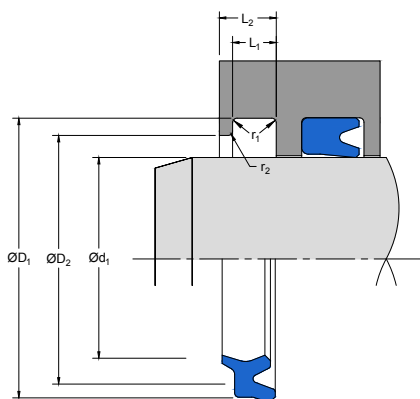




839

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

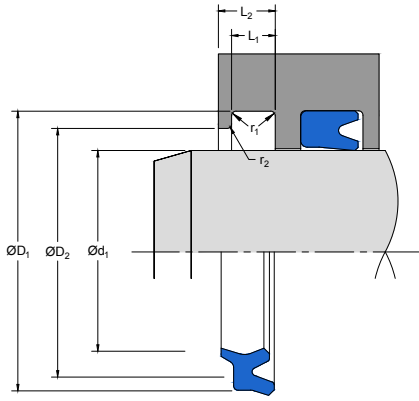
NOTE Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together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

SURFACE ROUGHNESS	μmRa	μmRz	μmRt	μinRa	μinRz	μinRt
Dynamic Sealing Face Ød ₁	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face ØD ₁ , ØD 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 Ød ₁ mm	≤ 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	Ød ₁	ØD ₁	ØD ₂	L ₁
mm	f9	H11	H11	+0.20 -0



839

WIPER

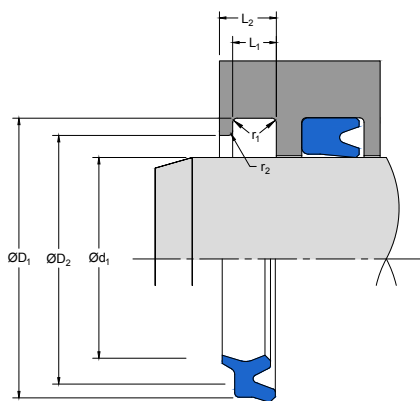
*Double-Lipped
Polyurethane
Designed for ISO Housings*

PART NUMBER RANGE

METRIC								
Ød ₁	TOL f9	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.20-0	L ₂	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

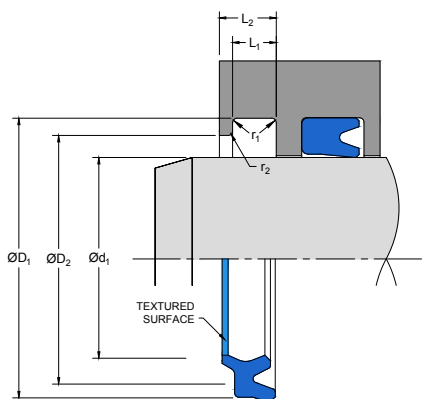
NOTE

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



PART NUMBER RANGE

METRIC								
Ød ₁	TOL f9	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.20-0	L ₂	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.								



839N

WIPER

*Double-Lipped
Polyurethane*

Designed for Popular Asian Sizes

DESIGN

The Hallite 839N double-lipped, snap-in wiper is designed to fit popular Asian housing 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.

The wiping lip on the Hallite 839N is textured to provide improved dry rod performance, particularly for long stroking cylinder applications. Opposite the wiper lip are two sealing lips that are precision trimmed at an angle to give optimal rod sealing performance. The Hallite 839N 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 839N is precision moulded in Hythane® 181 for maximum wear resistance.

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



FEATURES

- Fits popular Asian housing sizes
- Precision trimmed sealing lips ensures drier sealing system
- Textured wiper lip for improved leakage control
- Long life and long wear
- 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.

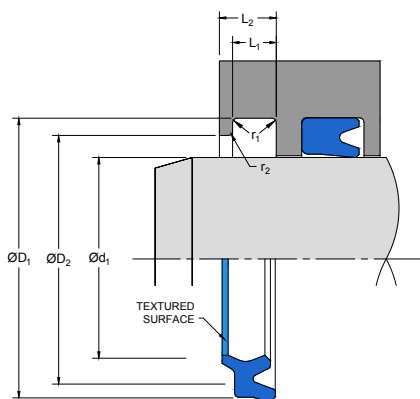
SURFACE ROUGHNESS	µmRa	µmRz	µmRt	µinRa	µinRz	µinRt
Dynamic Sealing Face Ød ₁	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face ØD ₁ , ØD ₂	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L ₁	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII		
Rod Diameter Ød ₁ mm	≤ 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	Ød ₁	ØD ₁	ØD ₂	L ₁
mm	f9	+0-0.20	±0.10	+0.40-0



839N

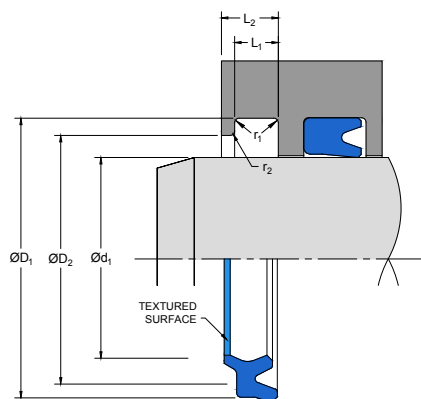
WIPER

Double-Lipped
Polyurethane

Designed for Popular Asian Sizes

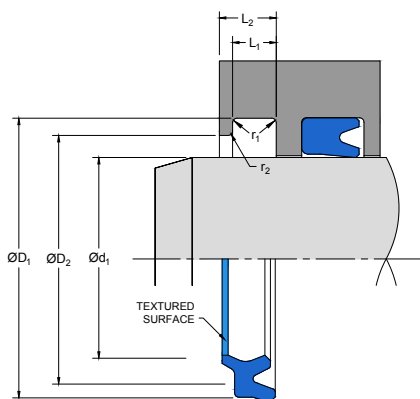
PART NUMBER RANGE

METRIC						
Ød ₁	TOL f ₉	ØD ₁ +0-0.20	ØD ₂ ±0.10	L ₁ +0.40-0	L ₂	PART No.
14.00	-0.02 -0.06	22.00	18.30	4.80	7.00	4632000
16.00	-0.02 -0.06	24.00	20.30	4.80	7.00	4632100
18.00	-0.02 -0.06	26.00	22.30	4.80	7.00	4630800
20.00	-0.02 -0.07	28.00	24.30	4.80	7.00	4630900
22.40	-0.02 -0.07	30.40	26.70	4.80	7.00	4630100
25.00	-0.02 -0.07	33.00	29.30	4.80	7.00	4631000
28.00	-0.02 -0.07	36.00	32.30	4.80	7.00	4631100
30.00	-0.02 -0.07	38.00	34.00	5.80	8.00	4630200
31.50	-0.03 -0.09	39.50	35.50	5.80	8.00	4632200
32.00	-0.03 -0.09	40.00	36.00	5.80	8.00	4632300
35.00	-0.03 -0.09	43.00	39.00	5.80	8.00	4630300
35.50	-0.03 -0.09	43.50	39.50	5.80	8.00	4630400
38.00	-0.03 -0.09	46.00	42.00	5.80	8.00	4632400
40.00	-0.03 -0.09	48.00	44.00	5.80	8.00	4630500
43.00	-0.03 -0.09	51.00	47.00	5.80	8.00	4634200
45.00	-0.03 -0.09	53.00	49.00	5.80	8.00	4630600
50.00	-0.03 -0.09	58.00	54.00	5.80	8.00	4630000



PART NUMBER RANGE

METRIC						
Ød ₁	TOL f ₉	ØD ₁ +0-0.20	ØD ₂ ±0.10	L ₁ +0.40-0	L ₂	PART No.
53.00	-0.03 -0.10	61.00	57.00	5.80	8.00	4632500
55.00	-0.03 -0.10	63.00	59.00	5.80	8.00	4630700
56.00	-0.03 -0.10	64.00	60.00	5.80	8.00	4632600
60.00	-0.03 -0.10	68.00	64.00	5.80	8.00	4631200
63.00	-0.03 -0.10	71.00	67.00	5.80	8.00	4632700
65.00	-0.03 -0.10	73.00	69.00	5.80	8.00	4631300
70.00	-0.03 -0.10	80.00	75.00	6.80	10.00	4631400
75.00	-0.03 -0.10	85.00	80.00	6.80	10.00	4631500
80.00	-0.03 -0.10	90.00	85.00	6.80	10.00	4631600
85.00	-0.04 -0.12	95.00	90.00	6.80	10.00	4632900
90.00	-0.04 -0.12	100.00	95.00	6.80	10.00	4631700
95.00	-0.04 -0.12	105.00	100.00	6.80	10.00	4631900
100.00	-0.04 -0.12	110.00	105.00	6.80	10.00	4631800
110.00	-0.04 -0.12	120.00	115.00	6.80	10.00	4633000
112.00	-0.04 -0.12	122.00	117.00	6.80	10.00	4633100
120.00	-0.04 -0.12	130.00	125.00	6.80	10.00	4633700
125.00	-0.04 -0.14	138.00	132.00	7.80	11.00	4633200



839N

WIPER

*Double-Lipped
Polyurethane, Designed for Popular Asian Sizes*

PART NUMBER RANGE

METRIC						
Ød ₁	TOL f9	ØD ₁ +0-0.20	ØD ₂ ±0.10	L ₁ +0.40-0	L ₂	PART No.
130.00	-0.04 -0.14	143.00	137.00	7.80	11.00	4633800
136.00	-0.04 -0.14	149.00	143.00	7.80	11.00	4633300
140.00	-0.04 -0.14	153.00	147.00	7.80	11.00	4633400
145.00	-0.04 -0.14	158.00	152.00	7.80	11.00	4633500
150.00	-0.04 -0.14	163.00	157.00	7.80	11.00	4633900
160.00	-0.04 -0.14	174.00	167.00	7.80	11.00	4633600