

844

WIPER

*Double-Lipped
Polyurethane with Umbrella Design Technology™*

DESIGN

The Hallite 844 double-lipped, snap-in rod wiper is developed specifically for cylinders in demanding off-highway applications and designed for use with venting U-rings, such as the Hallite 663 or Hallite 673 rod seal. The design minimises the oil transfer out of the ram on the cylinder rod by collecting traces of fluid passing the rod seal.

The unique feature of the Hallite 844 is the Umbrella Wiper Technology™, which is a protective debris guard flap on the wiping lip that entirely covers the gland housing and prevents the water/slurry trap that is common with conventional wipers. This feature offers added protection to the integrity of the hydraulic system by reducing corrosion and preventing the ingress of contamination into the wiper housing groove and hydraulic cylinder gland which will result in increased system life.

The standard Hallite 844 is moulded in Hythane® 361, Hallite's high-performance polyurethane, for excellent durability in service. Some sizes of the Hallite 844 are offered in a Hythane® 181 polyurethane with a textured wiping lip to provide improved dry rod performance, particularly for long stroking cylinder applications.



FEATURES

- Fits modified ISO 6195C housing sizes
- Double lips ensure drier sealing system
- Umbrella Wiper Technology™ protects housing from contamination and reduces moisture ingress
- Long life and long wear
- Designed to follow the rod deflection caused by side loads
- Some have textured wiper lip for improved leakage control
- Easy to install
- Especially effective in vertically mounted cylinders

MATERIALS

This product comes in a number of material options to extend operating conditions. Contact your local Hallite technical team to decide which is best for your application. Use the part designator in the table below as the last digit of the part number to specify material choice when ordering. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Type	Colour	Part Designator
Standard	Hythane® 361	TPU-AU	Orange	6
Optional	Hythane® 181	TPU-EU	Blue	0



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

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.

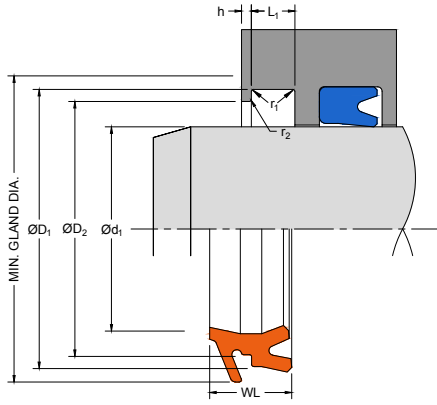
SURFACE ROUGHNESS	μmRa	μmRz	μmRt	μinRa	μinRz	μinRt
Dynamic Sealing Face $\varnothing d_1$	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face $\varnothing D_1, \varnothing D_2, h$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L_1	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII	
Max Fillet Rad r_1 mm	0.40
Max Fillet Rad r_2 mm	0.40

NOTE

Assembly chamfers are governed by the associated rod seal.

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



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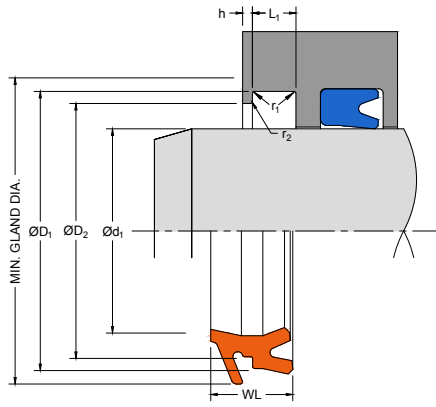
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Polyurethane with Umbrella Design Technology™

PART NUMBER RANGE

METRIC										
Ød ₁	TOL	ØD ₁	TOL	ØD ₂	TOL	L ₁	h	WL	MIN. GLAND DIA	PART No.
	f9		H11		H11	+0.20-0	+0.20-0			
16.00	-0.02 -0.06	22.00	+0.13 0.00	19.80	+0.13 0.00	4.00	1.00	7.00	26.00	4826406
18.00	-0.02 -0.06	24.00	+0.13 0.00	21.80	+0.13 0.00	4.00	1.00	7.00	28.00	4848606
20.00	-0.02 -0.07	26.00	+0.13 0.00	23.80	+0.13 0.00	4.00	1.00	7.00	30.00	4827606
25.00	-0.02 -0.07	31.00	+0.16 0.00	28.80	+0.13 0.00	4.00	1.00	7.00	35.00	4805206
28.00	-0.02 -0.07	36.00	+0.16 0.00	33.00	+0.16 0.00	5.00	1.20	9.00	41.00	4833106
30.00	-0.02 -0.07	38.00	+0.16 0.00	35.00	+0.16 0.00	5.00	1.20	9.00	43.00	4803706
32.00	-0.03 -0.09	40.00	+0.16 0.00	37.00	+0.16 0.00	5.00	1.20	9.00	45.00	4827706
35.00	-0.03 -0.09	43.00	+0.16 0.00	40.00	+0.16 0.00	5.00	1.20	9.00	48.00	4805306
36.00	-0.03 -0.09	44.00	+0.16 0.00	41.00	+0.16 0.00	5.00	1.20	9.00	49.00	4833206
40.00	-0.03 -0.09	48.00	+0.16 0.00	45.00	+0.16 0.00	5.00	1.20	9.00	53.00	4794006
45.00	-0.03 -0.09	53.00	+0.19 0.00	50.00	+0.16 0.00	5.00	1.20	9.00	58.00	4800006
50.00	-0.03 -0.09	58.00	+0.19 0.00	55.00	+0.19 0.00	5.00	1.20	8.00	60.00	4869606
50.00	-0.03 -0.09	58.00	+0.19 0.00	55.00	+0.19 0.00	5.00	1.20	9.00	63.00	4803606
50.80	-0.03 -0.10	60.80	+0.19 0.00	57.80	+0.19 0.00	6.00	1.20	10.00	66.80	4781500±
55.00	-0.03 -0.10	65.00	+0.19 0.00	62.00	+0.19 0.00	6.00	1.60	11.50	71.00	4805406
60.00	-0.03 -0.10	70.00	+0.19 0.00	67.00	+0.19 0.00	6.00	1.60	9.50	72.00	4869706
60.00	-0.03 -0.10	70.00	+0.19 0.00	67.00	+0.19 0.00	6.00	1.60	11.50	76.00	4799506

NOTE Part numbers suffixed by “±” indicate parts with Hythane® 181 and textured wiping lip.





PART NUMBER RANGE

METRIC										
Ød ₁	TOL	ØD ₁	TOL	ØD ₂	TOL	L ₁	h	WL	MIN. GLAND DIA	PART No.
63.00	-0.03 -0.10	73.00	+0.19 0.00	70.00	+0.19 0.00	6.00	1.60	11.50	79.00	4833306
65.00	-0.03 -0.10	75.00	+0.19 0.00	72.00	+0.19 0.00	6.00	1.60	11.50	81.00	4805506
70.00	-0.03 -0.10	80.00	+0.19 0.00	77.00	+0.19 0.00	6.00	1.60	11.50	86.00	4805606
75.00	-0.03 -0.10	85.00	+0.22 0.00	82.00	+0.22 0.00	6.00	1.60	11.50	91.00	4805706
80.00	-0.03 -0.10	90.00	+0.22 0.00	87.00	+0.22 0.00	6.00	1.60	11.50	96.00	4805806
85.00	-0.04 -0.12	95.00	+0.22 0.00	92.00	+0.22 0.00	6.00	1.60	11.50	101.00	4805906
90.00	-0.04 -0.12	100.00	+0.22 0.00	97.00	+0.22 0.00	6.00	1.60	11.50	106.00	4806006
105.00	-0.04 -0.12	120.00	+0.22 0.00	115.00	+0.22 0.00	9.50	2.50	17.00	129.00	4800400‡
110.00	-0.04 -0.12	125.00	+0.25 0.00	120.00	+0.22 0.00	9.50	2.50	17.00	134.00	4853106
125.00	-0.04 -0.14	140.00	+0.25 0.00	135.00	+0.25 0.00	9.50	2.50	17.00	149.00	4853206

NOTE Part numbers suffixed by "‡" indicate parts with Hythane® 181 and textured wiping lip.

