

Design

The Hallite 33 wiper has a lip designed to remove lightly adhered dirt from the rod i.e. mud, dust or moisture.

The wiper is manufactured from a hard nitrile rubber suitable for installing in a grooved housing. Rod diameters ($\varnothing d_1$) of 20mm and below require a two piece housing .

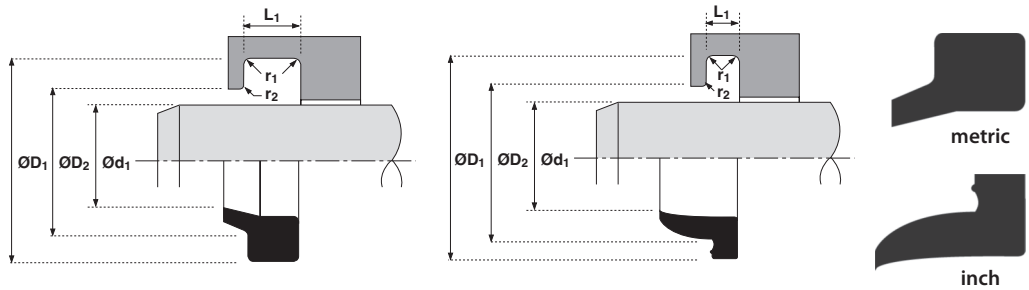
To prevent dirt passing the outside of the wiper and to reduce the pumping action, the outside diameter is an interference fit with the housing. Certain sizes of the standard Hallite 33 metric range are suitable for ISO 6195 Housing Type A.

It should also be noted that the Hallite 33 inch profile differs from the metric profile.

NB: Part numbers suffixed by “†” indicate housing sizes to meet ISO6195A. Many of the metric sizes are also available as polyester wipers – see Hallite 38.

Features

- General purpose wiper
- Wide size ranges
- Effective seal on housing as well as rod



Technical details

Operating conditions

Maximum Speed 4.0 m/sec
Temperature Range -30°C +100°C

Surface roughness

Dynamic Sealing Face $\varnothing d_1$ 0.1 < > 0.4 μmRa 4 max μmRt
Static Sealing Face $\varnothing D_1$ $\varnothing D_2$ 2.5 max 16 max
Static Housing Faces L_1 2.5 max 16 max

Radii

	Metric	Inch
Rod Diameter $\varnothing d_1$ mm	≤ 50	≤ 90
Max Fillet Rad r_1 mm	0.4	0.4
Max Fillet Rad r_2 mm	0.2	0.4
Rod Diameter $\varnothing d_1$ in	all	≤ 200
Max Fillet Rad r_1 in	0.010	> 200
Max Fillet Rad r_2 in	0.020	0.8

Tolerances

	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	L_1
mm	f9	H11	H11	+0.2 -0
in	f9	+0.020 +0.010	± 0.005	+0.020 +0.010

Inch

12.0 ft/sec
-22°F +212°F

$\mu inCLA$	$\mu inRMS$
4 < > 16	5 < > 18
100 max	111 max
100 max	111 max

