Single Acting Rod Wiper Seal
WM
Metric

Design

Claron Style WM Rod wiper is designed to remove potential system contaminents from a reciprocating rod during the negative stroke. It is classified as a medium duty wiper and is precision moulded in Nitrile 90° rubber.
The wiper is machine trimmed to provide a precise wiping lip.

Operating Conditions

Temp.Range	-30°C to 100°C
Max Linear Speed m/sec	3.0

Optimum service conditions are affected by temperature, speed and surface finish.
Refer to Appendix 1for further information.

Continuous operating temperature for various Fluids

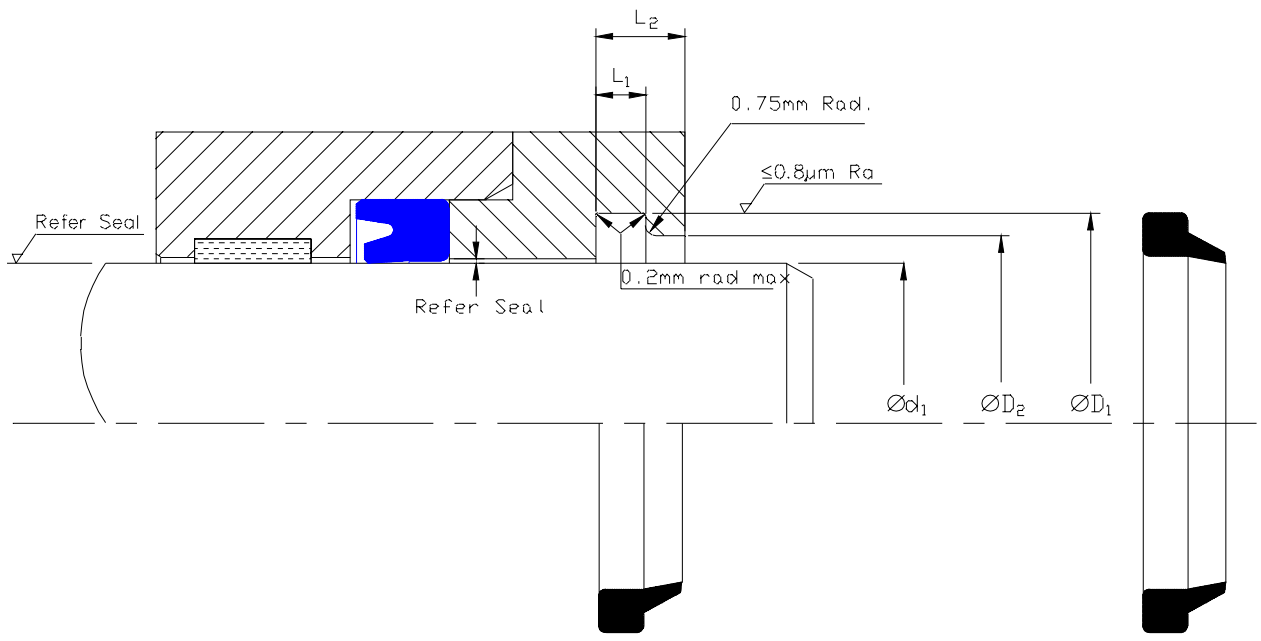
NBR Rubber		
DIN	**Hydraulic Fluid Description**	**°C**
H	Mineral oil without additives	100
H-L	Mineral Fluid with anti corrosion and anti ageing additives	100
H-LP	Mineral oil as HL plus additives reducing wear, raising load	100
H-LPD	Mineral oil as H-LP but with detergents and dispersants	100
H-V	Mineral oil as H-LP plus improved viscosity temp.	100
HFA E	Emulsions of mineral oil in water. Water content 80-95%	55
HFA S	Synthetic oil in water. Water content 80-95%	55
HFB	Emulsions of water in mineral oil. Water content 40%	60
HFC	Aqueous polymer solutions. Water content 35%	60
HFD R	Phosphoric acid ester based	NS
HFD S	Chlorinated hydrocarbon based	NS
HFD T	Mixtures of HFD R and HFD S	NS
HEPG	Polyglycol based	NS
HETG	Vegetable Oil based	60
HEES	Fully synthetic ester based	NS

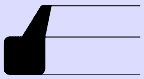
Housing

For surface finish and recommended lead in chamfers refer to the illustration below. For housing dimensions and machining tolerances refer to the catalogue page of selected seal.
Refer to Appendix 4 for value of tolerance symbols.

Fitting

Style WM may be deformed and fitted into a closed groove housing as shown below. For the seal to function correctly, it is important that care be taken in fitting the seal within its housing.
For a detailed checklist, refer to Appendix 3.





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Claron Part Number	Nominal Dimensions & Machining Tolerances				
	Refer Seal Selection $Ød_1$	+0.20 -0.00 $ØD_1$	+0.20 -0.00 $ØD_2$	+0.20 -0.00 L_1	Nominal L_2
WM 078110	20	28.0	24	4.0	6
WM 098129	25	33.0	29	4.0	6
WM 110141	28	36.0	32	4.0	6
WM 118165	30	42.0	36	6.0	9
WM 125173	32	44.0	38	6.0	9
WM 141188	36	48.0	42	6.0	9
WM 157204	40	52.0	46	6.0	9
WM 177224	45	57.0	51	6.0	9
WM 196244	50	62.0	55	6.0	9
WM 216255	55	65.6	58	5.3	7
WM 248295	63	75.0	69	6.0	9
WM 314362	80	92.2	86	7.1	12