Single Acting Rod Wiper Seal

PWM

Metric
Imperial

Design

Claron Style PWM Rod wiper is designed to remove potential system contaminates 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 1section for further information.

Continuous operating temperature for various Fluids

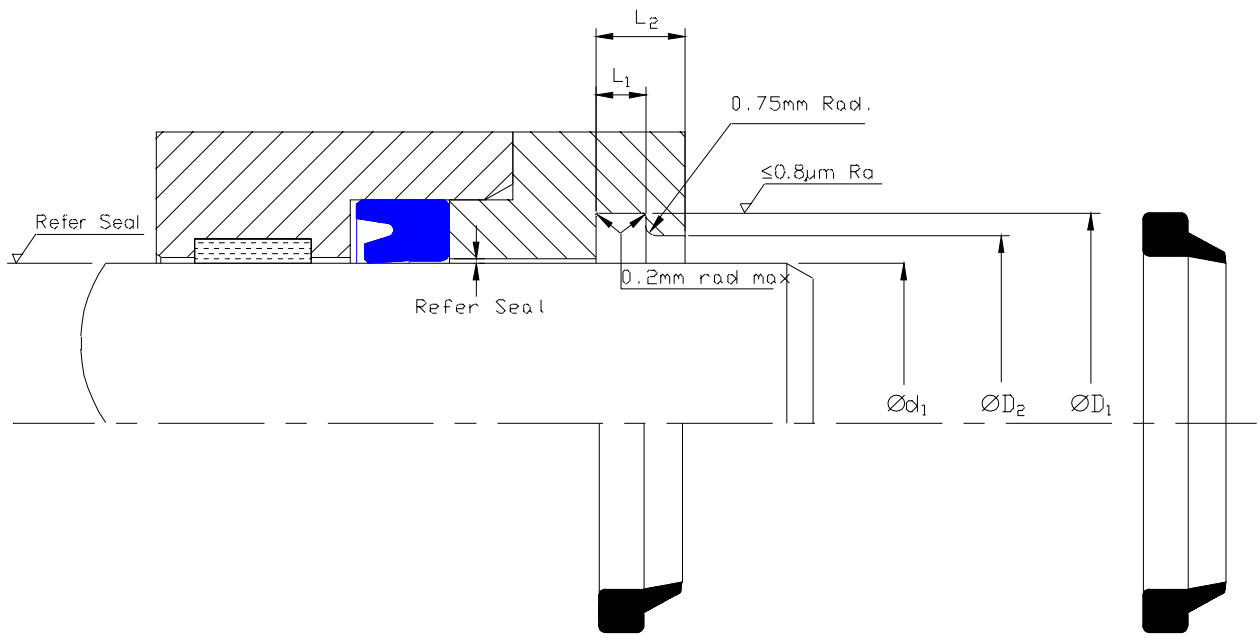
NBR Rubber		
DIN	**Hydraulic Fluid Description**	**°C**
H	Mineral oil without additives	100
H-L	Mineral Fluid with anti corrosion and anti ageing additives	100
H-LP	Mineral oil as HL plus additives reducing wear, raising load	100
H-LPD	Mineral oil as H-LP but with detergents and dispersants	100
H-V	Mineral 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 PWM 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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Nominal Dimensions & Machining Tolerances

Claron Part Number	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
PWM 070094	18	24.6	21	3.8	5.3
PWM 070102	18	26.6	21	5.3	7.0
PWM 078110	20	28.6	23	5.3	7.0
PWM 086118	22	30.6	25	5.3	7.0
PWM 098129	25	33.6	28	5.3	7.0
PWM 110141	28	36.6	31	5.3	7.0
PWM 118149	30	38.6	33	5.3	7.0
PWM 125157	32	40.6	35	5.3	7.0
PWM 137169	35	43.6	38	5.3	7.0
PWM 141173	36	44.6	39	5.3	7.0
PWM 157188	40	48.6	43	5.3	7.0
PWM 177208	45	53.6	48	5.3	7.0
PWM 196228	50	58.6	53	5.3	7.0
PWM 216248	55	63.6	58	5.3	7.0
PWM 220251	56	64.6	59	5.3	7.0
PWM 236267	60	68.6	63	5.3	7.0
PWM 248279	63	71.6	66	5.3	7.0
PWM 275307	70	78.6	73	5.3	7.0
PWM 295326	75	83.6	78	5.3	7.0
PWM 314346	80	88.6	83	5.3	7.0
PWM 354401	90	102.6	96	7.1	10.5
PWM 362409	92	104.6	98	7.1	10.5
PWM 393440	100	112.2	106	7.1	10.5
PWM 464511	118	130.2	124	7.1	10.5
PWM 9631043	245	266.0	259	11.0	14.5

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Claron Part Number	Nominal Dimensions & Machining Tolerances				
	Refer Seal Selection $Ød_1$	+0.008 -0.000 $ØD_1$	+0.008 -0.000 $ØD_2$	+0.008 -0.000 L_1	Nominal L_2
PWM 075100	0.750	1.026	0.875	0.156	0.210
PWM 100137	1.000	1.398	1.187	0.230	0.300
PWM 137175	1.375	1.773	1.562	0.230	0.300
PWM 150187	1.500	1.898	1.678	0.230	0.300
PWM 175206	1.750	2.085	1.875	0.218	0.280
PWM 200237	2.000	2.398	2.187	0.230	0.300
PWM 225262	2.250	2.648	2.437	0.230	0.300
PWM 250287	2.500	2.898	2.687	0.230	0.300
PWM 300337	3.000	3.398	3.187	0.230	0.300
PWM 350400	3.500	4.008	3.750	0.295	0.450
PWM 400450	4.000	4.508	4.250	0.295	0.450
PWM 437487	.4.375	4.883	4.625	0.295	0.450
PWM 500550	5.000	5.508	5.250	0.295	0.450