Single Acting Rod Wiper Seal
PWB
Imperial

Design

Claron Style PWB rod wiper is designed to remove potential system contaminants from a reciprocating rod during the negative stroke. It is classified as a light duty wiper and is precision moulded in Nitrile 90° rubber. The wiper is machine trimmed to provide a precise wiping lip.
The wiper is compact in design making it ideal for use where space is an important factor.

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 1 for further information.

Continuous operating temperature for various Fluids

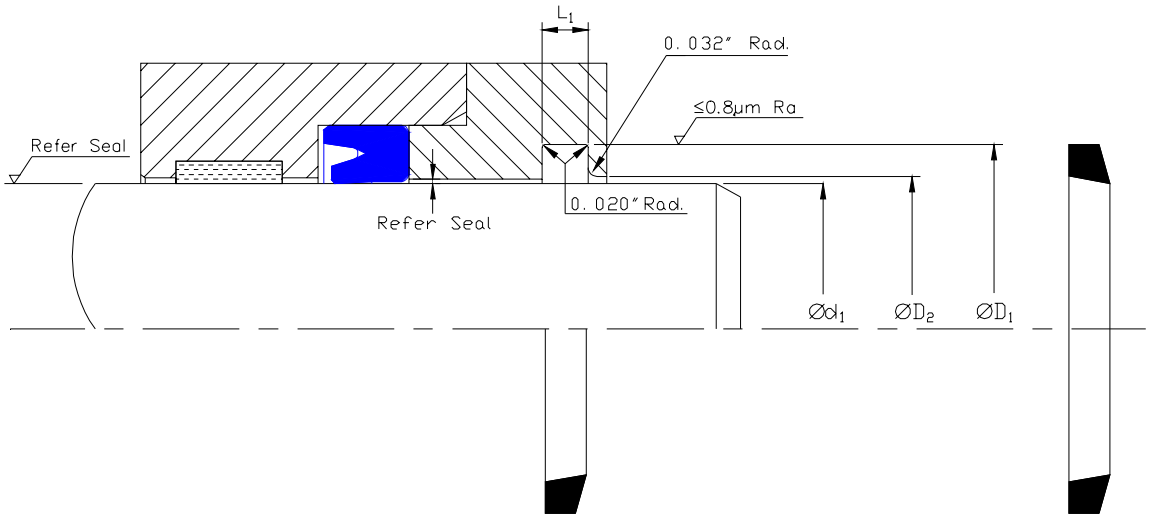
NBR Rubber		
DIN	**Hydraulic Fluid Description**	**°C**
H	Mineral oil without additives	100
H-L	Mineral Fluid with anti corrosion and anti ageing additives	100
H-LP	Mineral oil as HL plus additives reducing wear, raising load	100
H-LPD	Mineral oil as H-LP but with detergents and dispersants	100
H-V	Mineral 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 PWB 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 $Ød_1$	+0.000 -0.005 $ØD_1$	+0.005 -0.000 $ØD_2$	Nominal ±0.010 L_1
PWB 0	0.375	0.540	0.430	0.120
PWB 01	0.437	0.610	0.495	0.120
PWB 1	0.500	0.680	0.560	0.130
PWB 2	0.562	0.740	0.630	0.130
PWB 3	0.625	0.820	0.700	0.140
PWB 4	0.687	0.880	0.760	0.140
PWB 5	0.750	0.950	0.820	0.140
PWB 6	0.812	1.020	0.880	0.140
PWB 7	0.875	1.080	0.950	0.150
PWB 8	0.937	1.150	1.010	0.150
PWB 9	1.000	1.240	1.080	0.160
PWB 11	1.125	1.375	1.210	0.160
PWB 12	1.187	1.420	1.270	0.160
PWB 13	1.250	1.490	1.330	0.170
PWB 15	1.375	1.625	1.460	0.170
PWB 17	1.500	1.770	1.590	0.180
PWB 19	1.625	1.880	1.720	0.180
PWB 20	1.687	1.960	1.780	0.190
PWB 21	1.750	2.030	1.850	0.190
PWB 23	1.875	2.160	1.970	0.190
PWB 25	2.000	2.300	2.100	0.200
PWB 26	2.125	2.430	2.230	0.210
PWB 27	2.250	2.570	2.360	0.210
PWB 28	2.375	2.700	2.490	0.220
PWB 29	2.500	2.840	2.610	0.220
PWB 30	2.625	2.970	2.740	0.230
PWB 31	2.750	3.110	2.870	0.230
PWB 32	2.875	3.240	3.000	0.240
PWB 33	3.000	3.380	3.130	0.240
PWB 34	3.125	3.500	3.260	0.250
PWB 35	3.250	3.650	3.390	0.250
PWB 36	3.375	3.780	3.510	0.260
PWB 37	3.500	3.920	3.640	0.270
PWB 38	3.625	4.050	3.770	0.270
PWB 39	3.750	4.190	3.900	0.280
PWB 40	3.875	4.320	4.030	0.280
PWB 41	4.000	4.460	4.160	0.290
PWB 44	4.250	4.730	4.410	0.300
PWB 45	4.375	4.860	4.540	0.300
PWB 46	4.500	5.000	4.670	0.310
PWB 48	5.000	5.540	5.180	0.330
PWB 50	5.250	5.810	5.440	0.340
PWB 51	5.375	5.945	5.570	0.345
PWB 52	5.500	6.080	5.700	0.350
PWB 53	5.625	6.126	5.185	0.355
PWB 56	6.000	6.620	6.210	0.380
PWB 60	6.500	7.160	6.720	0.400
PWB 61	6.625	7.295	6.850	0.405