

ClaronPolyseal[®] Single Acting Rod Wiper Seal Metric PMSImperial

Design

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

The addition of sealing beads on this wiper provide positive sealing in the housing preventing moisture/contaminants from passing the outside of the wiper.

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					
Н	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					

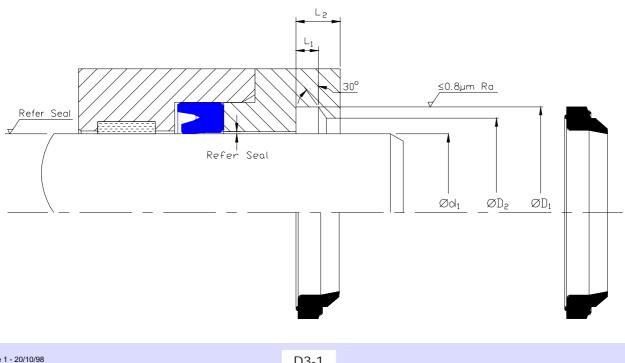
Housing

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

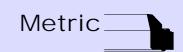
Style PWS may be deformed and fitted into a closed groove housing as shown below. For the seal to function correctly, it is important that care be taken in fitting the seal within its housing. For a detailed checklist, refer to Appendix 3.



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Single Acting Rod Wiper Seal $$\mathsf{PWS}$$



Nominal Dimensions & Machining Tolerances

Claron	Nominal Dimensions & Machining Tolerances					
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	
PWS 074106 PWS 098148 PWS 118168 PWS 125157 PWS 137187 PWS 157207 PWS 196228 PWS 220270 PWS 236286 PWS 248298 PWS 248298 PWS 255305 PWS 255305 PWS 315365 PWS 334384 PWS 393443	19.00 25.00 30.00 32.00 35.00 40.00 50.00 56.00 60.00 63.00 65.00 75.00 80.00 85.00 100.00	27.00 37.70 42.70 40.00 47.70 52.70 58.00 68.70 72.70 75.70 77.70 87.70 92.70 92.70 97.70 112.70	23.00 31.40 36.40 36.00 41.40 46.40 54.00 62.40 66.40 69.40 71.40 81.40 86.40 91.40 106.40	3.40 5.30 5.30 3.40 5.30 3.40 5.30 5.30 5.30 5.30 5.30 5.30 5.30 5.3	7.00 8.90 8.90 7.00 8.90 7.00 8.90 8.90 8.90 8.90 8.90 8.90 8.90 8	

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Single Acting Rod Wiper Seal



Nominal Dimensions & Machining Tolerances

'S

Claron	Nominal Dimensions & Machining Tolerances					
Part Number	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	
PWS 100150	1.000	1.500	1.250	0.208	0.350	
PWS 112162	1.125	1.625	1.375	0.208	0.350	
PWS 125175	1.250	1.750	1.500	0.208	0.350	
PWS 137187	1.375	1.875	1.625	0.280	0.350	
PWS 150200	1.500	2.000	1.750	0.208	0.350	
PWS 162212	1.625	2.125	1.875	0.208	0.350	
PWS 175225	1.750	2.250	2.000	0.208	0.350	
PWS 187237	1.875	2.375	2.125	0.208	0.350	
PWS 200250	2.000	2.500	2.250	0.208	0.350	
PWS 212262	2.125	2.625	2.375	0.208	0.350	
PWS 225275	2.250	2.750	2.500	0.208	0.350	
PWS 250300	2.500	3.000	2.750	0.208	0.350	
PWS 275325	2.750	3.250	3.000	0.208	0.350	
PWS 300350	3.000	3.500	3.250	0.208	0.350	
PWS 325375	3.250	3.750	3.500	0.208	0.350	
PWS 337387	3.375	3.875	3.625	0.208	0.350	
PWS 350400	3.500	4.000	3.750	0.208	0.350	
PWS 362412	3.625	4.125	3.875	0.208	0.350	
PWS 400450	4.000	4.500	4.250	0.208	0.350	
PWS 437487	4.375	4.875	4.625	0.208	0.350	
PWS 450500	4.500	5.000	4.750	0.208	0.350	
PWS 462512	4.625	5.125	4.875	0.208	0.350	
PWS 475525	4.750	5.250	5.000	0.208	0.350	
PWS 512562	5.125	5.625	5.375	0.208	0.350	
PWS 537587	5.375	5.875	5.625	0.208	0.350	
PWS 562612	5.625	6.125	5.875	0.208	0.350	