ClaronPolyseal®



Single Acting Rod Seal

CPUI.../OR



Design

Claron style CPUI.../OR is a Polyurethane U-seal incorporating an O-Ring energiser. This guarantees the pre-loading of the seal lips for low pressure sealing, thus optimising seal performance. Polyurethane provides outstanding abrasion and wear resistance ensuring that the seal operates in the most arduous conditions. The anti-extrusion ring which is energised at high pressures, increases the maximum working pressure as well as protecting the seal against pressure spikes.

Operating Conditions

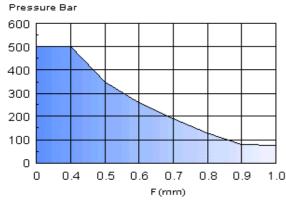
Maximum Pressure								
Max Speed	Temp. Range	Temp. Range						
m/s	-40°C to 80°C	-40°C to 110°C						
0.50	350 Bar	300 Bar						
0.15	500 Bar	450 Bar						

These range perameters are Maximum simultaneous conditions.

Optimum service conditions are affected by temperature, speed, pressure, surface finish and extrusion gaps.

Refer to Appendix 1 for further information.

Maximum Diametral Clearance F



Continuous operating temperature for various fluids

AU Polyurethane						
DIN	Hydraulic Fluid Description					
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%	40				
HFA S	Synthetic oil in water. Water content 80-95%	40				
HFB	Emulsions of water in mineral oil. Water content 40%	40				
HFC	Aqueous polymer solutions. Water content 35%	ns				
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	60				

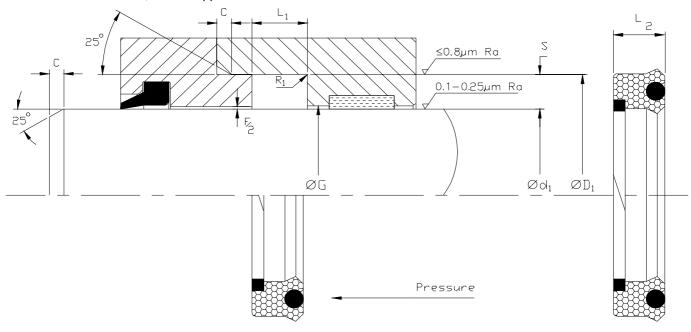
Note: Clearance gap F is the maximum permissable. i.e. gap completely on one side, in the temperature range of -30°C to 80°C The use of a suitably selected Claron bearing ring will effectively reduce the clearance gap F max. to a value closer to F/2 thus increasing the pressure capability of the seal.

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

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.



issue 1 - 20/10/98 C15-1

ClaronPolyseal®



Single Acting Rod Seal CPUI.../OR



Claron Part Number	Nominal Dimensions & Machining Tolerances						
	f8 H9	H10	+0.25 -0.00	Nominal	Nominal	Min	Max.
	$Ød_1$ $ØG$	$ØD_1$	L ₁	$L_{\!\scriptscriptstyle 2}$	S	С	R ₁
CPUI 216157/OR CPUI 255196/OR CPUI 295236/OR CPUI 314255/OR	40 50 60 65	55 65 75 80	12.5 12.5 12.5 12.5	11.4 11.4 11.4 11.4	7.5 7.5 7.5 7.5	5.0 5.0 5.0 5.0	0.4 0.4 0.4 0.4
CPUI 413354/OR	90	105	12.5	11.3	7.5	5.0	0.4
CPUI 433354/OR	90	110	12.5	11.3	10.0	6.5	0.6

C15-2 issue 2 - 21/02/02