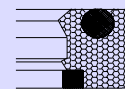
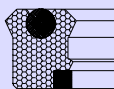


CPGI.../OR



Design

The seal is an asymmetric Polyurethane U-seal incorporating an NBR energiser pre-loading the seal lips thus improving sealing at low pressures. The secondary sealing lip assists sealing, reduces friction and helps to protect the main lip from damage caused by dirt ingress. The Anti-extrusion ring which is energised at high pressures increases the maximum working pressure as well as protecting the seal against pressure spikes caused by shock loads. Polyurethane exhibits outstanding abrasion and wear resistance ensuring that the seal operates in the most arduous conditions.

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

Continuous operating temperature for various fluids

Polyurethane / Nitrile Composite		
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%	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	NS

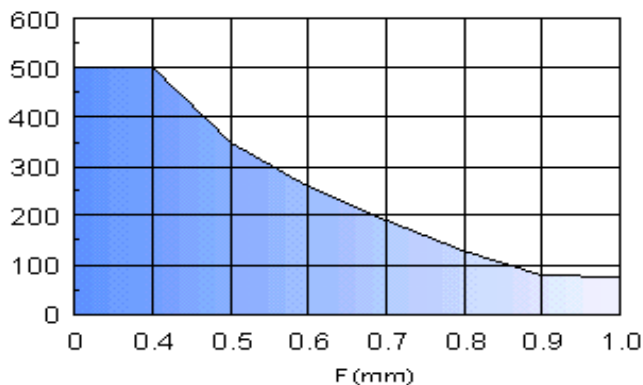
These range parameters are Maximum simultaneous conditions.

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

Pressure Bar



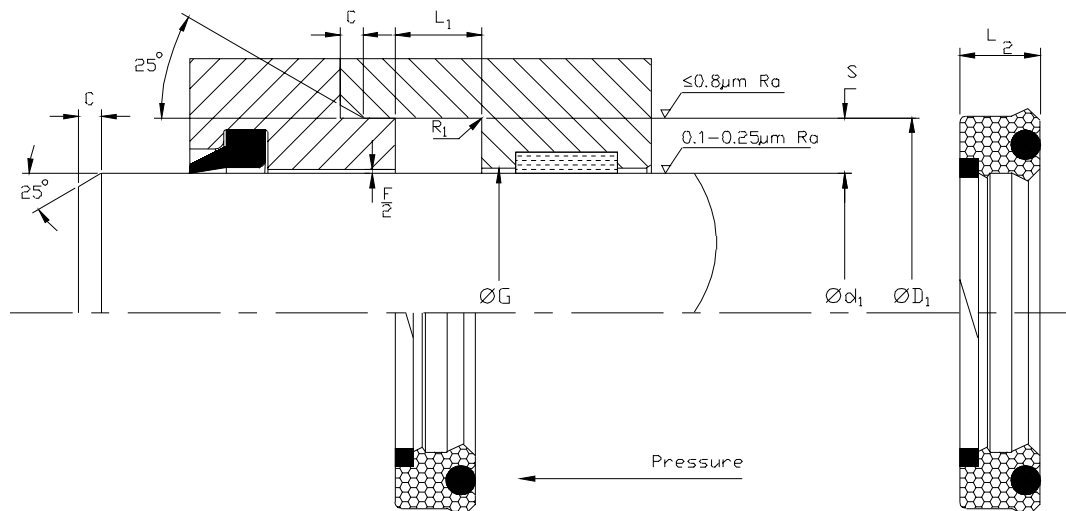
Note: Clearance gap F is the maximum permissible. i.e. gap completely on one side, in the temperature range of -30°C to 80°C. The use of a suitably selected Claron bearing ring will effectively reduce the clearance gap F max. to a value closer to F/2 thus increasing the pressure capability of the seal.

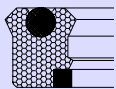
Housing

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.

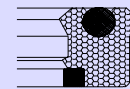




ClaronPolyseal®
Single Acting Rod Seal

Metric

CPGI.../OR



Nominal Dimensions & Machining Tolerances

Claron Part Number	f8	H10	H9	+0.25 -0.00	Nominal	Nominal	Min	Max.
	Ød ₁	ØD ₁	ØG	L ₁	L ₂	S	C	R ₁
CPGI 065080/OR	65	80		12.5	11.4	7.5	5.0	0.4
CPGI 070085/OR	70	85		12.5	11.4	7.5	5.0	0.4
CPGI 075090/OR	75	90		12.5	11.4	7.5	5.0	0.4
CPGI 080095/OR	80	95		12.5	11.4	7.5	5.0	0.4
CPGI 085100/OR	85	100		12.5	11.4	7.5	5.0	0.4
CPGI 090105/OR	90	105		12.5	11.4	7.5	5.0	0.4
CPGI 095110/OR	95	110		12.5	11.4	7.5	5.0	0.4
CPGI 100115/OR	100	115		12.5	11.4	7.5	5.0	0.4