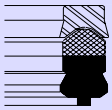
EGS



Design

Claron Style EGS rod seal is a 2 piece assembly consisting of a Nitrile Rubber sealing element complete with rubberised fabric reinforcement which is backed up by a tough Thermoplastic elastomer header. The complete assembly forms a robust sealing unit for use in high pressure applications where shock loads and pressure spikes are present. This seal is widely used in telescopic cylinder applications.

Operating Conditions

Maximum	Pressure
Max Speed	Temp. Range
m/s	-30°C to 100°C
0.50	250 Bar
0.15	400 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.

Continuous operating temperature for various Fluids

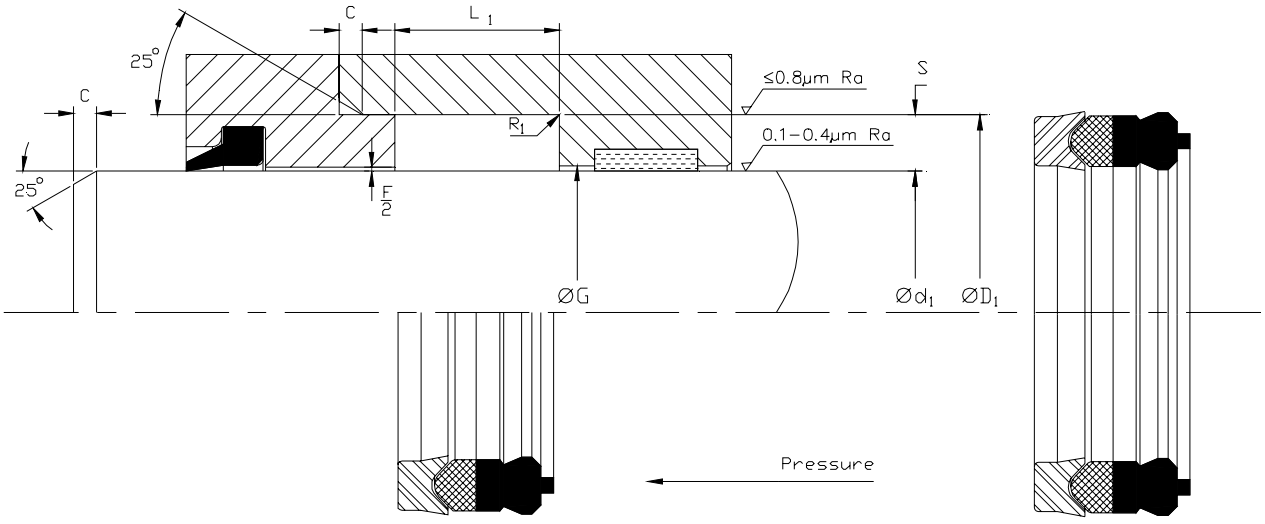
NBR Rubber		
DIN	**Hydraulic Fluid Description**	**°C**
H	Mineral oil without additives	100
H-L	Mineral Fluid with anti corrosion and anti ageing additives	100
H-LP	Mineral oil as HL plus additives reducing wear, raising load	100
H-LPD	Mineral oil as H-LP but with detergents and dispersants	100
H-V	Mineral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

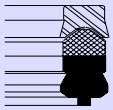
Style EGS is designed to be fitted into a split gland as shown in the illustration below. The seal can be supplied split to ease fitting if required. For the seal to function correctly, it is important that care be taken in fitting the seal within its housing. For a detailed checklist, refer to Appendix 3.



Single Acting Rod Seal

EGS

Imperial



Nominal Dimensions & Machining Tolerances

Claron Part Number	±0.001 H9 $Ød_1$ ØG	±0.003 $ØD_1$	+0.015 +0.025 L_1	Max. F	Max. R_1	Max. R_2
EGS 275	2.750	3.200	0.750	0.010	0.020	0.030
EGS 350	3.500	4.013	0.750	0.010	0.020	0.030
EGS 437	4.365	4.888	0.750	0.010	0.020	0.030
EGS 525	5.249	5.888	0.775	0.010	0.020	0.030
EGS 631	6.312	6.889	0.750	0.010	0.020	0.030
EGS 731	7.312	7.954	0.750	0.010	0.020	0.030
EGS 837	8.375	9.000	0.750	0.010	0.020	0.030