

Design

CLARON STYLE PEI is designed for use as a single acting Rod seal. The seal is a precision moulded Nitrile rubber sealing element with a bonded fabric reinforced base to resist extrusion. Style PEI also has the added benefit of a clip on POM anti-extrusion ring for larger clearances or higher pressures. Designed with initial radial interference to effect low pressure sealing, at higher pressures the seal is progressively energised thus increasing the sealing force. Rubberised fabric has the advantage of retaining the sealing media within its surface, thus reducing friction and wear. Style PEI is an effective design over a wide range of applications.

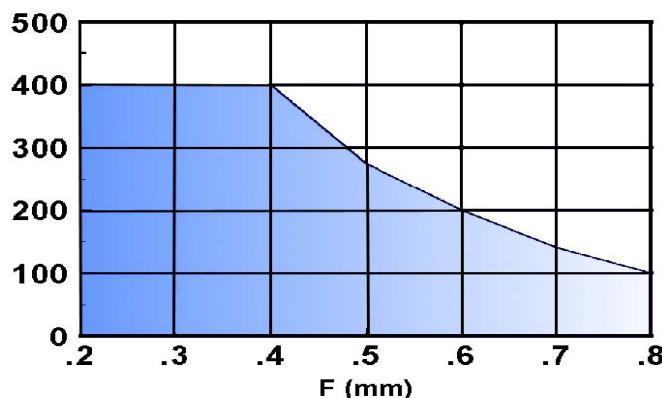
Operating Conditions

Maximum Speed m/s	Pressure Bar
0.50	250 Bar
0.15	400 Bar

These range parameters are Maximum simultaneous conditions.

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

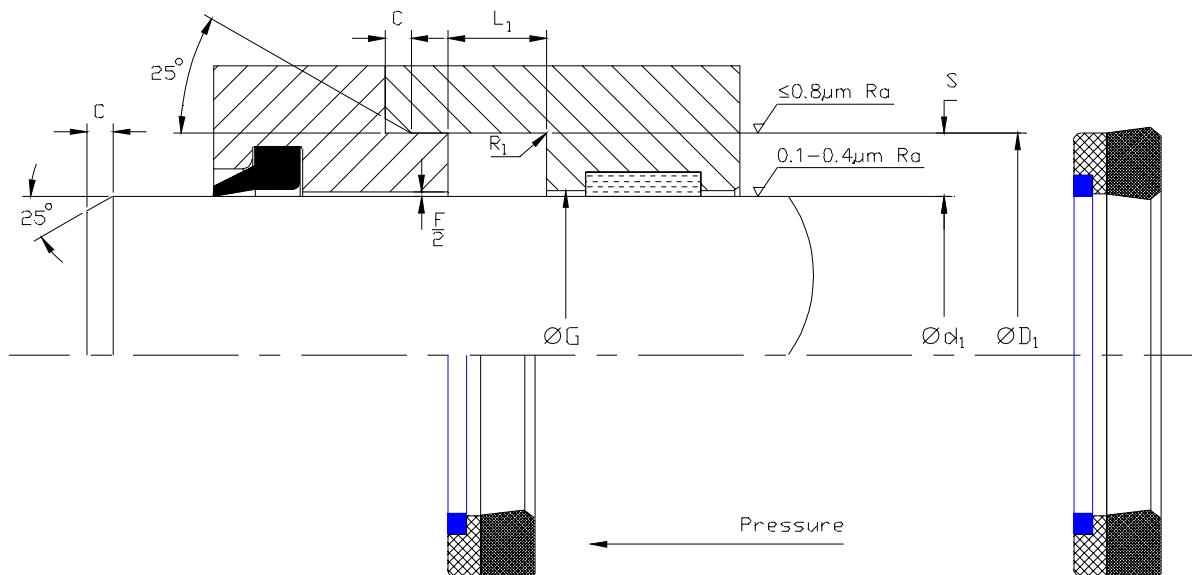
Refer to Appendix 1 for further information.

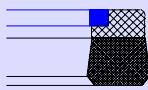
Pressure Bar**Housing**

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.

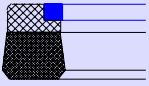
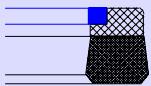
Fitting

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.



Single Acting Rod Seal Imperial
PEI


Claron Part Number	Nominal Dimensions & Machining Tolerances						
	Js 11	f8	H9	+0.025 -0.015	Nominal	Min	Max
	ØD ₁	Ød ₁	ØG	L ₁	S	C	R ₁
PEI 100062	1.000		0.625	0.281	0.187	0.093	0.010
PEI 109075	1.093		0.750	0.281	0.171	0.093	0.010
PEI 112075	1.125		0.750	0.312	0.187	0.093	0.010
PEI 125075/1	1.250		0.750	0.312	0.250	0.125	0.015
PEI 125075/2	1.250		0.750	0.375	0.250	0.125	0.015
PEI 125100	1.250		1.000	0.187	0.125	0.093	0.010
PEI 137087/1	1.375		0.875	0.250	0.250	0.125	0.015
PEI 137100	1.375		1.000	0.250	0.187	0.093	0.010
PEI 137112	1.375		1.125	0.187	0.125	0.093	0.010
PEI 143093	1.437		0.937	0.375	0.250	0.125	0.015
PEI 150100	1.500		1.000	0.375	0.250	0.125	0.015
PEI 150100/1	1.500		1.000	0.250	0.250	0.125	0.015
PEI 150100/2	1.500		1.000	0.437	0.250	0.125	0.015
PEI 156112	1.562		1.125	0.343	0.218	0.093	0.010
PEI 162112	1.625		1.125	0.375	0.250	0.125	0.015
PEI 162125	1.625		1.250	0.281	0.187	0.093	0.010
PEI 162125/1	1.625		1.250	0.250	0.187	0.093	0.010
PEI 175112	1.750		1.125	0.437	0.312	0.156	0.015
PEI 175125	1.750		1.250	0.375	0.250	0.125	0.015
PEI 187125	1.875		1.250	0.437	0.312	0.156	0.015
PEI 187125/2	1.875		1.250	0.500	0.312	0.156	0.015
PEI 187150/1	1.875		1.500	0.250	0.187	0.093	0.010
PEI 187150/2	1.875		1.500	0.281	0.187	0.093	0.010
PEI 200150	2.000		1.500	0.375	0.250	0.125	0.010
PEI 200150/1	2.000		1.500	0.468	0.250	0.125	0.010
PEI 200162/1	2.000		1.625	0.281	0.187	0.093	0.010
PEI 212150/1	2.125		1.500	0.437	0.312	0.156	0.015
PEI 212175/1	2.125		1.750	0.300	0.187	0.093	0.010
PEI 212175/2	2.125		1.750	0.281	0.187	0.093	0.010
PEI 225175/1	2.250		1.750	0.375	0.250	0.125	0.010
PEI 231200	2.312		2.000	0.250	0.156	0.093	0.010
PEI 237175	2.375		1.750	0.437	0.312	0.156	0.015
PEI 237198	2.375		1.980	0.360	0.197	0.093	0.010
PEI 250175	2.500		1.750	0.500	0.375	0.187	0.032
PEI 250198	2.500		1.980	0.360	0.260	0.125	0.010
PEI 250200/1	2.500		2.000	0.375	0.250	0.125	0.010
PEI 250212	2.500		2.125	0.312	0.187	0.093	0.010
PEI 262200	2.625		2.000	0.437	0.312	0.156	0.015
PEI 275200/1	2.750		2.000	0.625	0.375	0.187	0.032
PEI 275225	2.750		2.250	0.375	0.250	0.125	0.010
PEI 300250	3.000		2.500	0.312	0.250	0.125	0.010
PEI 306250	3.062		2.500	0.437	0.281	0.125	0.010
PEI 325225	3.250		2.250	0.875	0.500	0.250	0.032
PEI 325250/1	3.250		2.500	0.562	0.375	0.187	0.032
PEI 350275	3.500		2.750	0.562	0.375	0.187	0.032


 Single Acting Rod Seal Imperial PEI
 

Claron Part Number	Nominal Dimensions & Machining Tolerances						
	Js11	f8	H9	+0.025 -0.015	Nominal	Min	Max
	$\emptyset D_1$	$\emptyset d_1$	$\emptyset G$	L_1	S	C	R_1
PEI 375300	3.750	3.000		0.562	0.375	0.187	0.032
PEI 425348	4.250	3.480		0.450	0.385	0.187	0.032
PEI 425350/1	4.250	3.500		0.562	0.375	0.187	0.032
PEI 475400/1	4.750	4.000		0.687	0.375	0.187	0.032
PEI 500400	5.000	4.000		0.750	0.500	0.250	0.032