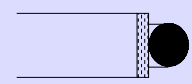


CS1 CS3



Design

Claron composite seals styles CS1 and CS3 are designed for use in light duty hydraulic or pneumatic rod applications. Style CS1 covers the range of imperial sizes, and the CS3 metric sizes. For advice on installation, refer to Appendix.

Materials

Claron composite seals style CS1 and CS3 as standard comprise of a Virgin PTFE inner sleeve and are energised by a 75° shore hardness Nitrile rubber O-Ring. A full range of materials are available to suit a variety of applications. See tables in Appendix.

Operating Conditions

Maximum Working Pressure for "Standard" seal applications using specified tolerances.

Temp Range: -40°C to +120°C (Dependent upon energiser material. See Appendix)

Max. Pressure: 350 Bar

Max. Linear Speed: 15m/s

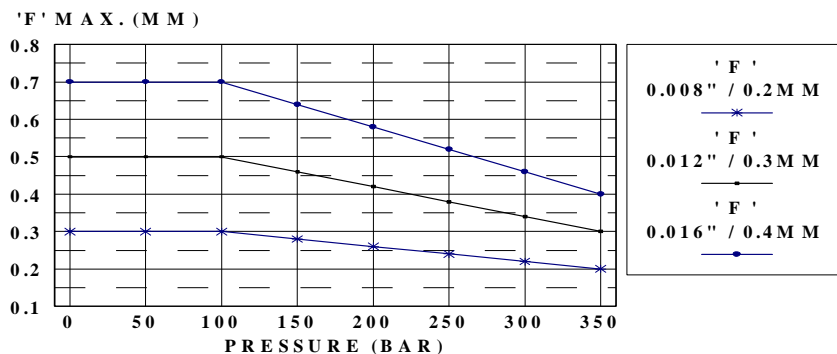
These range parameters are maximum conditional values

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

Refer to Appendix 1 for further information.

Diametral Clearance 'F'

'F' shown in the size tables is based upon Virgin P.T.F.E., temperatures up to 80°C and 350 Bar pressure in designs where PTFE guide tape is utilised. For other pressures, refer to the graph shown below.



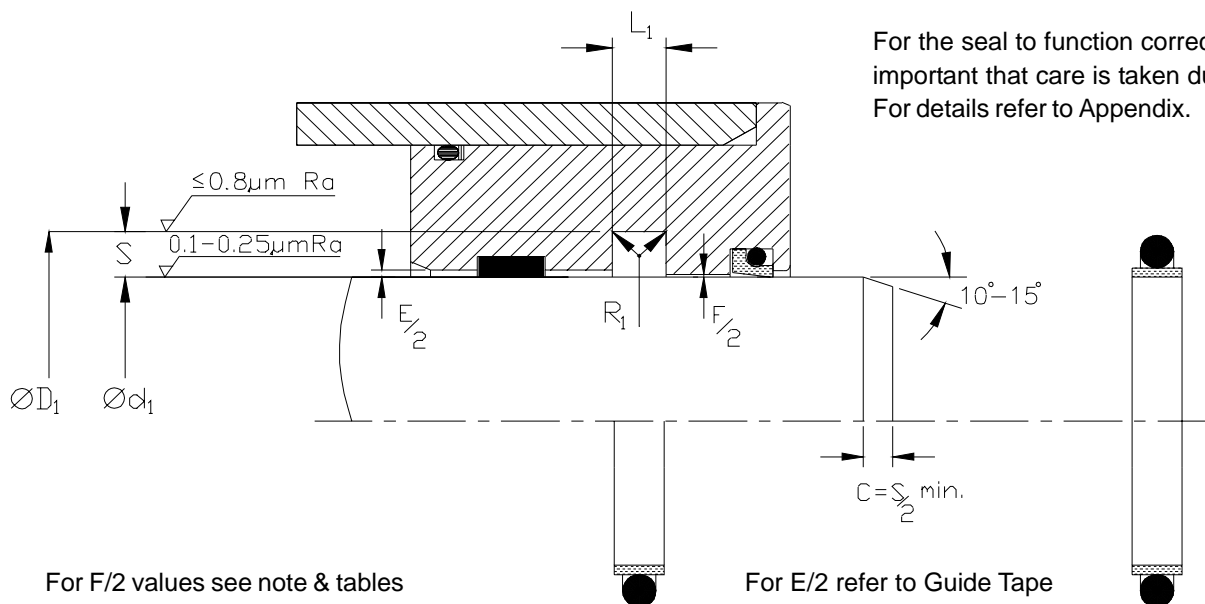
To use this graph, refer to the tables on page for the max. value of 'F' at 350 Bar then apply the relevant curve for the various pressures.

The maximum extrusion gap 'F/2' should be calculated allowing for all movements due to tolerances, side-loads and cylinder expansion.

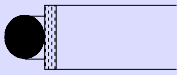
How To Order

When ordering, quote the size reference shown on the dimensions table.

If an energiser material other than the standard nitrile type is required, consult Claron for the part number to be used.

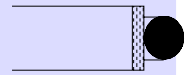


For the seal to function correctly it is important that care is taken during fitting. For details refer to Appendix.



CS 1 Imperial
CS 3 Metric

ClaronPolyseal®
Double Acting Rod Seals



CS 1 Imperial Sizes

CS 3 Metric Sizes

Nominal Dimensions & Machining Tolerances

Nominal Dimensions & Machining Tolerances

Claron	h9 Ød ₁	±0.003 L ₁	S	Tol. On S	Max R ₁	Max 350 Bar F	Claron	h9 Ød ₁	±0.075 L ₁	S	Tol. On S	Max R ₁	Max 350 Bar F
CS 10025	0.250	0.094	0.080	+0.002 -0	0.010	0.008	CS 3007	7	3.60	3.00	+0.075 -0	0.50	0.20
CS 10031	0.312						CS 3008	8					
CS 10037	0.375	CS 3009	9										
CS 10043	0.437	CS 3010	10										
CS 10050	0.500	0.141	0.111	+0.003 -0	0.020	0.008	CS 3011	11					
CS 10056	0.562						CS 3012	12					
CS 10062	0.625						CS 3013	13					
CS 10068	0.687						CS 3014	14					
CS 10075	0.750						CS 3015	15					
CS 10081	0.812						CS 3016	16					
CS 10087	0.875						CS 3017	17					
CS 10093	0.937	0.188	0.152	+0.004 -0	0.030	0.008	CS 3018	18					
CS 10100	1.000						CS 3020	20					
CS 10106	1.062						CS 3022	22					
CS 10112	1.125						CS 3023	23					
CS 10118	1.187						CS 3024	24					
CS 10125	1.250						CS 3025	25					
CS 10131	1.312						CS 3026	26					
CS 10137	1.375						CS 3027	27					
CS 10143	1.437						CS 3028	28					
CS 10150/1	1.500						CS 3029	29					
CS 10156	1.562	CS 3030	30										
CS 10168	1.687	CS 3031	31										
CS 10150	1.500	0.281	0.244	+0.004 -0	0.040	0.012	CS 3032	32					
CS 10162	1.625						CS 3033	33					
CS 10175	1.750						CS 3034	34					
CS 10187	1.875						CS 3035	35					
CS 10200	2.000						CS 3036	36					
CS 10212	2.125						CS 3037	37					
CS 10225	2.250						CS 3038	38					
CS 10237	2.375						CS 3039	39					
CS 10250	2.500						CS 3040	40					
CS 10262	2.625						CS 3041	41					
CS 10275	2.750						CS 3042	42					
CS 10287	2.875						CS 3043	43					
CS 10300	3.000						CS 3044	44					
CS 10312	3.125	CS 3045	45										
CS 10325	3.250	CS 3050	50										
CS 10337	3.375	CS 3053	53										
CS 10350	3.500	CS 3055	55										
CS 10362	3.625	CS 3056	56										
CS 10375	3.750	CS 3060	60										
CS 10387	3.875	CS 3063	63										
CS 10400	4.000	CS 3065	65										
CS 10412	4.125	CS 3070	70										
CS 10425	4.250	CS 3075	75										
CS 10437	4.375	CS 3080	80										
CS 10450	4.500	CS 3085	85										
CS 10462	4.625	CS 3090	90										
CS 10475	4.750	CS 3095	95										
CS 10487	4.875	CS 3100	100										
CS 10500	5.000	CS 3105	105										
CS 10512	5.125	CS 3110	110										
CS 10525	5.250	0.375	0.328	+0.005 -0	0.040	0.016	CS 3120	120					
CS 10537	5.375						CS 3125	125					
CS 10550	5.500						CS 3130	130					
CS 10562	5.625						CS 3135	135					
CS 10575	5.750						CS 3140	140					
CS 10587	5.875						CS 3145	145					
CS 10600	6.000						CS 3150	150					
CS 10800	8.000						CS 3155	155					
							CS 3160	160					
							CS 3055	55					
		CS 3056	56										
		CS 3060	60										
		CS 3063	63										
		CS 3065	65										
		CS 3070	70										
		CS 3075	75										
		CS 3080	80										
		CS 3085	85										
		CS 3090	90										
		CS 3095	95										
		CS 3100	100										
		CS 3105	105										
		CS 3110	110										
		CS 3120	120										
		CS 3125	125										
		CS 3130	130										
		CS 3135	135										
		CS 3140	140										
		CS 3145	145										
		CS 3150	150										
		CS 3155	155										
		CS 3160	160										