

Design Considerations when specifying Supershield Gasket Sections

Round and 'D' section seals should, ideally, be mounted in a suitably dimensioned channel.

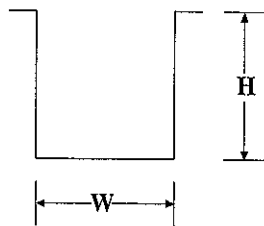
Do not allow a gasket section to overflow its channel. When designing a channel for solid sections, ensure that its cross-sectional area is approximately 5% greater than that of the gasket section to be used.

Consider the force per unit length required to compress a gasket section to its working height. The required closure force can be sufficient to cause an insubstantial housing or cover to distort, resulting in loss of seal. This effect may be minimised by ensuring that the pitch between fasteners is not too great i.e. that the cover or housing does not bow to such an extent that less than the recommended compression is applied to the gasket section at any point. In addition to this, it is sometimes possible to substitute a hollow extrusion for a solid gasket.





Recommended Channel Sizes

Round Section - Solid

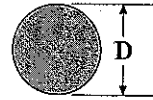
Ø mm	H (min)	H (max)	W mm
1.6	1.45	1.2	1.75
1.8	1.65	1.35	1.98
2.4	2.21	1.80	2.64
3.2	2.94	2.14	3.52
4.8	4.42	3.60	5.28



The table above indicates channel dimensions for a number of typical Supershield solid round sections. The Supershield section will provide an effective EMI seal at lower compressions, however, it will become less efficient as a pressure seal.

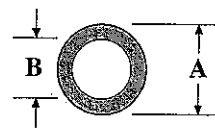
			 
Recommended Compression Range	8 - 25%	7 - 22%	20 - 100% of void height

Round Solid (Prefix 1)



Diameter	Part Number
mm	
1.35	1-0014
1.57	1-0016
1.78	1-0018
2.03	1-0020
2.36	1-0024
2.62	1-0026
2.84	1-0028
3.02	1-0030
3.18	1-0032
3.30	1-0033
3.53	1-0035
3.81	1-0038
4.06	1-0040
5.49	1-0055
6.35	1-0064

Round Hollow (Prefix 3)



A	B	Part Number
mm	mm	
3.18	1.14	3-0032-0011
3.96	1.27	3-0040-0013
6.75	3.18	3-0064-0032
7.92	4.88	3-0079-0049
9.53	6.35	3-0095-0064
11.10	6.35	3-0111-0064