SPIROL

PRECISION ALUMINIUM COMPRESSION LIMITERS

SPIROL® Series CL6000 and CL6100 Compression Limiters for bolted joint integrity.

A Compression Limiter is used to preserve a threaded joint's integrity. As a bolt is tightened to achieve the required friction between threads, the plastic is compressed.

Without a Compression Limiter, plastic will either crack or creep, resulting in the loosening and eventual failure of the joint.

The Compression Limiter absorbs the load when the bolt is tightened to its recommended value. The plastic is isolated from excessive compressive loads and plastic integrity is maintained – ensuring that the joint remains intact throughout the life of the product.

Series CL6000 Precision Machined - Aluminium: The Series CL6000 is machined from 2024 aluminium as this grade provides the best combination of strength, corrosion resistance, machinability and cost. Additional advantages of aluminium are that it is lightweight (1/3 the weight of brass), it is 40% stronger than brass, and it is lead free. These Limiters can be moulded in or pressed into the assembly. The precision machined ID tolerance allows proper seating on the core pin when moulding into the assembly. When pressed into the assembly, they are designed with a pilot that allows the part to stand freely in the hole prior to completing the installation. Once installed, the knurl provides retention within the hole. The CL6000 is rated for use up to ISO Class 10.9/Grade 8 bolts.

Series CL6100 Precision Machined - Headed Aluminium: The CL6100 headed aluminium Compression Limiter is the same as the CL6000, with the addition of a head. The head provides extra bearing surface on the mating component when a flanged bolt or a washer is not used.



The CL6000 supersedes the CL600 and the CL6100 supersedes the CL601 Compression Limiters



Knurled CL6000



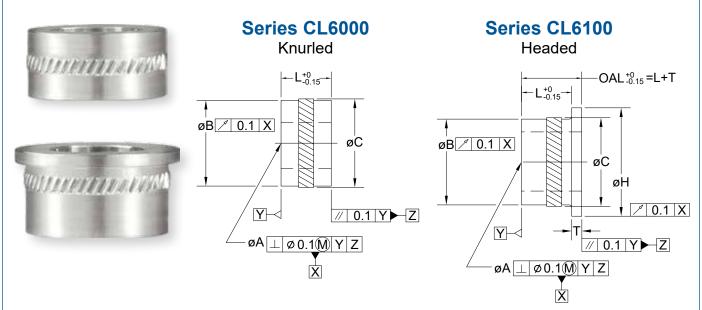
Headed CL6100





SERIES CL6000 & CL6100 FEATURES & BENEFITS

- Symmetrical CL6000 no orientation required for installation.
- Headed CL6100 provides extra bearing surface; eliminates washer.
- Square ends to ensure 100% contact with mating surface.
- Knurl provides excellent retention.
- Pilot stands freely in the hole prior to complete installation.
- Aluminium strong, lightweight and lead free.



MATERIAL FINISH A Aluminium K Plain

DIMENSIONAL DATA

NOMINA	AL BOLT SIZE >	М3	M4	M5	М6	M8	M10
Inner Diameter ØA		4.05/4.15	5.05/5.15	6.05/6.15	7.05/7.15	9.05/9.15	11.05/11.15
Body Diameter ØB		5.42/5.58	6.95/7.11	8.47/8.63	10.00/10.16	13.36/13.52	16.72/16.88
Knurl Diameter ØC Nom.		5.83	7.38	8.88	10.43	13.78	17.13
Head Diameter ØH		7.35/7.60	8.95/9.20	10.55/10.80	12.15/12.40	15.35/15.60	18.95/19.20
Head Thickness "T" Ref.		1.00	1.00	1.00	1.25	1.25	1.25
Recommended Ø Hole Size		5.61/5.69	7.14/7.22	8.64/8.72	10.19/10.27	13.54/13.62	16.89/16.97
LENGTH	3						
	4						
	5						
	6						
	8						

- CL6000 / CL6100 rated for use up to ISO Class 10.9 bolts.
- The knurl will always be larger than the maximum hole.
- Additional diameters and special lengths available upon request.
- · Available in inch sizes made to order.

To Order: CMPL, Nominal Bolt Size x Length, Material, Finish, Series

Example: CMPL 6 X 8 AK CL6100 e-mail: info-uk@spirol.com