

Avdel® Monobolt® 316 Grade / A4 Stainless Steel

Structural Multi-Grip Fastener for Marine & Hostile Environments

For many years Avdel® Monobolt® has delivered excellent performance in applications that require structural strength and vibration resistance in a multi-grip blind breakstem fastener. This successful range has now been extended through the addition of a 316 Grade / A4 stainless steel Monobolt® suitable for applications in marine and hostile environments where 304 Grade / A2 stainless steel Monobolt® may not be the most suitable solution.

Monobolt® in 316 / A4 is available in $\varnothing 6.4$ mm ($\frac{1}{4}$ ") for a grip range of 2.03 - 15.87 mm (.080 - .625") - other diameters and lengths on request (refer page 2 for technical data).



Why 316 Grade / A4 Stainless Steel?

316 Grade has a higher nickel content than other alloys and contains molybdenum. The molybdenum allows the material to deliver enhanced corrosion resistance particularly to pitting and crevice corrosion. Additionally this alloy lends itself to both forming and welding without excessive cracking. For this reason, it is particularly good for assemblies in marine and hostile environments.

Avdel® Monobolt® Features and Benefits

- **Exceptional shear strength and clamp load**

Designed to deliver the high strength performance required in structural applications, it is the strongest breakstem fastener in its class.



Monobolt® fasteners form an external visible lock when placed

- **Stem mechanically locked into body**

A mechanically locked stem provides high strength, vibration resistant joints in demanding applications without the risk rattling or loose stems. The external visible lock also permits easy visual inspection to ensure correct installation.

- **Excellent hole fill**

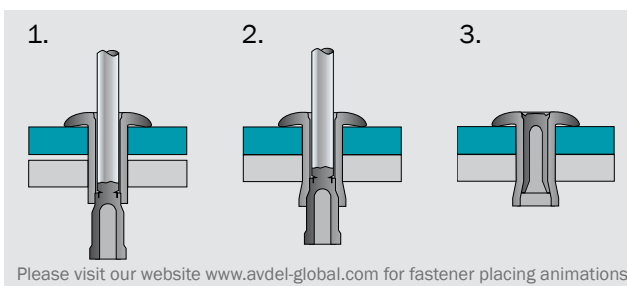
The radially expanded body is capable of filling irregular, oversized, slotted or misaligned holes, whilst providing strong, vibration resistant joints. It can also help control sheet movement in non-standard holes.

- **Wide grip range**

By accommodating wide variations in material thickness, Monobolt® fasteners can be used in a variety of applications to reduce assembly time, inventory levels and costs.



Typical Placing Sequence



Installation Tool

Avdel® Genesis® nG3
Complete tool for $\varnothing 6.4$ mm
Part-No. 71224-00201



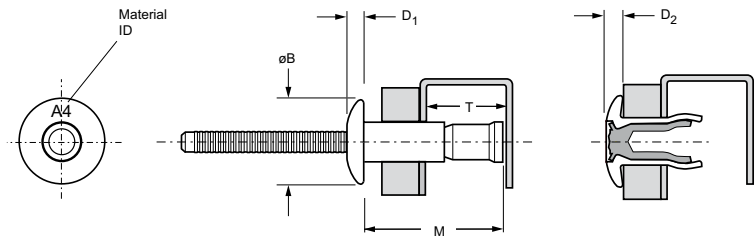
Avdel® Monobolt® 316 Grade / A4 Stainless Steel





Structural Multi-Grip Fastener for Marine & Hostile Environments

Technical Data

Headform:
Protruding head

Material:
316 Grade/A4 stainless steel,
natural finish



| ø nom. |  | |  | | M | ø B | D ₁ | T | D ₂ |  |  | Part No/ref |
|------------------------------|---|-----------------|---|---------------|-----------------|----------------|----------------|----------------|----------------|---|---|---------------------------|
| | min. | max. | min. | max. | max. | max. | max. | min. | max. | Shear (typical) | Tension (typical) | |
| 4.8 ¹⁾ (3/16") | 1.63 (.064) | 6.86 (.270) | 4.9 (.193) | 5.1 (.201) | 18.2 (.716) | 10.1 (.395) | 2.1 (.083) | 10.5 (.410) | 1.9 (.073) | n. a. | n. a. | 02717-00613 ¹⁾ |
| | 1.63 (.064) | 11.10 (.437) | | | 24.5 (.962) | | | 13.5 (.530) | | | | 02717-00617 ¹⁾ |
| 6.4 (1/4") | 2.03 (.080) | 9.53 (.375) | 6.6 (.260) | 7.0 (.276) | 23.7 (.933) | 13.4 (.525) | 2.9 (.114) | 12.2 (.480) | 2.7 (.104) | 13.2 kN 2968 lbf | 8.9 kN 2003 lbf | 02717-00817 ¹⁾ |
| | 2.03 (.080) | 15.87 (.625) | | | 33.0 (1.296) | | | 16.4 (.645) | | | | 02717-00824 |

Dimensions in mm and (inches)

¹⁾ advanced information only

Assembly Applications

- Marine applications
- Boat fittings
- Hangars
- Food industry
- Solar plants
- Mining / Drilling
- Off-shore equipment
- Laboratory equipment
- Cable cars
- Medical equipment



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Your local Avdel representative is at your disposal should you need to confirm latest information.