



Infalok[®]

Large Diameter

Lockbolt



Infalok[®]

Infalok[®] lockbolt is a heavy duty, two piece fastener designed to provide a high strength and secure assembly. The Infalok[®] lockbolt is quick and simple to place, yet it provides a long lasting, vibration proof joint. Infalok[®] lockbolt is the ideal solution where welding, threaded fasteners or solid rivets are not suitable or practical to use.

With a tensile strength of over 70,000 lbf, the Infalok[®] lockbolt is widely used in demanding industries for new construction or for repair. Engineered applications throughout the world include railways, mining, solar power plants, lattice towers, bridges and cranes.

Designed and manufactured to the highest standards, Infalok[®] fasteners ensure a consistently accurate and high strength assembly. Installing the Infalok[®] lockbolt in seconds, Avdel's "AV" placing tool systems eliminate installation errors



Infalok[®] lockbolts consist of a bolt and a collar

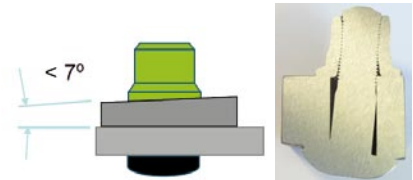
and performance variability in joints, that is often experienced with conventional threaded fastening methods. These placing tool systems are designed for use in demanding environments, backed up by a long and reliable track record.

Fast and easy visual inspection is sufficient to prove correct installation of the fastener and tampering is immediately obvious.

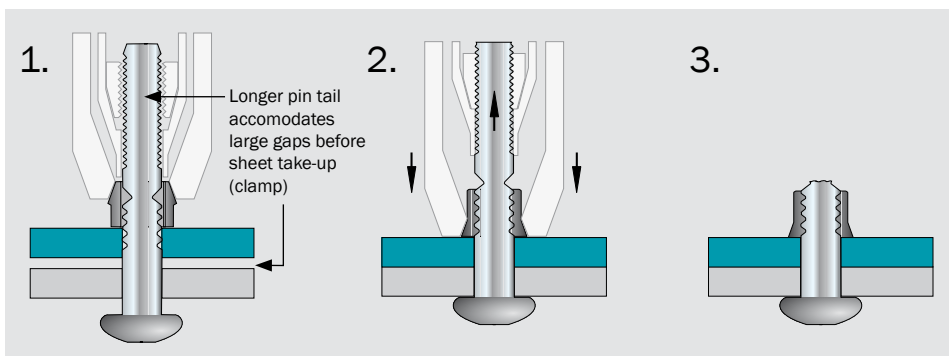


Key features and benefits

- Exceptional shear and tensile strength provides consistent, high performance required in load-bearing, structural applications
- Excellent vibration resistance
- Quick and easy to install across a wide range of applications
- Tamper resistant
- Tolerates variation in joint - allows angled installation up to 7°
- Robust tools designed for extreme conditions
- Ease of use - requires only minimum skill
- Simple installation tooling eliminates the cost of calibration and reduces maintenance
- Consistent installation prevents rework and associated costs
- Visual joint control



Typical placing sequence



Please visit our website www.avdel-global.com for fastener placing animations.

1. The Infalok[®] pin is located in the hole and the collar placed over the stem. The tool is then located onto the stem.

2. Tool activation pulls the materials together and swages the collar into the grooves of the pin.

3. At a pre-determined load, the stem breaks and the joint is secure.

Security

Infalok[®] fasteners are designed to create a permanent fixing. This provides security benefits and enables the fastener to be TIR approved.

Large Diameter Lockbolt for Heavy Engineering Applications

Range

Sizes and Grip ranges

∅	No. diff. lengths	Grip range
1/2" (12.7 mm)	20	.250 - 5.250"
5/8" (15.9 mm)	19	.250 - 5.000"
3/4" (19.1 mm)	19	.250 - 5.000"
7/8" (22.2 mm)	17	.500 - 4.750"
1" (25.4 mm)	22	.500 - 6.000"
1-1/8" (28.6mm)	22	.500 - 6.000"

Materials Pin: carbon steel
Collar: low carbon steel, zinc plated

Headform/Finish 2851 series: Round / black self-colour
2852 series: Round / 10µm zinc plated
2853 series: Round / 15µm zinc plated
2854 series: Large truss / 15µm zinc plated
2852/53/54: clear trivalent passivated

Collar options Full, flanged



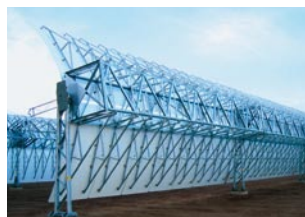
Performance Data

∅ nom. inch (mm)	 lbf min.	 lbf min.	 lbf min.
1/2" (12.7)	14,400	17,050	12,050
5/8" (15.9)	22,500	27,100	19,200
3/4" (19.1)	32,400	40,100	28,400
7/8" (22.2)	43,400	55,450	39,250
1" (25.4)	56,500	72,700	51,500
1-1/8" (28.6)	69,500	82,950	58,450

Installed Infalok® fasteners provide a minimum shear, tensile and pre-load strength, which is equivalent to or exceeds ISO898-1 property class 8.8 or ASTM A-325 standards. Made to British Standard B7805: Part 2:1997, the Infalok® fastener can be the perfect alternative to conventional property class 8.8 threaded fasteners, providing a permanent, high tensile friction grip joint but without the risk of loosening.

Assembly applications

- Commercial vehicles
- Steel construction
- Bridge building/repair
- Renewable energy
- Railway/rail track
- Mining equipment



Installation Tools

All Infalok® lockbolts can be placed securely in seconds with the 734 series of AV™ installation tools, as well as Avdel's Avbolt® blind structural fasteners, Avdelok® lockbolts and Avseal® II sealing plugs.

Placing Tools

Different AV™ hand tools suit the fastener size ranges and there is one nose equipment for each fastener size.

- Robust and highly durable installation tools
- High performance hydraulic seal & wiper technology
- Piston bearing rings
- Ergonomic and compact design for optimised operator comfort
- High-speed operation
- Low maintenance
- Manoeuvrable in limited access applications



Pump Units

- Extended working life in harsh industrial environments
- High-performance custom Enerpac® pump unit with high-efficiency 2-stage pump design requires 18% less current draw than comparable pumps
- Powerful universal industrial electric motors – fully enclosed and fan cooled
- Set pressure feature turns off motor at user defined pressure
- Reservoir heat exchanger provides cooler operation, stabilizes oil viscosity, increasing oil life and reducing wear on pump and tool components
- Full sight oil level glass
- Durable steel reservoirs
- Choice of hand tools and nose equipment to suit the entire range of large diameter Infalok® lockbolts as well as other lockbolt brands
- Available in voltages from 115V to 480V



For detailed information on installation tools and equipment please refer to the 734 AV™ Series flyer, the tool manuals on our website www.avdel-global.com or contact your local Avdel representative.



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