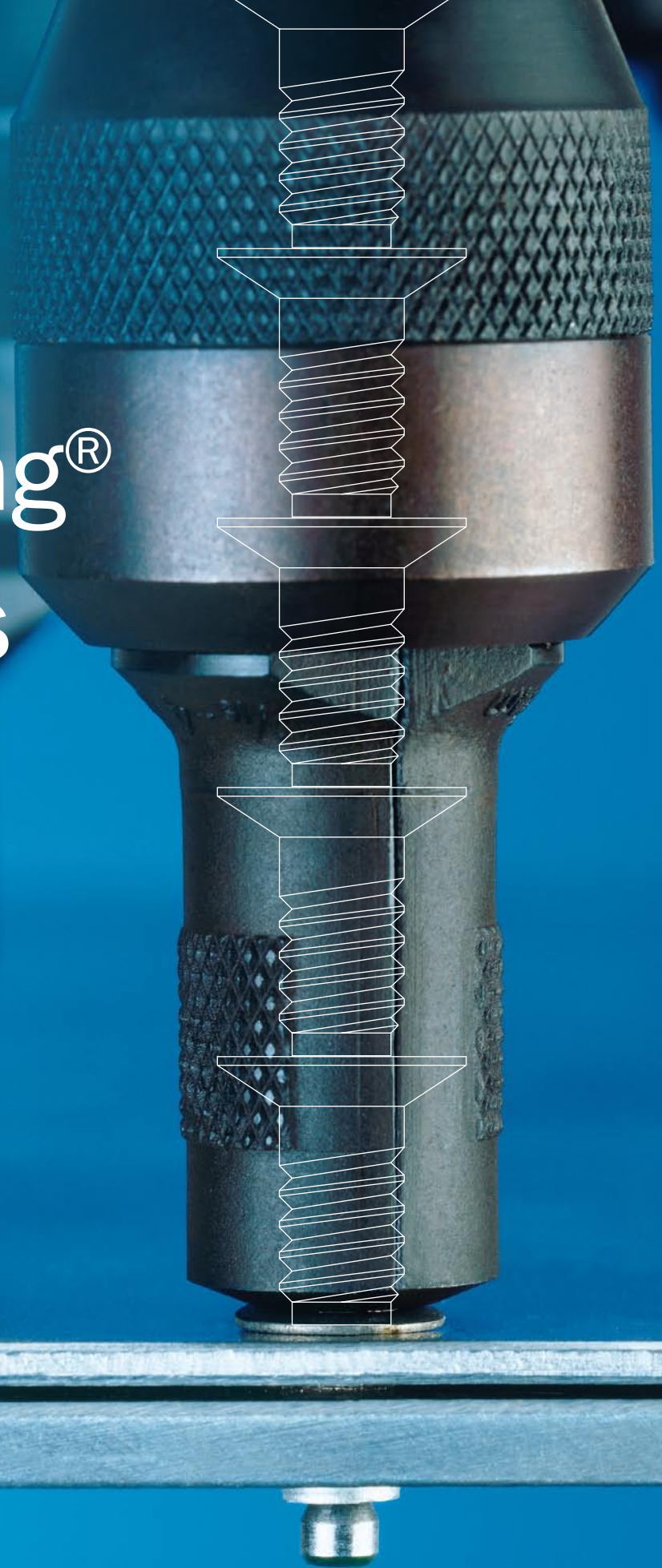
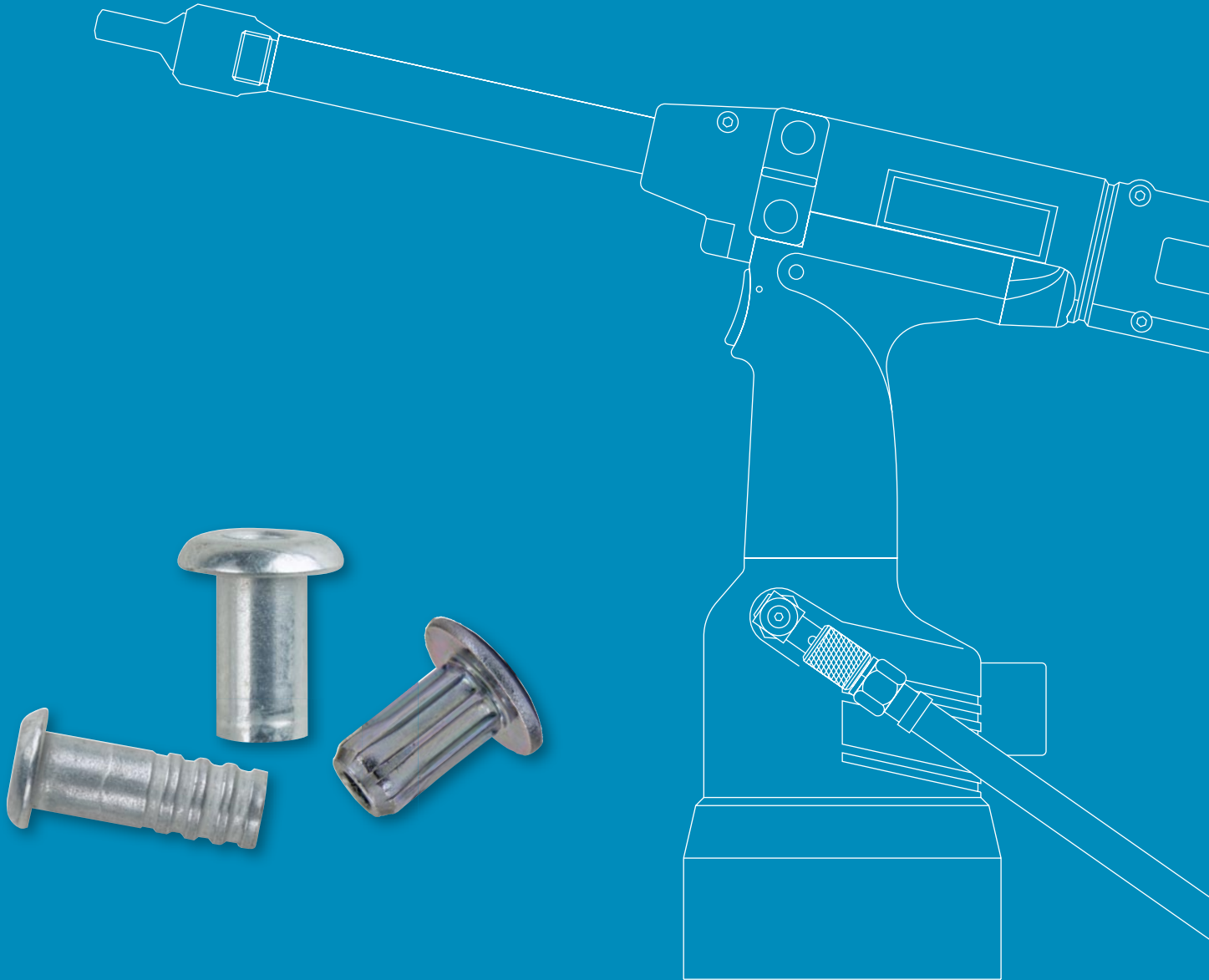




Speed Fastening[®] Systems





Reduce Assembly Costs

For fast and reliable assembly processes Avdel Speed Fastening® technology offers the most effective blind fastening solution.

High precision, system-compatible function, ease of operation and quick processes are guaranteed because you can fasten continuously from magazine or bowl fed fasteners and thus place up to 60 fasteners per minute.

Avdel Speed Fastening® Systems can be used to assemble metal and plastics, composite material and electronic components. With an average cycle time of less than two seconds these systems provide a fast installation from one side (blind).

Avdel Speed Fastening® Systems provide the possibility to significantly cut your assembly cost: short cycle times increase the productivity, and the intrinsic reliability of the process reduces rework and other quality costs. Avdel Speed Fastening® Systems are suited for use in small, medium and large batch processes as well as continuous production lines.

For smaller batches Avdel offers a choice of powertools and simple assembly workstations. For larger batches, multihead systems offer a cost effective solution. For continuous flow lines Avdel has the technology to develop fully automated assembly systems. In every case we not only see ourselves as a provider of fasteners, tools and machines but as a development and system partner with the objective of helping our customers improve their assembly performance.

Together with our customers we develop blind fastening systems that simplify your production process and improve the quality of your products.

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Avdel[®] Speed Fastening[®] Systems

Avdel speed fastening is a unique assembly system designed for rapid and reliable fastening in medium and high volume applications.

Originally designed for the aviation industry, Avdel Speed Fastening[®] Systems are now used by many of the world's foremost manufacturing companies in sectors as diverse as household goods, lighting, electronic subassemblies, light metal fabrication and automotive. Avdel speed fasteners are available in a wide range of materials, finishes, lengths and diameters and are ideal for fastening metals, plastics, composites and electronic components.

Speed fasteners are single piece fasteners which are either magazine fed or fed via a vibrating bowl to a wide choice of installation equipment. This ranges from the ultra-lightweight 753 handtool to fully automated, state of the art assembly systems.

Benefits of assembly

Increased manufacturing throughput

An Avdel Speed Fastening[®] System can be fully optimised to give cycle times of less than two seconds. This rapid, blind sided process delivers a throughput up to four times greater than a traditional threaded or riveted solution.

Reduced component handling

The fasteners are fed via a magazine or into a bowl feeder. This eliminates the need for individual component handling, saves time and reduces the potential for operator injury.

No component spillage

Because the fasteners are held captively they should not be dropped onto the floor or into the application. This avoids wasted time and improves product quality while improving the working environment.

No stem loss

Traditional breakstem fasteners all too often suffer from stem loss once installed. This can lead to application rattle, electrical short circuits or worse. Speed fasteners have no stems.

Improved joint quality

Speed installation technology provides a consistent, repeatable joint. What's more, unlike threaded fasteners, there is no requirement for torque control – no more problems of stripped holes or loose joints.

Improved joint performance

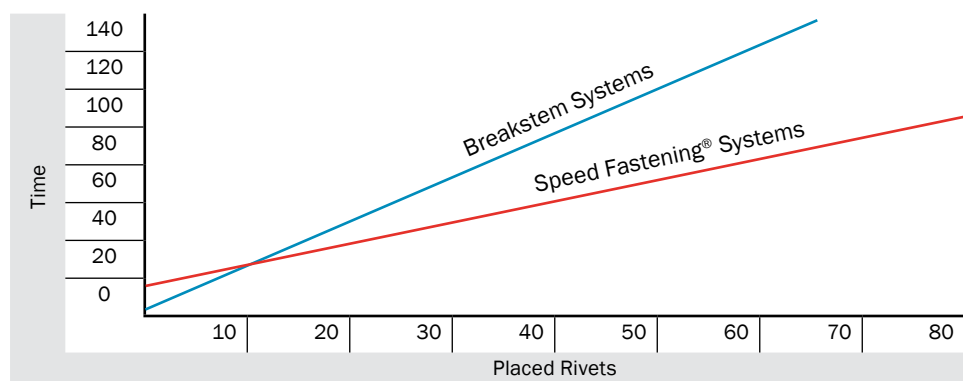
Once installed speed fasteners give excellent clamp up, shear and tension performance. They are also virtually immune from vibration loosening.

Process flexibility










Avdel Speed Fastening[®] Systems can be used for low volume, off-line batch or jobbing shop work through to flow line processes. From hand held tools to multiheaded modular workstations, we can design a Speed Fastening[®] System to suit your assembly requirements. A wide variety of products in many industries are assembled with these systems including automotive, electronics, domestic appliance and general industrial.

Time Analysis

Avdel[®] Speed Fastening[®] is the more efficient system after only 10 placed rivets.



Range Overview

Brand	Material	Key features
NeoSpeed® 	Aluminium Alloy Steel	Wide grip range High joint clamp Hole filling Very high strength
Briv® 	Aluminium Alloy Steel Stainless Steel Brass	Bulbed tail form Large headform High joint clamp Good joint gap closure
Rivscrew® 	Steel	Threaded fastener Removable with hex key and reusable Fastens into materials up to Vickers hardness 105 Hv5
Chobert® 	Aluminium Alloy Steel Brass	Internal tapered bore Controlled clamp High shear Ideal for soft and brittle materials
Double Flush Chobert® 	Steel	Flush surface on both sides of the joint Reduces excess space requirements within the chassis
Grovit® 	Aluminium Alloy Steel	Designed for blind hole applications Annular grooves on body For use in wood, plastics, fibreglass and aluminium
Avtronic® 	Brass Aluminium Alloy	Attaches DIN 41612 connectors and other components to PCBs Annular grooves on body
Avsert® 	Brass	Threaded stand-off pillars for PCBs Internally threaded bore Many stand-off heights
Avlug® 	Brass	Solderable terminal posts for PCBs Rolled/knurled shank

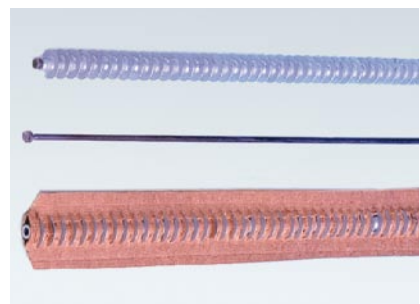
Assembly with standard tool



Fasteners fed via a vibrating bowl



Magazine fed fasteners



Specifying a Speed Fastening® System

To optimise the performance of your Avdel Speed Fastening® System it is important to select the correct combination of fastener, nose equipment, mandrel and follower spring. It is also critical to ensure that the combination selected is suited for use with your choice of installation process. If you need any help in specifying the required components then do not hesitate to contact your local Avdel representative. Further information on corrosion, safety and RoHS can be found on our website www.avdel-global.com.

Fastener Selection

Standard Fasteners

Removability

Rivscrew® fasteners are ideal for applications requiring disassembly for repair or rework. They can simply be unscrewed using a standard hexagonal allen key.

Clamp

Briv® fasteners should be specified in applications requiring high clamp loads. NeoSpeed® fasteners combine high clamp throughout a wide grip range. Chobert® fasteners provide a lighter, controlled clamp making them ideal for softer or low strength materials.

Head Type

Fasteners are available with dome head. Briv® and Chobert® are also available with countersunk headform. Other head diameters may also be available as specials – please contact your local Avdel representative.

Specialist Fasteners

Avtronic®

Designed for attaching DIN and other connectors, card ejectors and heatsinks to printed circuit boards.

Avsert®

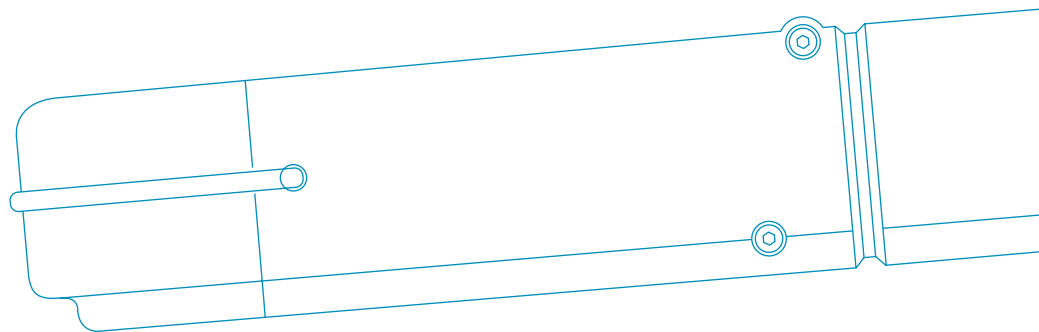
Cost effective stand-off pillars for printed circuit boards.

Avlug®

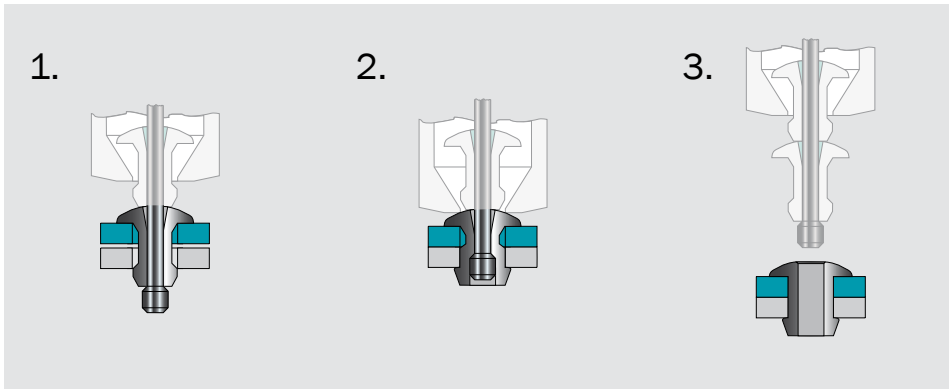
Cost effective terminal posts for printed circuit boards.

Fastener Material & Surface Finish

Avdel speed fasteners are available in stainless steel, steel, aluminium and brass. The choice of material should be made on the basis of performance (shear and tensile strength), suitability for use with the parent material and corrosion resistance. For performance data please see the relevant technical data sheets.



Typical placing sequence



1. The mandrel with pre-loaded fastener is located in the hole.

2. Tool activation pulls the mandrel through the fastener, expanding it within the hole to provide high clamp and secure joints.

3. At the end of the installation cycle, the next fastener is automatically delivered to the nose of the tool, ready to repeat the assembly process.

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

The surface finishes for Avdel® speed fasteners are as follows:

Steel

Zinc plate and clear passivation
Option:
Enamel paint
Zinc nickel
Organic coatings

Aluminium Alloy

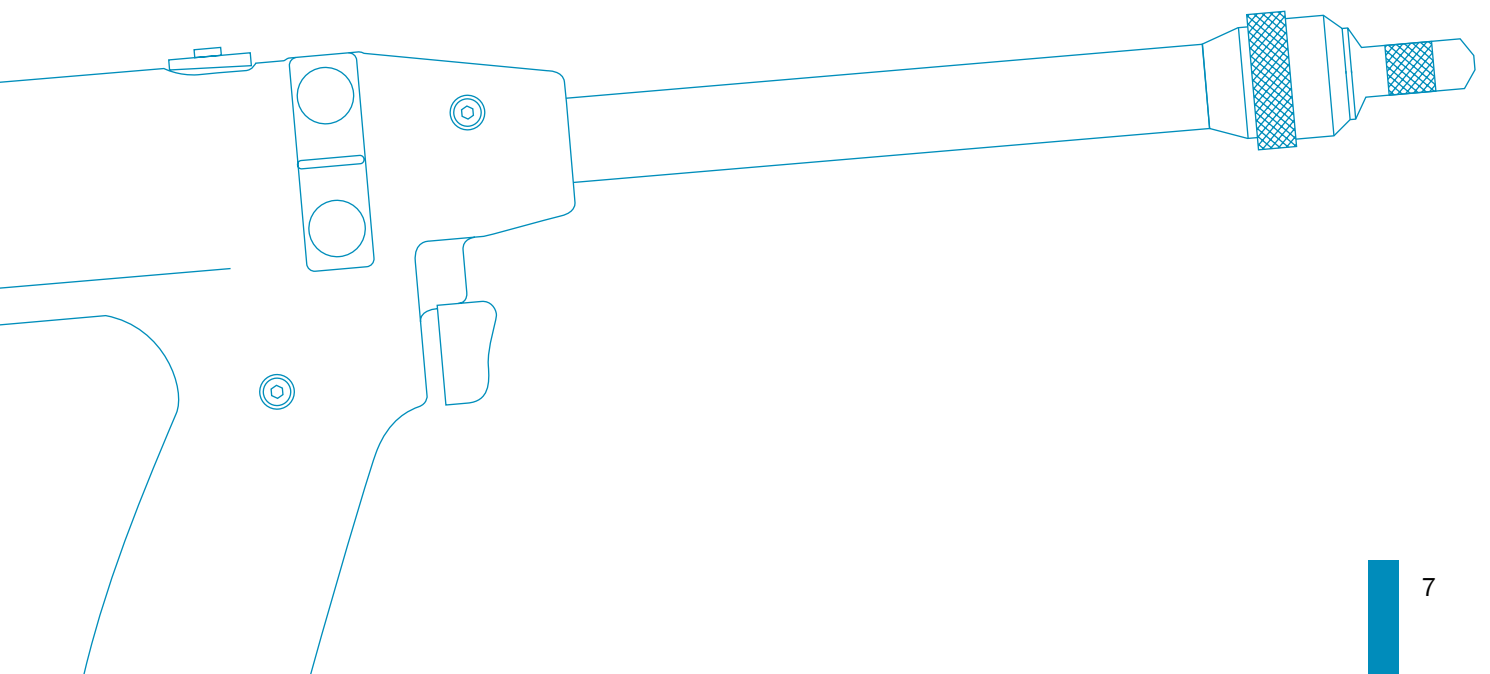
Natural
Option:
Anodising
Enamel paint

Stainless Steel

Polished

Brass

Brightened or hot tin dipped
(for solderability)



Selection Guide

This table is designed as a guide to help you select the most suitable Avdel® speed fastener for your particular application. Full technical and performance data for each speed fastener can be found on our website or contact your local Avdel representative.

Product Range	Material	Finish	Headform	Fastener Size (nom)	Thread Size	Page No.	Series No.	Description	Data Sheet
Neo-Speed®	Aluminium 2.5 % Mg						57101	9	25
	Aluminium 3.5 % Mg						57121	9	26
Briv®	Aluminium 5 % Mg						1801	10	28
	Steel						1802	10	30
	Stainless Steel						1804	10	28
	Brass						1821	10	31
	Natural						1822	10	33
	Zinc plated						1833	10	34
	Polished/bright						1841	10	36
Chobert®	Electro tin plated						1121	11	37
	Tin plated						1122	11	39
	Nickel plated						1124	11	40
	Anodysed red						1125	11	42
	Dome						1131	11	42
	Low profile						1132	11	40
	Countersunk						1135	11	42
	1/16" (1.6 mm)						1136	11	40
	3/32" (2.4 mm)						1141	11	44
	2.5 mm						1142	11	46
	2.8 mm						1143	11	44
	3.0 mm						1144	11	46
	1/8" (3.2 mm)						1147	11	44
	3.5 mm						1148	11	46
5/32" (4.0 mm)						1162	11	48	
Double Flush Chobert®	4.5 mm						1110	12	49
	3/16" (4.8 mm)								
Grovit®	6.0 mm						1101	13	50
	1/4" (6.4 mm)						1103	13	51
Rivscrew® PL	M2.5						1722	14	56
	M3						1733	14	58
							1742	15	59
Avtronic®							1188	16	62
							1189	16	63
Avsert®							1117	17	66
							1118	17	67
Avlug®						1107	18	69	

NeoSpeed[®] Wide Grip Range

Speed fasteners with an unique splined rivet design combining high clamp throughout a wide grip range - simply the strongest, most versatile speed riveting system in the world.



Key features and benefits

- The NeoSpeed[®] fastening process delivers a throughput up to four times greater than traditional threaded or breakstem fasteners
- Multi-grip capability accommodates wide variations in material thickness
- One rivet can be used to replace several standard grip fasteners
- External splines fill rear sheet and oversize front sheet holes
- 3x greater hole size tolerance than standard breakstem rivets
- Far less sensitive to application variations
- Easier specification due to one-rivet x one mandrel solution
- Typically half the installed weight versus an equivalent breakstem rivet

Specifications

Sizes:

1/8" to 3/16"

(3.2 mm to 4.8 mm)

Materials:

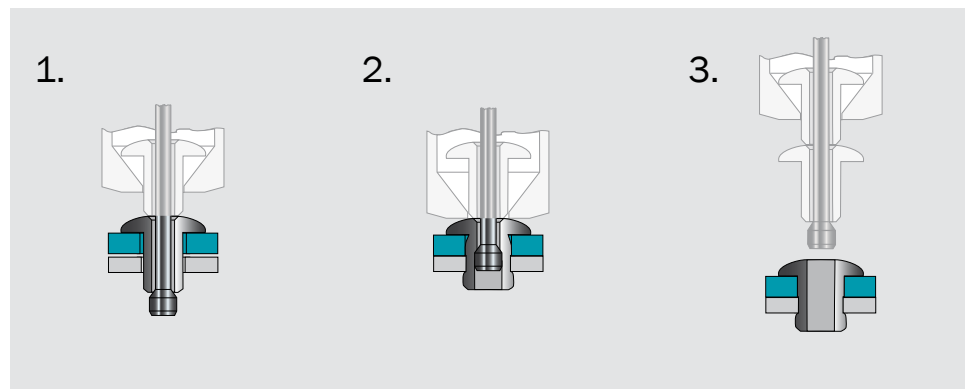
Aluminium alloy, steel

Headform:

Mushroom

Avdel Patent pending.

Typical placing sequence



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

Assembly applications

- Automotive
- Electronics
- Domestic appliances
- Electrical equipment
- General light fabrication

Airbags



Interior



Seat & trim



Heating



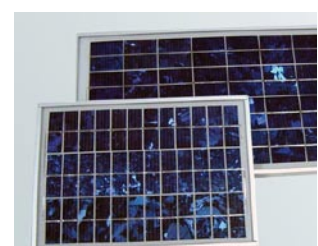
Rapid action door



Computer cabinet



Solar panel



Briv[®] High Shear, High Clamp Fasteners

Speed fasteners with a bulbed tail providing consistent high clamp and shear. Can be used to assemble many materials including metal, plastic and aluminium alloy.



Key features and benefits

- Bulbed tail and foreshortening of the fastener during installation ensures high clamp
- Bulbed tail and large headform provide a large bearing area for soft materials
- Tapered tail for ease of hole entry
- Expands radially during installation to ensure maximum hole fill
- Lower in-place costs than welding or nail rivets
- Bright tin plated brass option for ease of soldering and good electrical conductivity
- Stainless steel option for applications subject to high temperature or corrosion
- Can be bowl fed for larger volume applications using automated equipment

Specifications

Sizes:

3/32" (2.4 mm) to 6 mm

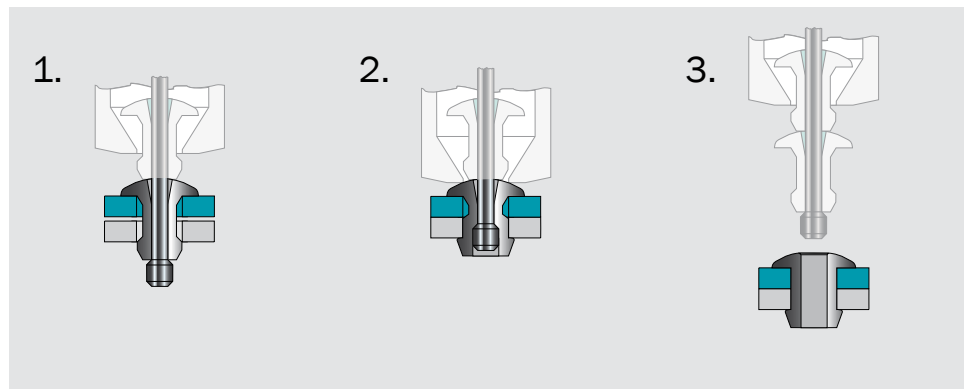
Materials:

Aluminium alloy, steel, stainless steel and brass

Headforms:

Dome, countersunk

Typical placing sequence



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

Assembly applications

- Automotive
- Electronic components
- Sheet metal
- Electrical engineering
- Domestic appliances
- Furniture
- General light fabrication

Vacuum pump for diesel engines



Domestic heating systems



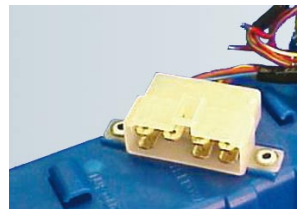
Office furniture



Computer cabinet



Automotive plastic connector to moulded chassis



Automotive stereo speaker



Chobert[®] For Soft and Brittle Materials

Speed fasteners which provide consistent controlled clamp, ideal for soft or brittle materials.



Key features and benefits

- Internally tapered bore ensures consistent light clamp to reduce potential damage to materials
- Expands radially during installation to ensure maximum hole fill
- Lower in-place costs than welding or nail rivets
- Ideal pivot pin or hose tail
- Bright tin plated brass option for ease of soldering and good electrical conductivity
- Can be bowl fed for larger volume applications using automated equipment

Specifications

Sizes:

3/32" to 1/4"
(2.4 mm to 6.4 mm)

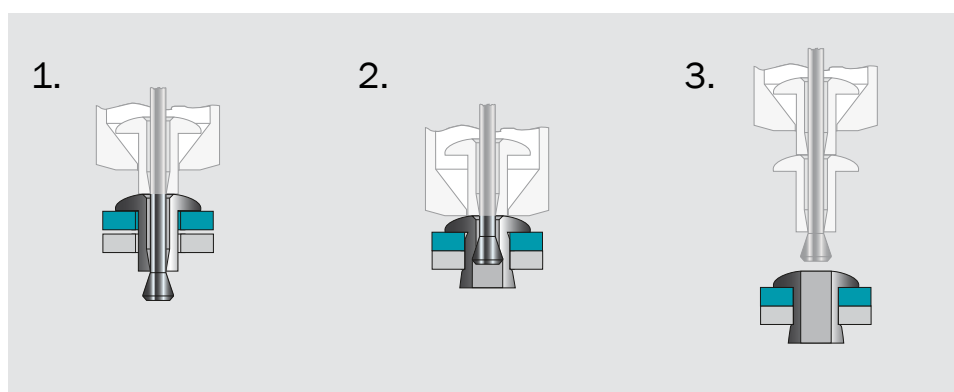
Materials:

Aluminium alloy,
steel and brass

Headforms:

Dome, countersunk

Typical placing sequence



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

Assembly applications

- Automotive
- Electronic components
- Sheet metal
- Electrical engineering
- Injection moulded components
- Switchgear
- Domestic appliances
- General sheet metal
- General light fabrication

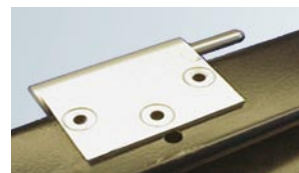
Window hinge



Alloy tube with nylon bush



Computer rack glass door hinge



Housing for car alarm



Composite material latch for wheel cover



Cooler



Double Flush Chobert®

Speed Fastening® rivet with countersunk head for use in exceptionally thin sheet materials. Based on the Avdel Chobert® design, it is an ideal solution for fastening in the electronics industry and other applications where rear protrusion and rivet stem loosening are non preferred.



Key features and benefits

- Flush surface on both sides of the joint*
 - Reduces excess space requirements within the chassis
 - Common hole form can be used throughout the chassis design to reduce complexity
 - Expands radially in the material during installation
 - Can be installed from either direction if accessible
 - Provides superior joint strength when compared to competitive technologies
 - One-piece fastener eliminates potential stem fall out that can cause electrical problems
- * Rear sheet tail protrusion of installed fastener up to 0.5 mm is permissible

Specifications

Sizes:

1/8" (3.2 mm)

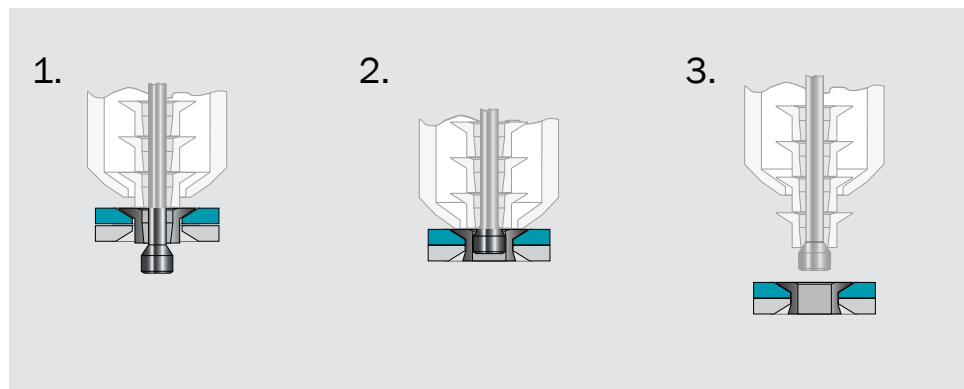
Materials:

Steel

Headforms:

Countersunk

Typical placing sequence



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

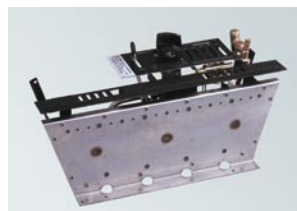
Assembly applications

- Computer chassis
- Electronic devices and components
- Automotive applications
- Domestic appliances
- HVAC
- General thin sheet fabrications where material cost and blindside space is at a premium

Computer chassis



Gas firing



Grovit[®] For Blind Hole Applications

Designed for blind hole applications in wood, plastics, fibre-glass and aluminium. Can also be used in harder substrates.



Key features and benefits

- Annular grooves on the body expand radially during installation
- Provide a vibration resistant joint and increased pull-out resistance

Specifications

Sizes:

3/32" to 5/32"
(2.4 mm to 4.0 mm)

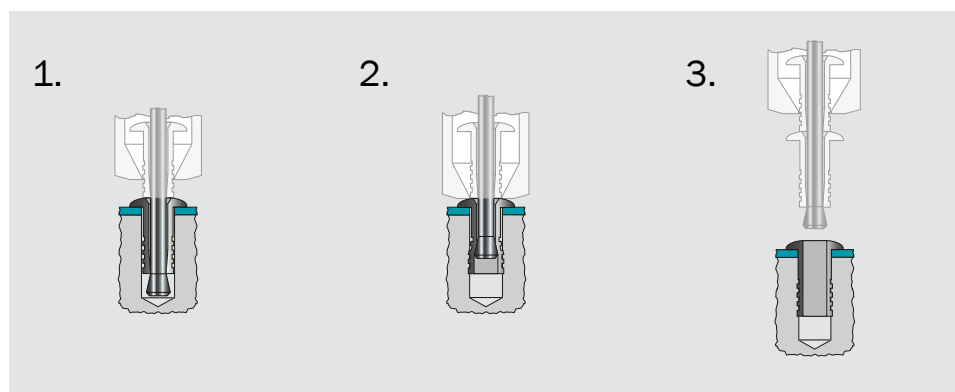
Materials:

Zinc plated steel and
aluminium alloy

Headforms:

Dome

Typical placing sequence

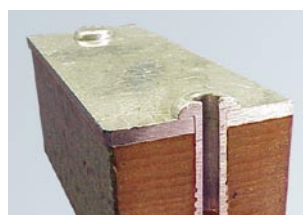


Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

- Automotive
- Domestic appliances
- Electrical equipment
- Injection moulded components

Grovit[®] fastener in timber



Trouser press



Trouser press (detail)



PVC connector block in air conditioning unit



Grovit[®] fastener used as a quick connect low pressure bleed hose



PVC strip connector



Rivscrew[®] Threaded, Removable Fasteners

Threaded, removable speed fasteners that combine the speed of rivet placement with the removability of a screw.



Key features and benefits

- Expands radially during installation to form a thread in host material, eliminating the risk of over torquing and strip-out
- Placed using a hexagon mandrel which expands the threaded diameter radially, adjacent to its six corners
- Removable for servicing with a hex key and reusable
- Providing a higher vibration resistant “thread lock” in the parent material compared to standard screws
- Can be used to fasten most materials up to Vickers hardness 105 Hv5
- Eliminates the need for costly tapping or thread-forming operations
- Bright tin plated steel option for ease of soldering and good electrical conductivity
- Can be bowl fed for larger volume applications using automated equipment

Specifications

Sizes:

2.8 mm to 4.8 mm

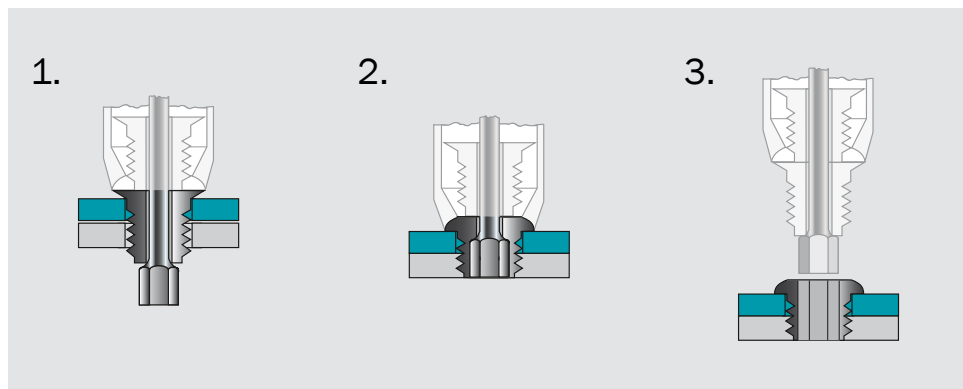
Materials:

Zinc plated steel

Headforms:

Dome

Typical placing sequence



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

Assembly applications

- Aluminium die-cast boxes
- Cast magnesium
- Semi-conductors to thin wall and extruded heatsinks
- Semi-conductors to PCBs
- PCBs to chassis assemblies
- Fastening into injection moulded plastic bosses
- General engineering involving plastics, nylon, polycarbonate etc.

Rivscrew[®] is removable and reusable



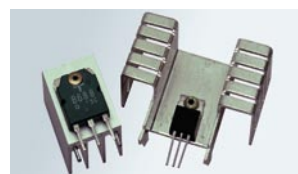
Alternator diode plate to nylon moulding



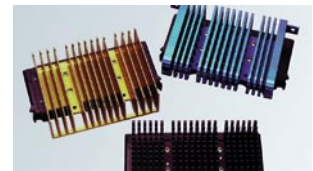
Automotive die-cast chassis with PCB



Semi-conductors to heatsinks and printed circuit boards



Heatsinks to processor cartridges



Seat belt tensioner



Rivscrew[®] PL For Plastics

Threaded, removable speed fasteners that combine the speed of rivet placement with the removability of a screw.



Key features and benefits

Rivscrew[®] PL fasteners have the same features and benefits as the standard Rivscrew[®] fastener plus:

- Especially designed for soft and hard plastics
- Special thread design for a wide range of plastics with a flexural modulus between 340,000 and 1,400,000 p.s.i (2,000 to 10,000 N/mm²)
- Wide grip range from 3.0 to 11.8 mm covered by one fastener

Specifications

Sizes:

3.0 mm to 4.5 mm

Materials:

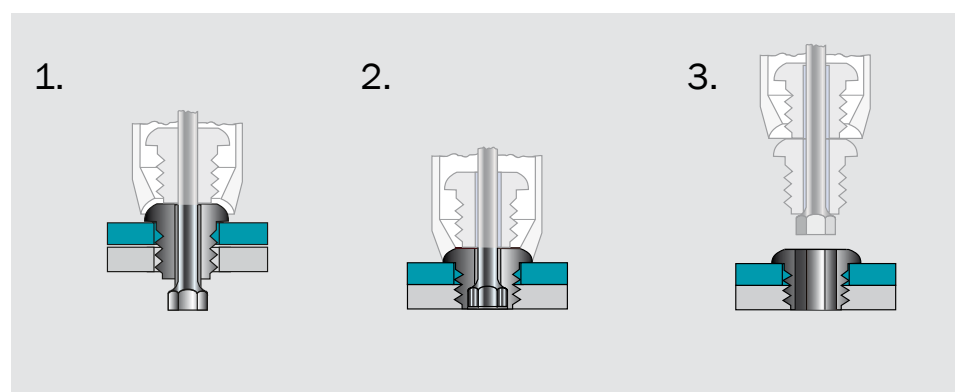
Zinc plated steel

Headforms:

Dome

Avdel Patent Protected

Typical placing sequence



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

Assembly applications

- Bumper covers
- Lighting
- Plastic trim
- Printers
- Domestic appliances
- Toys
- Plastic enclosures



Avtronic® For Attaching Connectors to PCBs

Initially designed to attach DIN 41612 connectors to PCBs but can also be used to attach a wide range of other connectors and components.



Key features and benefits

- Annular grooves on the body expand radially during installation
- Provide a vibration resistant joint, increased pull-out resistance and good residual clamp
- Various body lengths provide a wide grip range to accommodate most combinations of connector and PC board thickness
- Ideal tack rivet
- Can be used in blind hole applications

Specifications

Sizes:

2.5 mm and 2.8 mm

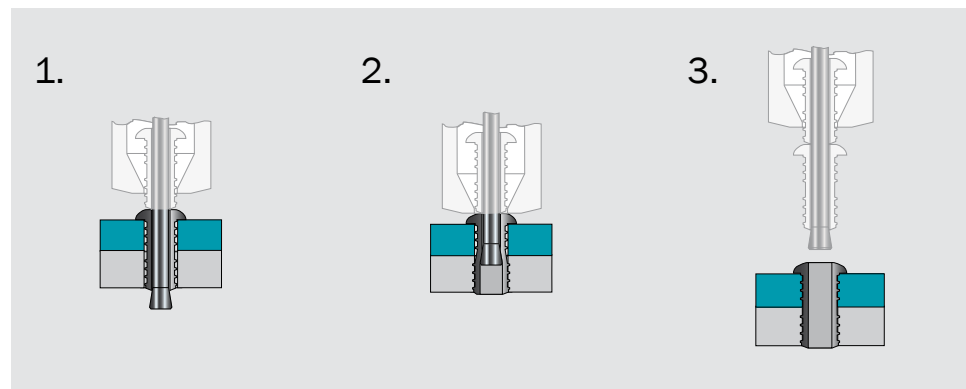
Materials:

Electro tin plated brass and aluminium alloy

Headforms:

Dome

Typical placing sequence

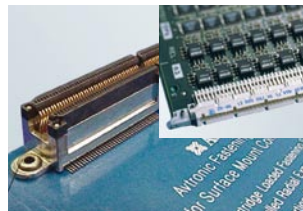


Please visit our website www.avdel-global.com for fastener placing animations.

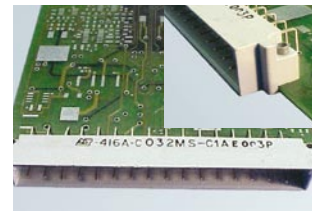
Assembly applications

- DIN and other connectors
- Heatsinks
- Card ejectors
- Brackets and stiffener bars

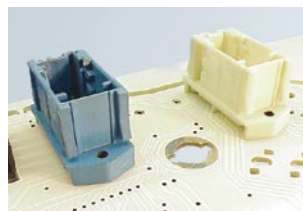
Surface mounted connectors to PCBs



DIN 41612 male edge connector



Automotive vertical mounted connectors



Traffic light reflector and contact point



Avsert[®] Threaded Stand-off Pillars for PCBs

Threaded stand-off pillars for PCBs in a range of metric internal threads and many stand-off heights.



Key features and benefits

- Internally threaded bore takes a threaded part e.g. D-subminiature connectors
- Available in many stand-off heights to accommodate a wide variety of components
- Can be used for board thicknesses of 0.8 – 2.0 mm (short spigot) or 0.8 – 2.4 mm max (long spigot).
- Suitable as a female mating bush for D-subminiature connectors

Specifications

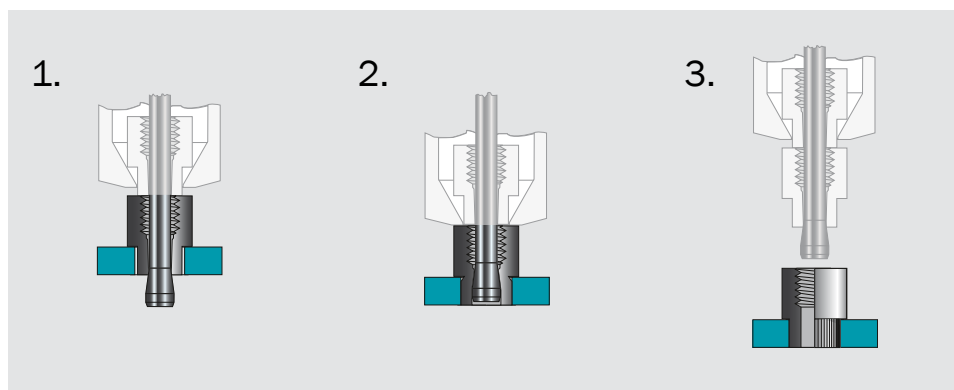
Sizes:

M2.5 x 0.45 and
M3 x 0.5 threads

Materials:

Tin plated brass

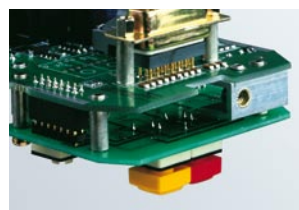
Typical placing sequence



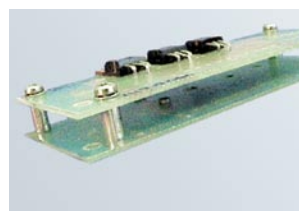
Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

- Aluminium geartrays and extrusions
- D-connectors
- PCBs
- Telecommunications equipment



DB25 subminiature connector
4.40 UNC female



Avlug[®] Solderable Terminal Posts

Secure, easy-to-solder terminal posts for PCBs.



Key features and benefits

- Rolled/knurled shank ensures secure placement in the PCB
- Available with diameters as small as 1.6 mm for assembly of smaller components
- Suitable for wire wrapping or a test point for CRO tubes

Specifications

Sizes:

1/16" - 1/8"
(1.6 mm to 3.2 mm)

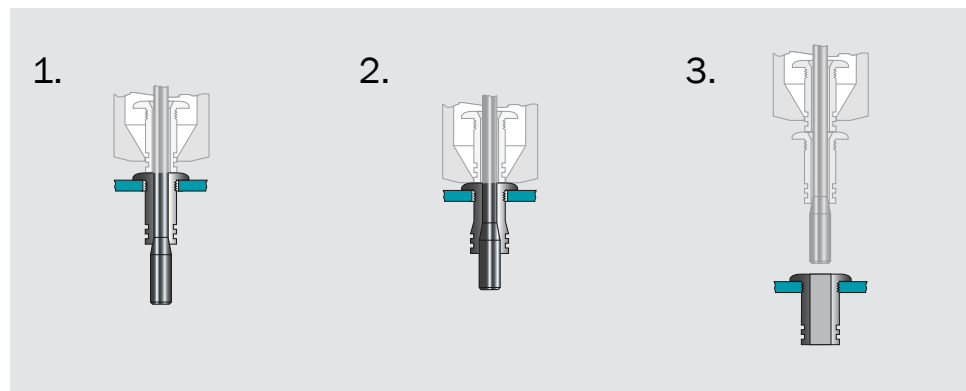
Materials:

Electro tin plated brass

Headforms:

Dome

Typical placing sequence

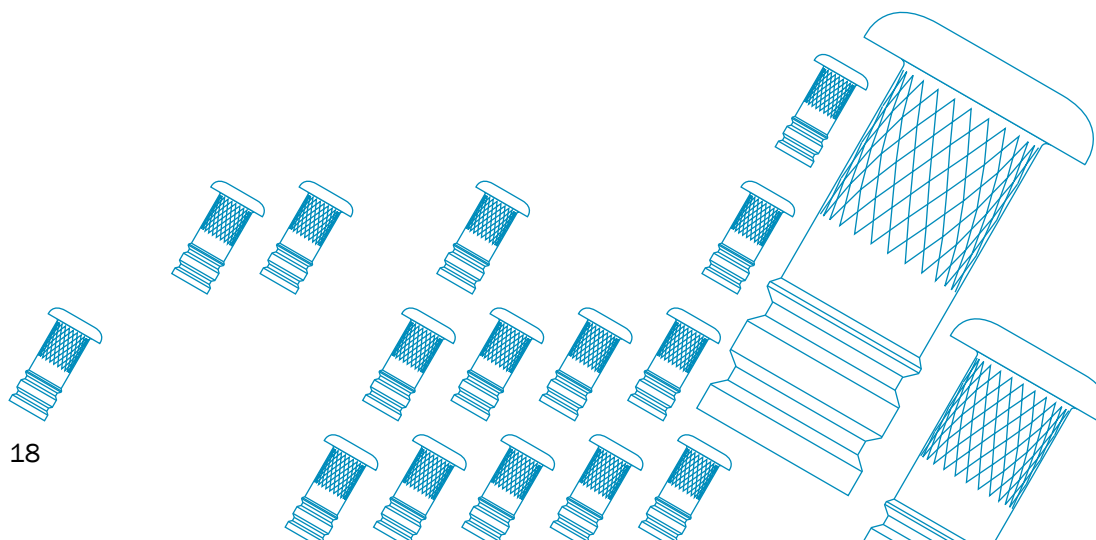
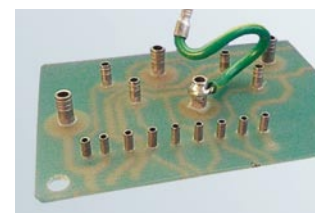


Please visit our website www.avdel-global.com for fastener placing animations.

Assembly applications

- Terminal posts
- Wire wrap

Terminal post - wire wrap



Installation Systems

From cost-effective handtools to bespoke assembly systems, Speed Fastening® equipment offers rapid and reliable assembly to meet your specific requirements. The equipment is an integral part of the Speed Fastening® System and offers the following benefits:

- High speed, reliable fastener feed
- Assembly cycle times within two seconds
- Single side assembly
- Simple operation
- Quick reload
- Low maintenance costs
- Ideal for low volume batch work through to fully automated assembly lines

Handtools

For low volume production up to 250,000 fastener p.a.

Handtools



753 Standard tool



7537 Handtool



Workstations

For medium volume production from 250,000 up to 1,000,000 fastener p.a.

Workstations



7535 Pantograph workstation



Mini-MAS



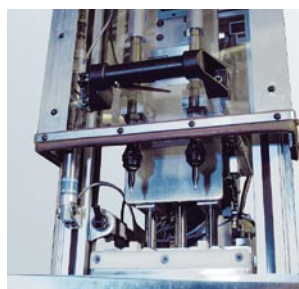
Assembly Workstations

For high volume production > 1,000,000 fastener p.a.

Bespoke systems



Twin head fixed pitch workstation



23 placing heads to assemble a computer chassis



Handtools

7530 Handtool

High performance, hydro-pneumatic handtool in heavy duty plastic, designed for rapid, blind side installation of speed fasteners. The intensifier is separated from the handtool. One tool places all speed fasteners except 1/16" Avlug® fastener.

- Average cycle time of less than 2 seconds to increase productivity – up to 1500 fasteners per hour
- High capacity, magazine fed fasteners reduces component handling and subsequent spillage
- Robust & durable construction makes it suitable for most industrial environments
- Lightweight construction (split handtool and intensifier) and low actuation recoil reduces operator fatigue
- Available with in-line handle or bottom hose configuration
- Low maintenance handtool maximises productive time – no requirement for specialist maintenance training
- Long life, self priming intensifier provides consistent actuation and hence joint formation
- Long reach barrel for use in many difficult access applications

753 Standard tool



Suspended

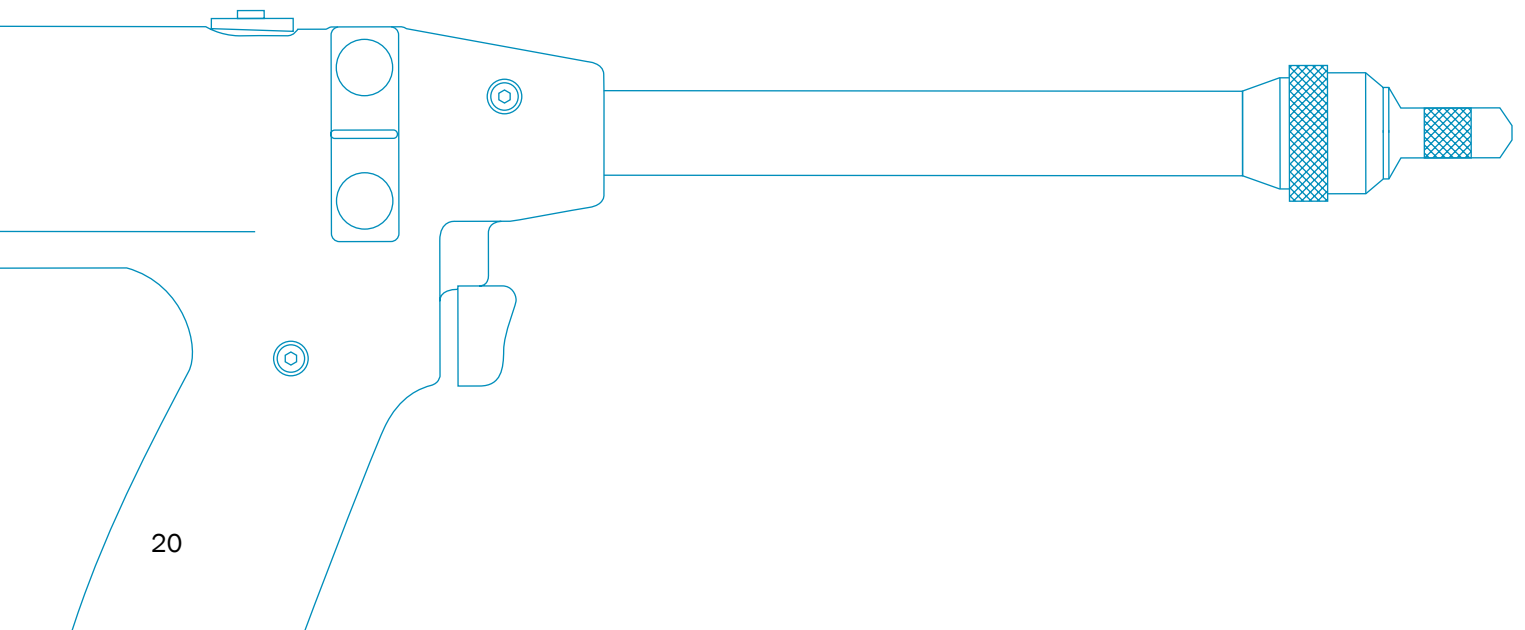


Autoload MK 4



A suspended version is available that can be supported on a balancer to be quickly and easily moved or discarded – reducing downtime and operator fatigue.

The Autoload option provides bowl fed fasteners to minimise reloading downtime and maximise productivity. The fasteners are automatically loaded onto the mandrel. When fasteners on one mandrel are spent, the tool is placed in the nest, and the system inserts a fully-loaded replacement into the modified 753 tool. The system features an operator interface board that displays real-time reports on machine cycles and fault diagnostics. The data also can be linked to a network allowing off-site monitoring and maintenance.



Handtools

7537 Handtool

Lightweight, hydro-pneumatic handtool with integrated intensifier places all speed fasteners except 1/16" Avlug® fastener.

- Average cycle time of approx. 1 second increases productivity
- No need for long umbilical makes it flexible to use in different production environment
- Specially toughened plastic body and heavy duty rubber base increase the impact resistance and durability
- Can place the same range of fasteners and uses the same nose equipment as 7530 handtool
- Ease of maintenance due to integral cycle counter
- Avdel Patent Protected features

7536 Handtool

Lightweight, hydro-pneumatic handtool with separate intensifier places the ø 1/16" mm Avlug® speed fastener.

- Control box and air cursor for reliable use of small diameter fasteners
- Uses same placing equipment and common parts of the 7530 tool

7271 Handtool

High performance, pneumatic handtool in heavy duty plastic, designed for rapid, blind side installation of speed fasteners.

- Average cycle time of less than 2 seconds to increase productivity – up to 1500 fasteners per hour
- High capacity, magazine fed fasteners reduces component handling and subsequent spillage
- Robust & durable construction makes it suitable for most industrial environments

7537



7536



7271



Workstations Single-head

These single-head workstations can place the entire range of Avdel Speed Fastening® Systems and stand out for their ergonomic design. Rapid assembly makes them cost-effective, even with small batch sizes. Simple to operate, high mobility and easy integration into the production process are the main features. Time-consuming training of an operator is not necessary. The hydraulic riveting units provide a smooth and shock-free riveting, ideal for sensitive components. All tools only require compressed-air supply.

Pantograph Workstation

- Tool supported on an extendable arm
- Wide arm reach to over 0.8 m
- Single hand operation
- The arm can be moved around the worktop to make space for other tasks
- Intensifier can be bench or floor mounted

Fixed Arm Workstation

- Tool supported on a fixed arm
- Foot pedal control, leaving both hands free to position the workpiece
- Easy alignment of workpiece
- Height adjustable arm to meet the operator's precise ergonomic needs

Underbench Workstation

- Cost-effective workstation, requiring minimum space
- Mounted below the worktop leaving a free worksurface
- Foot pedal control, leaving both hands free to position the workpiece
- Easy alignment and precision assembly of small components
- Integral safety guard

70510 Underbench workstation



70510 Underbench workstation



7535 Pantograph workstation



7535 Fixed arm workstation



Workstations Multi-head

Mini-MAS

The Avdel Mini-MAS is a twin-head assembly station for fast, parallel assembly with compact and ergonomic design making it very easy to integrate into existing assembly lines.

- Double-head parallel riveting optimizes your assembly and increases the quality of the joining
- The rivets are presented in pairs and provide practical jig points for your components.
- Possible linear positioning of one riveting module provides progressive adjustment of the riveting pitch from 29 mm up to 120 mm (close pitch version 17 mm – 108 mm)
- Suitable for many applications
- Hydraulic riveting modules provide smooth and shock-free riveting
- Activation by a foot pedal, leaving the hands free for component handling
- Seated workstation (stand version optional available)
- ESD construction as an option

Mini-MAS



Standard nose equipment



Close pitch version



Multi-head Assembly Workstations

Multi-head assembly workstations are designed for the synchronous placement of multiple fasteners. Systems can be simple fixed, two head workstations or complex systems where as many as 60 fasteners can be placed at the same time. Most multi headed systems are customised to some extent which means that the user can enjoy the benefits of an assembly solution designed to their own specific requirements.

- Synchronous fastener placement maximises productivity and throughput
- In built fixturing reduces assembly time
- Modular assembly technology reduces maintenance costs
- Diagnostics capability improves quality control; preventive maintenance regimes can be implemented
- These workstations can be readily integrated into existing production facilities

Assembly Workstations

Automated Assembly Systems

Automated assembly systems are designed for integration within production lines and offer a complete operator free assembly solution for highest levels of productivity.

- Bowl fed fasteners for continuous fastening
- In line integration
- Diagnostic capability through operator interface
- Modular design with simple equipment access for simple maintenance processes

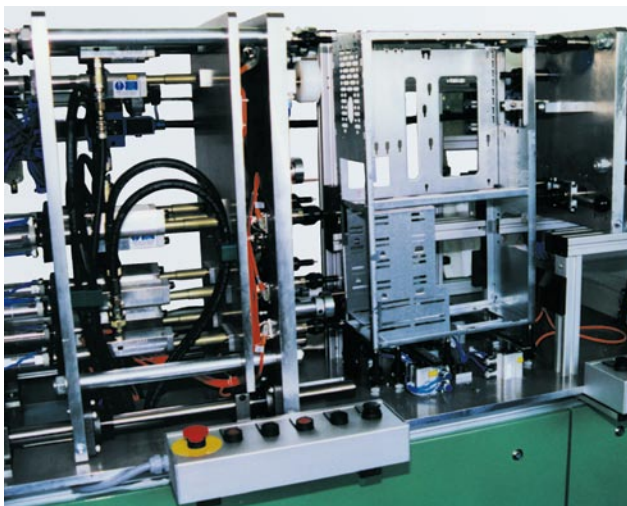
MIRS System to assemble vacuum pump



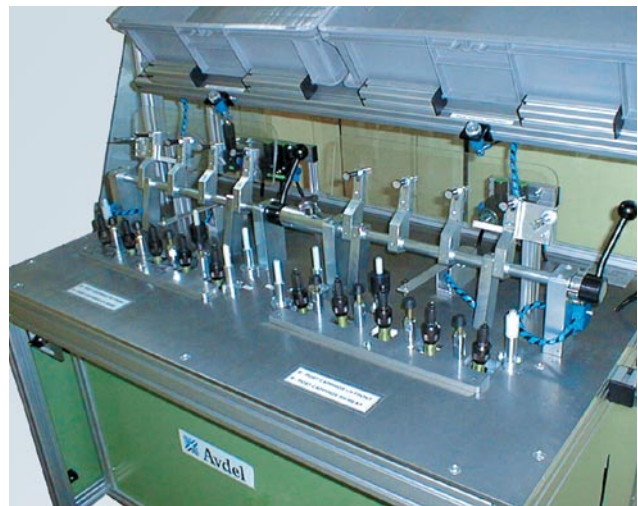
PMP System



29 placing heads to assemble computer chassis



10 placing heads to assemble automotive sealing strips

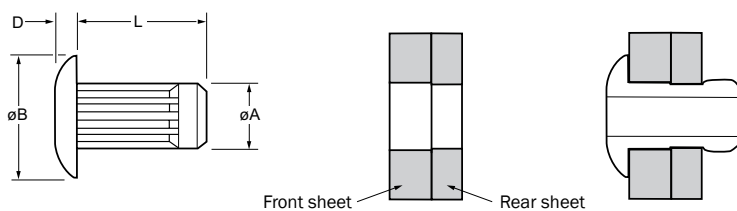


NeoSpeed® 57101



English	Français	Deutsch	Italiano	Español
Mushroom head	Tête plate	Flachrundkopf	Testa a fungo	Cabeza alomada grande
Aluminium Alloy* (5% Mg)	Alliage d'aluminium* (5% Mg)	Aluminium* (5% Mg)	Lega di alluminio* (5% Mg)	Aluminio* (5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

* : BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555



ø	Front sheet / Pièce avant / oberes Bauteil / lamiera anteriore/ pieza delantera		Rear sheet / Pièce arrière / unteres Bauteil / lamiera posteriore/ pieza trasera		øB	D	L	øA	lb ^{f1}	lb ^{f1}	Part No/ref
	min.	max.	min.	max.							
1/8"* (3.2 mm)	.016	.079	.1319	.1425	.257	.043	.157	.1245	186	323	57101-03204
	.016	.177									57101-03206
	.016	.339									57101-03211
5/32"* (4.0 mm)	.020	.086	.1614	.1744	.322	.049	.185	.1535	281	429	57101-04005
	.020	.197									57101-04007
	.020	.358									57101-04012
3/16" (4.8 mm)	.024	.095	.1969	.2126	.382	.059	.212	.1885	373	676	57101-04805
	.024	.204									57101-04808
	.024	.362									57101-04812

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

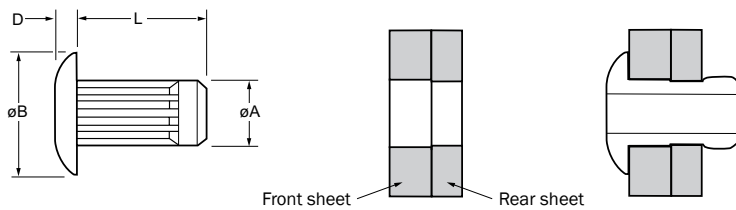
* Advance information only / sous réserve de confirmation / nur zur vorläufigen Information / informazione anticipate solo / solo informativo

NeoSpeed® 57121



English	Français	Deutsch	Italiano	Español
Mushroom head	Tête plate	Flachrundkopf	Testa a fungo	Cabeza alomada grande
Steel*	Acier*	Stahl*	Acciaio*	Acero*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

* : BS 3111 Type 0 SAE 1008 DIN 1654 QSt34-3



ø	Front sheet / Pièce avant / oberes Bauteil / lamiera anteriore / pieza delantera		Rear sheet / Pièce arrière / unteres Bauteil / lamiera posteriore / pieza trasera		øB	D	L	øA	lb ^{f1}	lb ^{f1}	Part No/ref	
	nom.	min.	max.	min.								max.
1/8"* (3.2 mm)	.016	.079	.1319	.1425	.1285	.1349	.257	.043	.1245	272	463	57121-03204
	.016	.177										57121-03206
	.016	.339										57121-03211
5/32"* (4.0 mm)	.020	.086	.1614	.1744	.1562	.1646	.322	.049	.1535	395	710	57121-04005
	.020	.197										57121-04007
	.020	.358										57121-04012
3/16" (4.8 mm)	.024	.095	.1969	.2126	.1910	.2008	.382	.059	.1885	539	944	57121-04805
	.024	.204										57121-04808
	.024	.362										57121-04812

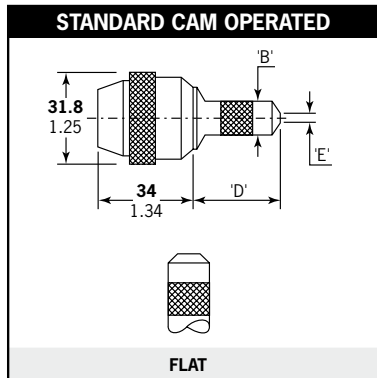
all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

* Advance information only / sous réserve de confirmation / nur zur vorläufigen Information / informazione anticipate solo / solo informativo

NeoSpeed® Nose Equipment

Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación



Nose equipment with addition of a twist cam to ease and speed up the nose jaw opening thus the pod reloading procedure.

Ensembles de nez avec, en plus, une came facilitant et accélérant l'ouverture du nez de pose, et donc le rechargement en fixations.

Zum leichteren Magazinieren haben diese Mundstücke durch einen Drehring zu öffnende Mundstückschnäbel.

Equipaggiamento con l'aggiunta di una camma per facilitare e rendere più veloce l'apertura della testata e pertanto la procedura di ricarica dell'astuccio portarivetti.

Boquillas que incorporan una leva para facilitar y hacer más rápida la apertura de la boquilla y el procedimiento de carga.

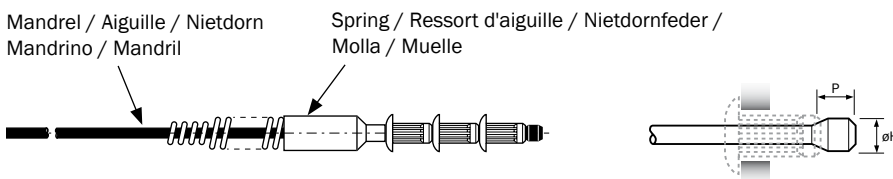
ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Dimensiones		
				B	D	E
1/8" (3.2 mm)	NeoSpeed®	Standard cam operated	07530-03200	.41	1.18	.20
5/32" (4.0 mm)		Standard cam operated	07530-03300	.48	1.30	.24
3/16" (4.8 mm)		Standard cam operated	07530-03400	.56	1.18	.33


all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

NeoSpeed® Mandrel and Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn

Mandrini e Molle / Mandriles y Muelles



ø nom.		Description Description Beschreibung Descrizione Descripción	ø H	P max.	Mandrel Part No/ref	Spring Part No/ref
1/8" (3.2 mm)	as rec.	Standard	.092	.120	07530-06014	07150-06814
5/32" (4.0 mm)	as rec.	Standard	.110	.136	07530-06015	07170-06875
3/16" (4.8 mm)	as rec.	Standard	.141	.157	07530-06016	07170-06876

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

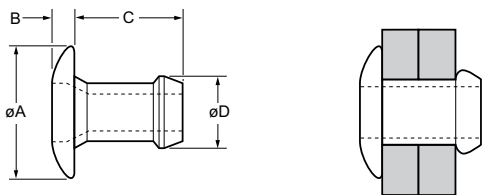
Briv[®] 1801, 1804



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Aluminium alloy* (5 % Mg)	Alliage d'aluminium* (5% Mg)	Aluminium* (5 % Mg)	Lega di alluminio* (5% Mg)	Aluminio* (5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

*: BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555

Option: for 2.5 % Mg aluminium alloy replace part no. 01801 with 01861 / pour 2.5 % Mg alliage d'aluminium remplacer la série 01801 par 01861 / für 2.5 % Mg Aluminium-Legierung ersetzen Sie 01801 durch 01861 / per 2.5 % Mg lega di alluminio sostituire 01801 con 01861 / con Aluminio (2,5 % de Mg) cambiar 01801 por 01861

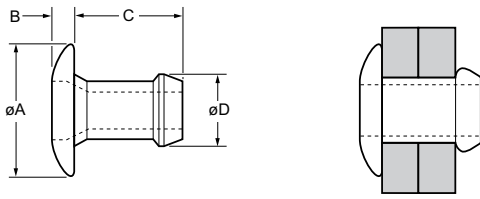


ø	Ø		Ø		øA	B	C	øD	lb ^{f1}	lb ^{f1}	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./ carga	natural / brut / blank / nessuna finitura / natural	anodised, dyed red / anodisé rouge / rot eloxiert / anodizzato rosso / anodizado rojo			
	min.	max.	min.	max.										max.	max.	max.
3/32"	.045	.095	.093	.096	.162	.035	.157	.0923	60	100	64	01801-00304	01804-00304			
	.085	.135					.197							52	01801-00306	01804-00306
	.125	.175					.237							44	01801-00308	01804-00308
	.165	.215					.277							38	01801-00310	01804-00310
	.205	.255					.317							34	01801-00312	01804-00312
	.245	.295					.357							30	01801-00314	01804-00314
	.265	.315					.377							28	01801-00315	01804-00315
	.285	.335					.397							27	01801-00316	01804-00316
	.305	.355					.417							26	01801-00317	01804-00317
	1/8"	.025					.075							.1285	.1315	.257
.045		.095	.172	58	01801-00404	01804-00404										
.065		.115	.192	50	01801-00405	01804-00405										
.085		.135	.212	48	01801-00406	01804-00406										
.125		.175	.252	42	01801-00408	01804-00408										
.165		.215	.292	37	01801-00410	01804-00410										
.205		.255	.332	33	01801-00412	01804-00412										
.245		.295	.372	29	01801-00414	01804-00414										
.285		.335	.412	26	01801-00416	01804-00416										

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1801, 1804



ø	[Cross-section diagram]		[Thread diagram]		øA	B	C	øD	[Tail diagram]	[Head diagram]	Fasteners per pod / Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga	natural / brut / blank / nessuna finitura / natural	anodised, dyed red / anodisé rouge / rot eloxiert / anodizzato rosso / anodizado rojo
	min.	max.	min.	max.									
5/32"	.062	.115	.1562	.1592	.322	.039	.193	.1525	255	390	52	01801-00505	01804-00505
	.085	.135					.213						
	.105	.155					.233						
	.145	.195					.273						
	.185	.235					.313						
	.225	.275					.353						
	.265	.315					.393						
	.305	.355					.433						
	3/16"	.065					.130						
.080		.155	.240										
.145		.205	.290										
.195		.255	.340										
.245		.305	.390										
.295		.355	.440										
.345		.405	.490										
.395		.455	.530										
6.0 mm		.105	.155	.2338	.2373	.455	.053	.273	.2325	380	740	37	01801-06007
	.145	.195	.313										
	.185	.235	.353										
	.225	.275	.393										
	.265	.315	.433										
	.305	.355	.473										

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

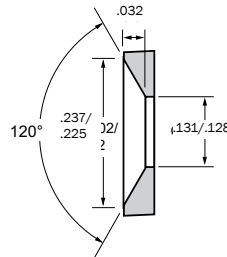
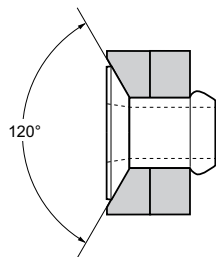
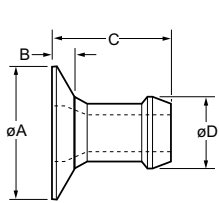
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1802



English	Français	Deutsch	Italiano	Español
120° Countersunk	120° Tête fraisée	120° Senkkopf	120° Testa svasata	120° Cabeza avellanada
Aluminium alloy* (5 % Mg)	Alliage d'aluminium* (5% Mg)	Aluminium* (5 % Mg)	Lega di alluminio* (5% Mg)	Aluminio* (5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

*: BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555



Rec. c/sunk hole dimensions (ø 1/8" only)
 Dimensions recommandées du trou fraisé (1/8"
 seulement)
 Empf. Abmessungen für Senkloch (nur ø 1/8")
 Dimensioni raccomandate del foro svasato (solo 1/8").
 Dimensiones del taladro avellanado recomendadas
 (solo 1/8")

ø	Ø		Ø		ØA	B	C	ØD	lb ^{f1}	lb ^{f1}	Fasteners per pod / Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref				
	min.	max.	min.	max.									max.	max.	max.	max.
1/8"	.060	.110	.1285	.1315	.235	.035	.188	.1245	170	295	64	01802-00406				
	.100	.150					.228						38	01802-00410		
	.140	.190					.268								33	01802-00411
	.180	.230					.308									
	.220	.270					.348									
5/32"	.062	.115	.1562	.1592	.275	.040	.204	.1535	255	390	59	01802-00505				
	.085	.135					.224						42	01802-00509		
	.105	.155					.244									
	.145	.195					.284								36	01802-00511
	.185	.235					.324									
	.225	.275					.364									

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

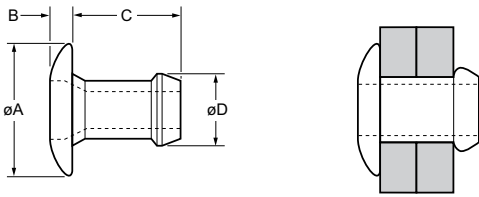
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1821



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Passivado claro trivalente

*: SAE 1008 / EN 10263-2 C8C (DIN 10263-2 C8C, Qst 34-3)

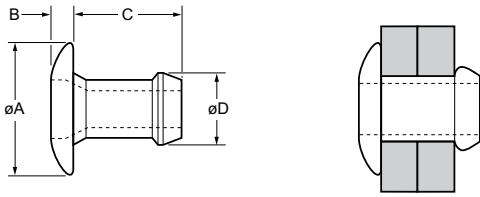


ø					øA	B	C	øD			Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref	
	nom.	min.	max.	min.									max.
1/8"	.025	.075	.1285	.1315	.257	.039	.152	.1245	255	410		59	01821-00403
	.045	.095					.172					58	01821-00404
	.065	.115					.192					50	01821-00405
	.085	.135					.212					48	01821-00406
	.125	.175					.252					42	01821-00408
	.165	.215					.292					37	01821-00410
	.205	.255					.332					33	01821-00412
	.245	.295					.372					29	01821-00414
	.285	.335					.412					26	01821-00416
5/32"	.062	.115	.1562	.1592	.322	.039	.193	.1535	370	630		52	01821-00505
	.085	.135					.213					49	01821-00506
	.105	.155					.233					44	01821-00507
	.145	.195					.273					39	01821-00509
	.185	.235					.313					34	01821-00511
	.225	.275					.353					31	01821-00513
	.265	.315					.393					26	01821-00515
	.305	.355					.433					24	01821-00517

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1821



ø					øA	B	C	øD			Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref
	min.	max.	min.	max.								
3/16"	.065	.130	.1910	.1940	.382	.046	.212	.1885	505	835	46	01821-00606
	.080	.155					.240				42	01821-00607
	.145	.205					.290				35	01821-00609
	.195	.255					.340				31	01821-00611
	.245	.305					.390				27	01821-00613
	.295	.355					.440				24	01821-00615
	.345	.405					.490				22	01821-00617
6.0 mm	.105	.155	.2338	.2373	.455	.053	.273	.2335	580	950	37	01821-06007
	.145	.195					.313				33	01821-06009
	.185	.235					.353				29	01821-06011
	.225	.275					.393				26	01821-06013
	.265	.315					.433				24	01821-06015
	.305	.355					.473				23	01821-06017

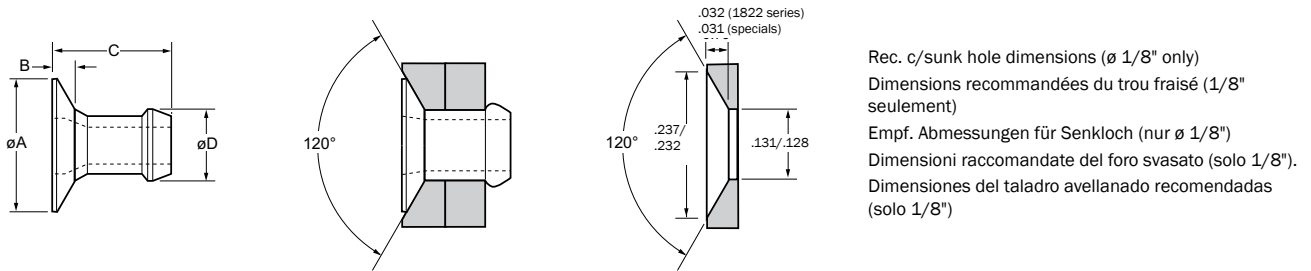
all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas



English	Français	Deutsch	Italiano	Español
120° Countersunk	120° Tête fraisée	120° Senkkopf	120° Testa svasata	120° Cabeza avellanada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

*: SAE 1008 / EN 10263-2 C8C (DIN 10263-2 C8C, Qst 34-3)



ø	Ø		Ø		øA	B	C	øD	lb ^{f1}	lb ^{f1}	Fasteners per pod/ Nombre de rivets par chargeur/ Niete pro Magazin/ Rivetti per caricatore/ Uds./carga ± 1	Part No/ref
	min.	max.	min.	max.								
1/8"	.060	.110	.1285	.1315	.230	.030	.188	.1245	213	370	64	01822-00406
	.100	.150					.228				52	01822-00407
	.140	.190					.268				44	01822-00408
	.180	.230					.308				38	01822-00410
	.220	.270					.348				33	01822-00411
5/32"	.062	.115	.1562	.1592	.240	.040	.204	.1535	370	630	59	01822-00505
	.086	.135					.224				54	01822-00506
	.105	.155					.244				49	01822-00507
	.145	.195					.284				42	01822-00509
	.185	.235					.324				36	01822-00511
	.225	.275					.364				32	01822-00513

Special Option: designed for thin sheet applications / Conçu pour des applications de faible épaisseur / für geringe Materialstärken / Progettato per applicazioni in spessori sottili/ Diseñado para aplicaciones de chapa fina

1/8"	.050	.090	.1285	.1315	.230	.029	.170	.1245	213	370	72	01810-06480
	.057	.067				.027	.165				72	01810-10375

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1833



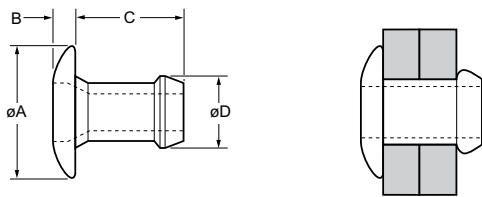
English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Brass*	Laiton*	Kupfer-Zink Legierung*	Ottone*	Latón*
Electro tin plated**	Etamage électrolytique**	verzinkt**	Stagnato**	Estañado electrolítico**

*: BS EN 12166 CW 508L DIN 17660 CuZn37

** : Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinnte Nieten innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

Option:

For brightened Brass finish replace 01833 with 01831 / Pour finition brillante remplacer la série 01833 par 01831 / Für Oberfläche blank ersetzen Sie 01833 durch 01831 / Per finitura brillante sostituire 01833 con 01831 / Con acabado brillante cambiar 01833 por 01831

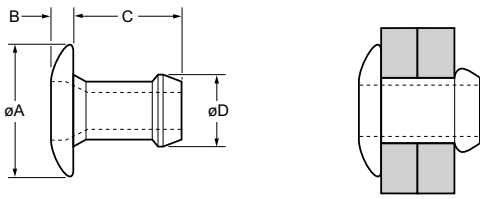


ø					øA	B	C	øD			Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref														
	nom.	min.	max.	min.									max.	max.	max.	max.	lb ^{f1}	lb ^{f1}								
3/32"	.045	.095	.0930	.0960	.162	.035	.157	.0924	100	200	64	01833-00304														
	.085	.135					.197						52	01833-00306												
	.125	.175					.237								44	01833-00308										
	.165	.215					.277										38	01833-00310								
	.205	.255					.317												34	01833-00312						
	.245	.295					.357														30	01833-00314				
	.265	.315					.377																28	01833-00315		
	.285	.335					.397																		27	01833-00316
	.305	.355					.417																			
1/8"	.025	.075	.1285	.1315	.257	.039	.152	.1243	250	430	64	01833-00403														
	.045	.095					.172						58	01833-00404												
	.085	.135					.212								50	01833-00406										
	.125	.175					.252										42	01833-00408								
	.165	.215					.292												37	01833-00410						
	.205	.255					.332														33	01833-00412				
	.245	.295					.372																29	01833-00414		
	.285	.335					.412																		26	01833-00416

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1833



ø	Ø		Ø		øA	B	C	øD	lb ^{f1}	lb ^{f1}	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref
	min.	max.	min.	max.								
5/32"	.062	.115	.1562	.1592	.322	.039	.193	.1533	420	620	52	01833-00505
	.085	.135					.213				48	01833-00506
	.105	.155					.233				44	01833-00507
	.145	.195					.273				38	01833-00509
	.185	.235					.313				34	01833-00511
	.225	.275					.353				30	01833-00513
	.265	.315					.393				27	01833-00515
	.305	.355					.433				25	01833-00517
3/16"	.065	.130	.1910	.1940	.382	.046	.121	.1885	520	810	46	01833-00606
	.080	.155					.240				42	01833-00607
	.145	.205					.290				35	01833-00609
	.195	.255					.340				31	01833-00611
	.245	.305					.390				27	01833-00613
	.295	.355					.440				24	01833-00615
	.345	.405					.490				22	01833-00617
	.395	.455					.530				20	01833-00619

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

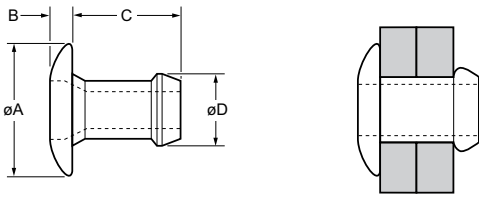
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Briv® 1841



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Austenitic stainless steel*	Inox austénitique*	Edelstahl*	Acciaio inox austenitico*	Acero inoxidable austenítico*
Polished	Poli	Blank	Lucido	Pulido

*: BS 3111 394S17 Werkstoff 1.4567



ø					øA	B	C	øD			Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref								
	nom.	min.	max.	min.									max.	max.	max.	max.	lbf ¹⁾	lbf ¹⁾		
1/8"	.045	.095	.1285	.1315	.257	.039	.172	.1245	340	510	58	01841-00404								
	.085	.135					.212						50	01841-00406						
	.125	.175					.252								42	01841-00408				
	.165	.215					.292										37	01841-00410		
	.205	.255					.332												33	01841-00412
5/32"	.062	.115	.1562	.1592	.322	.039	.193	.1525	550	800	52	01841-00505								
	.085	.135					.213						44	01841-00506						
	.105	.155					.233								38	01841-00507				
	.145	.195					.273										34	01841-00509		
	.185	.235					.313												30	01841-00511
	.225	.275					.353													
3/16"	.080	.155	.1910	.1940	.382	.046	.240	.1875	800	1150	42	01841-00607								
	.145	.205					.290						35	01841-00609						
	.170	.230					.315								32	01841-00610				
	.195	.255					.340										31	01841-00611		
	.245	.305					.390												27	01841-00613
	.295	.355					.440													

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

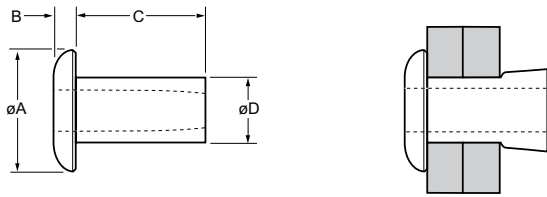
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1121



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

*: SAE 1008 / EN 10263-2 C8C (DIN 10263-2 C8C, Qst 34-3)

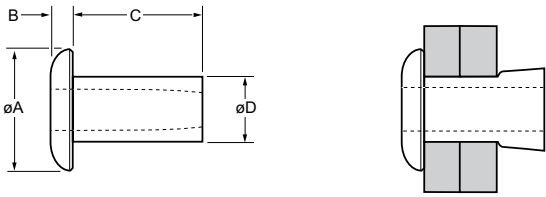


ø					øA	B	C	øD		Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per carica- tore / Uds./carga ± 1	Part No/ref	
	nom.	min.	max.	min.								max.
1/8"	.000	.062	.129	.132	.215	.044	.125	.128	314		71	01121-00404
	.031	.093					.156				57	01121-00405
	.062	.125					.187				51	01121-00406
	.125	.187					.250				39	01121-00408
	.187	.250					.312				32	01121-00410
	.250	.312					.375				27	01121-00412
5/32"	.062	.125	.161	.164	.255	.057	.187	.159	539		47	01121-00506
	.125	.187					.250				38	01121-00508
	.187	.250					.312				31	01121-00510
	.250	.312					.375				27	01121-00512
	.312	.375					.437				23	01121-00514
	.375	.437					.500				21	01121-00516

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1121



ø					øA	B	C	øD		Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per carica- tore / Uds./carga ± 1	Part No/ref	
	nom.	min.	max.	min.								max.
3/16"	.000	.062	.191	.194	.349	.070	.157	.191	719		50	01121-00605
	.062	.125									38	01121-00607
	.125	.187									33	01121-00609
	.187	.250									28	01121-00611
	.250	.312									24	01121-00613
	.312	.375									21	01121-00615
	.375	.437									19	01121-00617
	.437	.500									17	01121-00619
	1/4"	.125									.187	.250
.187		.250	.344	27	01121-00811							
.250		.312	.406	24	01121-00813							
.312		.375	.469	21	01121-00815							
.375		.437	.531	19	01121-00817							
.437		.500	.594	17	01121-00819							

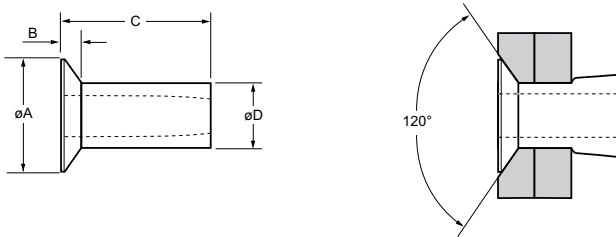
all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas




1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas



English	Français	Deutsch	Italiano	Español
Countersunk head	Tête fraisée	Senkkopf	Testa svasata	Cabeza avellanada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Passivado claro trivalente

*: BS 3111 Type 0 SAE 1008 DIN 1654 Qst 34-3



ø					øA	B	C	øD	 lbf ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per carica- tore / Uds./carga ± 1	Part No/ref												
	nom.	min.	max.	min.								max.	min.	max.	max.	max.							
1/8"	.036	.062	.1285	.1315	.205	.036	.130	.128	314	90	01122-00404												
	.036	.093					.161					72	01122-00405										
	.062	.125					.192							61	01122-00406								
	.125	.187					.255									46	01122-00408						
	.187	.250					.317											37	01122-00410				
	.250	.312					.380													31	01122-00412		
5/32"	.062	.125	.161	.164	.245	.038	.192	.159	539	61	01122-00506												
	.125	.187					.255					46	01122-00508										
	.187	.250					.317							37	01122-00510								
	.250	.312					.380									31	01122-00512						
	.312	.375					.442											26	01122-00514				
	.375	.437					.505													23	01122-00516		
3/16"	.062	.125	.191	.194	.339	.056	.224	.191	719	52	01122-00607												
	.125	.187					.286					41	01122-00609										
	.187	.250					.349							33	01122-00611								
	.250	.312					.411									28	01122-00613						
	.312	.375					.474											25	01122-00615				
	.375	.437					.536													22	01122-00617		
	.437	.500					.599															19	01122-00619
	.250	.312					.411																
1/4"	.312	.375	.250	.253	.401	.057	.474	.250	989	25	01122-00815												
	.375	.437					.536					22	01122-00817										
	.437	.500					.599							19	01122-00819								
	.500	.562					.661									18	01122-00821						
	.562	.625					.724											16	01122-00823				
	.625	.687					.786													15	01122-00825		

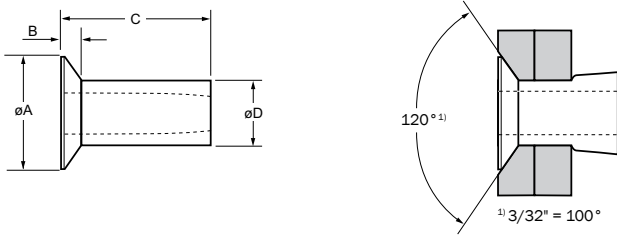
all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1124 / 1132 /1136



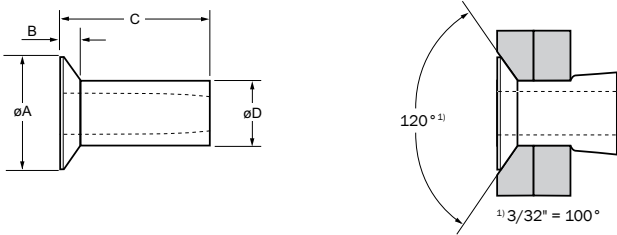
English	Français	Deutsch	Italiano	Español
Countersunk head	Tête fraisée	Senkkopf	Testa svasata	Cabeza avellanada
Aluminium alloy	Alliage d'aluminium	Aluminium	Lega di alluminio	Aluminio
Natural	Brut	Blank	Nessuna finitura	Natural



ø	Ø		Ø		øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Aluminium		
	min.	max.	min.	max.						2.5 % Mg AA 5052 DIN 1725 AlMg2.5 Werkstoff 3.3523	3.5 % Mg BS 1473 5154A DIN 1725 AlMg3.5 Werkstoff 3.3535	5 % Mg BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555
nom.	min.	max.	min.	max.	min.	max.	max.	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/32"		.062	.098	.1005	.164	.035	.130	.097	90	01124-00304	01132-00304	
	.062	.125					.192		61	01124-00306	01132-00306	
	.125	.187					.255		46	01124-00308	01132-00308	
	.187	.250					.317		37		01132-00310	
	.250	.312					.380		31		01132-00312	
1/8"		.062	.1285	.1315	.205	.036	.130	.128	90	01124-00404	01132-00404	01136-00404
	.062	.125					.192		61	01124-00406	01132-00406	01136-00406
	.125	.187					.255		46	01124-00408	01132-00408	01136-00408
	.187	.250					.317		37	01124-00410	01132-00410	01136-00410
	.250	.312					.380		31	01124-00412	01132-00412	01136-00412
5/32"	.062	.125	.161	.164	.245	.038	.192	.159	61	01124-00506	01132-00506	01136-00506
	.125	.187					.255		46	01124-00508	01132-00508	01136-00508
	.187	.250					.317		37	01124-00510	01132-00510	01136-00510
	.250	.312					.380		31	01124-00512	01132-00512	01136-00512
	.312	.375					.442		26	01124-00514	01132-00514	01136-00514
	.375	.437					.505		23	01124-00516	01132-00516	01136-00516

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

Chobert® 1124 / 1132 /1136



ø	Ø		Ø		øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Aluminium		
	min.	max.	min.	max.						2.5 % Mg AA 5052 DIN 1725 AlMg2.5 Werkstoff 3.3523	3.5 % Mg BS 1473 5154A DIN 1725 AlMg3.5 Werkstoff 3.3535	5 % Mg BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555
nom.	min.	max.	min.	max.	min.	max.	max.	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/16"	.062	.125	.191	.194	.339	.056	.224	.189	52	01124-00607	01132-00607	01136-00607
	.125	.187					.286		41	01124-00609	01132-00609	01136-00609
	.187	.250					.349		33	01124-00611	01132-00611	01136-00611
	.250	.312					.411		28	01124-00613	01132-00613	01136-00613
	.312	.375					.474		25	01124-00615	01132-00615	01136-00615
	.375	.437					.536		22	01124-00617	01132-00617	01136-00617
	.437	.500					.599		19	01124-00619	01132-00619	01136-00619
1/4"	.125	.187	.250	.253	.401	.057	.286	.248	41	01124-00809	01132-00809	01136-00809
	.187	.250					.349		33	01124-00811	01132-00811	01136-00811
	.250	.312					.411		28	01124-00813	01132-00813	01136-00813
	.312	.375					.474		25	01124-00815	01132-00815	01136-00815
	.375	.437					.536		22	01124-00817	01132-00817	01136-00817
	.437	.500					.599		19	01124-00819	01132-00819	01136-00819

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

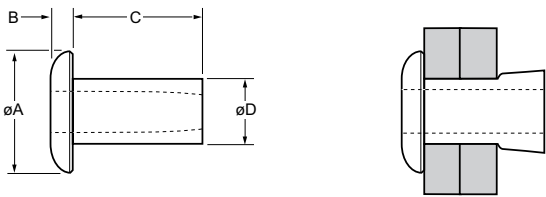
ø	Ø		
	Series 01124 lbf ¹⁾	Series 01132 lbf ¹⁾	Series 01136 lbf ¹⁾
3/32"	67	112	112
1/8"	135	202	202
5/32"	225	360	360
3/16"	337	450	450
1/4"	427	607	607



1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1125 / 1131 /1135



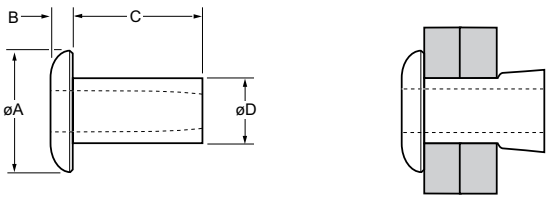
English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Aluminium alloy	Alliage d'aluminium	Aluminium	Lega di alluminio	Aluminio
Natural	Brut	Blank	Nessuna finitura	Natural



ø					øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Aluminium																																
	min.	max.	min.	max.						± .012	max.	± .007	max.	± 1	2.5 % Mg AA 5052 DIN 1725 AlMg2.5 Werkstoff 3.3523	3.5 % Mg BS 1473 5154A DIN 1725 AlMg3.5 Werkstoff 3.3535	5 % Mg BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555																									
nom.	min.	max.	min.	max.	± .012	max.	± .007	max.	± 1	Part No/ref	Part No/ref	Part No/ref																														
3/32"		.062	.098	.1005	±.156	.037	±.007	.0975	73	01125-00304	01131-00304	01135-00304																														
	.062	.125											.187	52	01125-00306	01131-00306	01135-00306																									
	.125	.187																.250	41	01125-00308	01131-00308	01135-00308																				
	.187	.250																					.312	33	01125-00310	01131-00310	01135-00310															
	.250	.312																										.375	28		01131-00312											
	.312	.375																															.437	24		01131-00314						
	.375	.437																																				.500	22		01131-00316	
1/8"		.062	.129	.1315	±.205	.045	±.007	.1285	71	01125-00404	01131-00404	01135-00404																														
	.062	.125											.187	51	01125-00406	01131-00406	01135-00406																									
	.125	.187																.250	39	01125-00408	01131-00408	01135-00408																				
	.187	.250																					.312	32	01125-00410	01131-00410	01135-00410															
	.250	.312																										.375	27	01125-00412	01131-00412	01135-00412										
	.312	.375																															.437	23	01125-00414							
5/32"	.062	.125	.161	.164	±.245	.058	±.007	.1595	47	01125-00506	01131-00506	01135-00506																														
	.125	.187											.250	38	01125-00508	01131-00508	01135-00508																									
	.187	.250																.312	31	01125-00510	01131-00510	01135-00510																				
	.250	.312																					.375	27	01125-00512	01131-00512	01135-00512															
	.312	.375																										.437	23	01125-00514	01131-00514	01135-00514										
	.375	.437																															.500	21	01125-00516	01131-00516	01135-00516					
	.437	.500																																				.567		01125-00518	01131-00518	01135-00518
	.500	.562																																								

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

Chobert® 1125 / 1131 /1135



ø	Ø		Ø		øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Aluminium		
	min.	max.	min.	max.						± .012	max.	± .007
nom.	min.	max.	min.	max.	± .012	max.	± .007	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/16"		.062	.191	.194	.339	.071	.1895		50		01131-00605	
	.062	.125							38	01125-00607	01131-00607	01135-00607
	.125	.187							33	01125-00609	01131-00609	01135-00609
	.187	.250							28	01125-00611	01131-00611	01135-00611
	.250	.312							24	01125-00613	01131-00613	01135-00613
	.312	.375							21	01125-00615	01131-00615	01135-00615
	.375	.437							19	01125-00617	01131-00617	01135-00617
	.437	.500							17	01125-00619	01131-00619	01135-00619
1/4"	.125	.187	.250	.253	.401	.084	.2485		32		01131-00809	01135-00809
	.187	.250							27		01131-00811	01135-00811
	.250	.312							24		01131-00813	01135-00813
	.312	.375							21		01131-00815	01135-00815
	.375	.437							19		01131-00817	01135-00817
	.437	.500							17		01131-00819	01135-00819
	.500	.562							16		01131-00821	
	.562	.625							14		01131-00823	
.625	.687	13		01131-00825								

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

ø	Ø		
	Series 01125	Series 01131	Series 01135
nom.	lbf ¹⁾	lbf ¹⁾	lbf ¹⁾
3/32"	67	112	112
1/8"	135	180	180
5/32"	225	360	360
3/16"	337	450	450
1/4"		607	607

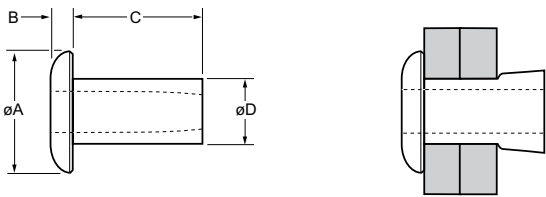
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1141 / 1143 / 1147



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Brass*	Laiton*	Kupfer-Zink-Legierung*	Ottone*	Latón*

*: EN 12166 CW 508L DIN 17660 CuZn37

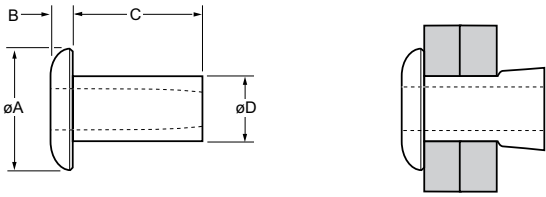


ø	Ø		Ø		øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Brass		
	min.	max.	min.	max.						bright / brillante / blank / brillante / brillante /	electro tin plated* / etamage électrolytique* / verzinnt* / stagnato* / estañado electrolítico*	nickel plated / nickelé / vernickelt / nichelato / niquelado
nom.	min.	max.	min.	max.	± .01	max.	nom.	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/32"		.062	.098	.1005	.156	.036	.125	.097	73	01141-00304	01143-00304	01147-00304
	.062	.125					.187		52	01141-00306	01143-00306	01147-00306
	.125	.187					.250		41	01141-00308	01143-00308	01147-00308
	.187	.250					.312		33	01141-00310	01143-00310	01147-00310
	.250	.312					.375		28		01143-00312	
1/8"		.062	.129	.1315	.205	.044	.125	.128	71	01141-00404	01131-00404	01147-00404
	.062	.125					.187		51	01141-00406	01131-00406	01147-00406
	.125	.187					.250		39	01141-00408	01131-00408	01147-00408
	.187	.250					.312		32	01141-00410	01131-00410	01147-00410
5/32"	.062	.125	.161	.164	.245	.057	.187	.159	47	01141-00506	01143-00506	01147-00506
	.125	.187					.250		38	01141-00508	01143-00508	01147-00508
	.187	.250					.312		31	01141-00510	01143-00510	01147-00510
	.250	.312					.375		27	01141-00512	01143-00512	01147-00512
	.312	.375					.437		23	01141-00514	01143-00514	01147-00514
	.375	.437					.500		21		01143-00516	

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

*: Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinnete Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

Chobert® 1141 / 1143 / 1147



ø	Material		Thread		øA	B	C	øD	Fasteners per pod / Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga	Brass		
	min.	max.	min.	max.						bright / brillante / blank / brillante / brillante /	electro tin plated* / etamage électrolytique* / verzinnt* / stagnato* / estañado electrolítico*	nickel plated / nickelé / vernickelt / nichelato / niquelado
nom.	min.	max.	min.	max.	± 0.3	max.	nom.	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/16"	.062	.125	.191	.194	.339	.070	.219	.191	38	01141-00607	01143-00607	01147-00607
	.125	.187					.281		33	01141-00609	01143-00609	01147-00609
	.187	.250					.344		28	01141-00611	01143-00611	01147-00611
	.250	.312					.406		24	01141-00613	01143-00613	01147-00613
	.312	.375					.469		21	01141-00615	01143-00615	01147-00615
	.375	.437					.531		19	01141-00617	01143-00617	01147-00617

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

*: Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinnte Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

ø	Strength		
	Series 01141	Series 01143	Series 01147
nom.	lbf ¹⁾	lbf ¹⁾	lbf ¹⁾
3/32"	134	134	134
1/8"	247	247	247
5/32"	404	404	404
3/16"	562	562	562

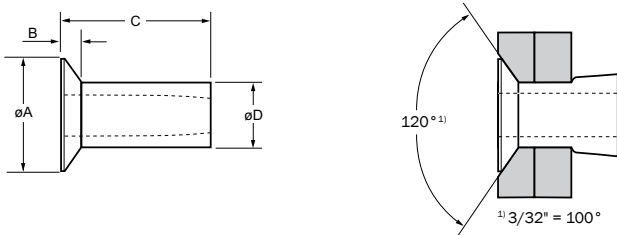
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Chobert® 1142 / 1144 / 1148



English	Français	Deutsch	Italiano	Español
Countersunk head	Tête fraisée	Senkkopf	Testa svasata	Cabeza avellanada
Brass*	Laiton*	Kupfer-Zink-Legierung*	Ottone*	Latón*

*: EN 12166 CW 508L DIN 17660 CuZn37

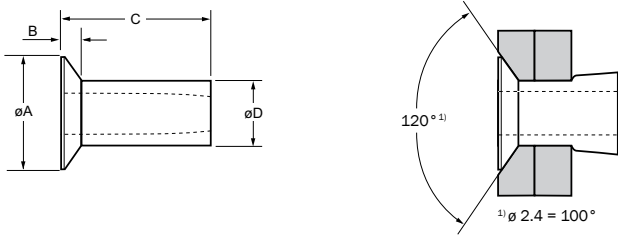


ø	Material		Thread		øA	B	C	øD	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Brass		
	bright / brillante / blank / brillante / brillante /	electro tin plated* / etamage électrolytique* / verzinnt* / stagnato* / estañado electrolítico*	nickel plated / nickelé / vernickelt / nichelato / niquelado	Part No/ref						Part No/ref	Part No/ref	
nom.	min.	max.	min.	max.	min.	max.	max.	max.	± 1			
3/32"		.062	.0980	.1005	.164	.035	.130	.097	90	01142-00304	01144-00304	01148-00304
	.062	.125					.192		61	01142-00306	01144-00306	01148-00306
	.125	.187					.255		46	01142-00308	01144-00308	01148-00308
	.187	.250					.317		37	01142-00310	01144-00310	01148-00310
1/8"		.062	.1285	.1315	.205	.036	.130	.128	90	01142-00404	01144-00404	01148-00404
	.062	.125					.192		61	01142-00406	01144-00406	01148-00406
	.125	.187					.255		46	01142-00408	01144-00408	01148-00408
	.187	.250					.317		37	01142-00410	01144-00410	01148-00410
5/32"	.062	.125	.161	.164	.245	.038	.192	.159	61	01142-00506	01144-00506	01148-00506
	.125	.187					.255		46	01142-00508	01144-00508	01148-00508
	.187	.250					.317		37	01142-00510	01144-00510	01148-00510
	.250	.312					.380		31	01142-00512	01144-00512	01148-00512
	.312	.375					.442		26	01142-00514	01144-00514	01148-00514

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

*: Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinnte Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

Chobert® 1142 / 1144 /1148



ø	Material		Surface		øA	B	C	øD	Fasteners per pod / Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./carga	Brass		
	bright / brillante / blank / brillante / brillante /	electro tin plated* / etamage électrolytique* / verzinnt* / stagnato* / estañado electrolítico*	nickel plated / nickelé / vernickelt / nichelato / niquelado	Part No/ref						Part No/ref	Part No/ref	
nom.	min.	max.	min.	max.	min.	max.	max.	max.	± 1	Part No/ref	Part No/ref	Part No/ref
3/16"	.062	.125	.191	.194	.339	.056	.224	.190	52	01142-00607	01144-00607	01148-00607
	.125	.187					.286		41	01142-00609	01144-00609	01148-00609
	.187	.250					.349		33	01142-00611	01144-00611	01148-00611
	.250	.312					.411		28	01142-00613	01144-00613	01148-00613
	.312	.375					.474		25	01142-00615	01144-00615	01148-00615
	.375	.437					.536		22	01142-00617	01144-00617	01148-00617

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

*: Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinnte Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

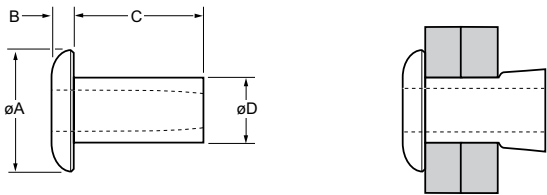
ø	Resistance		
	Series 01142	Series 01144	Series 01148
nom.	lbf ¹⁾	lbf ¹⁾	lbf ¹⁾
3/32"	112	112	112
1/8"	224	224	224
5/32"	382	382	382
3/16"	517	517	517

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas



English	Français	Deutsch	Italiano	Español
Low profile head	Tête profil bas	Flachkopf	Testa basso profilo	Cabeza perfil bajo
Aluminium alloy* (2.5 % Mg)	Alliage d'aluminium* (2.5% Mg)	Aluminium* (2.5 % Mg)	Lega di alluminio* (2.5% Mg)	Aluminio* (2.5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

*: AA 5052 DIN 1725 AlMg2.5 Werkstoff 3.3523



ø					øA	B	C	øD		Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per carica- tore / Uds./carga	Part No/ref		
	nom.	min.	max.	min.								max.	± .01
1/8"					.253	.041	.129	.1275	134		71	01162-00404	
		.062	.125	.129			.1315				.192	51	01162-00406
		.125	.187								.254	39	01162-00408
		.187	.250								.317	32	01162-00410
		.250	.312								.379	27	01162-00412
		.312	.375								.441	23	01162-00414
		.375	.437								.503	21	01162-00416
	5/32"		.062								.125	.161	.164
		.093	.155		.215			01162-00507					
		.125	.187	.247	38	01162-00508							
		.187	.250	.309	31	01162-00510							
		.250	.312	.372	27	01162-00512							
		.312	.375	.434	23	01162-00514							
		.375	.437	.497	21	01162-00516							
3/16"			.062		.191	.194	.172	.1895	337		50		
		.062	.125	.223			38				01162-00607		
		.125	.187	.285			33				01162-00609		
		.187	.250	.348			28				01162-00611		
		.250	.312	.410			24				01162-00613		
		.312	.375	.473			21				01162-00615		
		.375	.437	.535			19				01162-00617		
		.437	.500	.598			17				01162-00619		

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

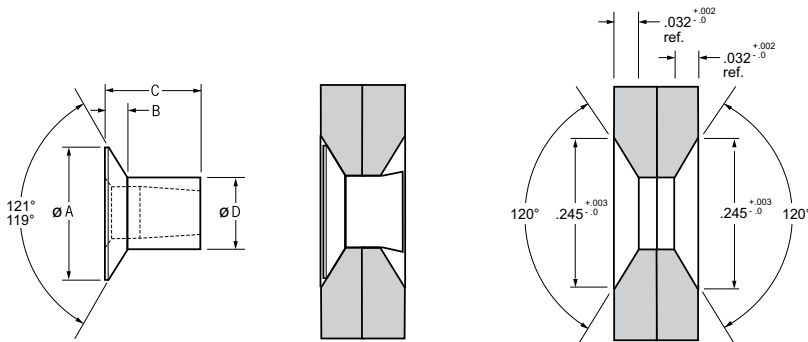
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Double Flush Chobert® 1110



English	Français	Deutsch	Italiano	Español
120° Countersunk	120° Tête fraisée	120° Senkkopf	120° Testa svasata	120° Cabeza avellanada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

*: EN 10263-2 C8C (DIN 10263-2 C8C, Qst 34-3)



Rear sheet tail protrusion of installed fastener is application dependent - up to .020" is permissible.

Le dépassement en face arrière après pose dépend de l'application - possible jusqu'à .020".

Der Bauteilüberstand des gesetzten Verbinders auf der Blindseite ist applikationsabhängig - bis zu .020" ist zulässig.

L'entità della sporgenza posteriore del rivetto installato è dipendente dall'applicazione. Fino a .020" è ammessa.

El remache una vez colocado, sobresale por la parte trasera de la chapa hasta un máximo de .020" permitidos.

Ø	Ø		ØA	B	C	ØD	lb ^{f1)}	lb ^{f1)}	Fasteners per pod/ Nombre de rivets par chargeur/ Niete pro Magazin/ Rivetti per caricatore/ Uds./carga	Part No/ref		
	min.	max.									min.	max.
1/8" (3.2 mm)	.078	.105	.129	.131	.215	.030	.098	.128	229	341	120	01110-11708
	.095	.115					.110				112	01110-11294

all dimensions in inch / en pouces / alle Maße in Zoll / in pollici / en pulgadas

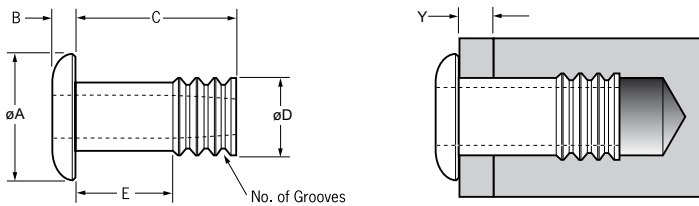
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Grovit® 1101



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

*: SAE 1008 / EN 10263-2 C8C (DIN 10263-2 C8C, Qst 34-3)



ø	Y	No. of grooves/ cannelures/ Rillen / rigature / aros		A	B	C	D	E	No. of grooves/ cannelures/ Rillen / rigature / aros	lbf ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Part No/ref
		min.	max.									
1/8"	.141	.136	.139	.205	.039	.312	.135	.125	3	269	± 1	01101-00410
5/32"	.110	.173	.177	.245	.052	.250	.172	.063	3	494	36	01101-00508
	.173					.375		.125	4		25	01101-00512
	.204					.437		.187	4		22	01101-00514

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Grovit® 1103



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Aluminium alloy* (2.5 % Mg)	Alliage d'aluminium* (2.5% Mg)	Aluminium* (2.5 % Mg)	Lega di alluminio* (2.5% Mg)	Aluminio* (2.5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

*: AA 5052, DIN 1725 AlMg2.5 Werkstoff 3.3523

Option:

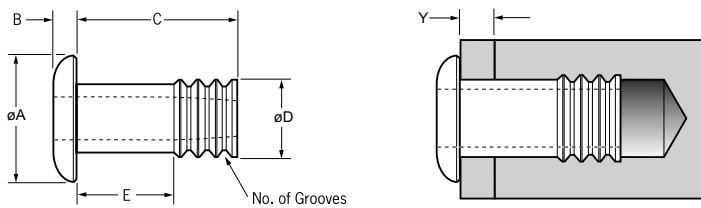
120° countersunk head: replace part no. 01103 with 01104. Details on request.

120° tête fraisée: remplacer la série 01103 par 01104. Détails sur demande.

120° Senkkopf: ersetzen Sie 01103 durch 01104. Details auf Anfrage.

120° testa svasata: sostituire 01103 con 01104. Dettagli su richiesta.

120° cabeza avellanada: cambiar 01103 por 01104. Más información bajo petición.



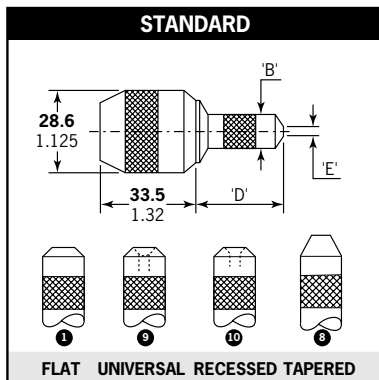
Ø	Y	No. of grooves/ cannelures/ Rillen / rigature / aros		A	B	C	D	E	No. of grooves/ cannelures/ Rillen / rigature / aros	lbf ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Part No/ref
		min.	max.									
nom.	max.	min.	max.	max.	max.	max.	max.	max.			± 1	
3/32"	.078	.101	.104	.156	.031	.187	.100	.078	2	63	46	01103-00306
1/8"	.141	.136	.139	.205	.039	.312	.135	.125	3	112	32	01103-00410
5/32"	.110	.173	.177	.245	.052	.250	.172	.063	3	184	36	01103-00508
	.437					.187		22				

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

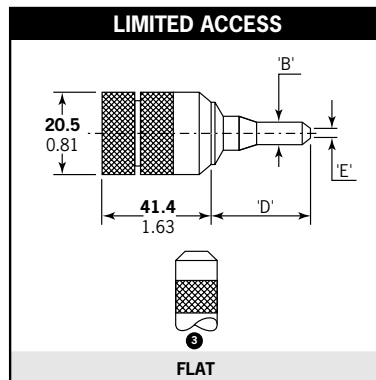
Briv[®], Chobert[®] & Grovit[®] Nose Equipment

Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación



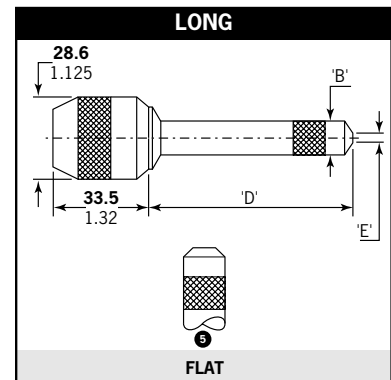
Applications with no or little access restrictions.
Pour applications ne présentant que peu ou pas de contraintes d'accès.

Für alle gut zugänglichen Nietpunkte.
Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.
Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.



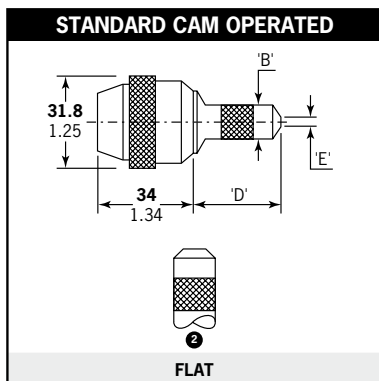
Allows access into very restrictive applications.
Permet d'accéder à des applications à accès très limité.

Für eng an den Bauteilseiten anliegende Nietpunkte.
Consente l'accesso ad applicazioni con serie restrizioni di accesso.
Permite el acceso en aplicaciones de acceso extremadamente limitado.



Allows more penetration into applications.
Permet une pénétration supérieure dans les applications sans autres contraintes d'accès.

Für tiefsitzende und eng an den Bauteilseiten anliegende Nietpunkte.
Consente una penetrazione maggiore nell'applicazione senza altre restrizioni di accesso.
Permite una mayor profundidad de acceso en aquellas aplicaciones sin restricción de acceso en anchura.



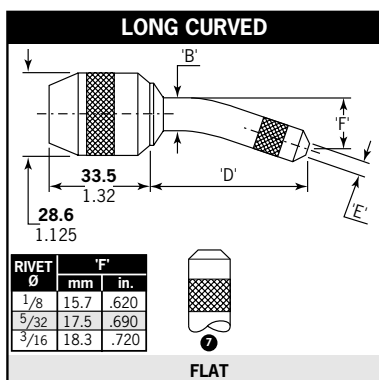
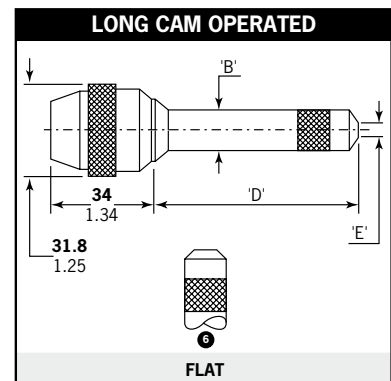
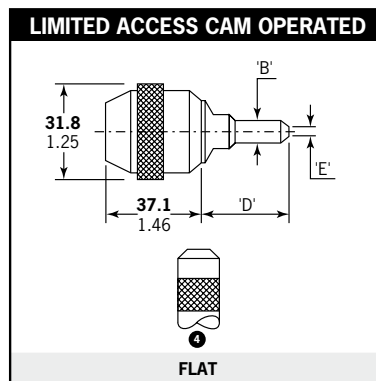
Nose equipment with addition of a twist cam to ease and speed up the nose jaw opening thus the pod reloading procedure.

Ensembles de nez avec, en plus, une came facilitant et accélérant l'ouverture du nez de pose, et donc le rechargement en fixations.

Zum leichteren Magazinieren haben diese Mundstücke durch einen Drehring zu öffnende Mundstückschnäbel.

Equipaggiamento con l'aggiunta di una camma per facilitare e rendere più veloce l'apertura della testata e pertanto la procedura di ricarica dell'astuccio portarivetti.

Boquillas que incorporan una leva para facilitar y hacer más rápida la apertura de la boquilla y el procedimiento de carga.



Allows more penetration into applications.

Permet une pénétration supérieure dans les applications à accès limité.

Für tiefsitzende und eng an den Bauteilseiten anliegende Nietpunkte.

Consente una penetrazione maggiore nelle applicazioni con restrizioni di accesso.

Permite una mayor penetración en las aplicaciones con acceso limitado.

Type

- ① - ⑦ Flat / Plat / Flach / Piatta / Plana
- ⑧ Tapered / Biseauté / Spitz / A punta / Conica
- ⑨ Universal / Universel / Für erhöhte Klammerkraft / Universale / concava
- ⑩ Recessed / En retrait / Spezial / Incassata / Apriete

Briv[®], Chobert[®] & Grovit[®] Nose Equipment

Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación

Ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Type	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Dimensiones		
					B	D	E
3/32"	Briv [®] / Chobert [®] / Grovit [®]	Standard	①	07150-03003	.36	1.30	.16
		Standard cam operated	②	07170-04500	.36	1.30	
		Limited access	③	07274-01000	.22	1.07	
		Limited access cam operated	④	07177-03003	.20	1.18	
		Standard tapered	⑧	07170-03103	.36	1.30	
1/8"	Briv [®] / Chobert [®] / Grovit [®]	Standard	①	07150-03004	.41	1.18	.20
		Standard cam operated	②	07170-04600		1.18	
		Long	⑤	07150-04004		2.18	
		Long cam operated	⑥	07170-05000		2.18	
		Long curved	⑦	07150-05004		2.12	
		Standard tapered	⑧	07170-03104		1.19	
	Double Flush Chobert [®]	Standard cam operated	②	07537-03100	1.15	.23	
5/32"	Briv [®] / Chobert [®] / Grovit [®]	Standard	①	07150-03005	.48	1.30	.24
		Standard cam operated	②	07170-04700		1.30	
		Long	⑤	07150-04005		2.30	
		Long cam operated	⑥	07170-05100		2.30	
		Long curved	⑦	07150-05005		2.23	
	Chobert [®] / Grovit [®]	Standard tapered	⑧	07150-03105	.44	1.30	
3/16"	Briv [®] / Chobert [®]	Standard	①	07150-03006	.56	1.18	.33
		Standard cam operated	②	07170-04800		1.18	
		Long	⑤	07150-04006		2.30	
		Long cam operated	⑥	07170-05200		2.30	
		Long curved	⑦	07150-05006		2.21	
	Chobert [®]	Standard tapered	⑧	07150-03106	1.18		
6.0 mm	Briv [®]	Standard	①	07170-05800	.64	1.21	.52
		Standard cam operated	②	07170-05600		1.21	
		Long	⑤	07170-05900		2.19	
		Long cam operated	⑥	07170-05700		2.19	
1/4"	Chobert [®]	Standard	①	07150-03008	.64	1.18	.39
		Standard cam operated	②	07170-04900		1.18	
		Long	⑤	07150-04008		2.18	
		Long cam operated	⑥	07170-05300		2.18	

Head forming Nose Equipment / a formage de tête / kopfformend / a formatura di testa / tipo de boquilla

3/32"	Briv [®] 1)	Standard	⑨	07150-03203	.36	1.33	.24
1/8"			⑩	07170-03004	.41	1.20	.30
			⑨	07150-03204		1.22	.32
5/32"			⑩	07170-03005	.48	1.32	.41
			⑨	07150-03205		1.35	
3/16"			⑩	07170-03006	.56	1.20	.47
			⑨	07150-03206		1.24	

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

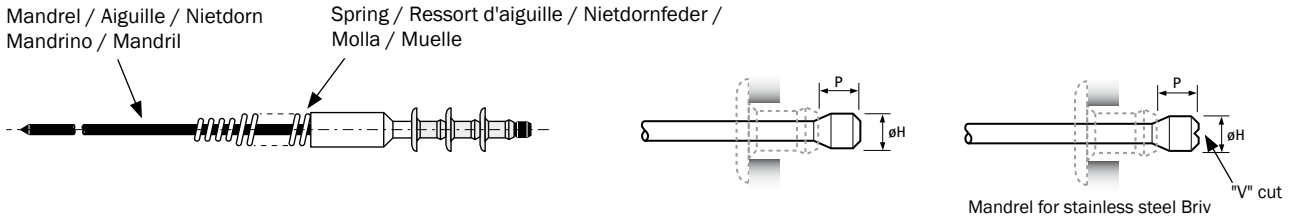
1) except stainless steel and countersunk / sauf inox et tête fraisée / außer Edelstahl und Senkkopf / eccetto acciaio inox e testa svasata / excepto acero inoxidable y cabeza avellanada


⑨ maximises clench but reduces grip range by approx. .015" / obtenir le plus fort serrage possible, mais la prise maximum se trouve réduite d'environ 0,4 mm / maximierte Klammerkraft bei Verringerung des Klemmbereiches um ca. .015" / ottiene la ribaditura più alta possibile, ma la distanza massima tra i centri dei rivetti viene ridotta di circa .015" / se alcanza un máximo apriete en la fijación, pero el espesor máximo se reduce en aproximadamente .015"

⑩ increases clench without affecting grip range / Augmente le sertissage sans influencer l'épeseur / erhöhte Klammerkraft bei gleichem Klemmbereich / aumenta la ribaditura (la presa di rivettatura) senza compromettere lo spessore / incrementa el apriete sin afectar al rango de espesores a remachar

Briv® Mandrel and Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn
Mandrini e Molle / Mandriles y Muelles



ø nom.		Description / description / Beschreibung / descrizione / descripción	ø H	P max.	Standard Nose Equipment Nez de pose Standard Standard-Mundstück Testata Standard Boquilla Estándar		Long Nose Equipment Nez de pose Long Langes Mundstück Testata Lunga Boquilla Larga	
					Mandrel Part No/ref	Spring Part No/ref	Mandrel Part No/ref	Spring Part No/ref
3/32" Brass, Aluminium	as rec.	Standard green	.072	.119	07150-06013	07150-06803 ¹⁾	N/A	N/A
	+ .004	1. oversize yellow	.076	.123	07150-06113			
	+ .008	2. oversize blue	.079	.126	07150-06213			
1/8" Brass, Aluminium, Steel	as rec.	Standard green	.092	.120	07271-06414	07150-06814	07271-07414	07150-07814
	+ .005	1. oversize yellow	.097	.126	07271-06514		07271-07514	
	+ .010	2. oversize blue	.102	.133	07271-06614		07271-07614	
1/8" Stainless Steel	as rec.	Standard green	.098	.121	07170-06804	07150-06814	07170-07804	07150-07814
	+ .005	1. oversize yellow	.103	.128	07170-06824		07170-07824	
5/32" Brass, Aluminium, Steel	as rec.	Standard green	.110	.136	07150-06015	07170-06875	07150-07015	07170-07875
	+ .005	1. oversize yellow	.115	.142	07150-06115		07150-07115	
	+ .010	2. oversize blue	.120	.149	07150-06215		07150-07215	
5/32" Stainless Steel	as rec.	Standard green	.120	.126	07170-06805	07170-06875	07170-07805	07170-07875
	+ .005	1. oversize yellow	.125	.132	07170-06825		07170-07825	
3/16" Brass, Aluminium, Steel	as rec.	Standard green	.141	.157	07150-06016	07170-06876	07150-07016	07170-07876
	+ .005	1. oversize yellow	.146	.164	07150-06116		07150-07116	
	+ .010	2. oversize blue	.151	.170	07150-06216		07150-07216	
	+ .012	3. oversize red	.153	.173	07150-06316		07150-07316	
3/16" Stainless Steel	as rec.	Standard green	.153	.150	07170-06806	07170-06876	07170-07806	07170-07876
	+ .005	1. oversize yellow	.158	.156	07170-06826		07170-07826	
6.0 mm Aluminium, Steel	as rec.	Standard green	.179	.165	07150-06018	07150-06846	07150-07018	07150-07846
	+ .005	1. oversize yellow	.184	.171	07150-06118		07150-07118	
	+ .010	2. oversize blue	.189	.177	07150-06218		07150-07218	

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

- 1) For use with standard flat nosepiece. For tapered nosepiece use spring 07170-06873 and for limited access nosepiece use 07170-06903.
 Pour utilisation avec nez de pose standard. Avec le nez de pose biseauté utilisez le ressort d'aiguille 07170-06873 et avec le nez de pose en retrait utilisez le 07170-06903.
 Für Verwendung mit Standard Mundstück flach. Bei spitzem Mundstück verwenden Sie Feder 07170-06873 und bei abgesetztem Mundstück Feder 07170-06903.
 Per uso con nasello standard a filo. Con nasello a punta usate molle 07170-06873 e con nasello incassata usate molle 07170-06903.
 Para uso con boquilla estándar plana. Con boquilla cónica utilizar muelle 07170-06873 y con boquilla de acceso limitado utilizar 07170-06903.

English	Français	Deutsch	Italiano	Español
Aluminium	Aluminium	Aluminium	Alluminio	Aluminio
Brass	Laiton	Kupfer-Zink Leg.	Ottone	Latón
Steel	Acier	Stahl	Acciaio	Acero
Stainless Steel	Inox	Edelstahl	Acciaio inox	Acero inoxidable
Standard green	Standard verte	Standard grün	Standard verde	Estándar verde
1. oversize yellow	1. surdimensionnée jaune	1. Übermaß gelb	1. maggiorazione giallo	1. sobremedida amarillo
2. oversize blue	2. surdimensionnée bleue	2. Übermaß blau	2. maggiorazione blu	2. sobremedida azul
3. oversize red	3. surdimensionnée rouge	3. Übermaß rot	3. maggiorazione rosso	3. sobremedida rojo

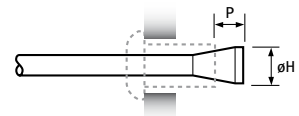
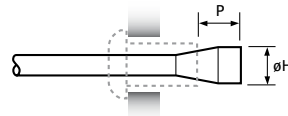
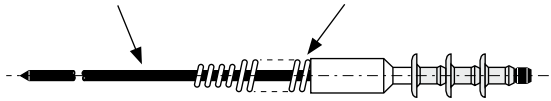
Chobert® & Grovit® Mandrel and Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn

Mandrini e Molle / Mandriles y Muelles

Mandrel / Aiguille / Nietdorn
Mandrino / Mandril

Spring / Ressort d'aiguille / Nietdornfeder /
Molla / Muelle



Short Reach (S/R) mandrel

ø nom.	Image of mandrel	Description / description / Beschreibung / descrizione / descripción	ø H	P max.	P S/R max.	Standard Nose Equipment Nez de pose Standard Standard-Mundstück Testata Standard Boquilla Estándar		Long Nose Equipment Nez de pose Long Langes Mundstück Testata Lunga Boquilla Larga	
						Mandrel ¹⁾ Part No/ref	Spring Part No/ref	Mandrel ³⁾ Part No/ref	Spring Part No/ref
3/32" Brass, Aluminium	as rec.	Standard green	.0725	.166	.071	07150-06003	07150-06803 ²⁾	07150-07003	07150-07803
	+ .0015	1. oversize yellow	.074	.174	.078	07150-06303 ¹⁾		S/R only =07150-09103	
	+ .0035	2. oversize blue	.076	.185	N/A	07150-06103		07150-07103	
1/8" Brass, Alum., Steel Chobert® / Grovit®	as rec.	Standard green	.088	.216	.090	07150-06004	07150-06804	07150-07004	07150-07804
	+ .004	1. oversize yellow	.092	.237	.098	07150-06104		07150-07104	
	+ .010	2. oversize blue	.098	.268	.110	07150-06204		07150-07204	
	+ .014	3. oversize red	.102	.288	.118	07150-06304		07150-07304	
3.2 (1/8") Double Flush Chobert®	as rec.	Standard green	.088	N/A	.090	07150-08004	07271-06630	N/A	N/A
	+ .004	1. oversize yellow	.092	N/A	.098	07150-08104			
	+ .010	2. oversize blue	.098	N/A	.110	07150-08204			
5/32" Brass, Alum., Steel	as rec.	Standard green	.107	.244	.100	07150-06005	07170-06875	07150-07005	07170-07875
	+ .008	1. oversize yellow	.115	.284	.116	07150-06105		07150-07105	
	+ .015	2. oversize blue	.122	.320	.130	07150-06205		07150-07205	
	+ .025	3. oversize red	.132	.372	.150	07150-06305		07150-07305	
3/16" Brass, Alum., Steel	as rec.	Standard green	.132	.247	.102	07150-06006	07170-06876	07150-07006	07170-07876
	+ .014	1. oversize yellow	.146	.320	.130	07150-06106		07150-07106	
	+ .024	2. oversize blue	.156	.372	.150	07150-06206		07150-07206	
1/4" Alum., Steel	as rec.	Standard green	.184	.268	.110	07150-06008	07150-06808	07150-07008	07150-07808
	+ .012	1. oversize yellow	.196	.330	.134	07150-06108		07150-07108	

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

- For S/R mandrel substitute 6 with 8 (07150-06xxx => 07150-08xxx), exception: 07150-06303 becomes 07150-08103.
Pour aiguille S/R remplacer 6 par 8 (07150-06xxx => 07150-08xxx), exception: 07150-06303 change à 07150-08103.
Für S/R Nietdorn ersetzen Sie 6 durch 8 (07150-06xxx => 07150-08xxx), Ausnahme: 07150-06303 wird zu 07150-08103.
Per mandrino S/R sostituire 6 con 8 (07150-06xxx => 07150-08xxx), eccezione: 07150-06303 cambia a 07150-08103.
Con mandril cono corto S/R cambiar 6 por 8 (07150-06xxx => 07150-08xxx), excepción: 07150-06303 cambia a 07150-08103.
- For use with standard flat nosepiece. For tapered nosepiece use spring 07170-06873 and for limited access nosepiece use 07170-06903.
Pour utilisation avec nez de pose standard. Avec le nez de pose biseauté utilisez le ressort d'aiguille 07170-06873 et avec le nez de pose en retrait utilisez le 07170-06903.
Für Verwendung m. Standard Mundstück flach. Bei spitzem Mundstück verwenden Sie Feder 07170-06873, bei abgesetztem Mundstück Feder 07170-06903.
Per uso con nasello standard a filo. Con nasello a punta usate molle 07170-06873 e con nasello incassata usate molle 07170-06903.
Para uso con boquilla estándar plana. Con boquilla cónica utilizar muelle 07170-06873 y con boquilla de acceso limitado utilizar 07170-06903.
- For S/R mandrel substitute 7 with 9 (07150-07xxx => 07150-09xxx)
Pour aiguille S/R remplacer 7 par 9 (07150-07xxx => 07150-09xxx)
Für S/R Nietdorn ersetzen Sie 7 durch 9 (07150-07xxx => 07150-09xxx)
Per mandrino S/R sostituire 7 con 9 (07150-07xxx => 07150-09xxx)
Con mandril cono corto S/R cambiar 7 por 9 (07150-07xxx => 07150-09xxx)

English	Français	Deutsch	Italiano	Español
Aluminium	Aluminium	Aluminium	Alluminio	Aluminio
Brass	Laiton	Kupfer-Zink Leg.	Ottone	Latón
Steel	Acier	Stahl	Acciaio	Acero
Stainless Steel	Inox	Edelstahl	Acciaio inox	Acero inoxidable
Standard green	Standard verte	Standard grün	Standard verde	Estándar verde
1. oversize yellow	1. surdimensionnée jaune	1. Übermaß gelb	1. maggiorazione giallo	1. sobremedida amarillo
2. oversize blue	2. surdimensionnée bleue	2. Übermaß blau	2. maggiorazione blu	2. sobremedida azul
3. oversize red	3. surdimensionnée rouge	3. Übermaß rot	3. maggiorazione rosso	3. sobremedida rojo

Rivscrow® 1722



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier à faible teneur en carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

* : BS 3111 Type 0, SAE 1008, DIN 1654 Qst 34-3

Option:

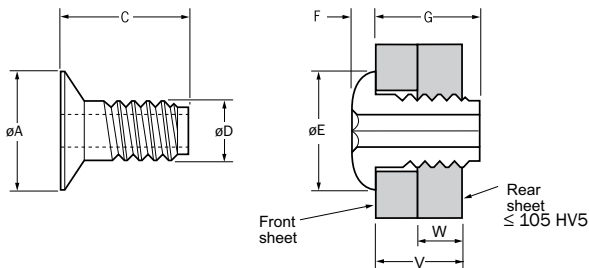
Rivscrow® fasteners are now available with a pre-formed head (the head is not formed from countersunk to dome during installation). For pre-formed variants substitute part number 01722 with 01772. Further details on request.

Les rivets Rivscrow® sont disponibles avec une tête de rivet préformée (la tête n'est pas formée durant la pose du rivet). Pour des variantes avec têtes préformées substituer les références 01722 par 01772. Plus de détails sur demande.

Rivscrow® Magazin-Blindniete sind jetzt auch mit vorgeformtem Kopf erhältlich (der Kopf wird nicht während der Verarbeitung aus einem Senkkopf geformt). Für vorgeformte Varianten ersetzen Sie Artikel-Nr. 01722 durch 01772. Weitere Details auf Anfrage.

I rivetti Rivscrow® sono adesso disponibili con la testa pre-formata (la testa non è plasmata da svasata a tonda durante l'installazione). Per varianti pre-formate sostituire il codice 01722 con 01772. Ulteriori dettagli su richiesta.

Los remaches Rivscrow® están ahora disponibles con cabeza alomada preformada (la cabeza durante la colocación no deforma de avellanada a alomada). Para esta versión la referencia 01722 se sustituye por la 01772. Más información bajo petición.

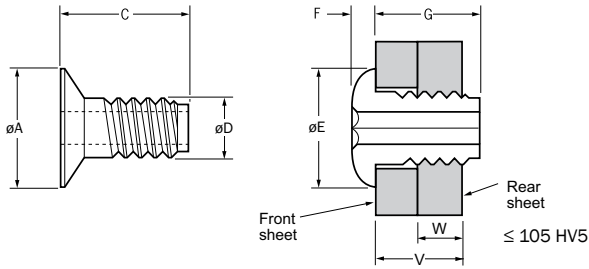


ø	ø D	Front sheet / pièce à fixer / oberes Bauteil / piastra frontale/ pieza anterior		Rear sheet / pièce support/ unteres Bauteil/ piastra posteriore / pieza posterior		A	C	W	V	E ¹⁾	F ¹⁾	G	Fasteners per pod/Nombre de rivets par chargeur/ Niete pro Ma- gazin/ Rivetti per caricatore / Uds./carga	Part No/ref		
		nom.	max.	min.	max.										min.	max.
2.8 mm	.1023	.116	.119	.103	.106	.230	.202	.064	.112	.240	.055	.157	62	01722-02806		
							.241						.151	.196	52	01722-02807
							.280						.190	.235	43	01722-02809
							.319						.229	.274	38	01722-02810
							.397						.307	.352	30	01722-02812
3.0 mm	.1107	.121	.124	.111	.114	.230	.202	.064	.112	.240	.055	.157	62	01722-03006		
							.241						.151	.196	52	01722-03007
							.280						.190	.235	43	01722-03009
							.319						.229	.274	38	01722-03010
							.359						.268	.314	34	01722-03011
							.397						.307	.352	30	01722-03012
							.515						.422	.467	23	01722-03016

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) see page 46 / voir page 46 / siehe Seite 46 / vedi pagina 46 / ver Pág. 46

Rivscrow® 1722



Ø	Ø D	Front sheet / pièce à fixer / oberes Bauteil / piastra frontale/ pieza anterior		Rear sheet / pièce support/ unteres Bauteil/ piastra posteriore / pieza posterior		A	C	W	V	E ¹⁾	F ¹⁾	G	Fasteners per pod/ Nbre de rivets par chargeur/ Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Part No/ref
		nom.	max.	min.	max.									
3.5 mm	.1215	.138	.141	.122	.125	.235	.202	.064	.112	.240	.055	.157	62	01722-03506
							.241		.151			.196	52	01722-03507
							.280		.190			.235	43	01722-03509
							.319		.229			.274	38	01722-03510
							.359		.268			.314	34	01722-03511
							.397		.307			.352	30	01722-03512
							.553		.463			.508	21	01722-03517
4.0 mm	.1415	.165	.168	.142	.145	.245	.202	.064	.112	.250	.055	.157	62	01722-04006
							.241		.151			.196	52	01722-04007
							.280		.190			.235	43	01722-04009
							.319		.229			.274	38	01722-04010
							.359		.268			.314	34	01722-04011
							.397		.307			.352	30	01722-04012
							.475		.385			.430	25	01722-04015

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) dimensions E and F are generated during the installation process and should only be used as an indication of the minimum space required

Les cotes E et F ne sont données qu'à titre et représentent l'encombrement maximal de la tête du Rivscrow après pose

Maße E und F werden während der Verarbeitung erzeugt und sollten nur als Anhaltspunkt für den minimalen Platzbedarf verwendet werden

Le dimensioni E e F sono generate durante il processo d'installazione e devono essere usate solo come un'indicazione del minimo spazio richiesto.

Las dimensiones E y F se conforman en el proceso de colocación y deben tomarse como orientativas para comprobar el espacio mínimo necesario.

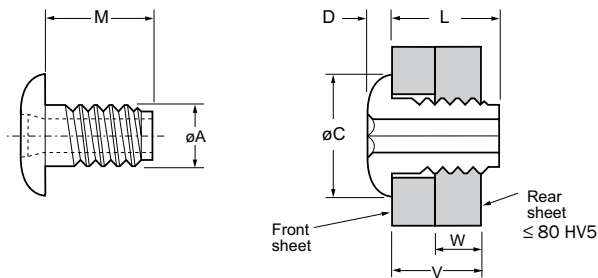
Ø			Hex Key Size / Dim. clef 6 pans/ Sechskantgröße/ Dim. chiave esagonale/ llave Allen
nom.	lbf	lbf	
2.8 mm	202	157	1/16"
3.0 mm	202	180	1/16"
3.5 mm	225	225	5/64"
4.0 mm	292	270	2.5 mm

Rivscrow® 1733



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier à faible teneur en carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincatura	Zincado
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente

* : BS 970 Type 0, SAE 1015, DIN 17111 Rst 38-2 Werkstoff 1.0401



ø	Front sheet / pièce à fixer / oberes Bauteil / piastra frontale / pieza anterior		Rear sheet / pièce support / unteres Bauteil / piastra posteriore / pieza posterior		M	ø C	D	W	V	L	Hex Key Size / Dim. clef 6 pans / Sechskant- größe / Dim. chiave esagonale / llave Allen	Fasteners per pod / Nombre de rivets par chargeur / Niete pro Ma- gazin / Rivetti per caricatore / Uds./carga ± 1	Part No/ref
	nom.	min.	max.	min.									
3/16" (4.8mm)	.193	.197	.177	.181	.327	.374	.067	.110	.256	.342	2.5 mm	28	01733-04810
					.522				.453	.531		19	01733-04816

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

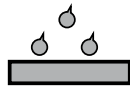
Rivscrow® PL 1742



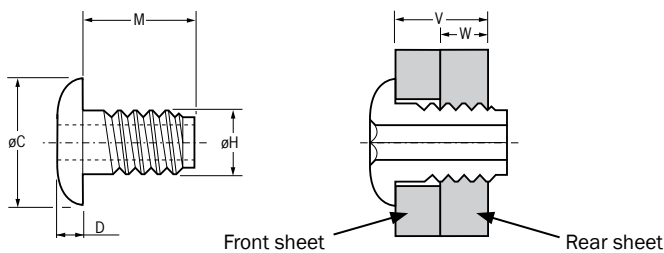
English	Français	Deutsch	Italiano	Español
Dome head	Tête bombée	Flachrundkopf	Testa tonda	Cabeza alomada
Low carbon steel*	Acier à faible teneur en carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated	Zingué	Verzinkt	Zincati	Zincado
Clear passivated	Passivé clair	Klar chromatiert	Passivati	Pasivado claro

* : BS 3111 Type 0, SAE 1008, DIN 1654 Qst 34-3

** : to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa / al óxido rojo (ASTM B117)



120 h**



Ø	Ø H		Front sheet / Pièce à fixer / oberes Bauteil / piastra frontale / pieza anterior		Rear sheet / Pièce support / unteres Bauteil / piastra posteriore / pieza posterior		ØC	D	M	W	V	Hex Key Size / Dim. clef 6 pans/ Sechskantgröße/ Dim. chiave esagonale / llave Allen	Part No/ref	
	nom.	min.	max.	min.	max.	min.								max.
3.0 mm	.1067	.1106	.129	.132	.111	.114	.244	.047	.273	.110	.215	1/16"	01742-03008	
									.398		.340			01742-03012
									.523		.465			01742-03016
3.5 mm	.1180	.1215	.139	.142	.122	.125	.244		.273	.110	.215	1/16"	01742-03508	
									.398		.340			01742-03512
									.523		.465			01742-03516
4.0 mm	.1295	.1334	.161	.164	.1338	.1368	.319		.273	.120	.215	5/64"	01742-04008	
									.398		.340			01742-04012
									.523		.465			01742-04016
4.5 mm	.1531	.1571	.194	.197	.1575	.1605	.319	.273	.120	.215	2.5 mm	01742-04508		
								.398		.340			01742-04512	
								.523		.465			01742-04516	

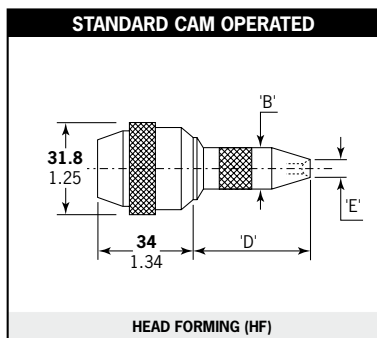
all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

Rivscrow® & Rivscrow® PL Nose Equipment

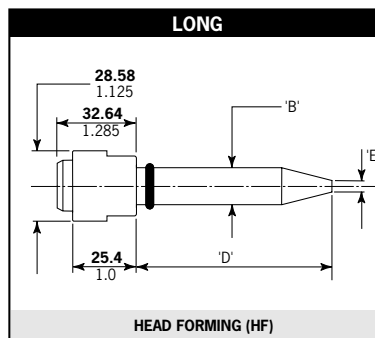
Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación

Rivscrow®

Head forming / a formage de tête / kopfformend / a formatura di testa / Tipo de boquilla

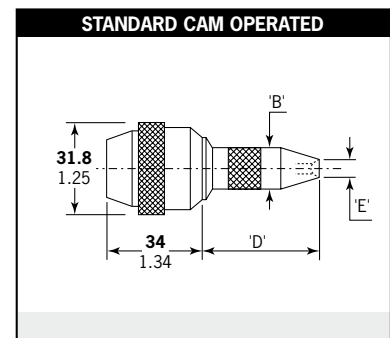


Applications with no or little access restrictions.
 Pour applications ne présentant que peu ou pas de contraintes d'accès.
 Für alle gut zugänglichen Nietpunkte.
 Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.
 Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.



Allows more penetration into applications.
 Permet une pénétration supérieure dans les applications sans autres contraintes d'accès.
 Für tiefsitzende und eng an den Bauteilseiten anliegende Nietpunkte.
 Consente una penetrazione maggiore nell'applicazione senza altre restrizioni di accesso.
 Permite una mayor profundidad de acceso en aquellas aplicaciones sin restricción de acceso en anchura.

Rivscrow® PL



Applications with no or little access restrictions.
 Pour applications ne présentant que peu ou pas de contraintes d'accès.
 Für alle gut zugänglichen Nietpunkte.
 Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.
 Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.

Ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Dimensiones		
				B	D	E
2.8 mm	Rivscrow®	Standard cam operated	07271-03000	.41	1.18	.24
		Long	07271-08600	.61	2.64	.25
3.0 mm		Standard cam operated	07271-03000	.41	1.18	.24
		Long	07271-08600	.61	2.64	.25
3.5 mm		Standard cam operated	07271-03500	.41	1.18	.24
		Long	07271-08700	.61	2.64	.25
4.0 mm		Standard cam operated	07271-04000	.41	1.18	.25
		Long	07271-08800	.61	2.64	.28
4.8 mm		Standard	07150-03006	.56	1.18	.33
		Long	07150-04006	.56	2.30	.33
3.0 mm	Rivscrow® PL	Standard cam operated	07271-03000	.41	1.18	.24
3.5 mm		Standard	07150-03005	.48	1.30	.24
4.0 mm						
4.5 mm						

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

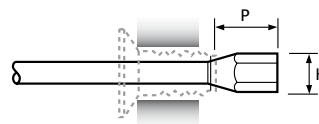
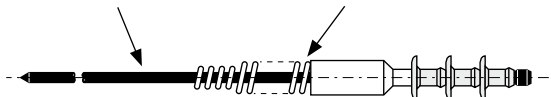
Rivscrew® & Rivscrew® PL Mandrel & Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn

Mandrini e Molle / Mandriles y Muelles

Mandrel / Aiguille / Nietdorn
Mandrino / Mandril

Spring / Ressort d'aiguille / Nietdornfeder /
Molla / Muelle



\emptyset	Nose Nez Mundstück Testata Boquilla	Description Description Beschreibung Descrizione Descripción	H A/F	P	Mandrel Aiguille Niedorn Mandrino Mandril	Spring Ressort d'aiguille Nietdornfeder Molla Muelle
nom.	Part No/ref.			max.	Part No/ref	Part No/ref
Rivscrew® 1722/1733						
2.8 mm	07271-03000	Standard cam operated	.065	.127	07271-06030	07271-06630
	07271-08600	Long			07271-07030	07271-07630
3.0 mm	07271-03000	Standard cam operated	.065	.127	07271-06030	07271-06630
	07271-08600	Long			07271-07030	07271-07630
3.5 mm	07271-03500	Standard cam operated	.0825	.132	07271-06035	07271-06635
	07271-08700	Long			07271-07035	07271-07635
4.0 mm	07271-04000	Standard cam operated	.103	.150	07271-06140	07271-06640
	07271-08800	Long			07271-07140	07271-07640
4.8 mm	07150-03006	Standard	.103	.150	07271-06140	07271-06640
	07150-04006	Long			07271-07140	07271-07640
Rivscrew® PL 1742						
3.0 mm	07271-03000	Standard cam operated	.065	.127	07279-06429	07271-06630
3.5 mm						
4.0 mm	07150-03005	Standard	.0825	.132	07271-06035	07271-06635
4.5 mm			.103	.150	07271-06140	07271-06640

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

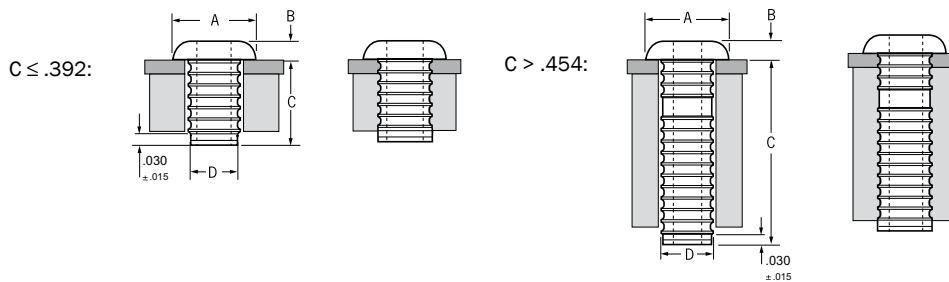
Avtronic® 1188


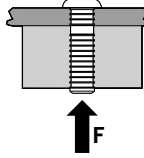


English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Brass*	Laiton*	Kupfer-Zink Legierung*	Ottone*	Latón*
Electro tin plated**	Etamage électrolytique**	verzinkt**	Stagnato**	Estañado electrolítico**

*: BS EN 12166 CW 508L DIN 17660 CuZn37

** : Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinkte Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.



ø			A	B	C	D	 ↑ F lbf ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./ carga ± 1	Part No/ref
	nom.	min.							
2.5 mm	.098	.102	.163	.037	.204	.0973	10	± 1	01188-02506
					.267				01188-02508
					.329				01188-02510
					.392				01188-02512
					.454				01188-02514
					.517				01188-02516
					.579				01188-02518
					.642				01188-02520
					.704				01188-02522
					2.8 mm				.110
.267	01188-02808								
.329	01188-02810								
.392	01188-02812								
.454	01188-02814								
.517	01188-02816								
.579	01188-02818								
.642	01188-02820								
.704	01188-02822								

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

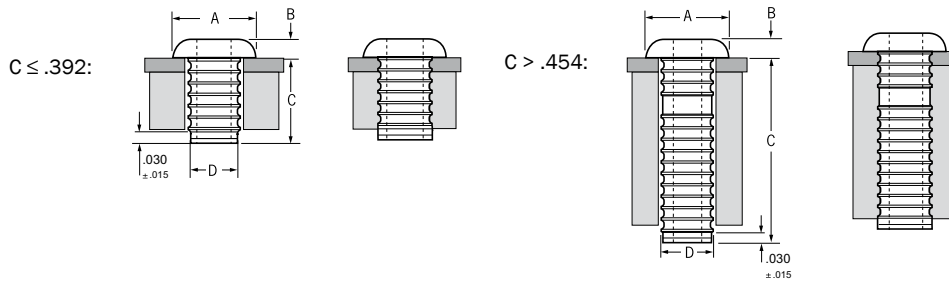
1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas


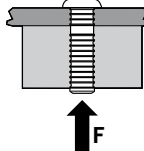
Avtronic® 1189



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Aluminium alloy* (5 % Mg)	Alliage d'aluminium* (5% Mg)	Aluminium* (5 % Mg)	Lega di alluminio* (5% Mg)	Aluminio* (5% Mg)
Natural	Brut	Blank	Nessuna finitura	Natural

*: BS 1473 5056A DIN 1725 AlMg5 Werkstoff 3.3555



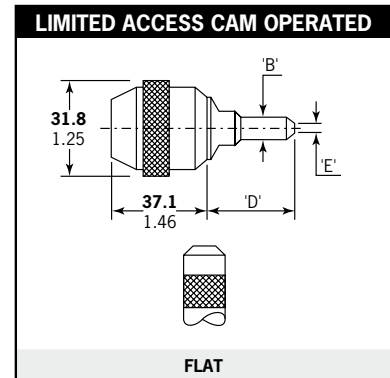
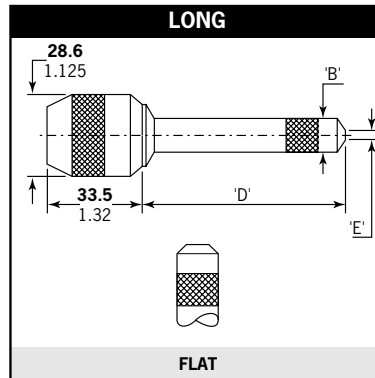
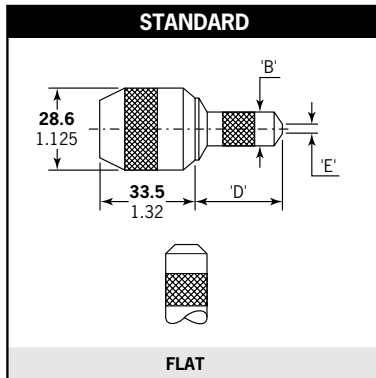
ø			A	B	C	D	 lbf ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin / Rivetti per caricatore / Uds./ carga	Part No/ref
	nom.	min.							
2.5 mm	.098	.102	.163	.037	.204	.0975	7	± 1	01189-02506
					.267				01189-02508
					.329				01189-02510
					.392				01189-02512
					.454				01189-02514
					.517				01189-02516
					.579				01189-02518
					.642				01189-02520
					.704				01189-02522
					2.8 mm				.110
.267	01189-02808								
.329	01189-02810								
.392	01189-02812								
.454	01189-02814								
.517	01189-02816								
.579	01189-02818								
.642	01189-02820								
.704	01189-02822								

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) typical values / valeurs moyennes / typische Werte / Valori tipici / resistencias máximas recomendadas

Avtronic® Nose Equipment

Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación



Applications with no or little access restrictions.
 Pour applications ne présentant que peu ou pas de contraintes d'accès.
 Für alle gut zugänglichen Nietpunkte.
 Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.
 Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.

Allows more penetration into applications.
 Permet une pénétration supérieure dans les applications sans autres contraintes d'accès.
 Für tiefsitzende und eng an den Bauteilseiten anliegende Nietpunkte.
 Consente una penetrazione maggiore nell'applicazione senza altre restrizioni di accesso.
 Permite una mayor profundidad de acceso en aquellas aplicaciones sin restricción de acceso en anchura.

Allows access into very restrictive applications.
 Permet d'accéder à des applications à accès très limité.
 Für eng an den Bauteilseiten anliegende Nietpunkte.
 Consente l'accesso ad applicazioni con serie restrizioni di accesso.
 Permite el acceso en aplicaciones de acceso extremadamente limitado.

Ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Dimensiones		
				B	D	E
2.5 mm	Avtronic®	Standard	07150-03003	.36	1.30	.16
		Long	07150-04003	.41	2.30	.16
		Limited Access	07271-08000	.41	1.18	.16
2.8 mm		Standard	07271-05600	.36	1.30	.16
		Long	07271-05900	.41	2.30	.16
		Limited Access	07271-08100	.40	1.18	.16

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

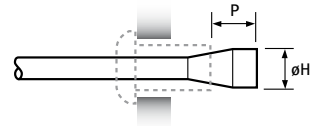
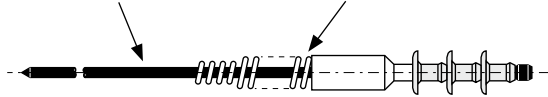
Avtronic® Mandrel & Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn

Mandrini e Molle / Mandriles y Muelles

Mandrel / Aiguille / Nietdorn
Mandrino / Mandril

Spring / Ressort d'aiguille / Nietdornfeder /
Molla / Muelle



nom.		Description / description / Beschreibung / descrizione / descripción 1)	ϕH	P	Standard Nose Equipment Nez de pose Standard Standard-Mundstück Testata Standard Boquilla Estándar		Long Nose Equipment Nez de pose Long Langes Mundstück Testata Lunga Boquilla Larga		Limited Access Equipment Nez d'accès limité Mundstück abgesetzt Testata Accesso limitato Boquilla Acceso limitado	
					Mandrel Part No/ref	Spring Part No/ref	Mandrel Part No/ref	Spring Part No/ref	Mandrel Part No/ref	Spring Part No/ref
2.5 mm	as rec.	Standard green	.070	.140	07170-06025		07170-07025		07170-06025	
	+ .003	1. oversize yellow	.073	.140	07170-06125	07150-06803	07170-07125	07150-07803	07170-06125	07150-06803
	+ .006	2. oversize blue	.076	.140	07170-06225		07170-07225		07170-06225	
2.8 mm	as rec.	Standard green	.079	.150	07170-06028		07170-07028		07170-06028	
	+ .003	1. oversize yellow	.082	.150	07170-06128	07170-06528	07170-07128	07170-07528	07170-06128	07170-06873
	+ .006	2. oversize blue	.085	.150	07170-06228		07170-07228		07170-06228	

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) Standard green / Standard verte / Standard grün / Standard verde / Estándar verde

1. oversize yellow / 1. surdimensionnée jaune / 1. Übermaß gelb / 1. maggiorazione giallo / 1. sobremedida amarillo

2. oversize blue / 2. surdimensionnée bleue / 2. Übermaß blau / 2. maggiorazione blu / 2. sobremedida azul

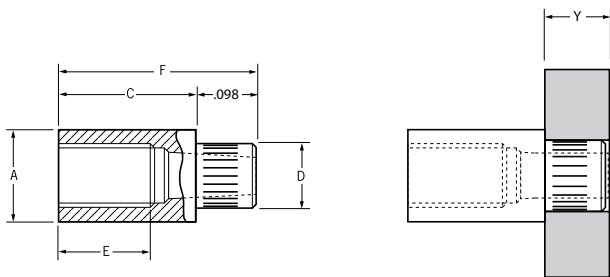
Avsert® 1117


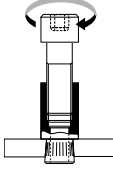


English	Français	Deutsch	Italiano	Español
Short spigot	Pion court	Kurzer Schaft	Piedino corto	Espiga corta
Brass*	Laiton*	Kupfer-Zink Legierung*	Ottone*	Latón*
Tin plated**	Etamé**	verzinkt**	Stagnato**	Estañado**

*: CuZn38Pb1.5 (ROHS conform)

** : ROHS conform; Avdel recommends tin plated parts are installed within 24 months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 24 mois après la date de production / Avdel empfiehlt, verzinnte Niete innerhalb 24 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro 24 mesi a decorrere dalla data di fabbricazione/ Avdel recomienda utilizar sus piezas estañadas antes de 24 meses desde la fecha de su fabricación.



Ø	Y				A	C	D	E	F	 lbf in max. ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur/ Niete pro Magazin/ Rivetti per carica- tore / Uds./carga	Part No/ref
	nom.	min.	max.	min.								
M2.5 x 0.45	.032	.079	.106	.110	.159	.217	.106	.134	.315	7.52	36	01117-06555
						.236		.153	.334		34	01117-06560
						.276		.193	.374		30	01117-06570
						.315		.232	.413		27	01117-06580
						.354		.232	.458		25	01117-06590
M3 x 0.5	.032	.079	.130	.134	.191	.217	.129	.134	.315	12.21	36	01117-07055
						.236		.153	.334		34	01117-07060
						.276		.193	.374		30	01117-07070
						.315		.232	.413		27	01117-07080
						.354		.232	.458		25	01117-07090

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) As tested in .059" thick glass fibre reinforced board to specification NEMA-L11-1971 Type FR4.

Testé dans circuit imprimé fibre / époxy 15/10 selon NEMA-L11-1971 type FR4.

Getestet in .059" starker glasfaserverstärkter Leiterplatte nach Spezifikation NEMA-L11-1971 Typ FR4.

Testato in un circuito rinforzato con fibra di vetro di .059" come da specifica NEMA-L11-1971 tipo FR4.

Testado en una tarjeta reforzada con fibra de vidrio de .059".

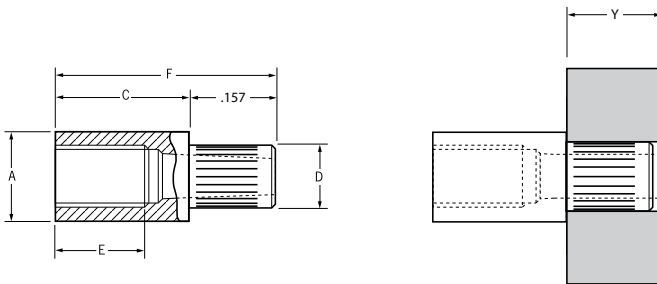
Avsert® 1118


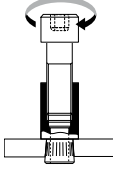


English	Français	Deutsch	Italiano	Español
Long spigot	Pion long	Langer Schaft	Piedino lungo	Espiga larga
Brass*	Laiton*	Kupfer-Zink Legierung*	Ottone*	Latón*
Tin plated**	Etamé**	verzinkt**	Stagnato**	Estañado**

*: CuZn38Pb1.5 (ROHS conform)

** : ROHS conform; Avdel recommends tin plated parts are installed within 24 months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 24 mois après la date de production / Avdel empfiehlt, verzinnte Niete innerhalb 24 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro 24 mesi a decorrere dalla data di fabbricazione/ Avdel recomienda utilizar sus piezas estañadas antes de 24 meses desde la fecha de su fabricación.



ø	Y				A	C	D	E	F	 lbf in max. ¹⁾	Fasteners per pod/ Nombre de rivets par chargeur/ Niete pro Magazin/ Rivetti per carica- tore / Uds./carga	Part No/ref
	nom.	min.	max.	min.								
M2.5 x 0.45	.032	.094	.106	.110	.159	.217	.106	.134	.374	8.50	30	01118-06555
						.236		.153	.393		29	01118-06560
						.276		.193	.433		26	01118-06570
						.315		.232	.472		24	01118-06580
						.354		.232	.512		22	01118-06590
M3 x 0.5	.032	.094	.130	.134	.191	.217	.129	.134	.374	13.45	30	01118-07055
						.236		.153	.393		29	01118-07060
						.276		.193	.433		26	01118-07070
						.315		.232	.472		24	01118-07080
						.354		.232	.512		22	01118-07090

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) As tested in .059" thick glass fibre reinforced board to specification NEMA-L11-1971 Type FR4.

Testé dans circuit imprimé fibre / époxy 15/10 selon NEMA-L11-1971 type FR4.

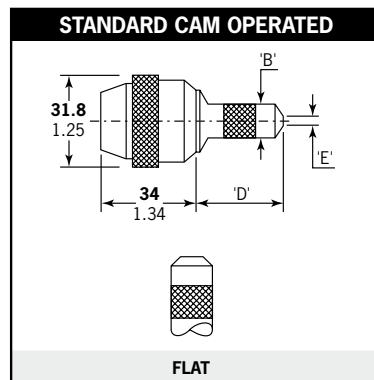
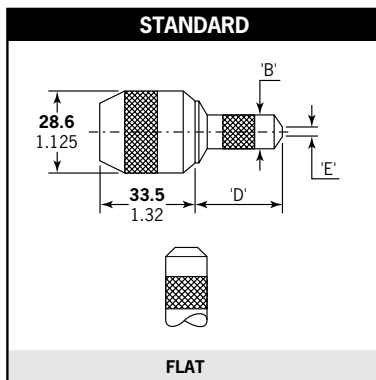
Getestet in .059" starker glasfaserverstärkter Leiterplatte nach Spezifikation NEMA-L11-1971 Typ FR4.

Testato in un circuito rinforzato con fibra di vetro di .059" come da specifica NEMA-L11-1971 tipo FR4.

Testado en una tarjeta reforzada con fibra de vidrio de .059".

Avsert® Nose Equipment, Mandrel & Spring Information

Ensembles de nez, Aiguilles et Ressorts d'aiguille / Mundstücke, Nietdorne u. -federn
Equipaggiamento, Mandrini e Molle / Equipos de colocación, Mandriles y Muelles



Applications with no or little access restrictions.
Pour applications ne présentant que peu ou pas de contraintes d'accès.

Für alle gut zugänglichen Nietpunkte.

Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.

Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.

Nose equipment with addition of a twist cam to ease and speed up the nose jaw opening thus the pod reloading procedure.

Ensembles de nez avec, en plus, une came facilitant et accélérant l'ouverture du nez de pose, et donc le rechargement en fixations.

Zum leichteren Magazinieren haben diese Mundstücke durch einen Drehring zu öffnende Mundstückschnäbel.

Equipaggiamento con l'aggiunta di una camma per facilitare e rendere più veloce l'apertura della testata e pertanto la procedura di ricarica dell'astuccio portarivetti.

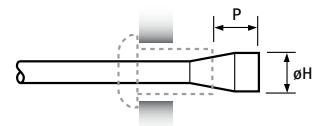
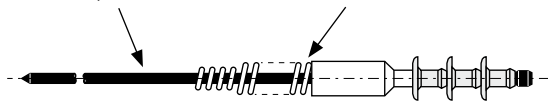
Boquillas que incorporan una leva para facilitar y hacer más rápida la apertura de la boquilla y el procedimiento de carga.

ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Di- mensiones		
				B	D	E
M2.5 x 0.45	Avsert®	Standard	07150-03003	.36	1.30	.16
M3 x 0.5		Standard	07150-03004	.41	1.18	.20
		Standard cam operated	07170-04600			

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

Mandrel / Aiguille / Nietdorn
Mandrino / Mandril

Spring / Ressort d'aiguille / Nietdornfeder /
Molla / Muelle



ø nom.	Description Description Beschreibung Descrizione Descripción	ø H	P max.	Standard Nose Equipment Nez de pose Standard Standard-Mundstück Testata Standard Boquilla Estándard	
				Mandrel Part No/ref	Spring Part No/ref
M2.5 x 0.45	as rec.	.0725	.145	07150-06003	07150-06803
M3 x 0.5	as rec.	.088	.185	07150-06004	07150-06804

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

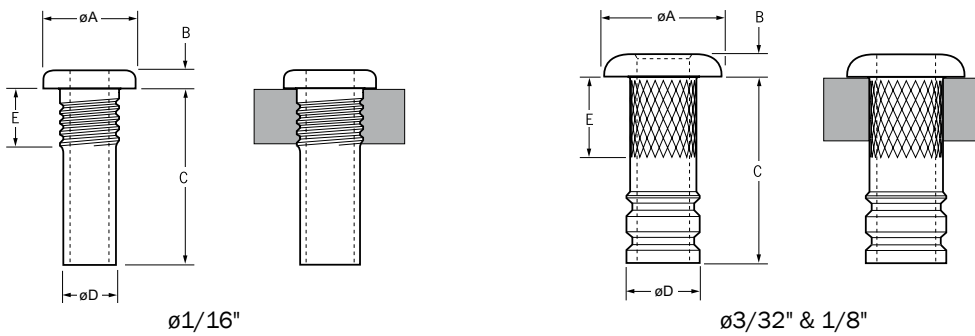
Avlug® 1107




English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Brass*	Laiton*	Kupfer-Zink Legierung*	Ottone*	Latón*
Tin plated**	Etamé**	verzinkt**	Stagnato**	Estañado**

*: BS EN 12166 CW 508L DIN 17660 CuZn37

** : Avdel recommends tin plated parts are installed within nine months from the date they were produced / Avdel conseille d'utiliser les pièces en laiton étamé sous un délai de 9 mois après la date de production / Avdel empfiehlt, verzinkte Niete innerhalb 9 Monaten nach Produktionsdatum zu verarbeiten / Avdel raccomanda di utilizzare i prodotti stagnati entro nove mesi a decorrere dalla data di fabbricazione / Avdel recomienda utilizar sus piezas estañadas antes de nueve meses desde la fecha de su fabricación.

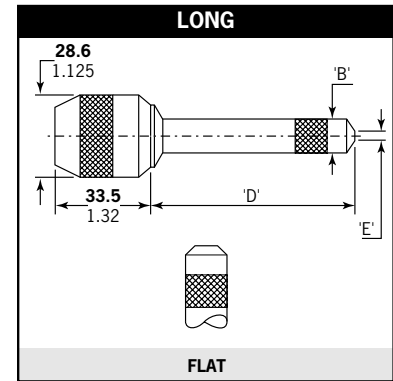
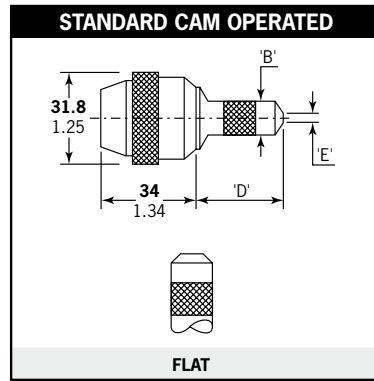
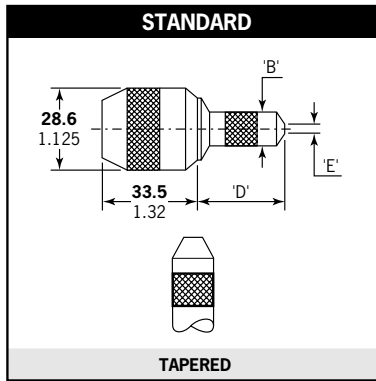


Ø			ØA	B	C	ØD	E	No. of grooves / cannelures / Rillen / rigature / aros	Fasteners per pod/ Nombre de rivets par chargeur / Niete pro Magazin/ Rivetti per caricatore / Uds./carga	Part No/ref
	nom.	min.								
1/16"	.071	.076	.110	.024	.162	.0703	.080	4	62	01107-00205
					.256					42
3/32"	.103	.108	.163	.037	.329	.1023	.135	2	33	01107-00310
					.392					3
1/8"	.133	.138	.217	.045	.392	.1323	.135	3	26	01107-00412

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

Avlug® Nose Equipment

Ensembles de nez / Mundstücke / Equipaggiamento / Equipos de colocación



Applications with no or little access restrictions.
 Pour applications ne présentant que peu ou pas de contraintes d'accès.
 Für alle gut zugänglichen Nietpunkte.
 Adatta per applicazioni senza restrizioni di accesso o con restrizioni di accesso limitate.
 Apta para aquellas aplicaciones sin ninguna o pocas restricciones de acceso.

Nose equipment with addition of a twist cam to ease and speed up the nose jaw opening thus the pod reloading procedure.
 Ensembles de nez avec, en plus, une came facilitant et accélérant l'ouverture du nez de pose, et donc le rechargement en fixations.
 Zum leichteren Magazinieren haben diese Mundstücke durch einen Drehring zu öffnende Mundstückschnäbel.
 Equipaggiamento con l'aggiunta di una camma per facilitare e rendere più veloce l'apertura della testata e pertanto la procedura di ricarica dell'astuccio portarivetti.
 Boquillas que incorporan una leva para facilitar y hacer más rápida la apertura de la boquilla y el procedimiento de carga.

Allows more penetration into applications.
 Permet une pénétration supérieure dans les applications sans autres contraintes d'accès.
 Für tiefsitzende und eng an den Bauteilseiten anliegende Nietpunkte.
 Consente una penetrazione maggiore nell'applicazione senza altre restrizioni di accesso.
 Permite una mayor profundidad de acceso en aquellas aplicaciones sin restricción de acceso en anchura.

Ø nom.	Fastener / Rivets / Niettyp / Rivetti / Remaches	Nose Equipment / Nez de pose / Mundstück / Testata / Boquilla /	Part No/ref	Dimensions / Dimension / Abmessungen / Dimensioni / Dimensiones		
				B	D	E
1/16 ⁽¹⁾	Avlug®	Standard	07154-03102	.215	1.06	.105
3/32"		Standard	07150-03003	.360	1.30	.160
		Standard cam operated	07170-04500			
		Standard tapered	07150-03103			
1/8"		Long	07150-04003	.410	2.30	.200
		Standard	07150-03004	.410	1.18	
		Standard cam operated	07170-04600		1.19	
		Standard tapered	07170-03104		2.18	
Long		07150-04004				

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

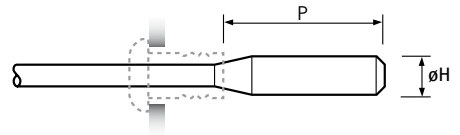
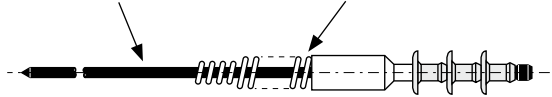
1) Installation only with handtool type 7536 / Outil de pose model 7536 seulement / Verarbeitung nur mit Druckluftgerät Typ 7536 /
 Piazzamento solo con attrezzo modello 7536 / Colocación solo con máquina modelo 7536

Avlug® Mandrel & Spring Information

Aiguilles et Ressorts d'aiguille / Nietdorne und -federn
Mandrini e Molle / Mandriles y Muelles

Mandrel / Aiguille / Nietdorn
Mandrino / Mandril

Spring / Ressort d'aiguille / Nietdornfeder /
Molla / Muelle



ø	Description / description / Beschreibung / descrizione / descripción 2)	ø H	P	Standard Nose Equipment Nez de pose Standard Standard-Mundstück Testata Standard Boquilla Estándard		Long Nose Equipment Nez de pose Long Langes Mundstück Testata Lunga Boquilla Larga		
				Mandrel Part No/ref	Spring Part No/ref	Mandrel Part No/ref	Spring Part No/ref	
1/16" ¹⁾	as rec.	Standard green	.051	.354	07154-06602	07154-06802	N/A	N/A
	+ .005	1. oversize yellow	.056	.380	07155-06702			
3/32"	as rec.	Standard green	.076	.353	07150-06603	07150-06803	07150-07603	07150-07803
	+ .005	1. oversize yellow	.081	.478	07150-06703		07150-07703	
1/8"	as rec.	Standard green	.098	.593	07150-06604	07150-06804	07150-07604	07150-07804

all dimensions in inches / en pouces / alle Maße in Zoll / in pollici / en pulgadas

1) Installation only with handtool type 7536 / Outil de pose model 7536 seulement / Verarbeitung nur mit Druckluftgerät Typ 7536 /
Piazzamento solo con attrezzo modello 7536 / Colocación solo con máquina modelo 7536

2) Standard green / Standard verte / Standard grün / Standard verde / Estándar verde

1. oversize yellow / 1. surdimensionnée jaune / 1. Übermaß gelb / 1. maggiorazione giallo / 1. sobremedida amarillo