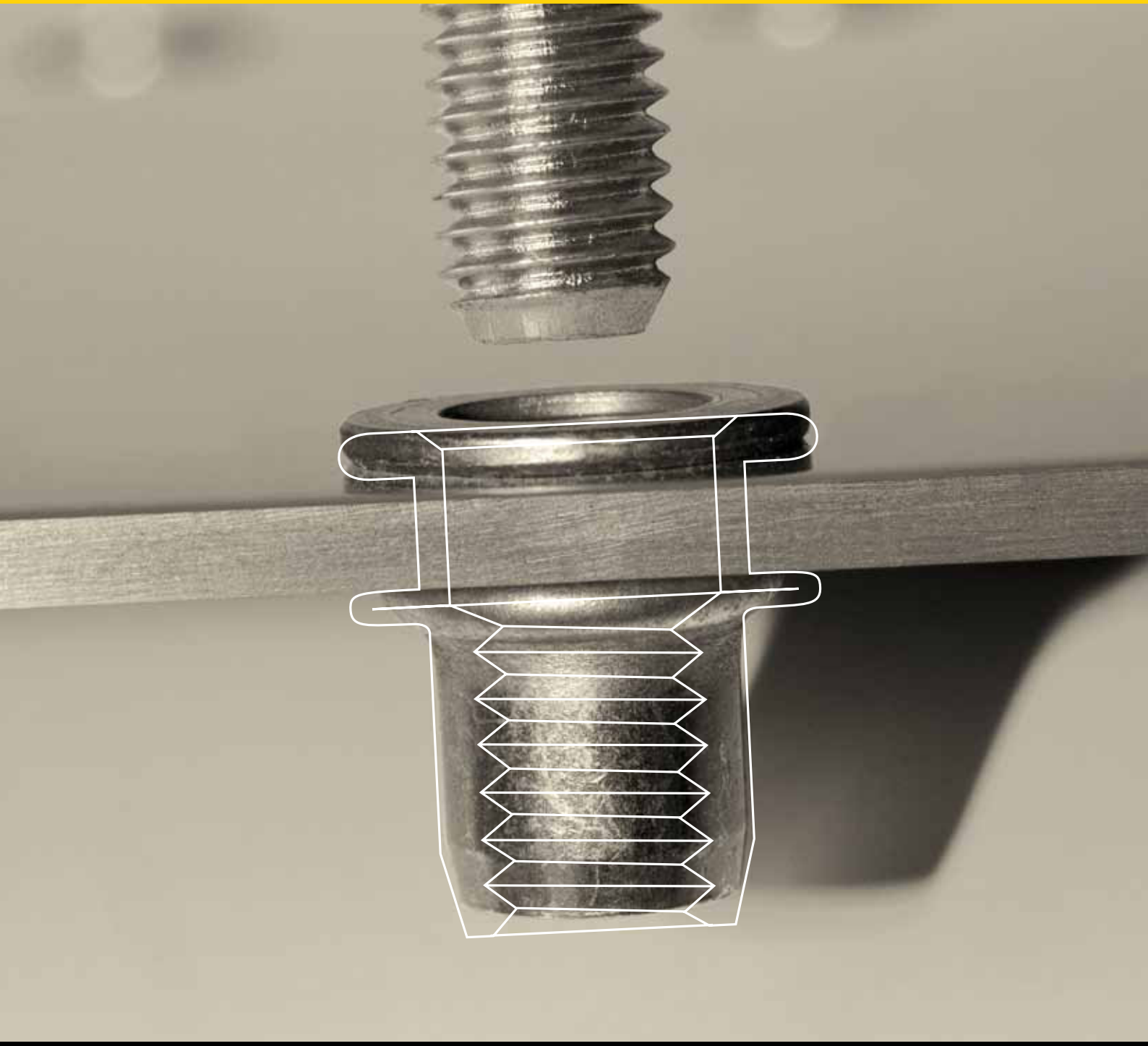
STANLEY®
Engineered Fastening

Rivetwise



Blind Rivet Nuts

POP® Avdel®

Blind Rivet Nuts

Easily adaptable for your materials and production processes.

Performance Fasteners For Versatile Assembly

Everywhere that you need to join components reliably and efficiently the POP Avdel product range offers innovative fastening systems and the most suitable installation tools and assembly stations.

Wherever you need high quality, load bearing threads in thin materials, POP Avdel Blind Rivet Nut Systems offer the ideal solution.

Installation

Quickly and reliably installed without rework or damage to the parent application, even with painted sheet materials and tubes where there is no blind side access.

Applications

Our blind rivet nuts are most commonly used in the automotive, vehicle, electronics chassis manufacturing, equipment manufacturing and shipbuilding industries. The wide variety of POP Avdel blind rivet nuts provides perfect engineering results and economic solutions in every application.

Mission

STANLEY Engineered Fastening provides assembly systems that simplify your production process and improve the quality of your products. We are not just a provider of fasteners and equipment, together we are a design and development partner for our customers engineering teams.

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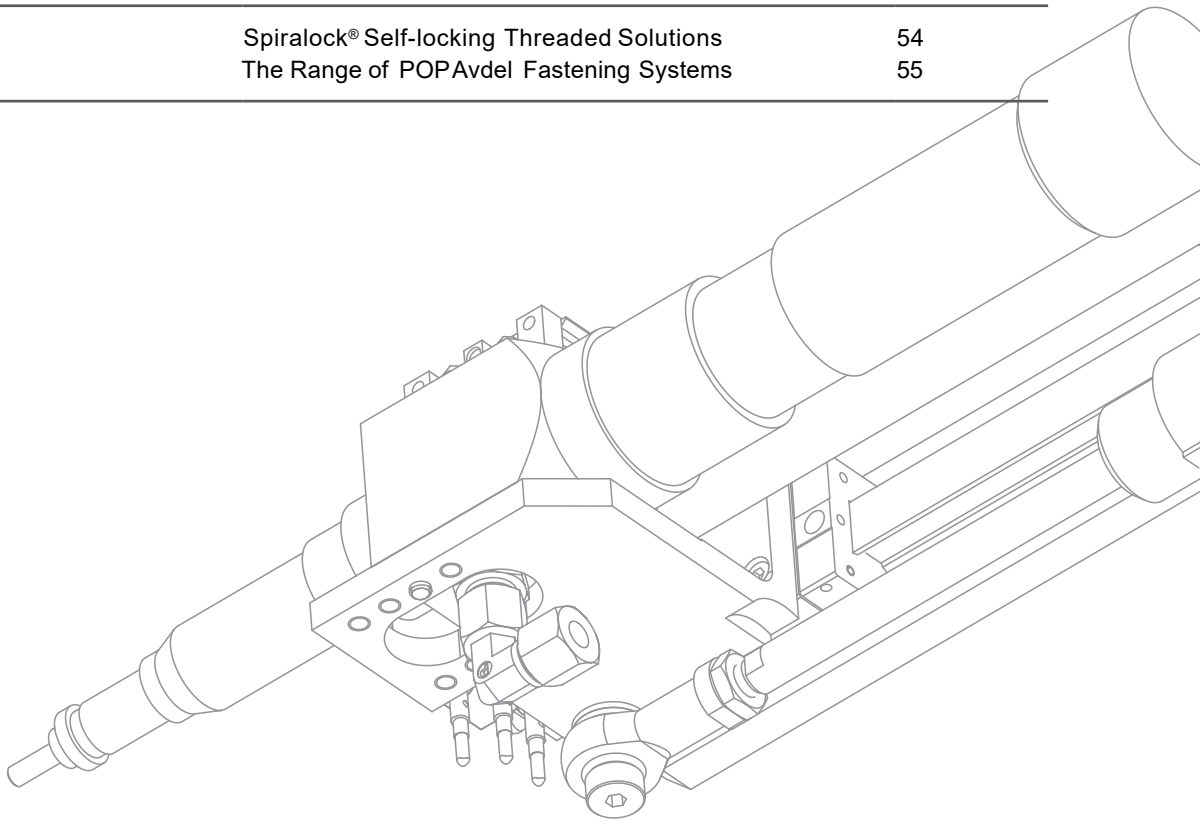


Blind Rivet Nuts

POPAvdel blind rivet nuts and installation tools provide a quick, reliable and low cost system of inserting high quality, load bearing threads in thin gauge materials. Our rivet nuts offer many benefits over nuts and bolts, weld nuts, self-tapping screws and pressed inserts.

Benefits of Assembly

Blind sided assembly

Access is needed to only one side of the workpiece. This results in increased speed of assembly, lower assembly costs, reduced operator error and is ideal for assembly of box or closed sections.

Purely mechanical fastening

POPAvdel blind rivet nuts can be used to join dissimilar materials. They avoid damage of surface coatings and thus can be installed in pre- as well as in post finished applications. The workpiece is not affected by a welding process.

Designed for rapid rate of installation

The typical assembly cycle of 3 seconds reduces assembly time and costs.

Forms a permanent fixture in material

POPAvdel rivet nuts deliver a vibration resistant joint without requiring maintenance.

Multi-functional fastener

POPAvdel rivet nuts feature multi functions: they provide a female thread in sheet while giving the opportunity to clamp two or more sheets at the same time; can act as a spacer – resulting in fewer components required.

Suitable for a wide range of installation tools

The possibilities for installation range from hand tools for small batch and repair work and pneumatic tools for medium volume up to full automation for in-line assembly.

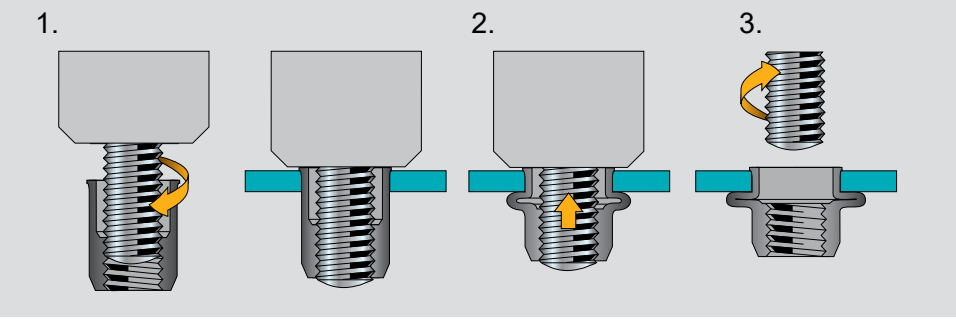
Designed for automation

POPAvdel blind rivet nuts can be installed fully automatically resulting in a high speed and precision assembly. The set up costs are lower compared to welding equipment.

The benefits of ‚spin-pull' technology

STANLEY Engineered Fastening offers a highly cost effective and flexible range of hand operated power tools for placing blind rivet nuts. The range is designed to meet the needs of different applications and assembly environments as well as different types of rivet nuts. POPAvdel Blind Rivet Nut Power Tools use the 'spin-pull' technology with these benefits:

- Generates high pull forces required to place large diameter and thick wall rivet nuts
- Reduces wear on the drive screw resulting in lower maintenance and longer tool lifetime
- Compact, ergonomically designed tools which can be suspended or hand held
- Allows placement of lubricated and unlubricated rivet nuts



1. The rivet nut is automatically threaded onto the drive screw.
2. On activating the tool, the rivet nut is pulled towards the tool, forming the body radially outwards to clench tightly against the workpiece.
3. The drive screw of the tool reverses and is disengaged from the thread leaving the rivet nut securely in position.

Benefits of Assembly

The benefits of ‚pull-to-force‘ technology

Some of the POPAvdel power installation tools feature the pull-to-force technology which means that the tools always use the appropriate stroke required, allowing the operator to set the same insert in varying material thicknesses. Key benefits include:

- Improves cycle time as optimum stroke is always delivered
- Achieves consistent setting every time in varying application conditions

Ground Transportation

- Clamps securely into parent material giving high resistance to vibration and attendant loosening of joint
- Ideal for joining dissimilar materials (e.g. aluminium to plastic sections) in addition to providing a female thread
- Particularly suitable for installing threads into closed sections where there is no access to blind side
- Available in high corrosion resistant coatings such as zinc-nickel to conform to increasing corrosion warranty periods
- Lower cost and less hazardous alternative to weld nuts, with far less damage to parent material
- Can easily be installed after paint finish is applied to avoid clogging threads, unlike weld nuts
- Quick and flexible placement possible in confined areas using hand tools
- Will not deform, distort or damage parent material, even if this is painted prior to installation
- Colour of rivet nut can be modified to match parent material or improve appearance of assembly

Electronic and Electrical Equipment

- Closed end rivet nuts prevent ingress of water and foreign bodies into electrical circuits
- No risk of nuts coming loose or falling on to circuitry
- Rivet nuts can act as an earthing point
- Forms permanent fixing in parent material allowing easier panel removal and replacement compared to nut and bolt fixings
- Multi-functionality of thread, rivet and flange-spacer combined, offers space and weight advantages over other attachment methods

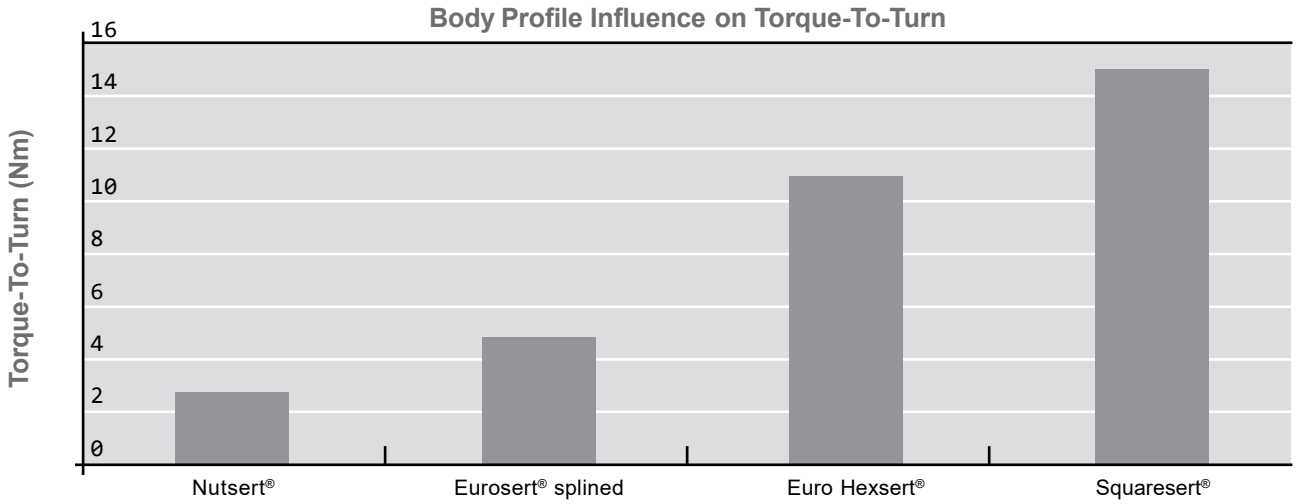
Design Features and Benefits

Design Feature	Design Benefits	Typical Applications
Splined Body 	• Improves torque-to-turn resistance in softer materials such as aluminium when compared to plain body rivet nuts • Improved electrical continuity in sheet metal fixings	• Soft materials such as aluminium, magnesium, plastics, composites and wood • Earthing points in electrical assemblies
Hexagonal Body 	• Hexagonal section and bore improves torque-to-turn in components via form lock when compared to round and splined rivet nuts	• Automotive chassis components requiring high resistance to turning under vibrating loads • Where high bolt removal torque is required during servicing (e.g. switchgear cabinets) • Thermal applications prone to high expansion and contraction in parent material
Square Body 	• Square section and bore improves torque-to-turn in components via form lock due to even greater contact surface compared to round and splined rivet nuts • Increased hole punch life compared to hexagonal geometries	• Automotive body mountings requiring maximum turning resistance • Soft material constructions, particularly for plastics, composites and soft sheet metals
Large Flange 	• Provides large load bearing surface • Reinforces hole, preventing push through • Potential to use flange as a spacer • Can be used with underhead seal (e.g. Rimlex®)	• Load bearing applications in thin sheet and soft material applications • Mountings where high push-out resistance is required (e.g. adjustable foot mountings)
Low Profile 	• Near flush installation and clamp up	• Flush fitting, thin sheet, low load bearing applications (e.g. domestic appliances and coach building)
Countersunk 	• Flush installation and secure clamp up	• Flush fitting, thin sheet, low load bearing applications (e.g. domestic appliances and coach building)
Closed End 	• Prevents ingress of dirt and fluids into thread • Prevents ingress of water and foreign bodies into electrical circuits	• Electrical assemblies to prevent foreign bodies being inserted through open thread • Load bearing sections to avoid thread exposure • With underhead seal (Rimlex®) to prevent ingress of fluids and dirt into protected environment (e.g. fuel tank)
Reduced Tail End Diameter 	• Ease of hole entry • Particularly suited for automation	• Automated feed systems • Rapid manual assembly
Increased Thread Strength 	• Improves the maximum torque capability by typically 100% compared to standard Hexsert® • No risk of thread-stripping insert, avoiding expensive and time consuming re-work • Potential to downsize rivet nut and screw diameter for a given joint clamp load	• Structural automotive fixings into closed aluminium extrusions and hydro-formed steel tubes • High strength threads into thin, hardened steel pressings unsuited to welding • Any application where routine screw removal and reghtening without torque control is likely
Slotted Body 	• Forms four folded legs providing an extra large blind side bearing area	• Use with composites and plastics, reducing risk of cracking around the hole
Neoprene Body 	• Provides an excellent vibration-isolating effect to absorb vibration and noise • Ability to seal liquids and gases • Exhibits excellent electrical insulation properties	• Automotive • Agriculture machinery • Recreational vehicles • Electronic components

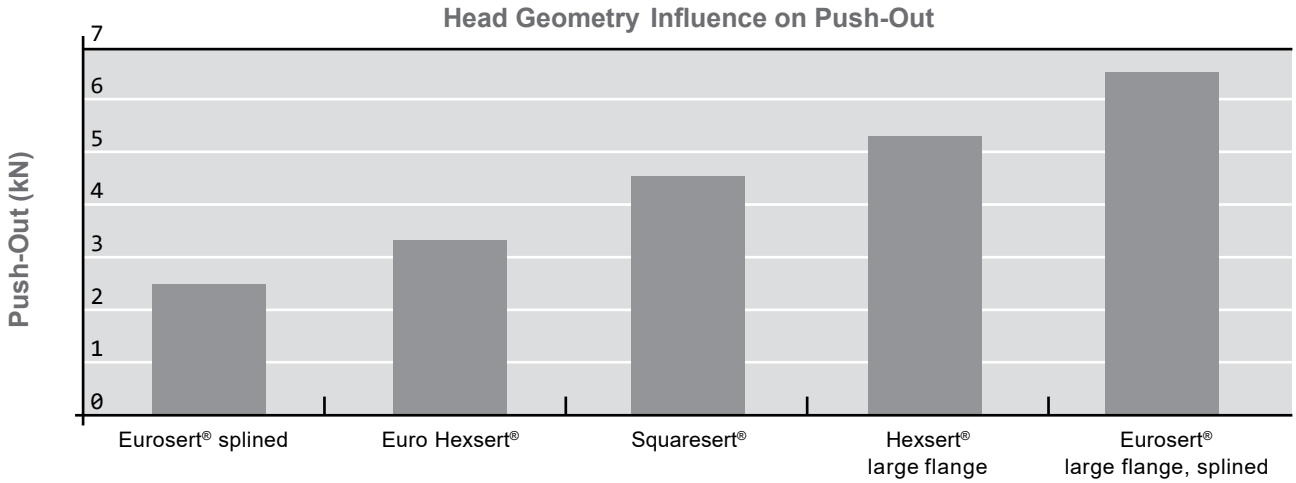
Customised Designs

Modified Feature		Typical Usesand Benefits
Flange Diameter		• Greater diameter increasespush-out force and hole reinforcement in soft and thin gauge metals
Flange Thickness		• Thicker flange acts as a spacer and provides a slight increase in push-out force
Nut Length		• Greater length acts as a blind side spacer and increasesthread strength
Body Diameter		• Greater body diameter increasesthread strength, torque-to-turn and push-out force • Particularly suitable where the designer wishesto retain a large hole sizefor a small thread
Grip Range		• Increasein grip is required to accommodate thick wall constructions suchas those using aluminium, magnesium, plastics and composites
Special Cold Formed Products		• In high volumes, these can offer significant cost savings compared to equivalent machined components • Designspossibleto very high tolerances for use with your own tooling
Coatings		• Special finishes can improve corrosion resistance, appearance and colour match with parent materials
Surface Hardening		• Treatments suchasnitriding increasethread torque strength
Closed Ends and Underhead Seals		• Providesmaximum protection against the ingressof moisture and dirt
Pipe POPNut®		• Designed to be installed in a pipe with the curved surface of a rear flange, creating a horizontal surface for subsequent component assembly • Available in steel M6 thread size

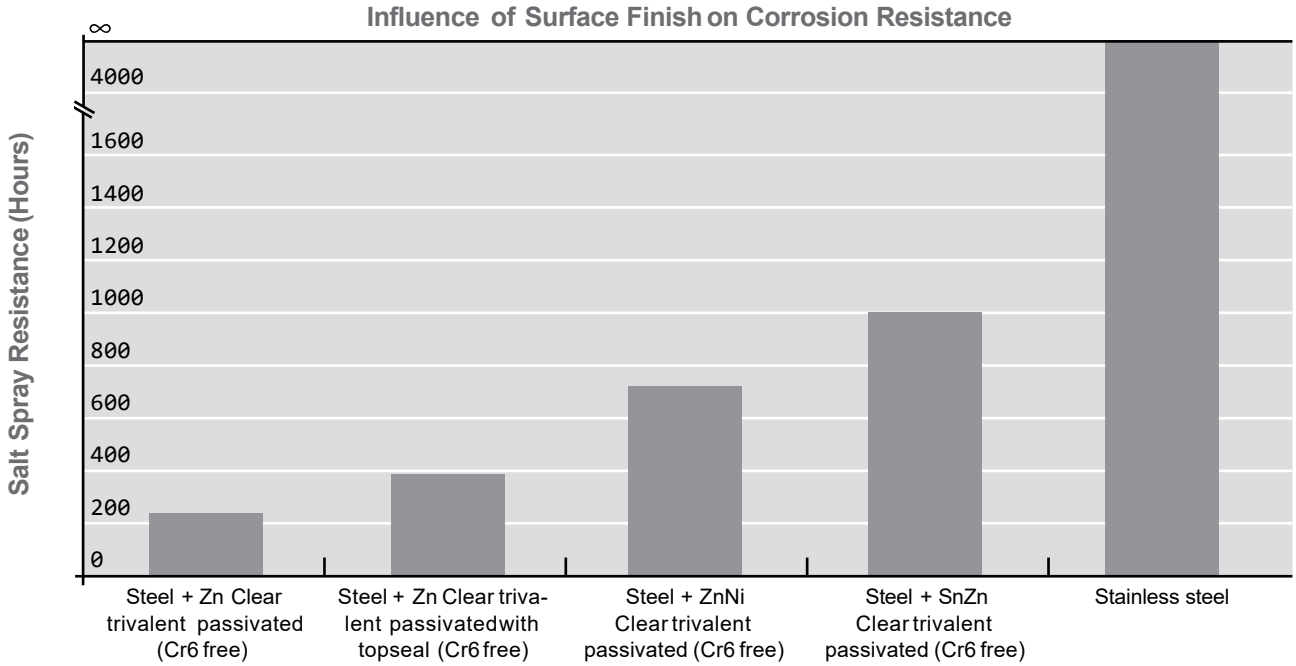
Design Parameters



These figures represent typical values for M6 1st grip rivet nuts placed in mild steel sheet. Actual values in customer's application will vary according to sheet material and its thickness.



These figures represent typical values for M6 1st grip rivet nuts placed in mild steel sheet. Actual values in customer application will vary according to sheet material and its thickness and the proximity of the rivet nut to strengthening or supporting structures.



The above table is based on data derived from Salt Spray tests in accordance with ASTM B 117 using 5% sodium chloride fog. The ranking of surface finishes shown in the above table has been obtained from these tests. These are carried out under standard conditions using sodium chloride solution fog as a means of comparing the potential corrosion resistance. The conditions in all other applications are often different and could affect the comparative ranking. In particular, if dissimilar metals are involved the subsequent galvanic action can influence the rate and nature of corrosion.
The ranking shown is based on the time of appearance of red rust but the same overall pattern is true for time of onset of white rust. Salt Spray tests are less applicable to stainless steel, but its inclusion in the table serves to illustrate its increased inherent corrosion resistance. We would be happy to discuss the requirements for your particular application and to assist you in selecting the most appropriate finish.

Selecting a Blind Rivet Nut

Selecting a blind rivet nut is a simple process. The six factors detailed below are designed to help you identify a rivet nut suitable for your application:

Thread size
POPAvdel rivet nuts range from M3 to M12 thread sizes dependent upon the rivet nut.

Grip range
The blind rivet nut should be selected to ensure that the thicknesses of the parent material(s) falls within the grip range.

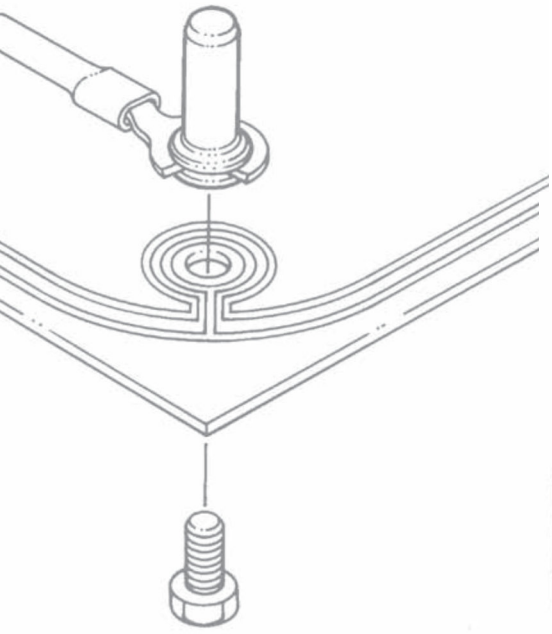
Hole size
This is specified on the relevant technical data page for the rivet nut. Allowance for coating the parent material should be made to avoid an undersized hole.

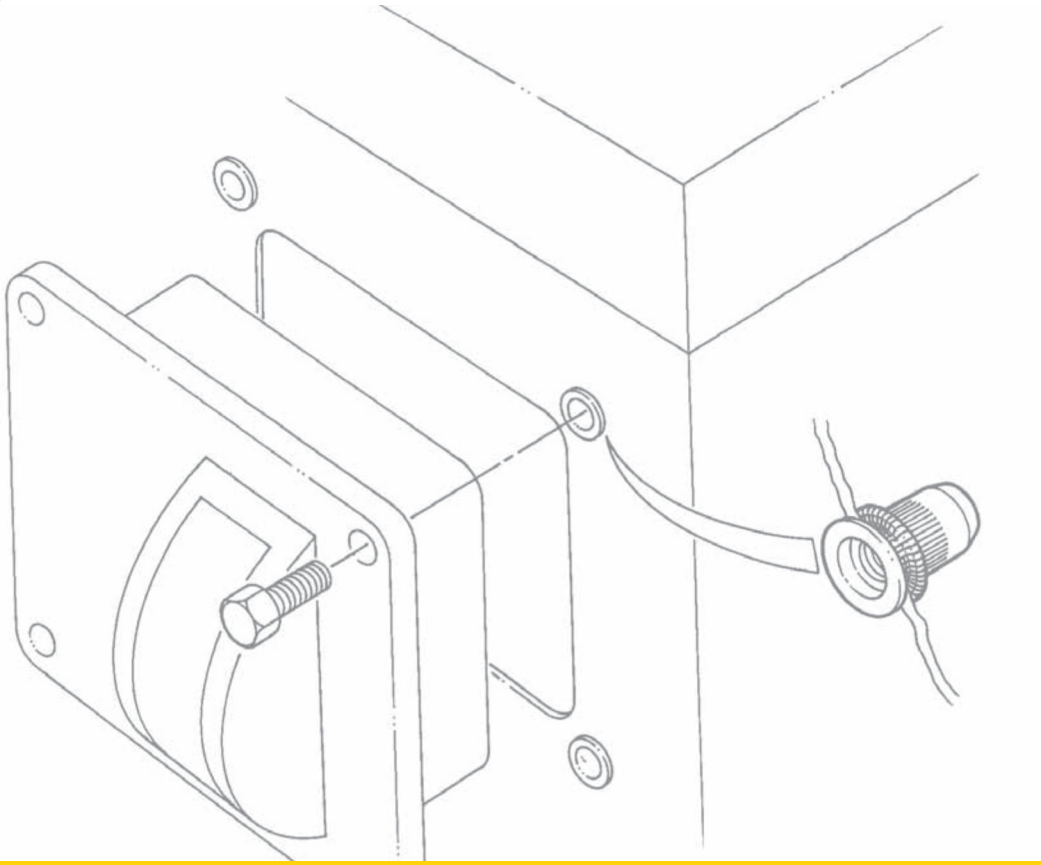
Torque-to-turn
Resistance is dependent upon the body shape and increases in the series: round, splined, hexagonal and square. Please refer to page 8 for further information.

Special features
Additional features such as low profile, large flange, closed end and countersunk are available within the standard range of products. Please refer to page 7 for details on special features and finishes.

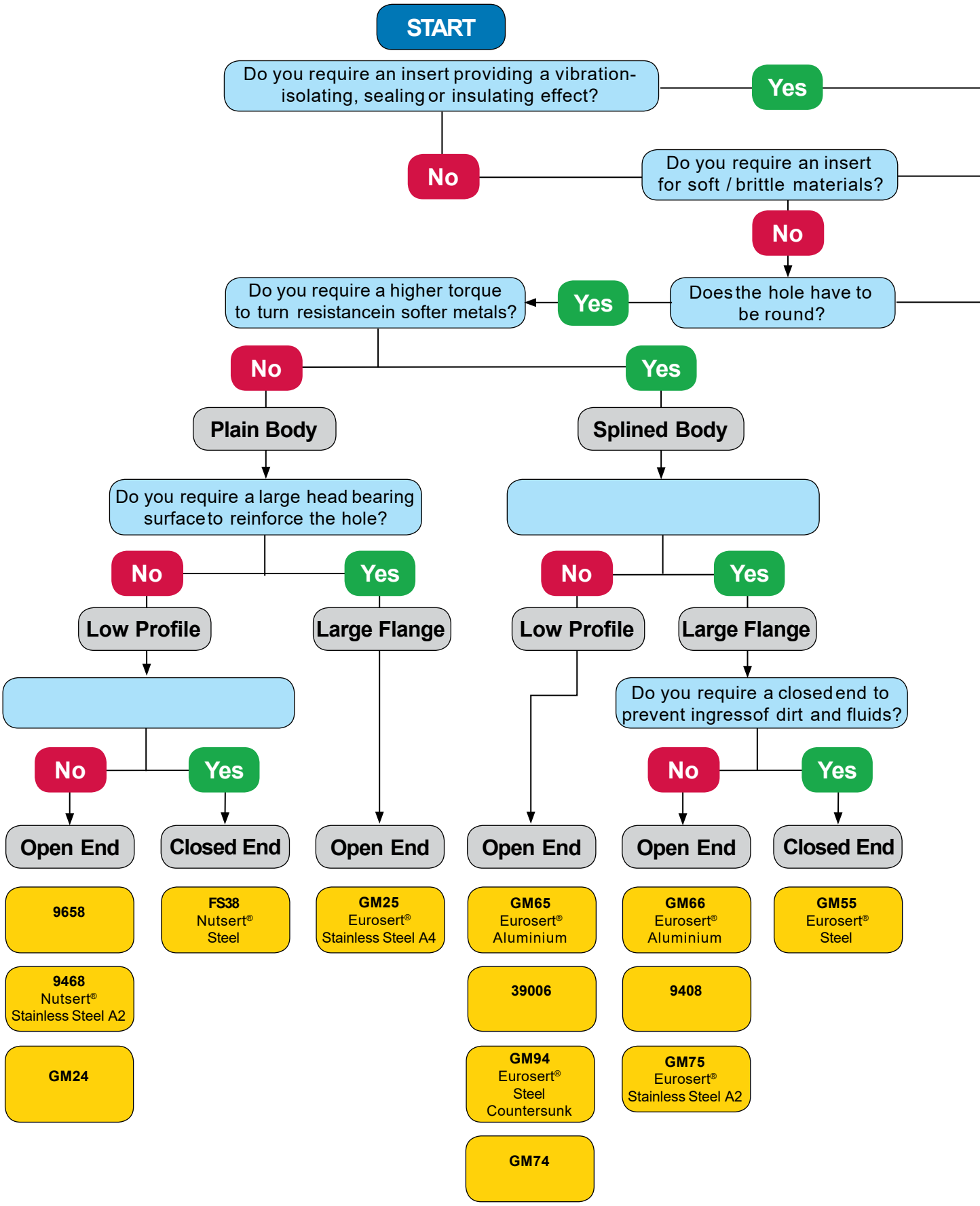
Corrosion resistance
The selection of the material type and coating of the rivet nut should be made on the basis of the corrosion resistance required.

Important Information
The information on this page should be used in conjunction with the technical data. On our website you can also find additional information about corrosion, safety and RoHS.

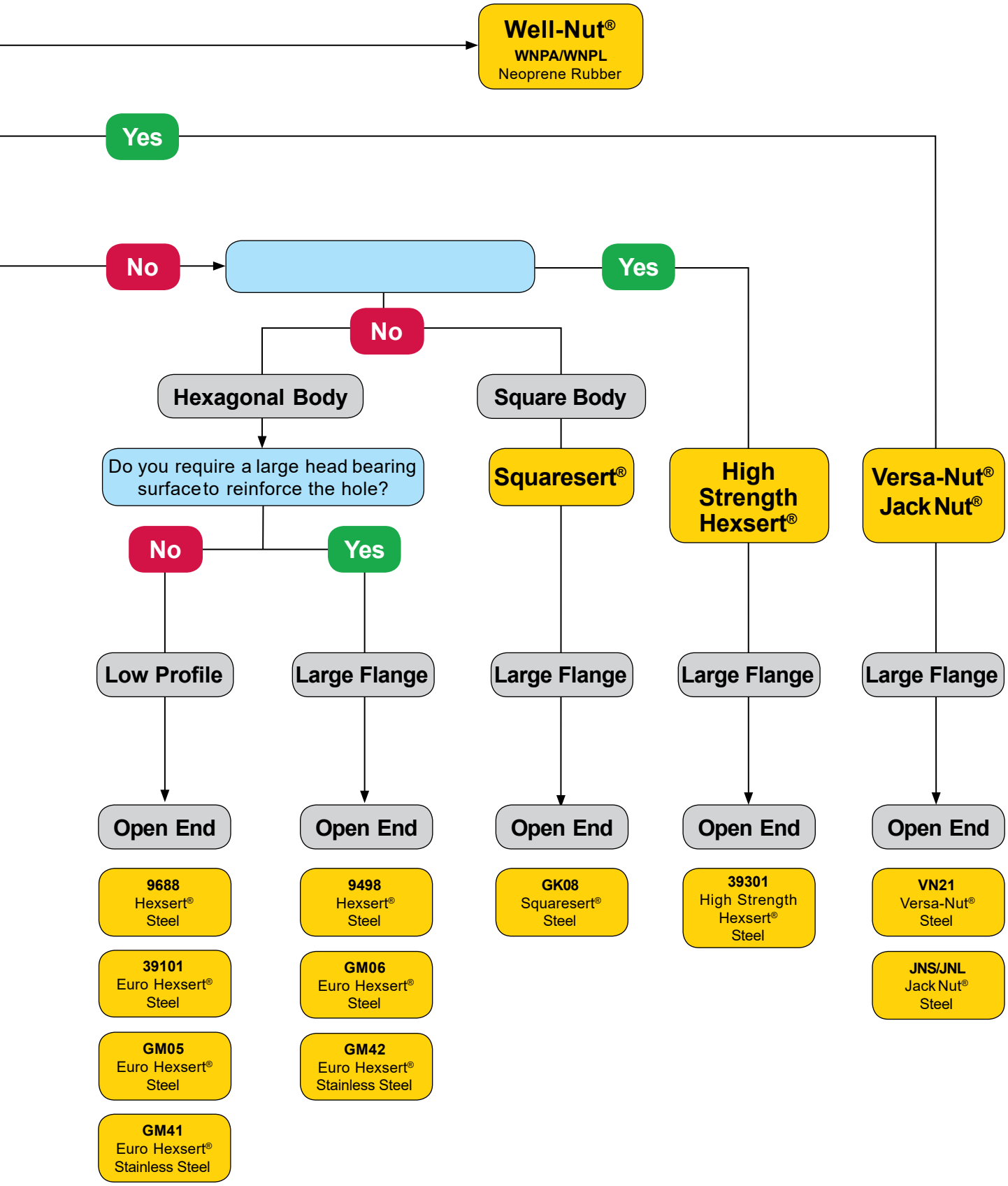




Blind Rivet Nuts



This selection guide is designed to illustrate which blind rivet nut may be the most suitable for your application. This guide does not include the full range of POPAvdel blind rivet nuts; our Applications Engineers are available to advise as to the best solution for your specific application needs.



Selection Guide

This table is designed as a guide to help you select the most suitable POPAvdel rivet nut for your specific application. Full technical and performance data for each rivet nut can also be found on our website or contact your local STANLEY Engineered Fastening representative.

Product Range	Body Shape	Material				Design Features					Hole Size		Thread Size							Page No.		
		Aluminium	Steel	Stainless Steel	Neoprene	Closed End	Open End	Large Flange	Low Profile	Countersunk	Metric	Imperial	M3	M4	M5	M6	M8	M10	M12	Series No.	Description	Data Sheet
Eurosert®		•					•		•		•			•	•	•	•			GM65	13	27
		•					•	•			•			•	•	•	•	•		GM66		28
			•				•		•		•			•	•	•	•	•		39006		29
			•				•			•	•			•	•	•	•			GM94		30
			•				•	•			•		•	•	•	•	•	•		9408		31
			•			•		•			•			•	•	•	•			GM55		32
				A2			•		•		•			•	•	•	•	•		GM74		33
				A2			•	•			•			•	•	•	•	•		GM75		34
				A4			•			•	•				•	•	•			GM24		35
				A4			•	•			•				•	•	•			GM25		36
Nutsert®			•				•		•			•	•	•	•	•	•	•		9658	14	37
			•			•			•			•		•	•	•	•			FS38		38
				•			•		•			•	•	•	•	•	•	•		9468		39
Hexsert®/ Euro Hexsert®			•				•		•			•	•	•	•	•	•			9688	15	40
			•				•	•			•			•	•	•	•	•	•	9498		41
			•				•		•		•			•	•	•	•	•		39101		42
			•				•		•		•			•	•	•	•	•		GM05		43
			•				•	•			•			•	•	•	•	•		GM06		44
				•			•		•		•			•	•	•	•	•		GM41		45
				•			•	•			•			•	•	•	•	•		GM42		46
High Strength Hexsert®			•				•	•			•					•	•	•	•	39301	16	47
Squaresert®			•				•	•			•				•	•	•			GK08	17	48
Versa-Nut®			•				•	•				•			•	•	•			VN21	18	49
Jack Nut®			•				•	•						•	•	•				JNS/JNL	19	50
Well-Nut®					•		•	•					•	•	•	•	•			WNPA	20	51
					•		•	•					•	•	•	•				WNPL		52

Our policy is one of continuous product development and improvement and we reserve the right to change the specification of any product without prior notice.

Eurosert®

Blind rivet nuts in various materials designed to provide load bearing threads in thin sheet materials. For hard metric hole sizes.

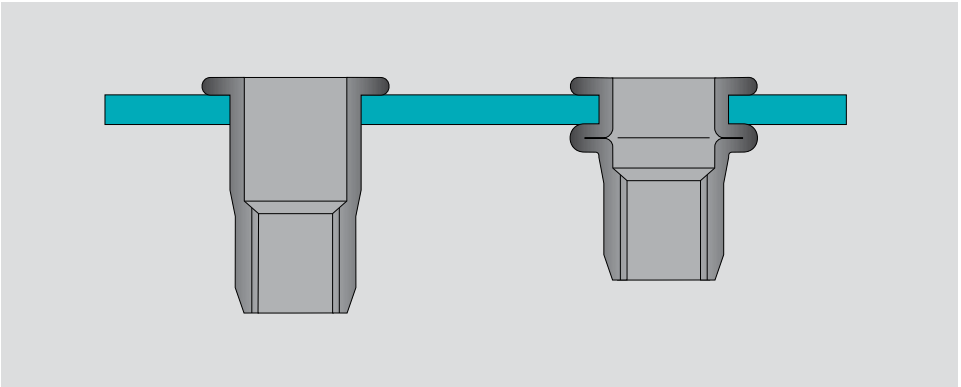
Key features and benefits

- Can be used in very thin sheet materials from 0.25mm (0.01")
- Double diameter body and lead-in chamfer provide easy insertion into hole
- Various platings available to increase corrosion resistance
- Splined body improves torque-to-turn resistance in softer materials such as aluminium when compared to plain body rivet nuts and improves electrical continuity in sheet metal fixings
- Low profile head allows near flush fit to application
- Large flange head provides a load bearing surface and reinforces the hole to prevent push-out. Can be used as a spacer and can be supplied with an under-head seal.
- Closed end prevents the ingress of dirt and fluids into thread and electrical circuits
- Can be used with hand tools, pneumatic tools and fully automated machines to suit a wide range of assembly methods

Specifications

Thread Sizes:
M3 – M10
Material:
Aluminium, steel, stainless steel A2 & A4
Head Styles:
Low profile, countersunk, large flange
Body:
Round, with and without splines
Option:
Closed end
Hole Size:
Metric

Typical placing sequence



Please visit our website www.StanleyEngineeredFastening.com for fastener placing animations.

Assembly applications

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

Nutsert®

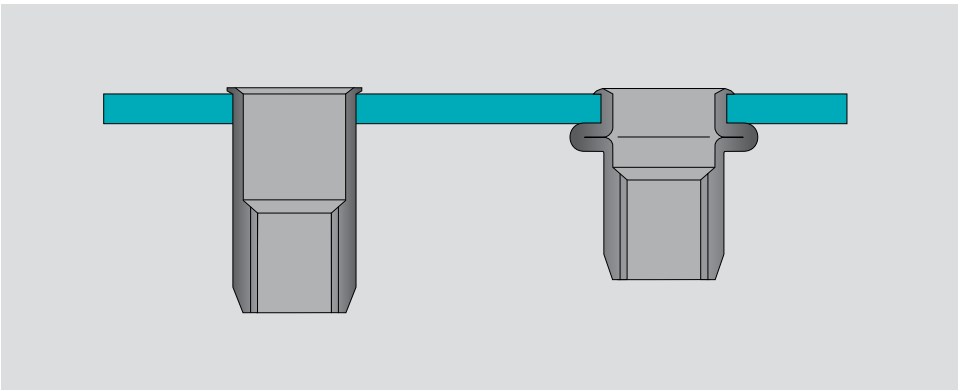
Steel and stainlesssteel rivet nuts designed to provide load bearing threads in thin sheet materials.

- Can be used in very thin sheet materials from 0.50mm (0.02")
- Various platings available to increase the corrosion resistance
- Low profile head allows near flush fit to application
- Closedend prevents the ingressof dirt and fluids into thread and electrical circuits
- Can be used with hand tools, pneumatic tools and fully automated machinesto suit a wide range of assemblymethods

Specifications

Thread Sizes:
M3 – M10
Materials:
Steel, stainless steel
Head Style:
Low profile
Option:
Closed end
Hole Size:
Imperial

Typical placing sequence



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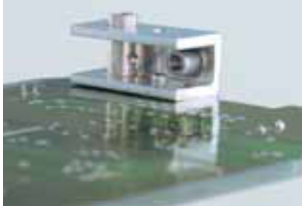
Assembly applications

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



Hexsert® / Euro Hexsert®

Blind rivet nuts with hexagonal body, providing high torque-to-turn and pull-out performance, particularly in soft metals.

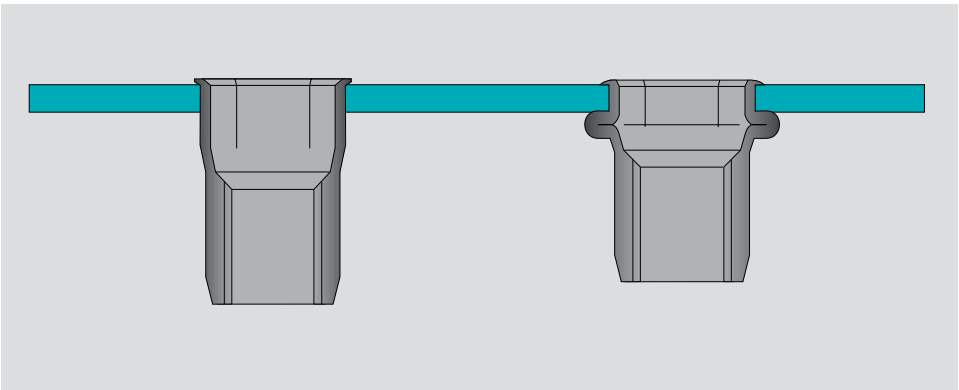
Key features and benefits

- Hexagonal section and bore improves torque-to-turn in components via form lock when compared to round and splined rivet nuts
- Superior pull-out performance
- Can be used for very thin sheet materials from 0.50 mm (0.02")
- Double diameter body and lead-in chamfer provide easy insertion into hole
- Access needed from only one side of the application, for high speed assembly
- Various platings available to increase corrosion resistance
- Low profile head allows near flush fit to application
- Large flange head provides a load bearing surface and reinforces the hole to prevent push-out. Can be used as a spacer and can be supplied with an under-head seal.
- Can be used with hand tools, pneumatic tools and fully automated machines to suit a wide range of assembly methods

Specifications

Thread Sizes:
M3 – M12
Materials:
Steel, stainless steel
Head Styles:
Low profile, large flange
Body:
Hexagonal
Hole Size:
Metric and imperial options

Typical placing sequence



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- Automotive chassis components
- Electrical engineering
- Sheet metal
- Domestic appliances
- Switchgear cabinets
- Thermal applications

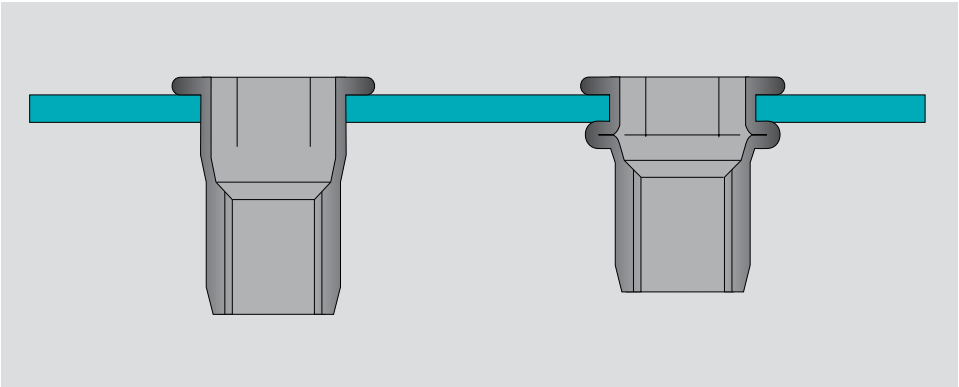
High Strength Hexsert®

High Strength Hexsert® provides clamp force comparable to weld nuts and clinch nuts in high torque applications. They offer equivalent thread proof load strength to ISO 898 Property Class 10 weld nuts and clinch nuts, and can handle tightening torques commonly applied to Property Class 10.9 and 12.9 screws and bolts.

Key features and benefits

- Exceptional torque capability
- High speed assembly
- Provides high-strength threads in thin materials starting at 0.5mm
- Increased thread strength
- If excessive torque is applied, the screw shank should fail before the rivet nut, avoiding over-tightening problems such as thread stripping and expensive rework
- Installed with standard handtools, as well as multi-head and auto-feed robotic systems

Typical placing sequence



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Assembly applications

- Tubular steel
- Hydroformed parts
- Magnesium castings
- Aluminum extrusions

Squaresert®

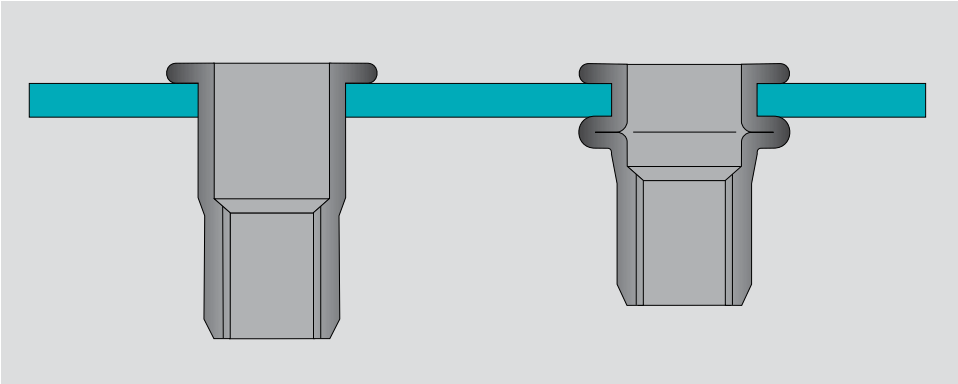
Key features and benefits

- Square section and bore improves torque-to-turn in components via form lock due to even greater contact surface compared to round and splined rivet nuts
- Increase shole punch life compared to hexagonal geometries
- Superior pull-out performance
- Can be used for very thin sheet materials from 0.50mm (0.02")
- Various platings available to increase corrosion resistance
- Large flange head provides a load bearing surface and reinforces the hole to prevent push-out
- Can be used as a spacer and can be supplied with an underhead seal
- Can be used with hand tools, pneumatic tools and fully automated machines to suit a wide range of assembly methods

Specifications

Thread Sizes:
M5 – M8
Material:
Steel
Head Style:
Large flange
Hole Size:
Metric

Typical placing sequence



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Assembly applications

- Automotive body mountings
- Electrical enclosures
- Soft sheet metal
- Plastics & composites
- Domestic appliances
- General light fabrication

Versa-Nut®

Versa-Nut rivet nuts are designed for blind-sided use in soft materials, plastics and composites. Versa-Nut rivet nuts have a higher pull out and torque-to-turn resistance than most alternative blind rivet nuts. The rivet nut's higher strength allows designers to reduce the size or number of fasteners in an assembly and because it features a grip range far greater than that of a standard rivet nut, it suits a wide number of applications.

Key features and benefits

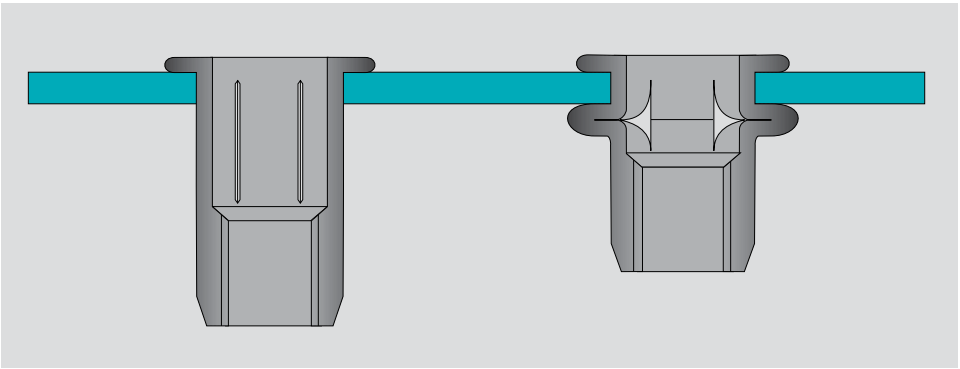
- Specially designed for use in soft or weak materials, plastics, composites, or very thin panels
- Large head size spreads clamp load of assembled joint

Additional benefits against conventional rivet nuts:

- Extra large blind side bearing area after placing offers:
  - Higher pull-out and torque-to-turn resistance
  - Less radial loading of holes in brittle materials
  - Less risk of cracking and de-lamination of composites
- Up to twice the grip range of standard blind rivet nuts:
  - Enables a designer to reduce the size or number of fasteners in an assembly
  - Covers large variations of thicknesses

Specifications

Thread Sizes:
M5 – M8
Material:
Steel
Head Style:
Large flange
Body:
Round
Hole Size:
Imperial



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Assembly applications

- Blow-molded automotive parts and trim fixings
- Sandwiched sections, and composite panels in truck, bus, caravan and marine interiors
- General composite and plastic sections for toys
- Small domestic appliances
- Containers
- Display panels
- Plastic furniture
- Fiberboard and plywood assemblies

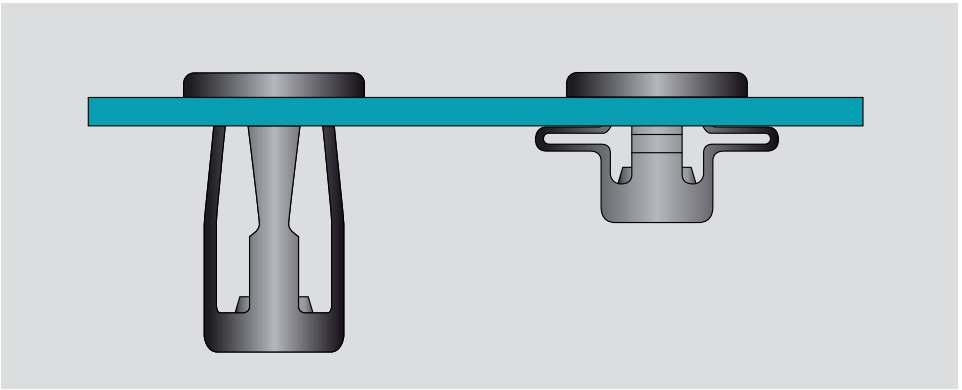
Jack Nut®

The JackNut fastener is a flat head slotted body blind rivet nut designed to be installed in soft or brittle materials such as plastic, paper or glass. Its four legs expand behind the parent material providing excellent pull out resistance especially in soft materials.

Specifications

Thread Sizes:
M4 – M6
Material:
Steel
Head Style:
Standard flange

Typical placing sequence



Assembly applications

- Automotive
- Plasticfurniture
- General composites
- Containers

Well-Nut®

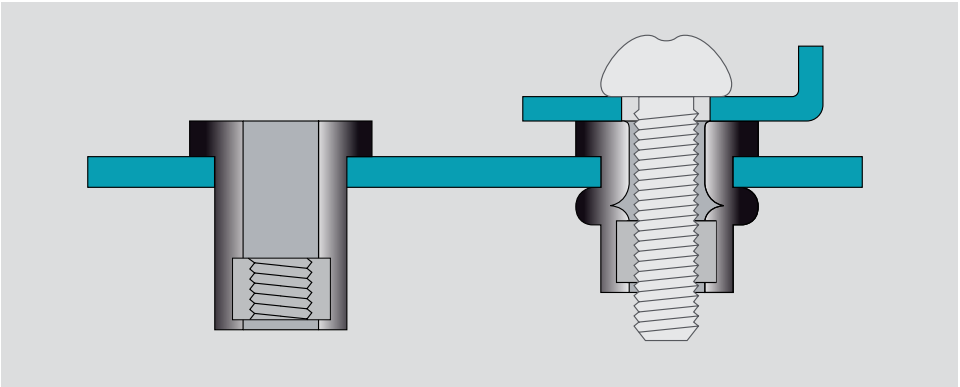
Key features and benefits

- Providesan excellent vibration-isolating effect to absorb vibration and noise
- Ability to seal liquids and gases.Particularysuited for use in low pressureenvironments
- Exhibits excellent electrical insulation properties
- Large flange feature increasesthe bearing surface for weaker/thinner materials
- Multiple basematerials can be fastened effectively
- Stable fastening strength can be achieved even in a blind hole or deep hole
- Availabe in a neoprene-rubber as standard or EPDM. Neoprene-rubber offers stable strength and exhibits average levels of all beneficial properties. EPDM is particularly suitable in an outdoor environment where the nut must provide weather resistance, ozone resistance etc.
- Installed when the mating screw is tightened using a screwdriver to recommended torque

Specifications

Thread Sizes:
M3 – M8
Materials:
Neoprene-rubber, EPDMoption
Head Styles:
Standard flange, large flange

Typical placing sequence



Assembly applications

- Automotive
- Agriculture machinery
- Recreational vehicles
- Electroniccomponents

Installation Tools

Tool Selection Guide

This table is designed as a guide to help you select the most suitable tool for your particular rivet nut.
Please note that all tools require fastener specific nose assemblies.
Full technical data can also be found on our website or contact your STANLEY Engineered Fastening representative.

		Power Tools					Hand Tools			
Rivet Nut Type	Thread Size	ProSert® XTN20	74200	PNT1000L PC	74401	74405	PNT110	PNT210	PNT310	PNT410
Eurosert®	M3	•	•[1]		•[1]		•			
	M4	•	•[1]		•[1]		•	•	•	
	M5	•	•[1]		•[1]		•	•	•	•
	M6	•	•[1]	•[1]	•[1]		•[3]	•	•	•
	M8	•	•[1]	•	•			•	•	•
	M10	•	•	•	•			•	•[3]	•
Nutsert®	M3	•	•[1]		•[1]		•			
	M4	•	•[1]		•[1]		•	•	•	
	M5	•	•[1]		•[1]		•	•	•	•
	M6	•	•[1]	•[1]	•[1]			•	•	•
	M8	•	•[1]	•	•			•	•	•
	M10	•	•	•	•			•	•[3]	•
Hexsert® / Euro Hexsert®	M3	•	•[1]		•[1]		•			
	M4	•	•[1]		•[1]		•	•	•	
	M5	•	•[1]		•[1]		•	•	•	•
	M6	•	•[1]	•[1]	•[1]			•	•	•
	M8	•	•[1]	•	•			•	•	•
	M10		•	•	•			•	•[3]	•
	M12		•	•				•		•[3]
High Strength Hexsert®	M6	•	•[1]	•[1]	•[1]					
	M8	•	•[1]	•	•					
	M10		•	•	•					
	M12		•	•						
Squaresert®	M5	•	•[1]		•[1]			•	•	•
	M6	•	•[1]	•[1]	•[1]			•	•	•
	M8	•	•[1]	•	•[1]			•	•	•
Versa-Nut®	M5	•[2]				•				
	M6	•[2]		•[1]		•				
	M8	•[2]		•		•				
							JNT2200	JNT2400		
Jack Nut®	M4						•	•		
	M5						•	•		
	M6						•	•		

[1] This model is not preferred for the installation of this thread size
[2] Two tool actuations may be needed to fully place the insert
[3] No stainless steel

Power Tools

ProSert® XTN20 model

The combined world-class innovations from POP& Avdel created a high speed, lightweight tool with great strength, endurance, excellent ergonomics and optimal flexibility – responding to the latest and highest standards in tool manufacturing. Dual operating mode technology (pull-to-force & pull-to-stroke) ensures enhanced productivity, improving your return on investment with the lowest installation cost per fastener.

- Placing capability: recommended for blind rivet nuts from M3 up to M10
- Flexible operation in both pull-to-force or pull-to-stroke modes
- High force-to-weight ratio of 11.1 kN/kg
- Less than 1.5 sec. per complete setting
- Long lasting hydraulic lip seals maximise re-priming intervals
- Convenient reverse spin-out button
- Easy to use tool free, quick installation mandrel system- patent applied for#
- Can be modified to be mounted on a pantograph arm

UK Patent application number - 1418586.2
Community design registration number - 1423230

Specifications

Weight incl. nose equipment	1.59 kg
Stroke	3 - 7 mm
Pull force @5.0bar	17.65 kN
Air supply pressure	5 - 7 bar

74200 model

A high performance hydro-pneumatic power tool in heavy duty plastic, with pulling stroke adjustment, designed for rapid, blind sided installation of larger blind rivet nuts.

- Placing capability: recommended for blind rivet nuts from M10 up to M12
- Heavy duty plastic tool body and long-life components provide a durable and robust construction for a long working life. Ideal for demanding production environments
- The ergonomic design provides for reduced operator fatigue and increased productivity
- Latest 'spin-pull' technology ensures accurate and secure thread installation and reduces wear on the drive screw
- Lightweight design makes it portable and easy to handle
- Tool uses pull-to-stroke technology

Specifications

Weight without nose equipment	2.2 kg
Height	280 mm
Stroke	7 mm
Pull force @5.0bar	19.1 kN
Air supply pressure	5 - 7 bar

Power Tools

PNT1000L-PCmodel

High capacity Pneumatic Control (PC)blind rivet nut tool. The POPNut® Pneumatic Control function selects the appropriate stroke required, allowing the operator to set the same insert in a range of application thicknesseswithout pausing to adjust stroke manually.

- Designed to place blind rivet nuts from M6 up to M12
- Tool usespull-to-force technology
- Automatic stroke adjustment suits various thicknesses within a grip range
- Consistent setting achieved in varying application conditions
- Fast cycle time with single trigger action for setting and spin-off
- Quick-change mandrel and nosepiece design
- Eliminates potential application and nut damage due to double stroking
- Lightweight, compact structure for operator comfort

Specifications

Weight	2.77 kg
Height	295 mm
Stroke	1.3 - 10.5 mm
Pull force @5.0bar	24.3 kN
Air supply pressure	4.9 - 5.9 bar

74401 split tool

A hydro-pneumatic power tool with separated intensifier creating a high pull force enabling the fitting of a variety of rivet nuts. The 74401'scompact and ergonomic design has a long life span with low maintenance requirements.

- Split tool offering a lightweight placing head
- Designed to place rivet nuts up to M12
- The ergonomic design provides for reduced operator fatigue
- Generateshigh pull forces
- Longer tool life and lower maintenance

Specifications

Weight of tool without nose equipment or hose	2.0 kg
Stroke	12 mm
Pull force @5.0bar	35.9 kN
Air supply pressure	4 - 7 bar
Intensification ratio	5:1

Power Tools

74405 split tool

A high performance hydro-pneumatic power tool designed for installing rivet nuts requiring more setting stroke. This tool offers a greater amount of stroke, whilst maintaining lightweight and ergonomic features as a result of the split intensifier.

- Split tool offering a lightweight placing head
- Designed to place Versa-Nut® blind rivet nuts up to M10
- High placement speed for increased productivity
- The ergonomic design provides for reduced operator fatigue
- Robust tool with ease to maintenance

Specifications

Weight of tool without nose equipment or hose	2.0 kg
Stroke	16 mm
Pull force @5.5bar	13.84 kN
Air supply pressure	5 - 7 bar

74290 tool for hexagonal hole production

The 74290 tool compliments and extends the range of our hand tools for installing rivet nuts, by offering the capability of producing hexagonal holes for Hexsert® rivet nuts into materials where access is only possible from one side. The 74290 tool allows customers to benefit from the non-rotational properties of hexagonal rivet nuts compared with round rivet nuts. This is achieved by drilling a round hole, then inserting the 74290 tool and forming a hex hole.

Specifications

Weight without nose equipment	2.2 kg
Height	300 mm
Stroke	6.5 mm
Pull force @5.0bar	23.5 kN
Air supply pressure	5 - 7 bar

Hand Tools

The POPAvdel range of hand tools have been designed to offer the user the best features available in the market today. The range of professional hand tools, including hand plier and lever tools, are lightweight, robust and easyto use. They are ideal for light engineering work, maintenance and repair. All tools feature a quick change mandrel and nosepiecedesign, and adjustable mandrel protrusion.

PNT110- Professional Hand Plier

Professionalstandard tool, robust cast aluminium and steel design. Ideal for maintenance, repair and site work.

- Placing capacity: M3 up to M6 aluminium, M5 steel and stainlesssteel
- Contoured handle grips for comfort
- Weight: 0.8 kg | Length: 240 mm
- Supplied with mandrel and nosepiecessizesM3 - M6

PNT210- Ratchet Tool

Heavy duty high capacity tool with placing capacity up to M12 stainlesssteel.

- Placing capacity: M4 up to M12
- Heavy duty steel construction
- Weight: 1.3 kg | Length: 210 mm
- Supplied with mandrel and nosepiecessizesM6 - M12

PNT310- Spindle Lever Tool

Professionallever tool in heavy duty steel construction provides optimum pulling force.

- Placing capacity: M4 up to M12 aluminium, M10 steel & M8 stainlesssteel
- Quick-reversespinarm for fast withdrawal from set rivet nuts
- Stroke adjustment with scaledisplay
- Weight: 2.4 kg | Length: 555 mm
- Supplied with mandrel and nosepiecessizesM5 - M10

PNT410- Lever Tool

Long lever tool with optimum pulling force for placing up to M12 Steel and M10 StainlessSteel.

- Placing capacity: M5 up to M12 steel, M10 stainlesssteel
- Professionalstandard, heavy duty steel construction
- Stroke adjustment with scaledisplay
- Weight: 2.1 kg | Length: 580 mm
- Supplied with mandrel and nosepiecessizesM5 - M12

JackNut Tools

JNT2200

A hand operated tool with simple 2 handle setting mechanism that can install the full range of JackNut products.

JNT2400

A stroke controlled tool that installsthe full range of JackNut products.

Assembly Workstations

ProSert® XTN20 Vertical or Pantograph Workstation Kit

The ergonomic Remote Handle Kit for the ProSert XTN20 power tool enables it to be used pantograph mounted.

- Vertical orientated riveting axis
- Riveting cycle initiated by low force forefinger triggering
- Rotating handle along riveting axis allowing to follow the assembly sequence with one hand
- Short-cycle trigger air supply connected to the original setting tool pneumatic part
- Can be mounted on linear or articulated arm

Vertical Rivet Nut Hydraulic Module

This hydraulic module has been specifically designed for vertical down applications. The pneumatic control and the pneumatic-hydraulic intensifier are installed in a separate switchbox. The trigger is integrated in the ergonomic handle at the module barrel.

- Ergonomic handling for vertical installation positions
- Gentle and reliable installation
- Simple positioning of the module
- Quick and easy handling
- Can be mounted on a pantograph arm
- Placing capability ranges from M3 to M10

Vertical tool mounted on a pantograph arm (optional).

Customised Assembly Systems

Multi-head Workstation (semi automated)

Designed for multiple and synchronous placement of rivet nuts. The example shows a station for placing 6 x M5 Hexsert® rivet nuts for different applications, including process monitoring of part and rivet nut presence and rivet nut placed diagnostic. These customised multi-head workstations can dramatically reduce assembly time and cost at improved quality.

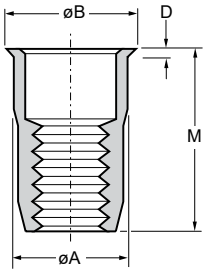
POP® Avdel®

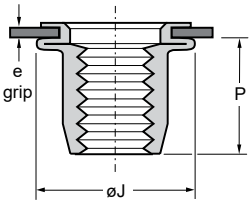
Eurosert® GM65 Series

Aluminium

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Aluminium*	Aluminium*	Aluminium*	Alluminio*	Aluminio*

* : AA5056





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.20	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.95	7.1	0.6	8.7	10.3	6.3	0GM65-24030
M5 x 0.8	0.5	3.0	7.0	6.95	8.1	0.6	10.1	11.8	7.5	0GM65-25030
M6 x 1.0	0.5	3.0	9.0	8.95	10.1	0.6	12.5	14.3	9.2	0GM65-26030
M8 x 1.25	0.5	3.0	11.0	10.95	12.1	0.6	14.9	15.8	10.3	0GM65-28030

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	4.0
M5 x 0.8	5.0
M6 x 1.0	10.0
M8 x 1.25	14.0

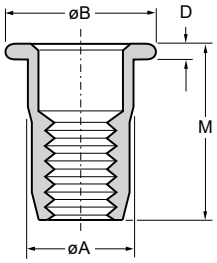
POP® Avdel®

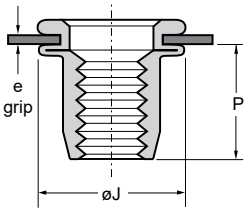
Eurosert® GM66 Series

Aluminium

English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Aluminium*	Aluminium*	Aluminium*	Alluminio*	Aluminio*

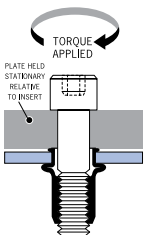
* : AA5056





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.95	9.1	1.0	8.6	11.3	6.8	0GM66-24030
M5 x 0.8	0.5	3.0	7.0	6.95	10.1	1.0	10.0	13.3	8.3	0GM66-25030
M6 x 1.0	0.5	3.0	9.0	8.95	12.1	1.5	12.5	16.3	10.5	0GM66-26030
M8 x 1.25	0.5	3.0	11.0	10.95	15.1	1.5	15.1	17.8	10.7	0GM66-28030
M10 x 1.5	0.5	3.0	12.0	11.95	16.1	2.0	16.9	19.3	11.7	0GM66-20030

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	4.0
M5 x 0.8	5.0
M6 x 1.0	10.0
M8 x 1.25	14.0
M10 x 1.5	19.0

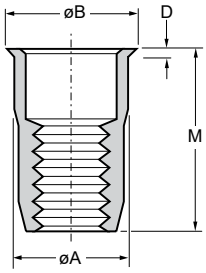
POP® Avdel®

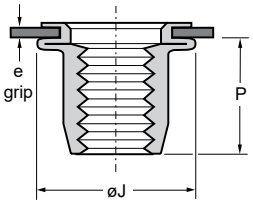
Eurosert® 39006 Series

Steel

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a bassotenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008

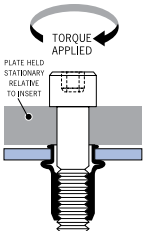


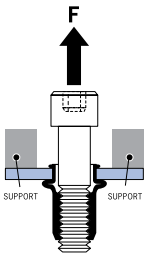


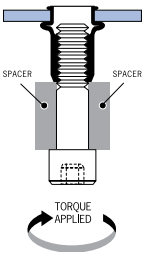
Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.25	2.00	6.0	5.97	6.7	0.46	8.8	11.3	7.1	39006-74020
M5 x 0.8	0.25	3.00	7.0	6.97	7.8	0.46	10.2	12.7	7.9	39006-75030
M6 x 1.0	0.50	3.00	9.0	8.97	10.2	0.50	12.7	15.3	9.4	39006-76030
	3.00	5.50						17.8		39006-76055
M8 x 1.25	0.50	3.50	11.0	10.97	12.2	0.63	15.0	17.3	11.0	39006-78035
	3.50	6.00						19.8		39006-78060
M10 x 1.5	1.00	3.50	13.0	12.97	14.2	0.63	17.5	20.4	14.5	39006-70035

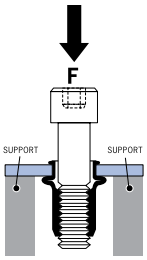
all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.	Pull-out* kN	Torque-to-turn* Nm min.	Push-out* kN
M4 x 0.7	5.1	3.6	2.0	1.2
M5 x 0.8	7.9	7.8	2.8	1.4
M6 x 1.0	12.4	15.8	5.0	2.6
M8 x 1.25	32.0	18.1	9.1	3.5
M10 x 1.5	45.0	20.8	16.7	3.9









* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

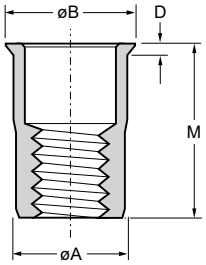
POP® Avdel®

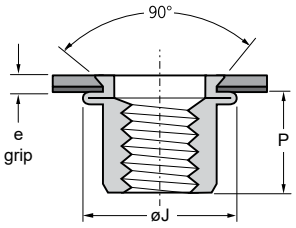
Eurosert® GM94 Series

Steel

English	Français	Deutsch	Italiano	Español
90° Countersunk	90° Tête fraisée	90° Senkkopf	90° Testa svasata	90° Cabeza avellanada
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivado claro trivalente

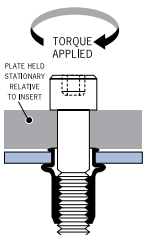
* : SAE 1008





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	1.5	4.0	6.0	5.95	8.5	1.4	8.9	12.8	8.1	0GM94-24040
M5 x 0.8	1.5	4.0	7.0	6.95	9.5	1.4	9.9	13.8	8.9	0GM94-25040
M6 x 1.0	1.5	4.0	9.0	8.95	11.5	1.4	12.4	15.8	10.3	0GM94-26040
M8 x 1.25	1.5	4.0	11.0	10.95	13.5	1.4	14.9	18.8	12.9	0GM94-28040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	4.2
M5 x 0.8	6.0
M6 x 1.0	12.4
M8 x 1.25	25.0

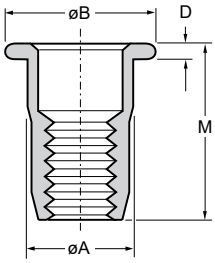
POP® Avdel®

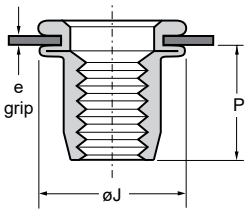
Eurosert® 9408 Series

Steel

English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a bassotenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M3 x 0.5	0.25	2.00	5.0	4.95	8.2	0.75	7.4	10.5	6.0	09408-72314
M4 x 0.7	0.25	3.00	6.0	5.95	9.2	0.75	8.8	11.5	7.1	09408-72415
	3.00	4.50						13.0		09408-72417
M5 x 0.8	0.25	3.00	7.0	6.95	10.2	1.00	10.2	13.0	7.9	09408-72517
	3.00	5.50						15.5		09408-72520
M6 x 1.0	0.50	3.00	9.0	8.95	13.2	1.50	12.7	16.0	9.4	09408-72621
	3.00	5.50						18.5		09408-72623
M8 x 1.25	0.50	3.00	11.0	10.95	16.4	1.50	15.0	17.5	11.0	09408-72822
	3.00	5.50						20.0		09408-72825
M10 x 1.5	0.50	3.50	13.0	12.95	18.9	2.25	17.5	22.0	14.5	09408-72028
	3.50	6.00						25.0		09408-72031

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.	Pull-out* kN	Torque-to-turn* Nm min.	Push-out* kN
M3 x 0.5	1.5	4.2	1.1	1.8
M4 x 0.7	5.1	5.5	2.2	2.9
M5 x 0.8	7.9	8.0	3.4	4.2
M6 x 1.0	12.4	10.8	4.7	6.5
M8 x 1.25	32.0	12.5	6.8	7.9
M10 x 1.5	45.0	17.3	16.7	10.7

* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

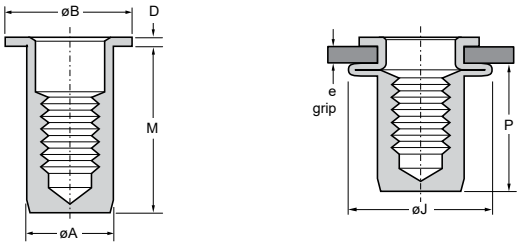
POP® Avdel®

Eurosert® GM55 Series

Steel

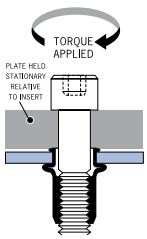
English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Closed end	Borgne	Geschlossen	Fondo cieco	Fondo cerrado
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.95	9.1	1.0	8.6	16.3	11.8	0GM55-24030
M5 x 0.8	0.5	3.0	7.0	6.95	10.1	1.0	10.0	18.8	13.8	0GM55-25030
M6 x 1.0	0.5	3.0	9.0	8.95	12.1	1.5	12.6	21.8	15.8	0GM55-26030
M8 x 1.25	0.5	3.0	11.0	10.95	15.1	1.5	15.5	26.3	19.4	0GM55-28030

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4	4.0
M5	6.0
M6	12.4
M8	25.0

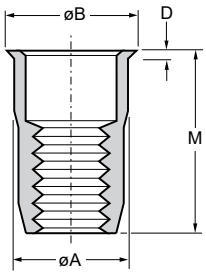
POP® Avdel®

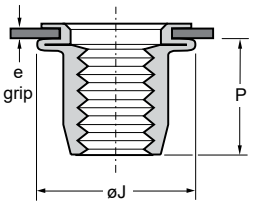
Eurosert® GM74 Series

Stainless steel A2

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Stainless steel*	Inox*	Edelstahl*	Acciaio inox*	Acero inoxidable*

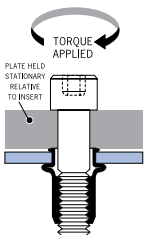
* : AISI 302





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.2	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.95	7.1	0.75	8.6	10.3	6.6	0GM74-24030
M5 x 0.8	0.5	3.0	7.0	6.95	8.1	0.75	9.9	11.8	7.2	0GM74-25030
M6 x 1.0	0.5	3.0	9.0	8.95	10.1	0.75	12.6	14.3	9.0	0GM74-26030
M8 x 1.25	0.5	3.0	11.0	10.95	12.1	0.75	15.1	15.8	9.9	0GM74-28030
M10 x 1.5	0.8	3.5	13.0	12.95	14.6	0.95	17.6	19.8	13.1	0GM74-20035

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	5.6
M5 x 0.8	10.0
M6 x 1.0	15.0
M8 x 1.25	30.0
M10 x 1.5	35.0

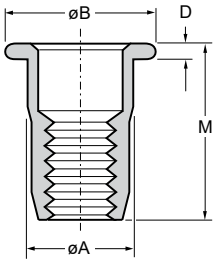
POP® Avdel®

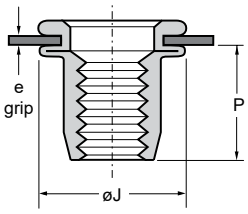
Eurosert® GM75 Series

Stainless steel A2

English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Splined body	Fût cannelé	Gerändelter Schaft	Corpo zigrinato	Cuerpo estriado
Stainless steel*	Inox*	Edelstahl*	Acciaio inox*	Acero inoxidable*

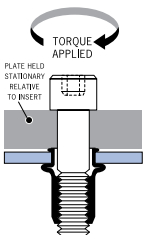
* : AISI 302





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.95	9.1	1.0	8.5	11.3	6.8	0GM75-24030
M5 x 0.8	0.5	3.0	7.0	6.95	10.1	1.0	10.1	13.3	8.3	0GM75-25030
M6 x 1.0	0.5	3.0	9.0	8.95	12.1	1.5	12.5	16.3	10.6	0GM75-26030
M8 x 1.25	0.5	3.0	11.0	10.95	15.1	1.5	15.0	17.8	11.2	0GM75-28030
	3.0	5.5						20.3		0GM75-28055
M10 x 1.5	0.5	3.0	13.0	12.95	16.1	2.0	17.4	19.3	11.8	0GM75-20030

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	5.6
M5 x 0.8	10.0
M6 x 1.0	15.0
M8 x 1.25	30.0
M10 x 1.5	35.0

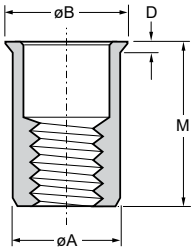
POP® Avdel®

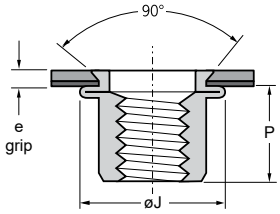
Eurosert® GM24 Series

Stainless steel A4

English	Français	Deutsch	Italiano	Español
90° Countersunk	90° Tête fraisée	90° Senkkopf	90° Testa svasata	90° Cabeza avellanada
Stainless steel*	Inox*	Edelstahl*	Acciaio inox*	Acero inoxidable*

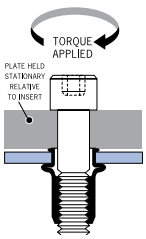
* : AISI 316





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M5 x 0.8	1.5	4.0	7.0	6.95	9.5	1.35	9.9	13.8	8.1	0GM24-25040
M6 x 1.0	1.5	4.0	9.0	8.95	11.5	1.35	12.4	15.8	10.3	0GM24-26040
M8 x 1.25	1.5	4.0	11.0	10.95	13.5	1.35	14.9	18.8	12.9	0GM24-28040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

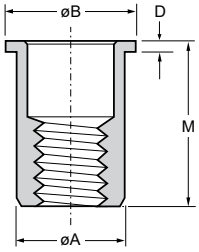
Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.
M5 x 0.8	10.0
M6 x 1.0	15.0
M8 x 1.25	30.0

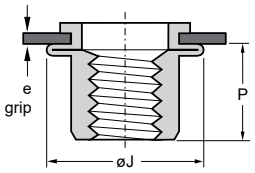
Eurosert® GM25 Series

Stainless steel A4

English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Stainless steel*	Inox*	Edelstahl*	Acciaio inox*	Acero inoxidable*

* : AISI 316





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D ±0.13	øJ max.	M nom.	P max.	Part No/ref
M5 x 0.8	0.5	3.0	7.0	6.95	10.1	1.0	10.2	13.3	8.3	0GM25-25030
M6 x 1.0	0.5	3.0	9.0	8.95	12.1	1.5	12.5	16.3	10.6	0GM25-26030
M8 x 1.25	0.5	3.0	11.0	10.95	15.1	1.5	15.0	17.8	11.2	0GM25-28030

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M5 x 0.8	10.0
M6 x 1.0	15.0
M8 x 1.25	30.0

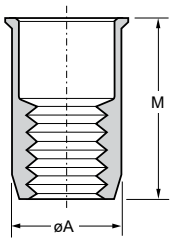
POP® Avdel®

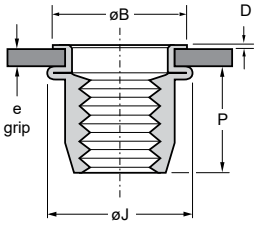
Nutsert® 9658 Series

Steel

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
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
Lubricated	Lubrifié	Trockenfilmbeschichtet	Lubrificato	Lubricado

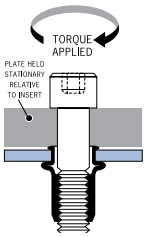
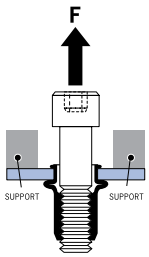
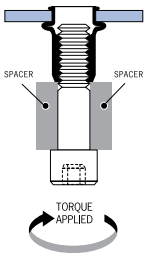
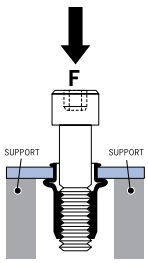
* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D max.	øJ max.	M max.	P max.	Part No/ref
M3 x 0.5	0.51	1.50	4.75	4.72	5.84	0.38	6.7	9.02	6.2	09658-70310
M4 x 0.7	0.51	2.00	6.35	6.32	7.30	0.51	8.8	10.41	7.0	09658-70413
M5 x 0.8	0.51	3.00	7.15	7.11	8.00	0.51	10.2	11.81	7.2	09658-70514
M6 x 1.0	0.76	3.25	9.55	9.50	10.67	0.76	13.2	14.60	9.5	09658-70619
M8 x 1.25	0.91	3.70	10.60	10.57	11.68	0.76	14.4	16.00	10.5	09658-75821
M10 x 1.5	1.00	3.60	14.20	14.17	16.20	0.76	19.2	18.50	11.5	09658-72022

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

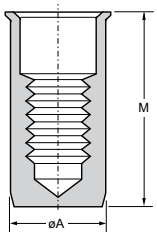
Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M3 x 0.5	1.5	2.7	0.4	0.8
M4 x 0.7	5.1	6.6	1.9	1.5
M5 x 0.8	7.9	8.0	2.6	1.9
M6 x 1.0	12.4	11.4	3.4	2.4
M8 x 1.25	16.4	15.7	3.6	2.8
M10 x 1.5	33.9	18.7	4.2	3.7

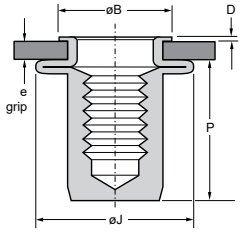
* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

Nutsert® FS38 Series

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Closed end	Borgne	Geschlossen	Fondo cieco	Fondo cerrado
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivado claro trivalente

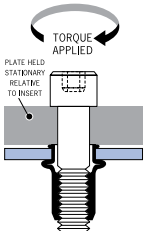
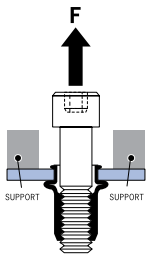
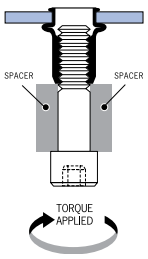
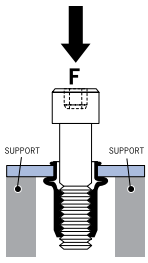
* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D max.	øJ max.	M max.	P max.	Part No/ref
M4 x 0.7	0.51	2.00	6.35	6.34	7.50	0.64	10.0	14.91	11.7	0FS38-70418
M5 x 0.8	0.51	3.00	7.15	7.13	8.26	0.64	12.2	20.26	15.5	0FS38-70521
M6 x 1.0	0.76	3.25	9.53	9.52	10.85	0.77	15.0	23.49	18.6	0FS38-70626
M8 x 1.25	0.91	3.70	10.60	10.59	11.74	0.77	16.8	23.63	18.1	0FS38-70829

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M4 x 0.7	5.1	6.6	1.9	1.5
M5 x 0.8	7.9	8.0	2.6	1.9
M6 x 1.0	12.4	11.4	3.4	2.4
M8 x 1.25	16.4	15.7	3.6	2.8

* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

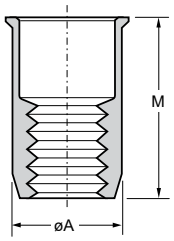
POP® Avdel®

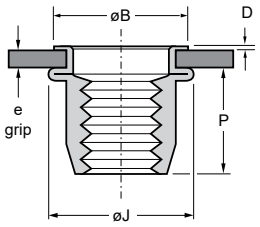
Nutsert® 9468 Series

Stainless steel

English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Stainless steel* Natural	Inox* Brut	Edelstahl* Blank	Acciaio inox* Nessunafinitura	Acero inoxidable* Natural

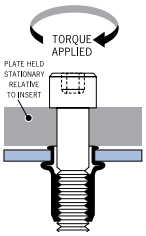
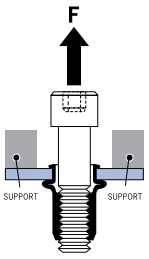
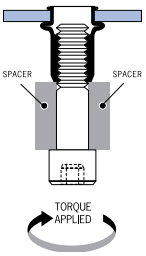
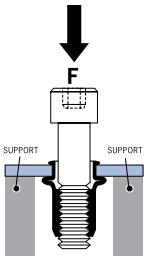
* : Werkstoff 1.4305





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	+0.1/-0	øA max.	øB max.	D max.	øJ max.	M max.	P max.	Part No/ref
M3 x 0.5	0.51	1.50	4.75	4.73	5.77	0.64	8.4	9.15	5.8	09468-00310
M4 x 0.7	0.51	2.00	6.35	6.32	7.50	0.64	10.3	10.42	7.2	09468-00413
M5 x 0.8	0.51	3.00	7.15	7.11	8.26	0.64	12.7	11.82	7.0	09468-00514
M6 x 1.0	0.76	3.25	9.53	9.50	10.85	0.77	15.5	14.61	9.5	09468-00619
M8 x 1.25	0.91	3.70	10.60	10.57	11.74	0.77	17.2	16.13	10.1	09468-05821
M10 x 1.5	1.00	3.60	14.30	14.28	15.80	0.77	23.3	18.62	10.5	09468-01023

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M3 x 0.5	4.0	8.2	0.4	1.0
M4 x 0.7	5.6	9.2	1.9	2.0
M5 x 0.8	11.3	12.0	2.6	2.7
M6 x 1.0	16.9	18.3	3.4	2.9
M8 x 1.25	22.6	24.2	3.6	3.2
M10 x 1.5	33.8	33.9	4.2	4.2

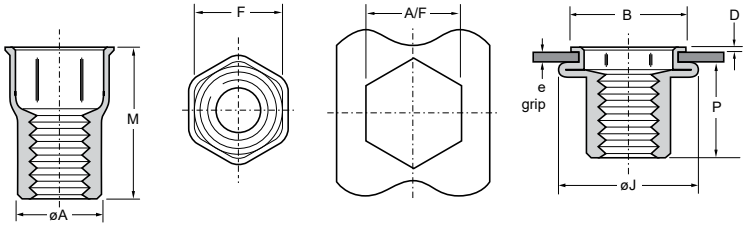
* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

POP® Avdel®

Hexsert® 9688 Series

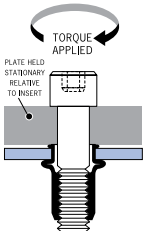
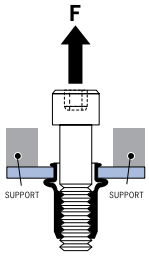
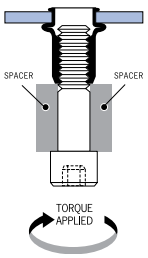
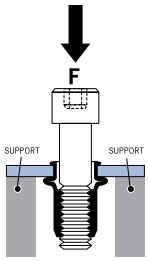
English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated Lubricated	Revêtement zingué, Passivation claire trivalente, Lubrifié	Verzinkt Klar chromatiert, Cr6-frei Trockenfilmbeschichtet	Zincato Passivazione chiara trivalente, Lubrificato	Zincado Pasivado claro trivalente Lubricado

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip)		A/F		øA	B	D	F	øJ		M	P	Part No/ref
	min.	max.	min.	max.	max.	max.	max.	max.	min. e	max. e	max.	max.	
M3 x 0.5	0.70	1.63	4.80	4.85	4.72	6.10	0.45	4.81	6.9	6.4	9.02	5.4	09688-70310
M4 x 0.7	0.51	1.63	6.38	6.43	6.33	8.00	0.69	6.37	10.0	8.7	10.42	7.4	09688-70413
M5 x 0.8	0.51	2.03	7.32	7.37	7.14	9.22	0.72	7.26	12.2	10.7	11.82	7.2	09688-70514
M6 x 1.0	0.76	2.92	9.65	9.70	9.53	11.94	0.89	9.64	15.0	12.7	14.61	9.7	09688-70619
M8 x 1.25	0.91	3.25	10.70	10.80	10.50	12.96	0.89	10.67	16.6	14.3	16.00	10.5	09688-70821

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M3 x 0.5	1.5	2.9	1.0	0.8
M4 x 0.7	5.1	4.2	4.0	1.3
M5 x 0.8	7.9	5.9	6.6	1.9
M6 x 1.0	12.4	6.9	8.7	2.4
M8 x 1.25	16.4	14.8	11.8	2.8

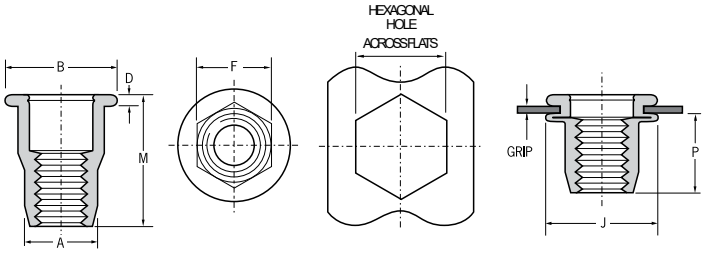
* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

POP® Avdel®

Hexsert® 9498 Series
Steel

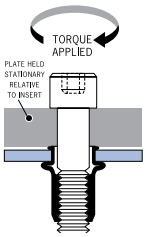
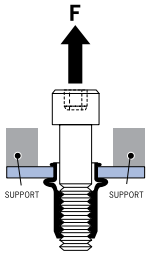
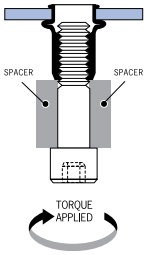
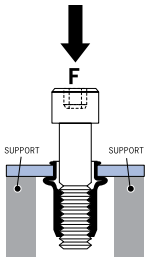
English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué, Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivado claro trivalente

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F rec. +0.1/-0	øA ± 0.08	øB max.	D ± 0.13	F ± 0.08	øJ max.	M ± 0.50	P max.	Part No/ref
M4 x 0.7	0.5	2.0	6.0	5.89	9.17	1.00	5.89	9.2	10.0	5.0	09498-72415
M5 x 0.8	0.5	3.0	7.0	6.89	10.17	1.00	6.89	11.2	13.2	7.5	09498-72516
	3.0	5.5							15.7		09498-72520
M6 x 1.0	0.5	3.0	9.0	8.89	13.20	1.50	8.89	13.4	15.5	10.1	09498-72620
M8 x 1.25	0.5	3.0	11.0	10.89	16.28	1.50	10.89	16.2	18.0	11.4	09498-72823
	3.0	5.5							20.5		09498-72826
M10 x 1.5	1.0	3.5	13.0	12.89	19.10	2.00	12.89	18.5	21.0	13.2	09498-72026
M12 x 1.75	1.5	4.5	16.0	15.89	23.30	2.25	15.89	24.2	27.8	17.0	09498-72235

all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M4 x 0.7	5.1	6.3	4.5	2.2
M5 x 0.8	7.9	8.8	8.6	3.6
M6 x 1.0	12.4	14.4	11.9	5.3
M8 x 1.25	32.0	15.0	25.0	8.0
M10x x 1.5	45.0	19.7	45.2	9.2
M12 x 1.75	60.0	21.3	58.0	10.2

* Values shown are typical and should be validated in the application / Les valeurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essere convalidate nella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

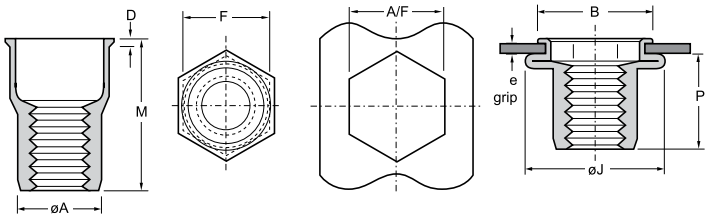
POP® Avdel®

Euro Hexsert® 39101 Series

Steel

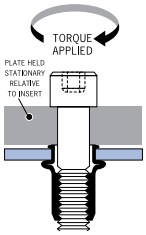
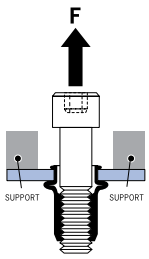
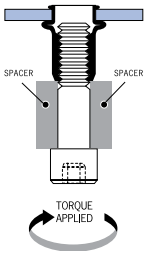
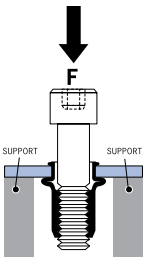
English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA ± 0.08	B max.	D ± 0.07	F ± 0.08	øJ max.	M ± 0.50	P max.	Part No/ref
M4 x 0.7	0.5	2.0	6.0	5.89	7.8	0.69	5.89	9.2	10.5	6.0	39101-74020
M5 x 0.8	0.5	3.0	7.0	6.89	9.1	0.77	6.89	11.2	12.7	8.6	39101-75030
M6 x 1.0	0.5	3.0	9.0	8.89	11.6	0.91	8.89	13.4	15.0	10.1	39101-76030
M8 x 1.25	0.5	3.0	11.0	10.89	14.2	1.07	10.89	16.2	17.5	11.4	39101-78030
M10 x 1.5	1.0	3.5	13.0	12.89	16.4	1.07	12.89	18.9	20.2	13.2	39101-70035

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M4 x 0.7	5.1	6.3	4.2	1.4
M5 x 0.8	7.9	8.8	7.5	2.6
M6 x 1.0	12.4	14.4	10.7	3.2
M8 x 1.25	32.0	15.0	22.7	4.1
M10 x 1.5	45.0	19.7	38.5	5.2

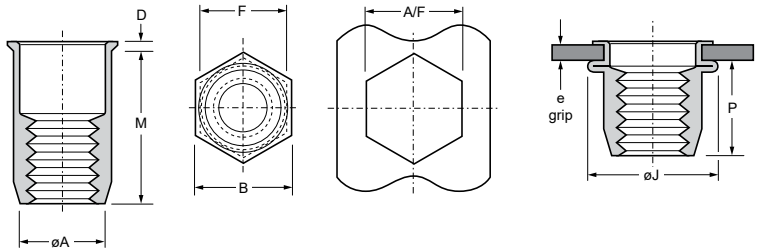
* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

Euro Hexsert® GM05 Series

Steel

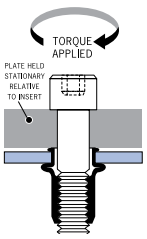
English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a bassotenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA nom.	B max.	D ± 0.20	F ± 0.11	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.5	7.1	0.85	5.89	9.2	12.3	7.7	0GM05-24030
M5 x 0.8	0.5	3.0	7.0	6.5	8.3	0.85	6.89	10.4	13.8	9.5	0GM05-25030
M6 x 1.0	0.5	3.0	9.0	8.5	10.3	0.85	8.89	13.6	15.8	10.4	0GM05-26030
M8 x 1.25	0.5	3.0	11.0	10.5	12.3	0.85	10.89	16.0	17.8	12.4	0GM05-28030
M10 x 1.5	0.5	4.0	13.0	12.5	14.1	0.85	12.89	19.8	21.8	15.0	0GM05-20040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



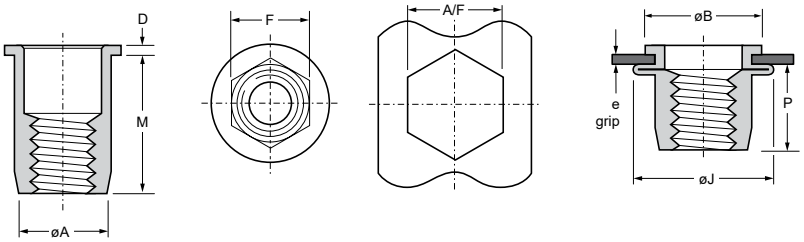
Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4	4.0
M5	6.0
M6	12.0
M8	21.0
M10	32.0

Euro Hexsert® GM06 Series

Steel

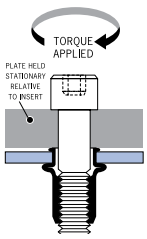
English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a bassotenore di carbonio*	Acero bajo en carbono*
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivadoclaro trivalente

* : SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA nom.	øB max.	D ± 0.13	F ± 0.11	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.5	9.6	1.0	5.89	9.5	12.5	7.4	0GM06-24030
M5 x 0.8	0.5	3.0	7.0	6.5	10.6	1.0	6.89	10.6	14.5	9.5	0GM06-25030
M6 x 1.0	0.5	3.0	9.0	8.5	12.6	1.5	8.89	13.6	17.0	10.9	0GM06-26030
M8 x 1.25	0.5	3.0	11.0	10.4	14.6	1.5	10.89	16.3	19.0	12.4	0GM06-28030
M10 x 1.5	1.0	4.0	13.0	12.5	16.6	2.0	12.89	18.9	24.0	16.1	0GM06-20040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



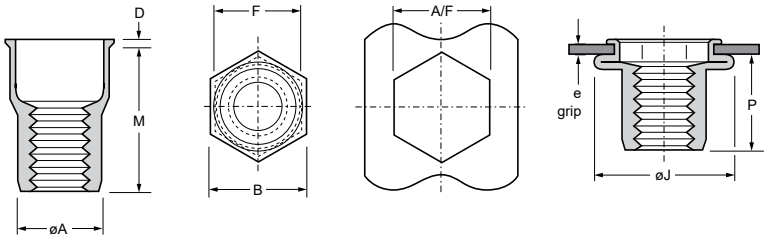
Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4	4.0
M5	6.0
M6	12.0
M8	21.0
M10	32.0

Euro Hexsert® GM41 Series

Stainless steel

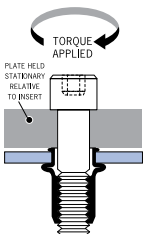
English	Français	Deutsch	Italiano	Español
Low profile	Auto-affleurante	Extra kleiner Kopf	Testa a fila	Sin ala
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Stainless steel* Natural	Inox* Brut	Edelstahl* Blank	Acciaio inox* Nessunafinitura	Acero inoxidable* Natural

* : AISI 302



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA ± 0.11	B max.	D ± 0.20	F ± 0.11	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.89	7.1	0.75	5.89	9.4	12.8	8.6	0GM41-24030
M5 x 0.8	0.5	3.0	7.0	6.89	8.1	0.75	6.89	10.6	14.3	9.1	0GM41-25030
M6 x 1.0	0.5	3.0	9.0	8.89	10.1	0.75	8.89	13.1	16.3	11.3	0GM41-26030
M8 x 1.25	0.5	3.0	11.0	10.89	12.1	0.75	10.89	15.9	17.3	11.9	0GM41-28030
M10 x 1.5	0.8	4.0	13.0	12.89	14.5	0.95	12.89	18.5	20.8	13.5	0GM41-20040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros



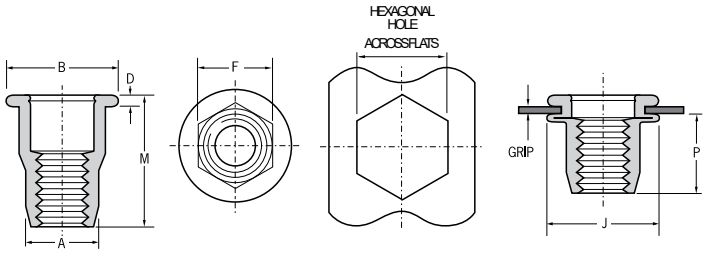
Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4 x 0.7	5.6
M5 x 0.8	10.0
M6 x 1.0	15.0
M8 x 1.25	30.0
M10 x 1.5	35.0

Euro Hexsert® GM42 Series

Stainless steel

English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo
Stainless steel* Natural	Inox* Brut	Edelstahl* Blank	Acciaio inox* Nessunafinitura	Acero inoxidable* Natural

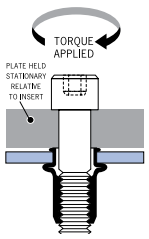
* : AISI 302



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA ± 0.11	øB max.	D ± 0.13	F ± 0.11	øJ max.	M nom.	P max.	Part No/ref
M4 x 0.7	0.5	3.0	6.0	5.89	9.6	1.0	5.89	9.4	13.0	8.3	0GM42-24030
M5 x 0.8	0.5	3.0	7.0	6.89	10.6	1.0	6.89	10.6	14.5	9.2	0GM42-25030
M6 x 1.0	0.5	3.0	9.0	8.89	12.6	1.5	8.89	13.2	17.0	11.2	0GM42-26030
M8 x 1.25	0.5	3.0	11.0	10.89	14.9	1.5	10.89	15.9	19.0	12.3	0GM42-28030
M10 x 1.5	0.8	4.0	13.0	12.89	16.6	2.0	12.89	18.4	24.0	15.1	0GM42-20040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	Recommended max. torque Nm max.
M4	5.6
M5	10.0
M6	15.0
M8	30.0
M10	35.0



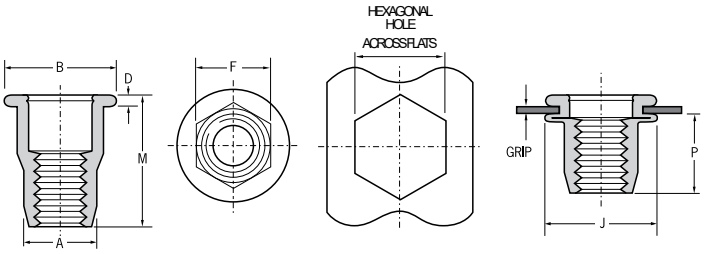
POP® Avdel®

High Strength Hexsert® 39301 Series

Steel

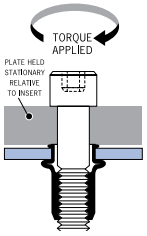
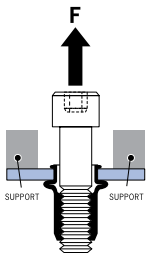
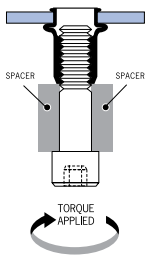
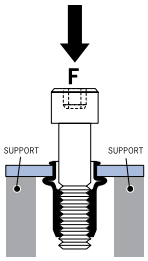
English	Français	Deutsch	Italiano	Español	**
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha	
Hexagonal body	Hexagonal corps	Hexagonaler Schaft	Hexagonal corpo	Hexagonal cuerpo	
Low carbon steel*	Acier bas carbone*	Stahl*	Acciaio a basso tenore di carbonio*	Acero bajo en carbono*	
Zinc plated Clear trivalent passivated	Revêtement zingué Passivation claire trivalente	Verzinkt Klar chromatiert, Cr6-frei	Zincato Passivazione chiara trivalente	Zincado Pasivado claro trivalente	240 h**

*: DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008
**: to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa/ al óxido rojo (ASTM B117)



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F +0.1/-0	øA ±0.08	øB min.	øB max.	D ±0.13	F ±0.08	øJ min.	øJ max.	M nom.	P max.	Part No/ref
M6 x 1.0	0.5	3.0	9.0	8.89	12.80	13.20	1.50	8.89	12.0	13.5	18.8	11.6	39301-26030
M8 x 1.25	0.5	3.0	11.0	10.89	15.68	16.28	1.50	10.89	14.0	16.2	20.4	13.8	39301-28030
M10 x 1.5	1.0	3.5	13.0	12.89	18.50	19.10	2.00	12.89	16.2	19.3	26.0	17.8	39301-20035
M12 x 1.75	1.0	4.0	16.0	15.88	22.60	23.30	2.25	15.90	19.0	24.2	30.8	22.0	39301-22040

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* e max. kN	 Torque-to-turn* e max. Nm	Torque-to-turn* e min. Nm	 Push-out* e max. kN
M6 x 1.0	17.0	20.6	24.7	14.4	7.1
M8 x 1.25	60.0	28.1	34.6	15.6	10.7
M10 x 1.5	100.0	34.2	62.0	60.8	12.5
M12 x 1.75	135.0	40.9	135.0	62.0	18.3

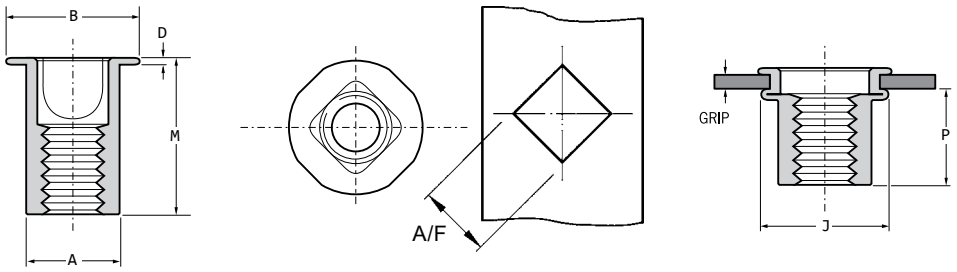
* Values shown are typical and should be validated in the application / Les valeurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essere convalidate nella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

POP® Avdel®

Squaresert® GK08 Series
Steel

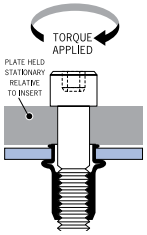
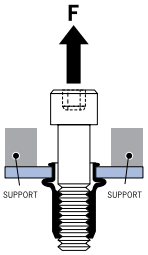
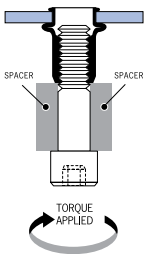
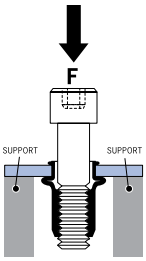
English	Français	Deutsch	Italiano	Español
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha
Square section	Corps carré	Vierkantschaft	Corpo quadrati	Cuerpo quadrado
Low carbon steel* Zinc plated Clear trivalent passivated	Acier bas carbone* Revêtement zingué Passivation claire trivalente	Stahl* Verzinkt Klar chromatiert, Cr6-frei	Acciaio a bassotenore di carbonio* Zincato, Passivazione chiara trivalente	Acero bajo en carbono* Zincado Pasivadoclaro trivalente

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008



Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.	A/F ±0.1	øA max.	B max.	D max.	J max.	M max.	P max.	Part No/ref
M5 x 0.8	0.50	1.50	7.3	7.1	10.9	0.65	10.4	11.4	8.2	0GK08-72514
	1.50	3.00						13.0		0GK08-72516
M6 x 1.0	0.50	2.00	9.3	9.1	13.5	0.95	13.5	15.5	9.9	0GK08-72619
	2.00	4.00						17.5		0GK08-72622
M8 x 1.25	0.65	3.00	11.3	11.1	18.0	1.65	16.4	18.9	11.8	0GK08-72823

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Thread filetage / Gewinde / filetto / rosca	 Recommended max. torque Nm max.	 Pull-out* kN	 Torque-to-turn* Nm min.	 Push-out* kN
M5 x 0.8	7.9	5.5	10.2	2.4
M6 x 1.0	12.4	7.3	15.4	4.6
M8 x 1.25	32.0	10.5	34.0	6.5

* Values shown are typical and should be validated in the application / Lesvaleurs indiquées sont typiques et doivent être validées dans l'application / Die angegebenen Werte sind typisch und müssen in der Anwendung validiert werden / I valori riportati sono tipici e devono essereconvalidatenella applicazione / Los valores mostrados son típicos y deben ser validados en la aplicación

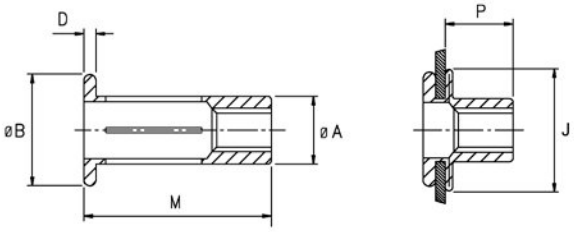
POP® Avdel®

Versa-Nut® VN21 Series

Steel

English	Français	Deutsch	Italiano	Español	** / ***
Large flange	A collerette	Flachkopf	Flangiato	Ala ancha	
Slotted body	Corps préfendu	Geschlitzte Hülse	Corpo fessurato	Cuerpo ranurado	
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	240 h**/ 96 h***
Clear trivalent passivated	Passivation claire trivalente	Klar chromatiert, Cr6-frei	Passivazione chiara trivalente	Pasivado claro trivalente	

* : DIN EN 10263-2 Qst 34-3, BSEN/DIN 10263-2 C8C, Werkstoff 1.0213, SAE 1008
**: to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa / al óxido rojo (ASTM B117)
***: to white rust / à la rouille blanche / bis Weißrost / alla ruggine bianca / al óxido blanco



Thread filetage / Gewinde / filetto / rosca	min.	max.	min.	max.	ø A max.	ø B max.	D max.	J max.	M max.	P max.	Nm[1]	Part No/ref
M5 x 0.8	0.50	4.45	7.48	7.62	7.47	12.95	1.09	18.0	22.39	9.90	7.9	0VN21-02528
	4.45	8.10							25.16			0VN21-02531
M6 x 1.0	0.50	7.10	8.80	8.93	8.79	16.12	1.63	22.0	27.30	12.80	12.4	0VN21-02634
	7.10	12.70							33.22			0VN21-02641
M8 x 1.25	0.50	7.10	11.11	11.50	11.10	19.29	1.70	26.0	30.92	14.47	32.0	0VN21-02838
	7.10	12.70							36.87			0VN21-02846

all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

1) Recommended maximum torque as applied to a joint with a static top plate. Thread of rivet nut will not be damaged. However this torque value may exceed the strength of the screw or bolt in question. Always refer to the recommended tightening torque limits for the screw or bolt.

Couple maximum recommandé pour un assemblage avec plaque supérieure statique. Le filet de l'insert reste intact. Ce couple peut néanmoins dépasser la résistance de la vis ou du boulon en question. Veillez toujours à vous référer aux limites de couple de serrage recommandées pour la vis ou le boulon.

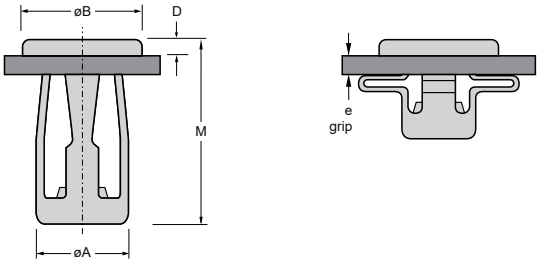
Empfohlenes maximales Drehmoment für eine Verbindung bei der das obere an die Mutter anzuschraubende Bauteil fest eingespannt ist. Das Gewinde wird nicht beschädigt. Möglicherweise übersteigt dieser Anzugswert die Festigkeit der Schraube. Beziehen Sie sich immer auf die max. Anzugswerte der Schraube.

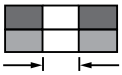
Coppia massima raccomandata applicata a una giuntura con piastra superiore statica. La filettatura dell'inserto non verrà danneggiata, comunque questa copppia può superare la resistenza della vite o del vullone impegato. Verificare sempre le coppie di serraggio raccomandate della vite o bullone impiegato.

Par máximo recomendado aplicado a la unión con la placa superior estática. La rosca del inserto no queda dañada. Sin embargo este valor de par puede superar la resistencia del perno o tornillo en cuestión. Siempre consultar los límites de par de apriete recomendados para el perno o tornillo.

Jack Nut® JNL / JNS Series
Steel

English	Français	Deutsch	Italiano	Español
Standard flange	A collerette	Flachkopf	Flangiato	Ala ancha
Slotted body	Corps préfendu	Geschlitzte Hülse	Corpo fessurato	Cuerpo ranurado
Steel Zinc plated Clear passivated	Acier Revêtement zingué Passivation claire	Stahl Verzinkt Klar chromatiert	Acciaio Zincato Passivazione chiara	Acero Zincado Pasivado claro



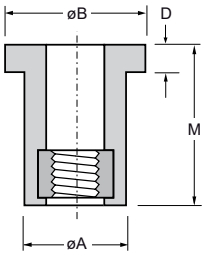
Thread filetage / Gewinde / filetto / rosca	e (grip) min.	 max.		øA max.	øB max.	D nom.	M nom.	Part No/ref
M4 x 0.7	0.40	4.80	8.40	8.28	12.20	1.85	16.80	JNS-04
	4.80	9.50			12.20		21.40	JNL-04
M5 x 0.8	0.40	4.80	10.10	10.06	13.74	1.85	17.90	JNS-05
	4.80	9.50			13.74		22.20	JNL-05
M6 x 1.0	0.40	4.80	11.50	11.50	16.13	1.90	18.20	JNS-06
	4.80	9.50					23.00	JNL-06

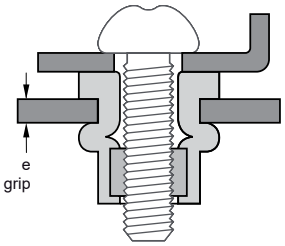
all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Well-Nut® WNPA Series

Neoprene / Brass

English	Français	Deutsch	Italiano	Español
Standard flange	A collerette standard	Standard Flachkopf	Flangiato standard	Ala estándar
Round body	Corps rond	Runder Schaft	Corpo tondo	Cuerpo redondo
Neoprene	Néoprène	Neopren	Neoprene	Neopreno
Brass	Laiton	Kupfer-Zink Legierung	Ottone	Latón





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.		øA nom.	øB nom.	D nom.	M nom.	Tightening Torque[1] Nm nom.	Part No/ref
M3 x 0.5	0.40	4.00	8.10	7.90	11.00	1.20	12.60	0.40	WNPA-0311-E632
M4 x 0.7	0.40	4.00	8.10	7.90	11.00	1.20	12.60	0.30	WNPA-0411-B832
M5 x 0.8	0.40	4.90	9.80	9.60	12.70	0.90	14.10	0.40	WNPA-0514-10S
	0.90	5.90			14.00	1.00	17.00	0.50	WNPA-0516-Q1032
	4.00	10.00				0.90	21.50	0.60	WNPA-0521-H1032
	7.90	15.00				1.30	26.50	0.50	WNPA-0525-10SL
M6 x 1.0	0.40	4.00	12.90	12.70	16.00	1.30	16.00	0.80	WNPA-0615-1/4S
	4.70	8.70					20.30	0.80	WNPA-0619-W1420
	6.40	11.50			16.30	2.00	26.70	0.90	WNPA-0625-J1420
M8 x 1.25	0.40	4.00	16.10	15.90	21.50	3.20	18.30	1.20	WNPA-0815-E51618

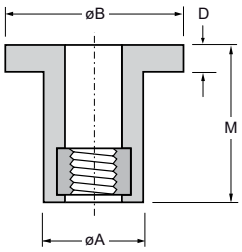
all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

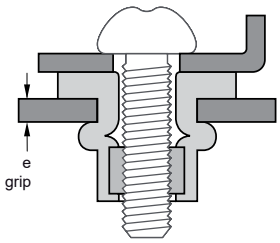
1) couple de serrage / Anzugsdrehmoment / coppia di serraggio / par de apriete

Well-Nut® WNPL Series

Neoprene / Brass

English	Français	Deutsch	Italiano	Español
Large flange	A collerette large	Großer Flachkopf	Flangiato largo	Ala larga
Round body	Corps rond	Runder Schaft	Corpo tondo	Cuerpo redondo
Neoprene	Néoprène	Neopren	Neoprene	Neopreno
Brass	Laiton	Kupfer-Zink Legierung	Ottone	Latón





Thread filetage / Gewinde / filetto / rosca	e (grip) min.	e (grip) max.		øA nom.	øB nom.	D nom.	M nom.	Tightening Torque[1] Nm nom.	Part No/ref
M3 x 0.5	9.50	13.00	6.30	6.10	14.00	0.90	24.90	0.40	WNPL-0324-C632
M4 x 0.7	0.40	4.40	8.10	7.90	19.10	1.50	14.20	0.30	WNPL-0413-C832
M5 x 0.8	0.80	5.80	9.80	9.60	19.00	4.70	21.00	0.50	WNPL-0516-G1032
	0.80	5.80				2.00	18.00		WNPL-0516-J1032
M6 x 1.0	0.80	4.70	12.90	12.70	19.10	4.80	21.10	0.90	WNPL-0615-D1420

all dimensionsin mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

1) couple de serrage / Anzugsdrehmoment / coppia di serraggio / par de apriete

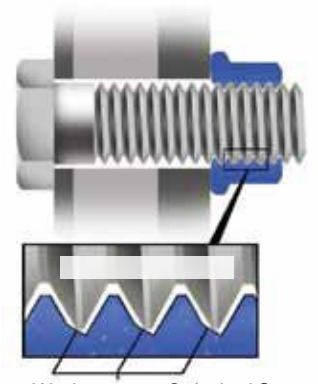
Notes

Spiralock® Self-locking Threaded Solutions

Spiralock is a unique and proprietary preload locking internal (female) thread form that's exceptionally resistant to transverse vibration - the primary cause of thread loosening. Proven in thousands of applications, Spiralock threaded holes and nuts accept standard male fasteners, eliminate the need for other locking devices, and substantially reduce the potential for fatigue failure when compared to standard threads.

Key features and benefits

- Exceptionally resistant to vibration loosening
- Eliminates need for other locking devices
- Accepts standard male fasteners
- Improves joint fatigue life
- Consistent reusability
- Eases assembly, reducing assembly time
- Reduces life cycle cost of threaded joints



Wedge ramp Spiralock®
female thread

Product Range

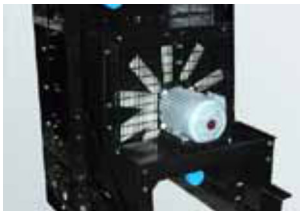
- Nuts
- Self-Clinching Nuts
- Threaded Inserts
- Taps
- Threading Inserts
- Thread Gages
- Thread Milling Cutters

Explainer Video

Please take a moment to watch this short explainer video about the Spiralock thread form on www.StanleyEngineeredFastening.com/resource-center/video-gallery

Assembly applications

- Automotive body & powertrain
- Heavy trucks
- Recreational vehicles
- Aerospace & Spacecraft
- Medical equipment
- Agricultural & Construction equipment



POP® Avdel®

POP®& Avdel® have been producing assembly systems since the 1930s and offer comprehensive ranges of innovative fasteners and installation systems to all market segments and applications. STANLEY Engineered Fastening offers POP Avdel products through Sales, Distribution and Manufacturing facilities in over 150 countries. Covered by the portfolio are:

Breakstem Riveting Systems
Various features from multi-grip capability to high strength stainless steel rivets.

Lockbolt Systems
High clamp force and vibration resistance for the highest strength joints.

Speed Fastening® Systems
Extra fast and reliable fastening from one side. Rivets are fed automatically.

Sealing Plugs
Engineered for both low-pressure and high-pressure hole sealing applications.

Blind Rivet Nuts
Fast system for sustainable threads with high torque-to-turn.

Customised Fastener Designs
Bespoke designs and finishes to meet your unique assembly requirements.

Installation Equipment
From manually operated power tools to customised semi and fully automated assembly workstations and repair tools.

We can also provide you with:

MASTERFIX

One-stop shopping for the blind riveting distributor market. MasterFix® owes its excellent reputation to the successful distribution of the broadest range of blind rivets and blind rivet nuts in the business.

CRIBMASTER

Spiralock®

Spiralock® is a technologically superior fastening system ideally suited for threaded joint applications subjected to heavy shock and vibration.

STANLEY®
Engineered Fastening

STANLEYEngineered Fastening, a Stanley Black & Decker Inc. Company has been revolutionising fastening and assemblytechnologies for a variety of industries for more than 40 years.

For more information, please visit our website
stanleyengineeredfastening.com

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