

FEATURES

- A blind rivet is a low-cost two part fastener designed to join two or more pieces of material, whether they're the same or different materials to create a permanent joint
- Can be used where only one side of the application is accessible
- Extensively used where a greater surface area is required
- Used for multiple applications
- Easy to install

RS PRO LARGE FLANGE HEAD STANDARD OPEN BLIND RIVET – ALUM/STEEL

RS Stock No.: 2231142,2231143,2231144,2231145,2231146,2231147



Rivets

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

A blind rivet is a low-cost permanent fastener designed to join two or more pieces of material, whether they're the same or different materials and where only one side is accessible.

A blind rivet consists of two parts: -

- the rivet body, also referred to as the body or shank
- and within it, the setting device, the mandrel or stem

The materials for each part can be made of different materials to give a variety of combinations.

The large flange head is extensively used where a greater surface area is required. This is where there may be dissimilar metals, where one is softer than the setting material or some plastics. The blind rivet can be used in a conventional way of fixing or in multiple materials.

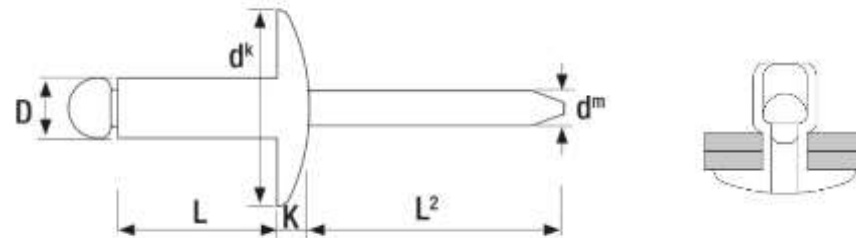
The most common and widely used rivet range. Used in a multitude of industries such as aerospace, automotive, rail, HVAC, white goods, electronics, and general engineering. DIY

General Specifications

BODY: Aluminium (AlMg3.5)

MANDREL: Steel Zinc&Cr Tri3

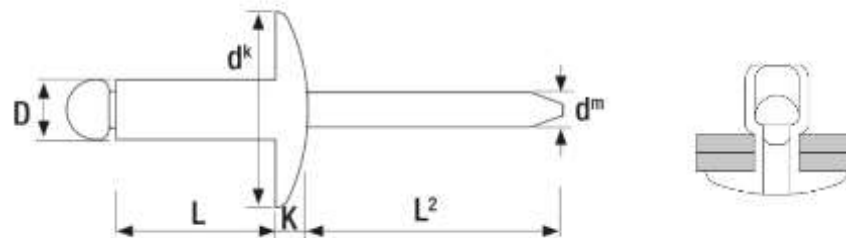
Nominal Diameter mm (D)	Article Number	Body Length mm (L)	Grip Range Min mm	Grip Range Max mm	Hole Size mm	Flange Diameter mm (d ¹)	Flange Thickness mm (K)	Nom. Mandrel Diameter mm (d ²)	Min Mandrel Length mm (L ²)	Shear Strength N	Tensile Strength N	Bag Quantity
4.0	2231142	8.0	2.0	4.0	4.1	12.0	2.5	2.10	27.0	1180	1600	100
	2065400	10.0	5.0	6.5								100
	2065401	12.0	6.5	8.5								100
	2065402	14.0	9.0	10.5								100
	2231143	16.0	10.0	12.0								100



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MANDREL: Steel Zinc&Clr Tri3

Nominal Diameter mm (D)	Article Number	Body Length mm (L)	Grip Range Min mm	Grip Range Max mm	Hole Size mm	Flange Diameter mm (d ^k)	Flange Thickness mm (K)	Nom. Mandrel Diameter mm (d ^m)	Min Mandrel Length mm (L ²)	Shear Strength N	Tensile Strength N	Bag Quantity
4.8	2065404	10.0	4.5	6.0	4.9	14.0	2.5	2.70	28.0	1540	2230	100
	2065406	12.0	6.0	8.0								50
	2065409	16.0	10.0	12.0								50
	2231145	20.0	13.0	15.0								50
	2231146	24.0	17.0	19.0								50
	2065405	10.0	3.5	5.5	4.9	16.0	2.5	2.70	28.0	1540	2230	50
	2065407	12.0	5.5	7.5								50
	2065408	14.0	7.5	9.5								50
	2065410	16.0	10.0	12.0								50
	2231144	18.0	11.0	13.0								50
	2065411	20.0	14.0	16.0								50
	2065412	24.0	18.0	20.5								50
	2231147	26.0	19.5	21.0								50

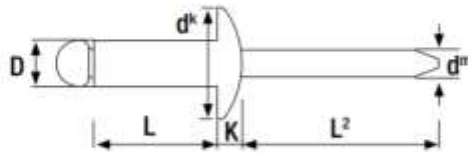


TECHNICAL DATA

HOW TO MEASURE A BLIND RIVET

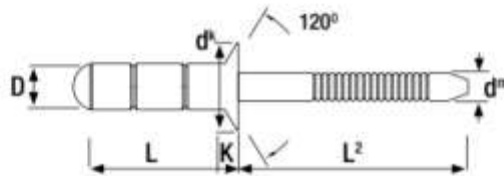
DOME HEAD AND LARGE FLANGE HEAD - the rivet body length (L) is always measured from under the head to the end of the body.

D = body diameter
 L = body length
 d^h = rivet head diameter
 K = rivet head thickness
 d^m = mandrel diameter
 L^2 = minimum mandrel length

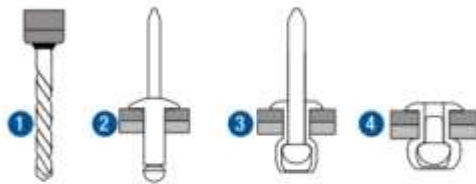


COUNTERSUNK HEAD - the rivet body length (L) is always measured from the top of the head to the end of the body.

D = body diameter
 L = body length
 d^h = rivet head diameter
 K = rivet head thickness
 d^m = mandrel diameter
 L^2 = minimum mandrel length



HOW TO INSTALL A BLIND RIVET



- 1 Firstly drill the hole.
- 2 To set a rivet, the rivet is placed into the setting tool and then into a pre-drilled hole. It is fixed by the jaws within the tool pulling the mandrel head into the rivet body, expanding the body and causing it to flare against the reverse (blind) side of the application.
- 3 As the head of the mandrel reaches the face of the blind side material, the mandrel will snap at the break point of the mandrel when it has reached its predetermined breaking force.
- 4 A tight joint is formed as the rivet body remains, gripping the material and encapsulating the head of the mandrel within.