BÖLLHOFF

HUCK®

Structural rivets, lockbolts,
riveters and installation tools

HUCK® structural rivets and lockbolts are specially designed and manufactured for use in applications with fastening requirements where high strength and safety are key factors, creating a high-quality, maintenance-free joint with a long lifetime.

These fasteners have high tensile strength, shear strength and vibration resistance. They are a good alternative to welding and a more effective fixing system than using nuts and bolts. Both the HUCK® structural rivet and the HUCK® lockbolt offer advantages that no other fastening system can match.

Böllhoff also supplies a wide range of HUCK® riveters, specially designed to install HUCK® structural rivets and lockbolts, ensuring fast, simple, cost-effective and high-quality installation that only requires a simple visual inspection after installation.

At present, HUCK® structural rivets and lockbolts are used in a variety of applications in numerous industrial sectors, such as structural steelwork, buses, lorries and trailers, ventilation and air conditioning equipment, the railway industry, renewable energies and many more.

Useful information

- The company reserves the right to make changes to the products included in this catalogue without prior notice in order to improve their quality.
- Contact us for stock availability.
- The information contained in this catalogue is provided by way of example, only as a general guide on the properties of the products and/or how to select the products. It does not provide any express, implied or statutory warranties, which are included in Böllhoff's quotations, order receipts or orders. The user is advised to use up-to-date and application-specific information.

HUCK® - Table of contents

HUCK® - Selection guide

	Material			Head				
	Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
Magna-Lok® structural rivet	•	•	•	•	•	•		8
Auto-Bulb™ structural rivet	•	•				•		17
Magna-Tite™ structural rivet			•			Flat profile		18
Magna-Bulb® structural rivet	•					•		21
HuckLok™ structural rivet	•					•		22
BOM® structural rivet	•						Standard	23

- With a wide grip range: able to accommodate variations in thickness.
- Large grip area ensures that the housing is completely filled on the blind side ensuring strong and secure fastening, resistant to water ingress.
- Internal locking mechanism of the mandrel, which strengthens the joint and offers greater protection against corrosion.
- Flush after installation.

- High shear & tensile strength.
- Rivet body and head have a special design that makes it easy to insert the rivet into the housing of the parts being joined: suitable for automatic installation.
- Large grip area, especially for joints in fragile materials or thin sheet metal.
- Flush after installation. Quick and easy visual inspection.

- Watertight, especially for roofs or similar applications.
- Wide grip range.
- Very large grip area and low transfer of stresses, especially for fragile materials (plastics, composites) and thin sheet metal.
- Flush after installation.
- Quick and easy visual inspection.

- Internal locking mechanism of the mandrel, which strengthens the joint and offers greater protection against corrosion.
- High shear and tensile strength.
- Large grip area, especially for fragile materials or thin sheet metal.
- Highly vibration-resistant.
- Flush after installation. Quick and easy visual inspection.

- They combine the wide grip range of the Magna-Lok® with the high shear strength of the Magna-Bulb®.
- Large grip area, especially for fragile materials or thin sheet metal.
- High shear and tensile strength and vibration resistance.
- Wide grip range.
- Flush after installation.
- Quick and easy visual inspection.

- Extremely strong, with a high strength/diameter ratio, especially for very demanding structural applications (it can be used as an alternative to threaded fasteners or welding).
- High pull-out and wear resistance.
- Large grip area, especially for fragile materials or thin sheet metal.
- Outstanding watertightness compared to conventional blind rivets.

	Material			Head				
	Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		

FloorTight® structural rivet

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●						Countersunk	25

- They offer greater strength than conventional floor screws: fewer fasteners and fewer drill holes are required.
- High-strength structural rivets.
- Countersunk head that is completely flush once the rivet is in place.
- Wide grip range.

Magna-Grip® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●		●		●	●	Rivet	27

- Wide grip range.
- Highly vibration-resistant.
- A wide range of applications covered by a single lockbolt.
- Mandrel break notch at the end of the collar.

C6L® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●	●	●		●	●	Round	37

- Highly durable and resistant to vibrations.
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses.
- Large head collar available for use on non-metal materials.

C120L® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●				●	●	Round	46

- Small diameter and grade 8.8 strength (upgraded version of the C6L®).
- Highly durable and resistant to vibrations.
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses.
- Large head collar available for use on non-metal materials.

C50L® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●	●	●		●	●	Round	50

- Fastener for harsh conditions.
- The lockbolt's collar has a large diameter and grade 8.8 strength.
- Highly vibration-resistant.
- Easy to visually inspect installation quality.

Hucktainer® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●			Standard flat	Standard medium	Standard large		61

- Specially designed for fixing glass sheets to metal structures.
- They do not break or damage composite boards.
- The whole mandrel head is watertight.
- Flush on both sides after installation.

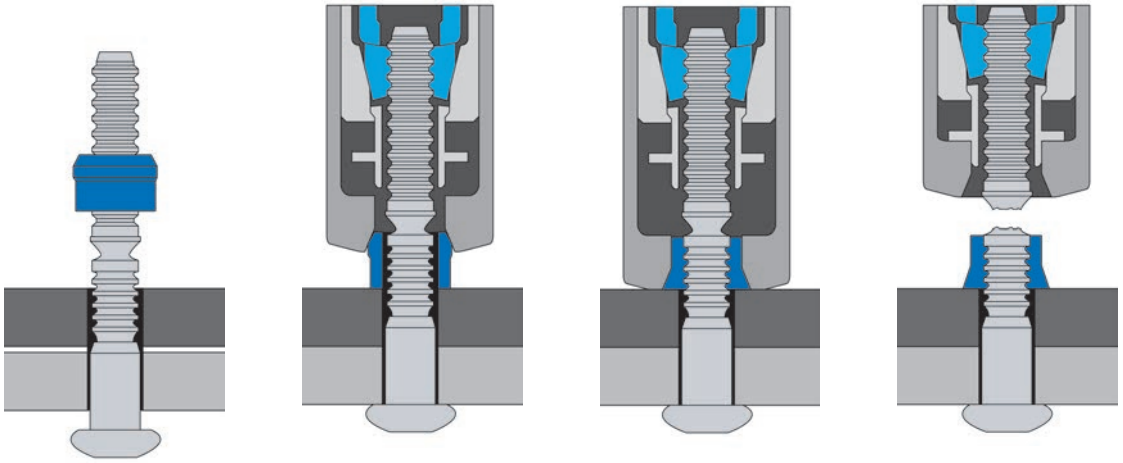
BobTail® lockbolt

Steel	Stainless steel	Aluminium	Pan	Countersunk	Flat		
●					Round	Wide flange	66

- Bolt or mandrel made of grade 10.9 steel with no break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation.
- Greater grip provided by the collar and rivet head.
- Installed with a semi-automatic rivet gun: more accurate and quicker installation.
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase.

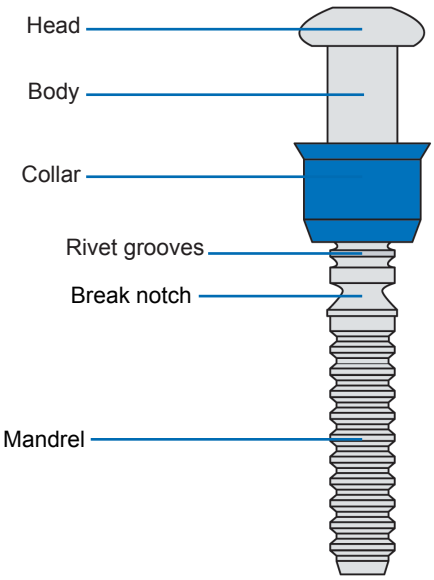
Installation process

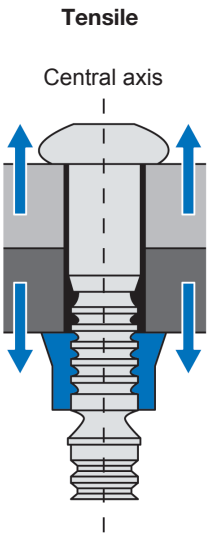
1. Firstly, the lockbolt is inserted into the bore hole of the parts being joined. On the other side, the collar is placed on the rivet mandrel, which is then inserted into the nose piece of the riveting machine.
2. When the rivet gun is activated, the rivet head exerts pressure on the material and the nose piece presses the collar against the parts being joined, completing the first fastening phase.
3. The machine presses the collar against the mandrel grooves, strengthening the joint.
4. The mandrel splits at collar level, locking the mandrel in place and completing the installation.

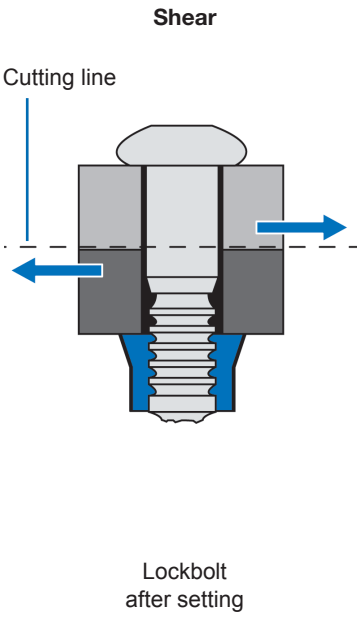


The shear strength of HUCK® lockbolts depends on the properties of the material from which they are made and the diameter of the rivet. The greater the diameters or strength of the material, the higher the shear strength.

The tensile strength depends on the strength of the collar material and the number of rivet grooves that are filled with the collar material when it is pressed into place.



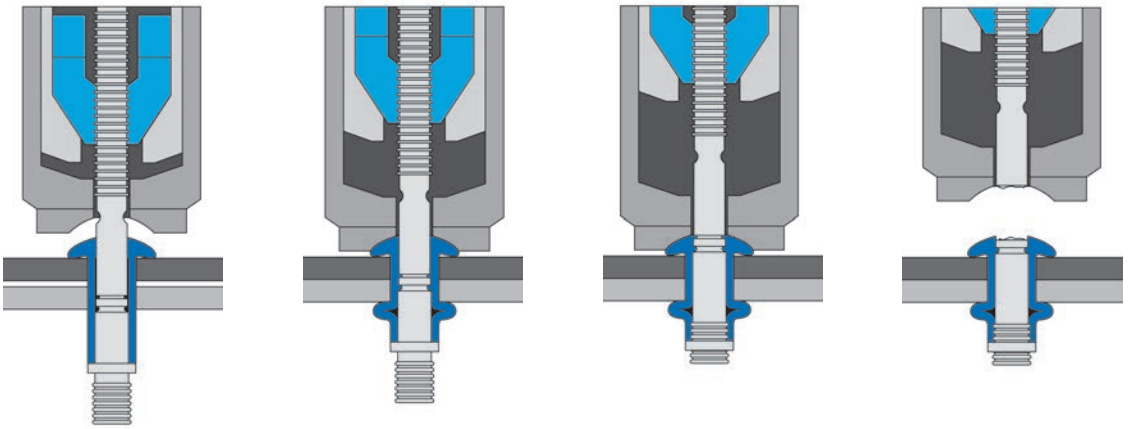




HUCK® structural rivet operation

Installation process

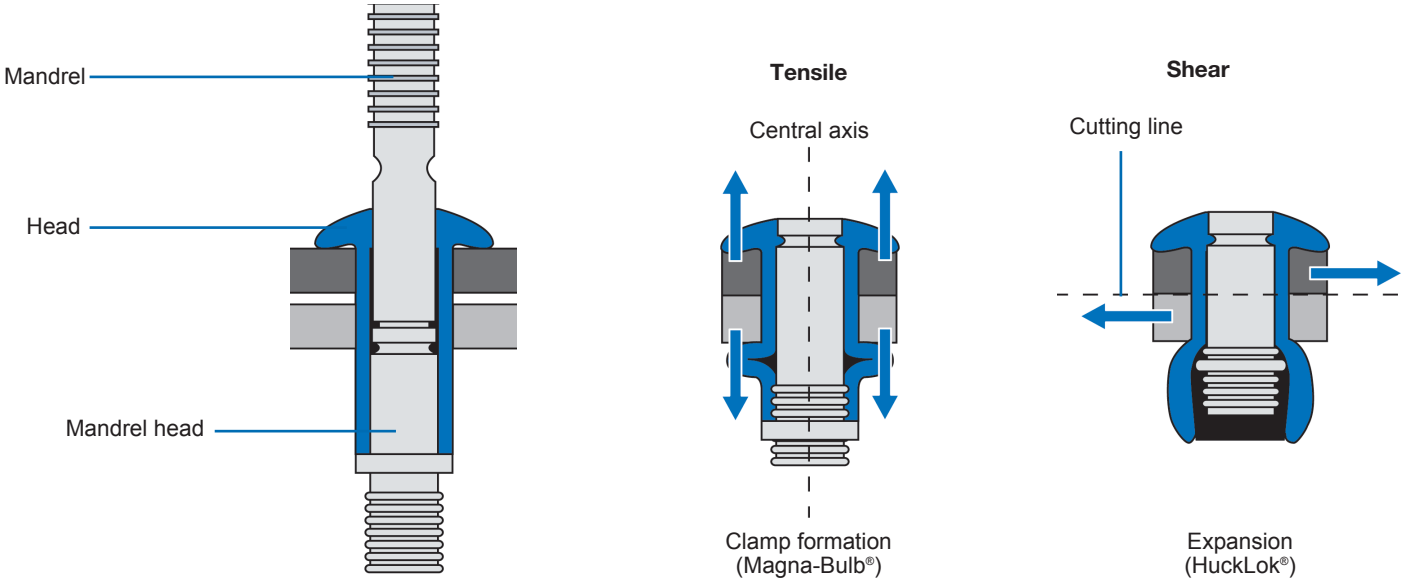
1. Firstly, the rivet is placed in the nose piece of the rivet gun and then the machine is used to insert the rivet into the bore hole of the parts.
2. As the rivet gun is operated, the blind side of the rivet starts to deform.
3. The joint is secured and the rivet's internal locking mechanism is formed.
4. The mandrel splits at head level, locking the mandrel in place and completing the installation.



The shear strength of HUCK® structural rivets depends on the combined strength of the mandrel and the rivet head. This occurs along the central axis, which is also the contact line between the joined parts.

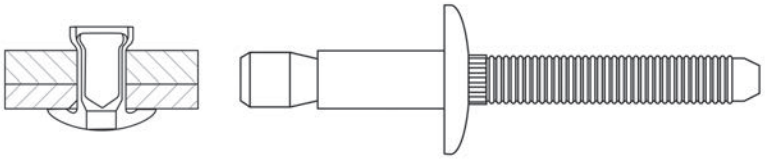
Their tensile strength differs from that of lockbolts because, when setting structural rivets, the blind side becomes deformed or clamped due to the expansion or compression of the rivet body, which in turn resists tensile stress along its central axis thanks to the reinforcement provided by the mandrel, which remains in the rivet body.

1. Deformation of the rivet body due to compression: when the rivet gun is operated, the body of the rivet is compressed, forming a clamp which presses against the joint between the parts. Then the mandrel splits at head level, locking the mandrel in place and completing the installation.
2. Deformation of the rivet body due to expansion: when the rivet gun is operated and the mandrel is pulled through, its head is pushed into the mandrel body, which widens it and presses it against the joint between the parts.



Magna-Lok® - Aluminium

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: aluminium | Mandrel: aluminium | Head: pan

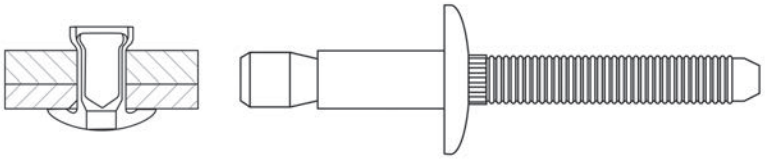
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	18.29	9.78	2.16	4.85 - 5.11	1.57 - 6.86	2.2	2.7	0.3	MGLP-B6-4
	22.35				5.44 - 11.10				MGLP-B6-7
	30.33				14.27 - 19.02				MGLP-B6-12
	25.91				1.57 - 11.10				MGLP-B6-E
6.4 6.35	18.29	13.44	3.02	6.63 - 6.91	2.03 - 6.35	4.0	5.8	0.4	MGLP-B8-4
	24.64				2.03 - 9.53				MGLP-B8-6
	30.99				8.89 - 15.88				MGLP-B8-10
	37.34				14.73 - 22.23				MGLP-B8-14
	43.69				21.08 - 28.58				MGLP-B8-18
	50.04				27.43 - 34.93				MGLP-B8-22
	35.69				2.03 - 15.88				MGLP-B8-E
9.5 9.53	41.91	20.14	4.47	9.96 - 10.36	3.05 - 15.88	8.5	13.1	1.1	MGLP-B12-12
	56.26				15.88 - 28.58				MGLP-B12-18
	65.79				25.4 - 38.10				MGLP-B12-24
12.7	50.80	26.92	6.10	13.49 - 14.30	4.06 - 19.05	18.2	22.06	1.7	MGLP-B16-12

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: steel | Mandrel: steel | Head: pan

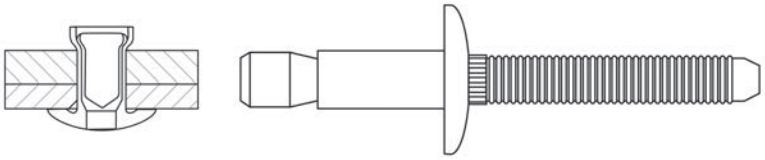
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	18.29	9.78	2.16	4.85 - 5.11	1.57 - 6.86	4.4	5.8	0.7	MGLP-R6-4
	22.35				5.44 - 11.10				MGLP-R6-7
	30.33				14.27 - 19.02				MGLP-R6-10
	25.91				1.57 - 11.10				MGLP-R6-E
6.4 6.35	24.64	13.44	3.02	6.63 - 6.91	2.03 - 9.53	8.2	11.1	1.3	MGLP-R8-6
	30.99				8.89 - 15.88				MGLP-R8-10
	37.34				14.73 - 22.23				MGLP-R8-14
	43.69				21.08 - 28.58				MGLP-R8-18
	50.04				27.43 - 34.93				MGLP-R8-22
	35.69				2.03 - 15.88				MGLP-R8-E
9.5 9.53	41.91	20.14	4.47	9.96 - 10.36	3.05 - 15.88	17.8	26.7	2.7	MGLP-R12-12
	56.26				15.88 - 28.58				MGLP-R12-18
	65.79				25.4 - 38.10				MGLP-R12-24
12.7	50.80	26.92	6.10	13.49 - 14.30	4.06 - 19.05	31.1	44.4	4.5	MGLP-R16-12

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Stainless steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: stainless steel | Mandrel: stainless steel | Head: pan

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	10.52	9.96	2.57	4.85 - 5.11	1.57 - 6.86	4.2	5.8	0.4	MGLP-U6-4
	14.53				5.44 - 11.10				MGLP-U6-7
	20.45				11.56 - 16.89				MGLP-U6-10
	14.53				1.57 - 11.10				MGLP-U6-E
	17.02				5.44 - 13.46				MGLP-U6-E8
	18.59				5.44 - 15.04				MGLP-U6-E9
	20.45				6.35 - 16.89				MGLP-U6-E10
6.4 6.35	18.29	13.44	3.02	6.63 - 6.91	2.03 - 6.35	8.0	10.5	0.9	MGLP-U8-4
	23.37				2.03 - 9.53				MGLP-U8-6
	24.89				2.03 - 11.10				MGLP-U8-7
	30.99				8.89 - 15.88				MGLP-U8-10
	35.69				2,03 - 15,88				MGLP-U8-E
9.5 9.53	41.91	19.99	4.45	9.96 - 10.36	3.05 - 15.88	17.8	26.7	2.7	MGLP-4U12-12
	56.26				15.88 - 28.58				MGLP-U12-18

Magna-Lok® - A4 stainless steel

Body: A4 stainless steel | Mandrel: A4 stainless steel | Head: pan

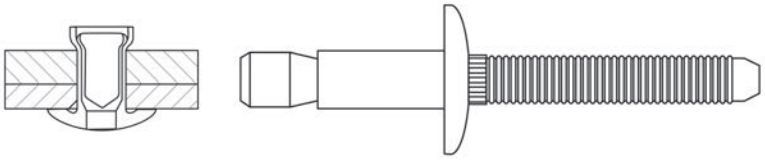
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
6.4 6.35	23.37	13.44	3.02	6.62 - 6.90	2.03 - 9.53	8.0	10.5	0.88	MGLP-316U8-6

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Aluminium

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: aluminium | Mandrel: aluminium | Head: flat

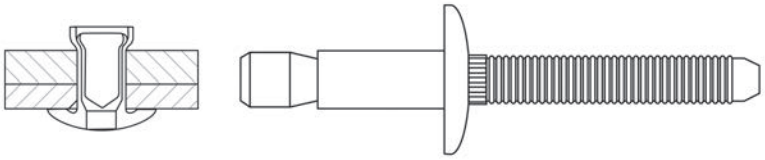
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	18.03	13.49	2.34	4.85 - 5.11	1.57 - 6.86	2.2	2.7	0.3	MGLT-B6-4
	21.97				5.44 - 11.10				MGLT-B6-7
	25.78				1.57 - 11.10				MGLT-B6-E
6.4 6.35	24.64	15.04	3.02	6.63 - 6.91	2.03 - 9.53	4.0	5.8	0.4	MGLT-B8-6
	30.99				8.89 - 15.88				MGLT-B8-10
	35.69				2.03 - 15.88				MGLT-B8-E
9.5 9.53	41.91	22.78	4.47	9.96 - 10.36	3.05 - 14.22	8.5	13.1	1.1	MGLT-B12-12
	65.79				25.4 - 38.10				MGLT-B12-24

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: steel | Mandrel: steel | Head: flat

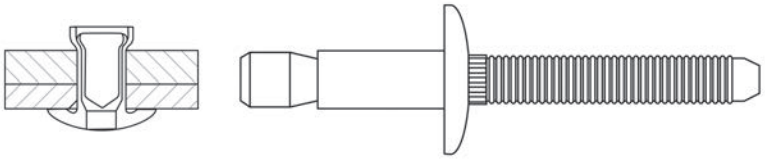
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	18.03	13.49	2.34	4.85 - 5.11	1.57 - 6.86	4.4	5.8	0.7	MGLT-R6-4
	21.97				5.44 - 11.10				MGLT-R6-7
	25.78				1.57 - 11.10				MGLT-R6-E
6.4 6.35	24.64	15.04	3.02	6.63 - 6.91	2.03 - 9.53	8.2	11.1	1.3	MGLT-R8-6
	30.99				8.89 - 15.88				MGLT-R8-10
	35.69				2.03 - 15.88				MGLT-R8-E

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Stainless steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: stainless steel | Mandrel: stainless steel | Head: flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
6.4 6.35	24.64	15.04	3.02	6.63 - 6.91	2.03 - 9.53	8.0	10.5	0.9	MGLT-U8-6
	30.99				8.89 - 15.88				MGLT-U8-10
	35.69				2.03 - 15.88				MGLT-U8-E

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
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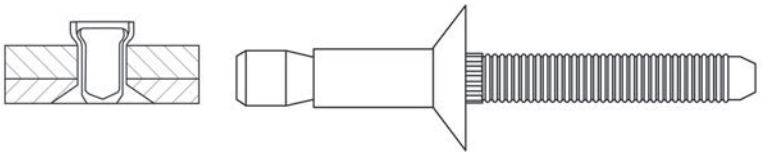


Body: steel | Mandrel: steel | Head: countersunk

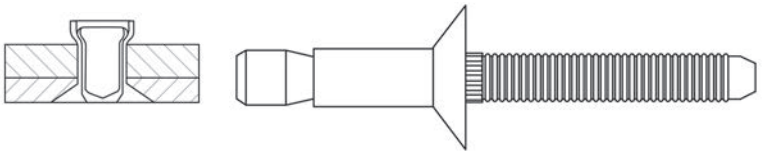
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	20.19	8.89	1.93	4.85 - 5.11	3.18 - 8.41	4.4	5.8	0.7	MGL100-R6-6
4.76	24.43				7.75 - 12.70				MGL100-R6-9
6.4	26.90	10.41	2.16	6.63 - 6.91	4.06 - 12.07	8.2	11.1	1.3	MGL100-R8-8
6.35	33.25				10.54 - 18.42				MGL100-R8-12
9.5	42.42	15.93	3.38	9.96 - 10.36	6.10 - 19.05	17.79	26.7	2.66	MGL100-R12-12
12.7	56.77	22.10	5.00	13.49 - 14.30	10.03 - 19.05	31.1	44.4	4.5	MGL100-R16-12

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Aluminium

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection



Body: aluminium | Mandrel: aluminium | Head: pan

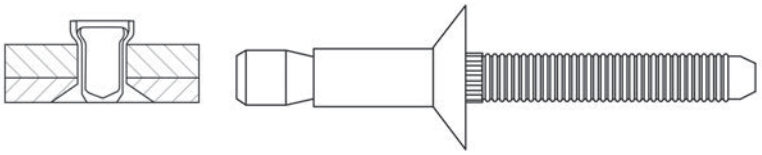
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	20.19	8.89	1.93	4.85 - 5.11	3.18 - 8.41	2.2	2.7	0.3	MGL100-B6-6
	24.43				7.75 - 12.70				MGL100-B6-9
	28.68				12.32 - 16.99				MGL100-B6-12
	31.85				15.49 - 20.17				MGL100-B6-14
6.4 6.35	26.90	10.41	2.16	6.63 - 6.91	4.06 - 12.07	4.0	5.8	0.4	MGL100-B8-8
	33.25				10.54 - 18.42				MGL100-B8-12
	41.15				13.46 - 27.18				MGL100-B8-E17

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Lok® - Stainless steel

- Wide grip range that allows it to accommodate variations in thickness
- Large grip area ensures that the housing is completely filled on the blind side, providing strong and secure fastening, resistant to water ingress
- It has an internal locking mechanism that strengthens the joint and offers greater protection against corrosion
- High shear and tensile strength
- Flush after installation. Quick and easy visual inspection

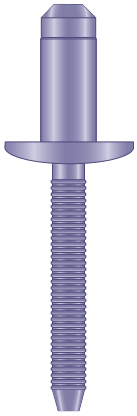


Body: stainless steel | Mandrel: stainless steel | Head: pan

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8 4.76	19.35	8.89	1.93	4.85 - 5.11	3.18 - 8.41	4.2	5.8	0.4	MGL100-U6-6
	23.60				7.75 - 12.70				MGL100-U6-9
6.4 6.35	26.90	10.41	2.16	6.63 - 6.91	4.06 - 12.07	8.0	10.5	0.9	MGL100-U8-8
	33.25				10.54 - 18.42				MGL100-U8-12

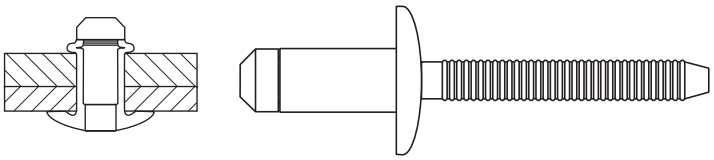
The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



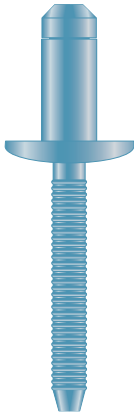
Auto-Bulb™ - Steel

- High shear and tensile strength
- Rivet body and head have a special design that makes it easy to insert the rivet into the housing of the parts being joined: suitable for automatic installation
- Large grip area, especially for joints in fragile materials or thin sheet metal
- Flush after installation. Quick and easy visual inspection



Body: steel | Mandrel: steel | Head: flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	12.0	9.9	2.3	4.9 - 5.1	1.9 - 2.8	3.8	5.3	0.7	ABP-R6-M2
	13.0				2.2 - 3.8				ABP-R6-M3
	14.0				3.2 - 4.8				ABP-R6-M4
	15.0				4.2 - 5.8				ABP-R6-M5
6.4	15.8	13.4	3.2	6.6 - 6.9	1.5 - 3.5	7.1	11.6	1.3	ABP-R8-M2
	17.0				2.8 - 4.8				ABP-R8-M3
	18.1				3.8 - 5.8				ABP-R8-M4
	19.1				4.8 - 6.8				ABP-R8-M5
	20.1				5.8 - 7.8				ABP-R8-M6
	21.1				6.8 - 8.8				ABP-R8-M7
	22.1				7.8 - 9.8				ABP-R8-M8
	23.1				8.8 - 10.8				ABP-R8-M9
	24.1				9.8 - 11.8				ABP-R8-M10
	25.1				10.8 - 12.8				ABP-R8-M11
	33.2				18.8 - 20.8				ABP-R8-M19



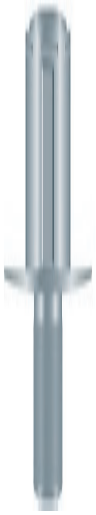
Auto-Bulb™ - Stainless steel

Body: stainless steel | Mandrel: stainless steel | Head: flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
6.4	15.05	12.42 - 13.59	2.64 - 3.30	6.6 - 6.9	1.5 - 3.5	8.54	15.1	1.3	ABP-4U8-M2
	16.35				2.8 - 4.8				ABP-4U8-M3
	17.35				3.8 - 5.8				ABP-4U8-M4
	18.35				4.8 - 6.8				ABP-4U8-M5
	19.35				5.8 - 7.8				ABP-4U8-M6
	20.35				6.8 - 8.8				ABP-4U8-M7
	21.35				7.8 - 9.8				ABP-4U8-M8
	22.35				8.8 - 10.8				ABP-4U8-M9
	23.35				9.8 - 11.8				ABP-4U8-M10
	25.35				10.8 - 12.8				ABP-4U8-M12
	32.35				18.8 - 20.8				ABP-4U8-M19

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



Magna-Tite™ - Aluminium

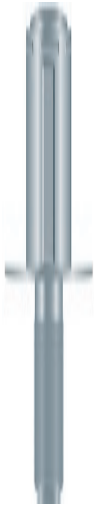
- Watertight, especially for roofs or similar applications
- Wide grip range
- Very large grip area and low transfer of stresses, especially for fragile materials (plastics, composites) and thin sheet metal
- Flush after installation. Quick and easy visual inspection

Body: aluminium | Mandrel: aluminium

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	25.9	11.8	3.0	5.2 - 5.6	1.3 - 7.9	1.7	2.4	0.3	MTP-B6-5S
	27.2				2.5 - 9.5				MTP-B6-6S
	31.0				6.4 - 12.7				MTP-B6-8S
	34.2				9.5 - 15.9				MTP-B6-10S
	37.3				12.7 - 19.1				MTP-B6-12S
6.4	25.2	13.7	3.2	6.4 - 6.7	1.0 - 6.4	2.6	4.2	0.3	MTP-B8-4S
	28.5				3.2 - 9.5				MTP-B8-6S
	29.2				3.0 - 10.4				MTP-B8-7S
	31.5				6.4 - 12.7				MTP-B8-8S
	34.7				9.5 - 15.9				MTP-B8-10S
	37.9				12.7 - 19.1				MTP-B8-12S

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



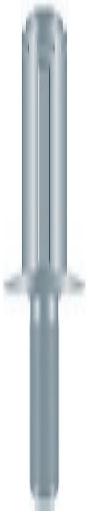
Magna-Tite™ - Aluminium

- Watertight, especially for roofs or similar applications
- Wide grip range
- Very large grip area and low transfer of stresses, especially for fragile materials (plastics, composites) and thin sheet metal
- Flush after installation. Quick and easy visual inspection

Body: aluminium | Mandrel: aluminium | Flat profile head

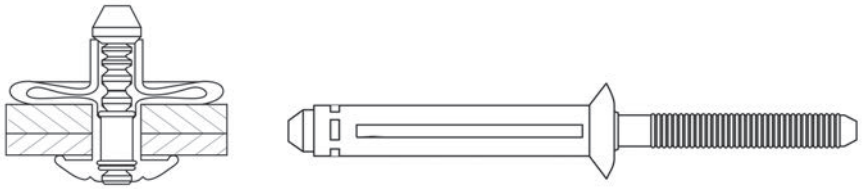
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	24.6	11.5	1.3	5.2 - 5.6	1.3 - 6.4	1.7	1.3	0.3	MTLP-B6-4
	31.0				4.8 - 12.7				MTLP-B6-8
	35.3				9.5 - 19.1				MTLP-B6-12
	35.3				1.3 - 19.1				MTLP-B6-12X

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



Magna-Tite™ - Aluminium

- Watertight, especially for roofs or similar applications
- Wide grip range
- Very large grip area and low transfer of stresses, especially for fragile materials (plastics, composites) and thin sheet metal
- Flush after installation. Quick and easy visual inspection



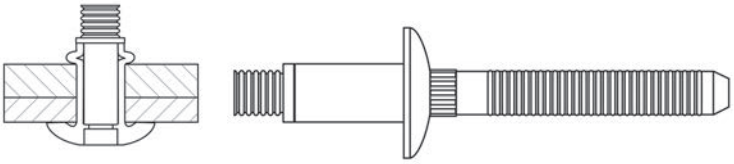
Body: aluminium | Mandrel: aluminium | 100° oval head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	26.4	8.7	3.0	5.2 - 5.6	1.8 - 7.9	1.7	2.4	0.3	MTV-B6-5S
	29.0				4.1 - 10.4				MTV-B6-7S
	31.0				6.4 - 12.7				MTV-B6-8S
	34.2				9.5 - 15.9				MTV-B6-10S
	37.3				12.7 - 19.1				MTV-B6-12S

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Bulb™ - Steel

- High shear and tensile strength
- Rivet body and head have a special design that makes it easy to insert the rivet into the housing of the parts being joined: suitable for automatic installation
- Large grip area, especially for joints in fragile materials or thin sheet metal
- Flush after installation. Quick and easy visual inspection

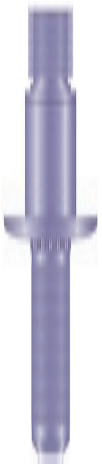


Body: steel | Mandrel: steel | Head: pan

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	15.0	9.9	2.6	4.9 - 5.1	2.2 - 2.8	4.7	8.7	0.7	MBP-R6-M2
	17.1				2.2 - 3.8				MBP-R6-M3
	17.7				3.2 - 4.8				MBP-R6-M4
	18.6				4.2 - 5.8				MBP-R6-M5
	19.7				5.2 - 6.8				MBP-R6-M6
	20.7				6.2 - 7.8				MBP-R6-M7
	21.7				7.2 - 8.8				MBP-R6-M8
	22.7				8.2 - 9.8				MBP-R6-M9
	23.7				9.2 - 10.8				MBP-R6-M10
	24.7				10.2 - 11.8				MBP-R6-M11
	25.7				11.2 - 12.8				MBP-R6-M12
	26.7				12.2 - 13.8				MBP-R6-M13
	27.7				13.2 - 14.8				MBP-R6-M14
6.4	19.3	13.4	3.2	6.6 - 6.9	1.5 - 3.5	8.5	11.6	1.3	MBP-R8-M2
	21.9				2.8 - 4.8		12.0		MBP-R8-M3
	23.9				3.8 - 5.8		12.3		MBP-R8-M4
	23.2				4.8 - 6.8		13.3		MBP-R8-M5
	23.9				5.8 - 7.8		14.2		MBP-R8-M6
	24.9				6.8 - 8.8				MBP-R8-M7
	25.9				7.8 - 9.8				MBP-R8-M8
	26.9				8.8 - 10.8				MBP-R8-M9
	27.9				9.8 - 11.8				MBP-R8-M10
	28.9				10.8 - 12.8		15.6		MBP-R8-M11
	30.0				11.8 - 13.8				MBP-R8-M12
	30.9				12.8 - 14.8				MBP-R8-M13
	37.1				18.8 - 20.8				MBP-R8-M19
	50.3				31.8 - 33.8				MBP-R8-M32
7.9	28.1	16.8	3.9	8.3 - 8.6	3.8 - 6.4	13.2	22.2	2.1	MBP-R10-3
	29.3				5.1 - 7.6				MBP-R10-4
	30.6				6.4 - 8.9				MBP-R10-5
	31.9				7.6 - 10.2				MBP-R10-6
	33.2				8.9 - 11.4				MBP-R10-7
	34.4				10.2 - 12.7				MBP-R10-8
	35.7				11.4 - 14.0				MBP-R10-9
	37.0				12.7 - 15.2				MBP-R10-10

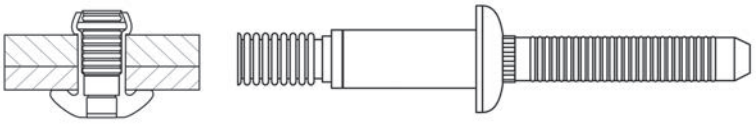
The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



HuckLok™ - Steel

- They combine the wide grip range of the Magna-Lok® with the high shear strength of the Magna-Bulb®
- Large grip area, especially for fragile materials or thin sheet metal
- High shear and tensile strength and vibration resistance
- Wide grip range
- Flush after installation. Quick and easy visual inspection



Body: steel | Mandrel: steel | Head: pan

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
4.8	22.9	9.9	2.6	4.9 - 5.1	1.6 - 7.9	4.4	8.5	0.7	HKLP-R6-5U
	26.0				4.8 - 11.1				HKLP-R6-7
6.4	28.3	11.9	3.0	6.6 - 6.9	2.0 - 9.5	8.5	15.6	1.8	HKLP-R8-6*
	29.9				4.8 - 11.1				HKLP-R8-7
	30.9				7.1 - 13.5				HKLP-R8-8,5
	34.7				9.5 - 15.9				HKLP-R8-10
	37.9				12.7 - 19.1				HKLP-R8-12
	41.1				15.9 - 22.2				HKLP-R8-14
	47.4				22.2 - 28.6				HKLP-R8-18
	50.6				25.4 - 31.8				HKLP-R8-20

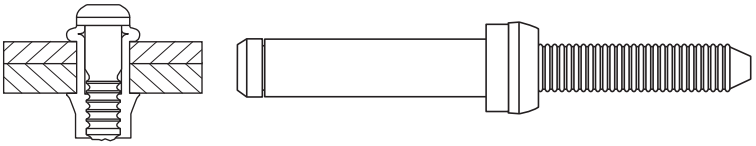
*For best results, it is recommended for thicknesses below 2.5 mm. Use the smallest hole size

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

BOM® - Steel

- Extremely strong, with a high strength/diameter ratio, especially for very demanding structural applications (it can be used as an alternative to threaded fasteners or welding)
- High pull-out and wear resistance
- Large grip area, especially for joints in fragile materials or thin sheet metal
- Outstanding watertightness compared to conventional blind rivets



Body: steel | Mandrel: steel

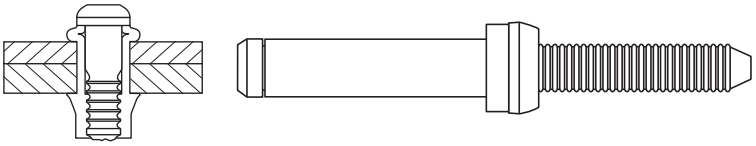
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	
4.8 4.8 - 5.2	12.7	7.2	4.2	5.3 - 5.6	2.4 - 4.0	8.0	12.5	BOM-R6-2
	14.3				4.0 - 5.6			BOM-R6-3
	15.9				5.6 - 7.1			BOM-R6-4
	17.5				7.2 - 8.7			BOM-R6-5
	19.1				8.8 - 10.3			BOM-R6-6
	20.6				10.3 - 11.9			BOM-R6-7
	22.2				11.9 - 13.5			BOM-R6-8
	23.8				13.5 - 15.1			BOM-R6-9
	25.4				15.1 - 16.7			BOM-R6-10
	27.0				16.7 - 18.3			BOM-R6-11
	28.6				18.3 - 19.8			BOM-R6-12
6.4 6.4 - 7.0	15.8	9.7	5.6	7.0 - 7.4	2.4 - 4.0	14.5	22.7	BOM-R8-2
	17.3				4.0 - 5.6			BOM-R8-3
	18.9				5.6 - 7.1			BOM-R8-4
	20.5				7.2 - 8.7			BOM-R8-5
	22.1				8.8 - 10.3			BOM-R8-6
	23.7				10.3 - 11.9			BOM-R8-7
	25.3				11.9 - 13.5			BOM-R8-8
	26.9				13.5 - 15.1			BOM-R8-9
	28.5				15.1 - 16.7			BOM-R8-10
	30.0				16.7 - 18.3			BOM-R8-11
	31.6				18.3 - 19.8			BOM-R8-12
	33.2				19.9 - 21.4			BOM-R8-13
	34.8				21.5 - 23.0			BOM-R8-14
7.9 7.9 - 8.8	22.2	12.2	7.1	8.8 - 9.4	4.8 - 7.9	23.1	35.8	BOM-R10-4
	25.4				8.0 - 11.1			BOM-R10-6
	28.6				11.1 -14.3			BOM-R10-8
	31.8				14.3 - 17.5			BOM-R10-10
	34.9				17.5 - 20.6			BOM-R10-12
	38.1				20.7 - 23.8			BOM-R10-14
	41.3				23.8 - 27.0			BOM-R10-16

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

BOM® - Steel

- Extremely strong, with a high strength/diameter ratio, especially for very demanding structural applications (it can be used as an alternative to threaded fasteners or welding)
- High pull-out and wear resistance
- Large grip area, especially for joints in fragile materials or thin sheet metal
- Outstanding watertightness compared to conventional blind rivets



Body: steel | Mandrel: steel

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	
9.5 9.5 - 10.4	24.6	14.4	8.3	10.5 - 11.1	4.8 - 7.9	32.3	49.4	BOM-R12-4
	27.8				8.0 - 11.1			BOM-R12-6
	31.0				11.1 -14.3			BOM-R12-8
	34.1				14.3 - 17.5			BOM-R12-10
	37.3				17.5 - 20.6			BOM-R12-12
	40.5				20.7 - 23.8			BOM-R12-14
	43.7				23.8 - 27.0			BOM-R12-16
	46.8				27.0 - 30.2			BOM-R12-18
	50.0				30.2 - 33.3			BOM-R12-20
12.7 12.7 - 13.9	32.2	19.1	11.1	13.9 - 14.8	6.4 - 9.5	57.8	89.6	BOM-R16-4
	35.3				9.6 - 12.7			BOM-R16-6
	38.5				12.7 - 15.9			BOM-R16-8
	41.7				15.9 - 19.1			BOM-R16-10
	44.9				19.1 - 22.2			BOM-R16-12
	48.0				22.3 - 25.4			BOM-R16-14
	51.2				25.4 - 28.6			BOM-R16-16
	54.4				28.6 - 31.8			BOM-R16-18
	57.6				31.8 - 34.9			BOM-R16-20
	60.7				35.0 - 38.1			BOM-R16-22
	63.9				38.1 - 41.3			BOM-R16-24
15.9 15.9 - 17.3	38.9	23.9	13.8	17.5 - 18.5	6.4 - 12.7	91.2	126.8	BOM-R20-4GA
	45.2				12.7 - 19.1			BOM-R20-8GA
	51.6				19.1 - 25.4			BOM-R20-12GA
	57.9				25.4 - 31.8			BOM-R20-16GA
	64.3				31.8 - 38.1			BOM-R20-20GA
19.1 19.1 - 20.8	44.5	28.6	16.6	21.0 - 22.2	6.4 - 12.7	129.4	200.6	BOM-R24-4GA
	50.8				12.7 - 19.1			BOM-R24-8GA
	57.2				19.1 - 25.4			BOM-R24-12GA
	63.5				25.4 - 31.8			BOM-R24-16GA

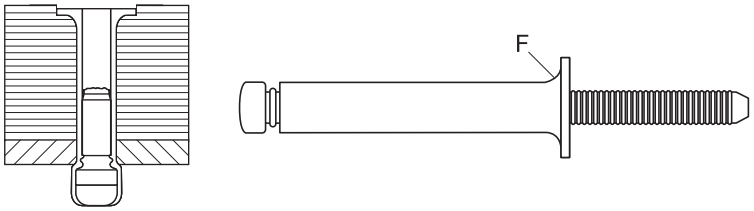
The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

FloorTight® - Steel

Fastening solution for plywood with a metal core

- They offer greater strength than conventional floor screws: fewer fasteners and fewer drill holes are required
- High-strength structural rivets
- Countersunk head that is completely flush once the rivet is in place
- Wide grip range



Body: steel | Mandrel: steel | Installed in plywood

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
8.3 8.26	53.98 63.50	*	*	*	19.05 - 34.93 19.05 - 41.28	13.3	19.1	*	PMF-R10-20 PMF-R10-26

*Please contact us for more information on this data.
Contact us for the F dimension values.

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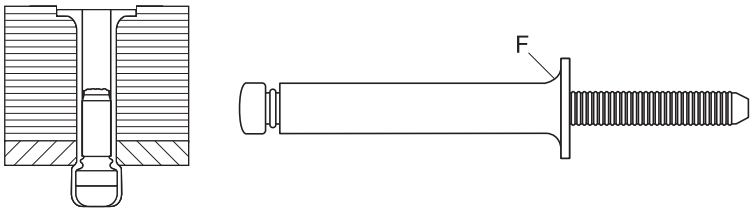

Body: steel | Mandrel: steel | Installed in plywood

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Mandrel retention Min kN	
8.3 7.90	50.8	17.5	1.7	8.3 - 8.6	19.1 - 34.9	12.5	15.6	0.9	PWFLC-R10-20
	60.3				19.1 - 41.3				PWFLC-R10-26
8.3 7.90	50.8				19.1 - 34.9				PWFMC-R10-20
	60.3				19.1 - 41.3				PWFMC-R10-26
8.3 7.90	50.8				19.1 - 34.9				PWF-R10-20
	60.3				19.1 - 41.3				PWF-R10-26

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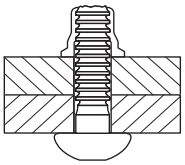
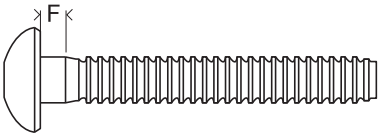
= minimum shear strength

HUCK® range of lockbolts

Magna-Grip® - Steel

- Wide grip range
- Highly vibration-resistant
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar





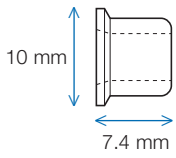
Bolt: steel | Pan head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
4.8 4.65 - 4.75	46.3	10.0	3.2	5.0 - 5.2	1.6 - 15.9	7.3	7.7	4.1	MGPB-R6-10G	MGC-R6U	MGCS-R6U	MGCW-R6U
	51.9				7.9 - 31.8				MGPB-R6-20G			
6.4 6.22 - 6.32	50.8	13.2	3.9	6.6 - 6.7	1.6 - 15.9	13.3	9.8	5.3	MGPB-R8-10G	MGC-R8U	MGCS-R8U	MGCW-R8U
	65.9				7.9 - 31.8				MGPB-R8-20G			
7.9 7.80 - 7.90	60.3	16.5	5.1	8.2 - 8.3	3.2 - 19.1	20.5	13.3	9.6	MGPB-R10-12G	MGC-R10U	-	-
	73.0				15.9 - 34.9				MGPB-R10-22G			
9.5 9.37 - 9.53	74.6	19.8	6.3	9.8 - 9.9	3.2 - 22.2	28.9	18.7	14.2	MGPB-R12-14G	MGC-R12U	-	-
	89.8				20.6 - 41.3				MGPB-R12-26G			

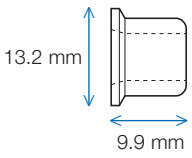
Contact us for the F dimension values.

Standard

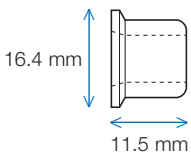
MGC-R6U



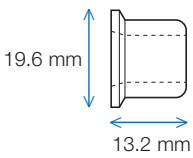
MGC-R8U



MGC-R10U

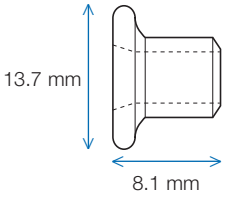


MGC-R12U

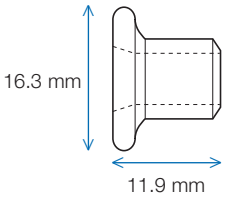


Medium

MGCS-R6U

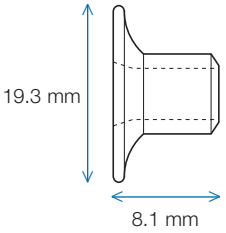


MGCS-R8U



Large

MGCW-R6U



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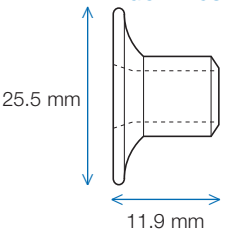

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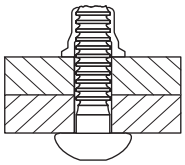
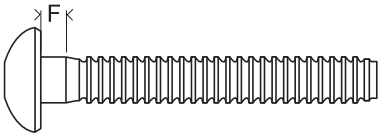
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Grip® - Aluminium

- Wide grip range
- Highly vibration-resistant
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar





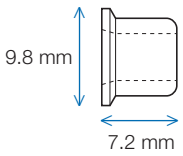
Bolt: aluminium | Head: pan

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
4.8 4.65 - 4.75	46.3	10.0	3.2	5.0 - 5.2	1.6 - 15.9	4.0	3.3	2.4	MGPB-E6-10	MGC-F6	MGCS-F6	MGCW-F6
	51.9				7.9 - 31.8				MGPB-E6-20			
6.4 6.22 - 6.32	50.8	13.2	3.9	6.6 - 6.7	1.6 - 15.9	7.2	5.3	4.2	MGPB-E8-10	MGC-F8	MGCS-F8	MGCW-F8
	65.9				7.9 - 31.8				MGPB-E8-20			
7.9 7.80 - 7.90	60.3	16.5	5.1	8.2 - 8.3	3.2 - 19.1	11.1	9.8	7.1	MGPB-E10-12	MGC-F10	-	-
	73.0				15.9 - 34.9				MGPB-E10-22			
9.5 9,37 - 9,53	74.6	19.8	6.3	9.8 - 9.9	3.2 - 22.2	17.8	13.3	10.7	MGPB-E12-14	MGC-F12	-	-
	89.8				20.6 - 41.3				MGPB-E12-26			

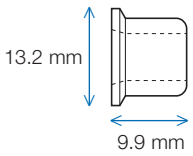
Contact us for the F dimension values.

Standard

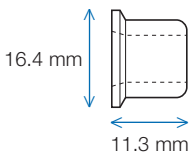
MGC-F6



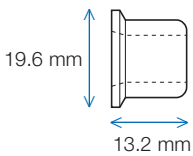
MGC-F8



MGC-F10

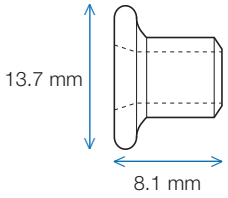


MGC-F12

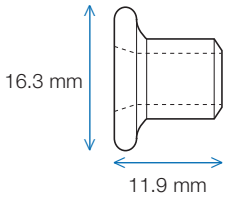


Medium

MGCS-F6

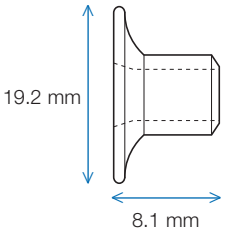


MGCS-F8

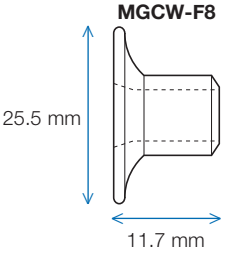


Large

MGCW-F6



MGCW-F8



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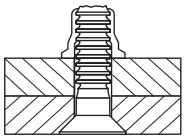
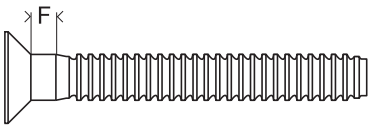
Magna-Grip® - Steel

- Wide grip range
- Highly vibration-resistant
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar





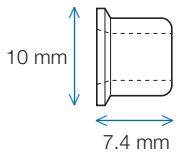
Bolt: steel | Countersunk head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
4.8 4.65 - 4.75	46.3	9.1	2.6	5.0 - 5.2	2.7 - 15.9	7.3	7.7	4.1	MGP90-R6-10G	MGC-R6U	MGCS-R6U	MGCW-R6U
	65.9		2.2		7.9 - 31.8				MGP90-R6-20G			
6.4 6.22 - 6.32	50.8	12.1	3.3	6.6 - 6.7	3.3 - 15.9	13.3	9.8	5.3	MGP90-R8-10G	MGC-R8U	MGCS-RU8	MGCW-R8U
	65.9		2.9		7.9 - 31.8				MGP90-R8-20G			
7.9 7.80 - 7.90	59.2	15.1	4.1	8.2 - 8.3	4.2 - 19.1	20.5	13.3	9.6	MGP90-R10-12G	MGC-R10U	-	-
	71.9		3.6		15.9 - 34.9				MGP90-R10-22G			
9.5 9.37 - 9.53	73.9	18.1	5.0	9.8 - 9.9	6.4 - 22.2	28.9	18.7	14.2	MGP90-R12-14G	MGC-R12U	-	-
	89.8		4.3		20.6 - 41.3				MGP90-R12-26G			

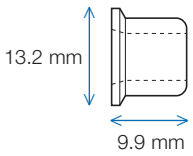
Contact us for the F dimension values.

Standard

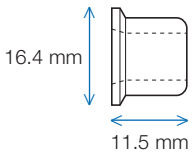
MGC-R6U



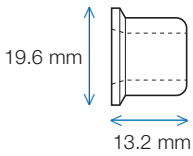
MGC-R8U



MGC-R10U

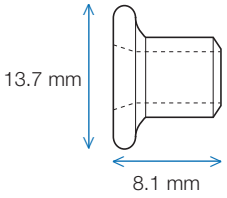


MGC-R12U

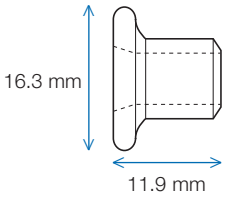


Medium

MGCS-R6U

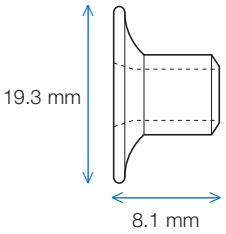


MGCS-R8U

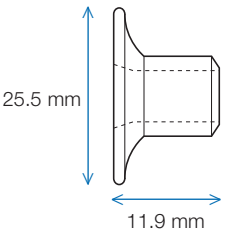


Large

MGCW-R6U



MGCW-R8U



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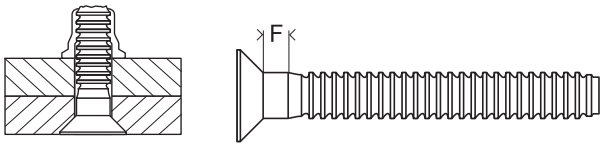
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Grip® - Aluminium

- Wide grip range
- Highly vibration-resistant
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar



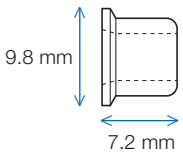
Bolt: aluminium | Head: countersunk

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no. Standard	Medium	Large
4.8 4.65 - 4.75	46.3	9.1	2.6	5.0 - 5.2	2.7 - 15.9	4.0	3.3	2.4	MGP90-E6-10	MGC-F6	MGCS-F6	MGCW-F6
	65.9		2.2		7.9 - 31.8				MGP90-E6-20			
6.4 6.22 - 6.32	50.8	12.1	3.3	6.6 - 6.7	3.3 - 15.9	7.2	5.3	4.2	MGP90-E8-10	MGC-F8	MGCS-F8	MGCW-F8
	65.9		2.9		7.9 - 31.8				MGP90-E8-20			
7.9 7.80 - 7.90	59.2	15.1	4.1	8.2 - 8.3	4.2 - 19.1	11.1	9.8	7.1	MGP90-E10-12	MGC-F10	-	-
	71.9		3.6		15.9 - 34.9				MGP90-E10-22			
9.5 9.37 - 9.53	73.9	18.1	5.0	9.8 - 9.9	6.4 - 22.2	17.8	13.3	10.7	MGP90-E12-14	MGC-F12	-	-
	89.8		4.3		20.6 - 41.3				MGP90-E12-26			

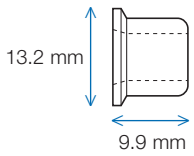
Contact us for the F dimension values.

Standard

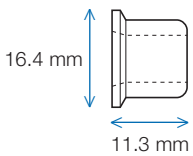
MGC-F6



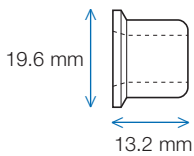
MGC-F8



MGC-F10

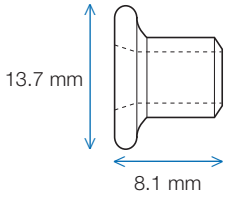


MGC-F12

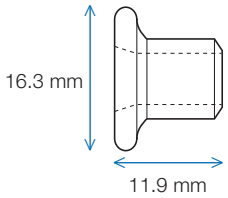


Medium

MGCS-F6

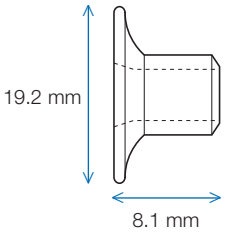


MGCS-F8

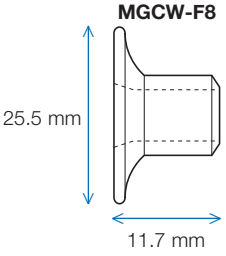


Large

MGCW-F6



MGCW-F8



The codes in blue are the most important in the range (the most popular products)

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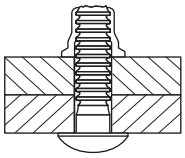
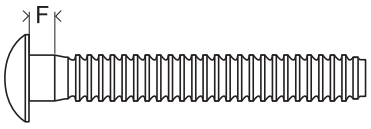
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Grip® - Steel

- Wide grip range
- Highly vibration-resistant
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar





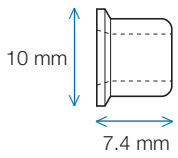
Bolt: steel | Countersunk head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
4.8 4.65 - 4.75	46.3 61.1	12.4	2.7	5.0 - 5.2	1.6 - 15.9 7.9 - 31.8	7.3	7.7	4.1	MGP98T-R6-10G MGP98T-R6-20G	MGC-R6U	MGCS-R6U	MGCW-R6U

Contact us for the F dimension values.

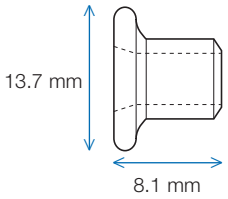
Standard

MGC-R6U



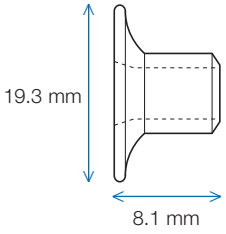
Medium

MGCS-R6U



Large

MGCW-R6U



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= minimum shear strength

Magna-Grip® - Aluminium

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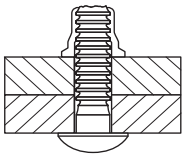
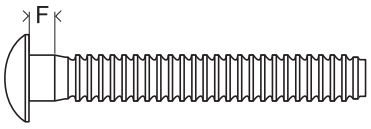
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar





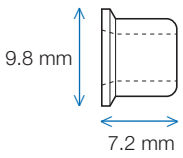
Bolt: aluminium | Rivet head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
4.8 4.65 - 4.75	46.3	12.4	2.7	5.0 - 5.2	1.6 - 15.9	4.0	3.3	2.4	MGP98T-E6-10	MGC-F6	MGCS-F6	MGCW-F6
	61.1				7.9 - 31.8				MGP98T-E6-20			

Contact us for the F dimension values.

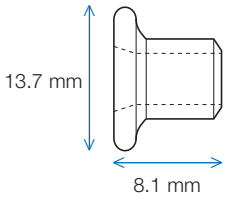
Standard

MGC-F6



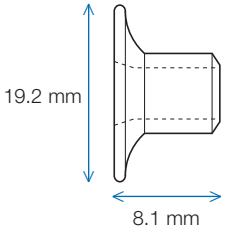
Medium

MGCS-F6



Large

MGCW-F6



The codes in blue are the most important in the range (the most popular products)

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k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

Magna-Grip® - Steel

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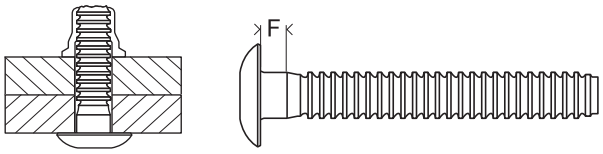
- A wide range of applications covered by a single lockbolt
- Mandrel break notch at the end of the collar



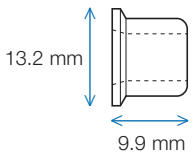
Bolt: steel | Head: flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
6.4 6.22 - 6.32	50.8	15.1	3.0	6.6 - 6.7	1.6 - 15.9	13.3	9.8	5.3	MGPT-R8-10G	MGC-R8U	MGCS-R8U	MGCW-R8U
	65.9				7.9 - 31.8				MGPT-R8-20G			
7.9 7.80 - 7.90	60.3	20.4	3.6	8.2 - 8.3	3.2 - 19.1	20.5	13.3	9.6	MGPT-R10-12G	MGC-R10U	-	-
	73.0				15.9 - 34.9				MGPT-R10-22G			
9.5 9.37 - 9.53	74.6	23.6	4.3	9.8 - 9.9	3.2 - 22.2	28.9	18.7	14.2	MGPT-R12-14G	MGC-R12U	-	-
	89.8				20.6 - 41.3				MGPT-R12-26G			

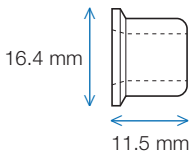
Contact us for the F dimension values.

Standard

MGC-R8U

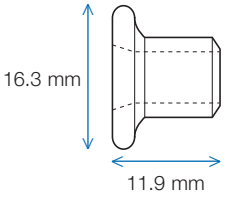


MGC-R10U



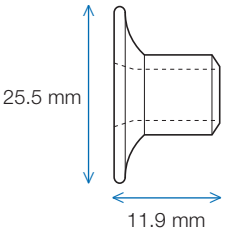
Medium

MGCS-R8U

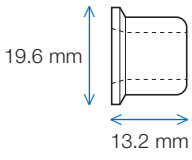


Large

MGCW-R8U



MGC-R12U



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Magna-Grip® - Aluminium

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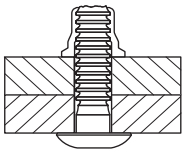
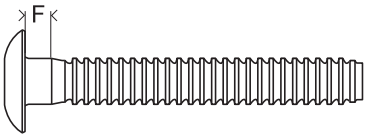




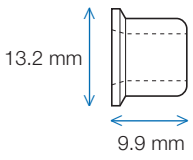
Bolt: aluminium | Head: flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
6.4 6.22 - 6.32	50.8	15.1	3.0	6.6 - 6.7	1.6 - 15.9	7.2	5.3	4.2	MGPT-E8-10	MGC-F8	MGCS-F8	MGCW-F8
	65.9				7.9 - 31.8				MGPT-E8-20			
7.9 7.80 - 7.90	60.3	20.4	3.6	8.2 - 8.3	3.2 - 19.1	11.1	9.8	7.1	MGPT-E10-12	MGC-F10	-	-
	73.0				15.9 - 34.9				MGPT-E10-22			
9.5 9.37 - 9.53	74.6	23.6	4.3	9.8 - 9.9	3.2 - 22.2	17.8	13.3	10.7	MGPT-E12-14	MGC-F12	-	-
	89.8				20.6 - 41.3				MGPT-E12-26			

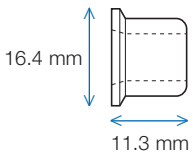
Contact us for the F dimension values.

Standard

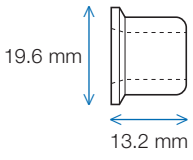
MGC-F8



MGC-F10

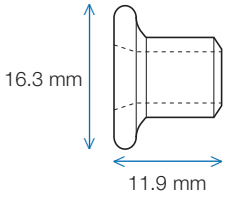


MGC-F12



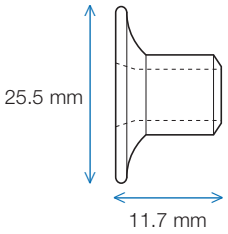
Medium

MGCS-F8



Large

MGCW-F8



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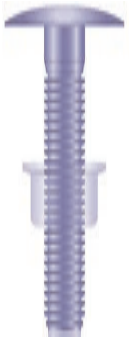
= minimum shear strength



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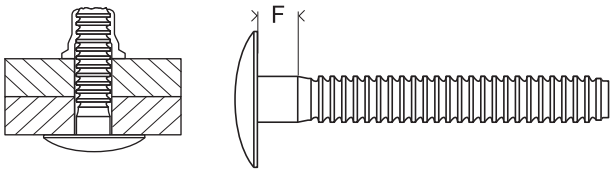


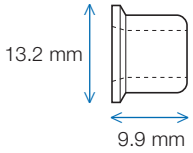
Bolt: steel | Head: large & flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
6.4 6.22 - 6.32	50.8	24.9	4.1	6.6 - 7.0	1.6 - 15.9	13.3	9.8	5.3	MGP30-R8-10G	MGC-R8U	MGCS-R8U	MGCW-R8U
	72.3				15.9 - 38.1				MGP30-R8-24G			
9.5 9.37 - 9.53	87.1	31.9	5.4	9.9	15.9 - 38.1	28.9	18.7	14.2	MGP30-R12-24G	MGC-R12U	-	-
	99.8				28.6 - 50.8				MGP30-R12-32G			

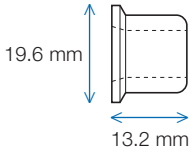
Contact us for the F dimension values.

Standard

MGC-R8U

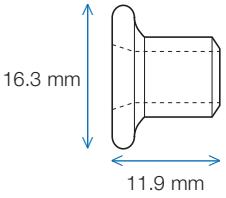


MGC-R12U



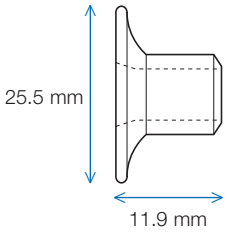
Medium

MGCS-R8U



Large

MGCW-R8U



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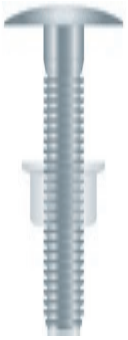
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



Magna-Grip® - Aluminium

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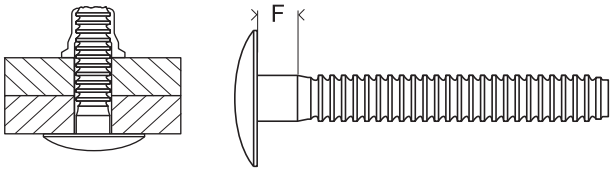


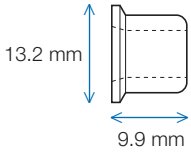
Bolt: aluminium | Head: large & flat

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.		
										Standard	Medium	Large
6.4 6.22 - 6.32	50.8	27.1	4.6	6.6 - 6.7	1.6 - 15.9	7.2	5.3	4.2	MGP30-E8-10	MGC-F8	MGCS-F8	MGCW-F8
	72.3				15.9 - 38.1				MGP30-E8-24			
9.5 9.37 - 9.53	87.1	31.9	5.4	9.9	15.9 - 38.1	17.8	13.3	10.7	MGP30-E12-24	MGC-F12	-	-
	99.8				28.6 - 50.8				MGP30-E12-32			

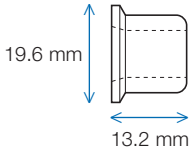
Contact us for the F dimension values.

Standard

MGC-F8

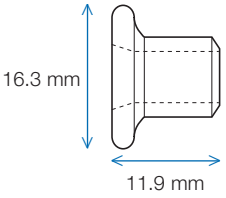


MGC-F12



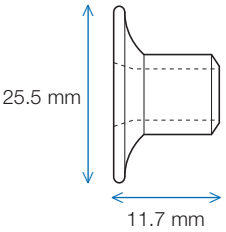
Medium

MGCS-F8



Large

MGCW-F8

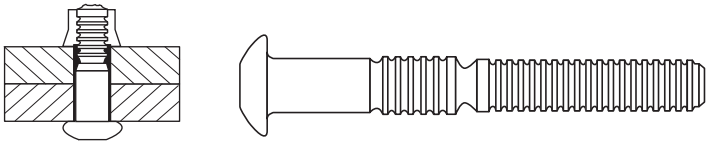


The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength

C6L® R Lockbolt - Steel

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials

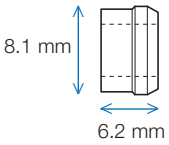


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-R6G	min-max (mm) Wide flange 3LC-2R6G
	39.1	10.6	1.6							C6LB-R6-2G	1.6 - 4.8	0.4 - 3.6
	40.7	12.2	3.2							C6LB-R6-3G	3.2 - 6.4	2.0 - 5.2
	42.3	13.7	4.8							C6LB-R6-4G	4.8 - 7.9	3.6 - 6.8
	43.9	15.3	6.4							C6LB-R6-5G	6.4 - 9.5	5.2 - 8.4
	45.4	16.9	7.9							C6LB-R6-6G	7.9 - 11.1	6.8 - 9.9
	47.0	18.5	9.5							C6LB-R6-7G	9.5 - 12.7	8.4 - 11.5
	48.6	20.1	11.1							C6LB-R6-8G	11.1 - 14.3	9.9 - 13.1
	50.2	21.7	12.7							C6LB-R6-9G	12.7 - 15.9	11.5 - 14.7
	51.8	23.3	14.3							C6LB-R6-10G	14.3 - 17.5	13.1 - 16.3
	53.4	24.9	15.9							C6LB-R6-11G	15.9 - 19.1	14.7 - 17.9
	55.0	26.4	17.5							C6LB-R6-12G	17.5 - 20.6	16.3 - 19.5
	56.6	28.0	19.1							C6LB-R6-13G	19.1 - 22.2	17.9 - 21.1
	58.1	29.6	20.6							C6LB-R6-14G	20.6 - 23.8	19.5 - 22.6
	59.7	31.2	22.2							C6LB-R6-15G	22.2 - 25.4	21.1 - 24.2
	61.3	32.8	23.8							C6LB-R6-16G	23.8 - 27.0	22.6 - 25.8
4.8 4.85 - 4.95	62.9	34.4	25.4	9.9	3.2	5.0 - 5.2	7.3	7.7	4.6	C6LB-R6-17G	25.4 - 28.6	24.2 - 27.4
	64.5	36.0	27.0							C6LB-R6-18G	27.0 - 30.2	25.8 - 29.0
	66.1	37.6	28.6							C6LB-R6-19G	28.6 - 31.8	27.4 - 30.6
	67.7	39.1	30.2							C6LB-R6-20G	30.2 - 33.3	29.0 - 32.2
	69.3	40.7	31.8							C6LB-R6-21G	31.8 - 34.9	30.6 - 33.8
	70.8	42.3	33.3							C6LB-R6-22G	33.3 - 36.5	32.2 - 35.3
	72.4	43.9	34.9							C6LB-R6-23G	34.9 - 38.1	33.8 - 36.9
	74.0	45,5	36,5							C6LB-R6-24G	36.5 - 39.7	35.3 - 38.5
	75,6	47.1	38.1							C6LB-R6-25G	38.1 - 41.3	36.9 - 40.1
	77.2	48.7	39.7							C6LB-R6-26G	39.7 - 42.9	38.5 - 41.7
	78.8	50.3	41.3							C6LB-R6-27G	41.3 - 44.5	40.1 - 43.3
	80.4	51.8	42.9							C6LB-R6-28G	42.9 - 46.0	41.7 - 44.9
	82.0	53.4	44.5							C6LB-R6-29G	44.5 - 47.6	43.3 - 46.5
	83.5	55.0	46.0							C6LB-R6-30G	46.0 - 49.2	44.9 - 48.0
	85.1	56.6	47.6							C6LB-R6-31G	47.6 - 50.8	46.5 - 49.6
	86.7	58.2	49.2							C6LB-R6-32G	49.2 - 52.4	48.0 - 51.2

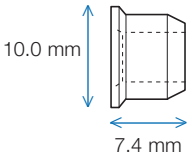
Standard

2LC-R6G



Wide flange

3LC-2R6G



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d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength

C6L® R Lockbolt - Steel

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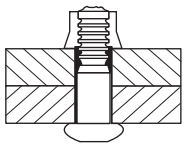
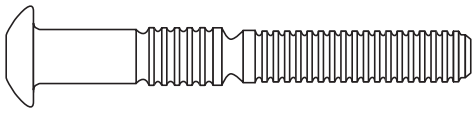


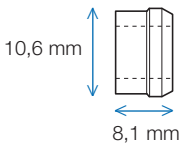


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-R8G	min-max (mm) Wide flange 3LC-2R8G
	42.0	12.9	1.6							C6LB-R8-2G	1.6 - 4.8	0.0 - 3.2
	43.6	14.5	3.2							C6LB-R8-3G	3.2 - 6.4	1.6 - 4.8
	45.2	16.1	4.8							C6LB-R8-4G	4.8 - 7.9	3.2 - 6.3
	46.8	17.6	6.4							C6LB-R8-5G	6.4 - 9.5	4.8 - 7.9
	48.4	19.2	7.9							C6LB-R8-6G	7.9 - 11.1	6.3 - 9.5
	50.0	20.8	9.5							C6LB-R8-7G	9.5 - 12.7	7.9 - 11.1
	51.6	22.4	11.1							C6LB-R8-8G	11.1 - 14.3	9.5 - 12.7
	53.2	24.0	12.7							C6LB-R8-9G	12.7 - 15.9	11.1 - 14.3
	54.7	25.6	14.3							C6LB-R8-10G	14.3 - 17.5	12.7 - 15.9
	56.3	27.2	15.9							C6LB-R8-11G	15.9 - 19.1	14.3 - 17.5
	57.9	28.8	17.5							C6LB-R8-12G	17.5 - 20.6	15.9 - 19.0
	59.5	30.3	19.1							C6LB-R8-13G	19.1 - 22.2	17.5 - 20.6
	61.1	31.9	20.6							C6LB-R8-14G	20.6 - 23.8	19.0 - 22.2
	62.7	33.5	22.2							C6LB-R8-15G	22.2 - 25.4	20.6 - 23.8
	64.3	35.1	23.8							C6LB-R8-16G	23.8 - 27.0	22.2 - 25.4
6.4 6.45 - 6.58	65.9	36.7	25.4	13.2	3.9	6.6 - 6.8	13.3	13.6	8.0	C6LB-R8-17G	25.4 - 28.6	23.8 - 27.0
	67.4	38.3	27.0							C6LB-R8-18G	27.0 - 30.2	25.4 - 28.6
	69.0	39.9	28.6							C6LB-R8-19G	28.6 - 31.8	27.0 - 30.2
	70.6	41.5	30.2							C6LB-R8-20G	30.2 - 33.3	28.6 - 31.7
	72.2	43.0	31.8							C6LB-R8-21G	31.8 - 34.9	30.2 - 33.3
	73.8	44.6	33.3							C6LB-R8-22G	33.3 - 36.5	31.7 - 34.9
	75.4	46.2	34.9							C6LB-R8-23G	34.9 - 38.1	33.3 - 36.5
	77.0	47.8	36.5							C6LB-R8-24G	36.5 - 39.7	34.9 - 38.1
	78.6	49.4	38.1							C6LB-R8-25G	38.1 - 41.3	36.5 - 39.7
	80.1	51.0	39.7							C6LB-R8-26G	39.7 - 42.9	38.1 - 41.3
	81.7	52.6	41.3							C6LB-R8-27G	41.3 - 44.5	39.7 - 42.9
	83.3	54.2	42.9							C6LB-R8-28G	42.9 - 46.0	41.3 - 44.4
	84.9	55.7	44.5							C6LB-R8-29G	44.5 - 47.6	42.9 - 46.0
	86.5	57.3	46.0							C6LB-R8-30G	46.0 - 49.2	44.4 - 47.6
	88.1	58.9	47.6							C6LB-R8-31G	47.6 - 50.8	46 - 49.2
	89.7	60.5	49.2							C6LB-R8-32G	49.2 - 52.4	47.6 - 50.8

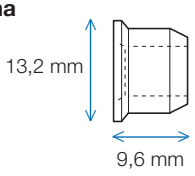
Estándar

2LC-R6G



De ala ancha

3LC-2R6G



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C6L® R Lockbolt - Steel

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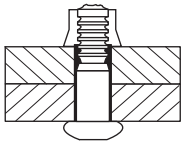
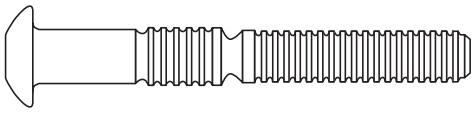


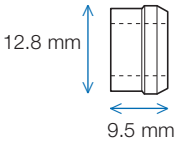


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-R10G	min-max (mm) Wide flange 3LC-2R10G
7.9 8,05 - 8,18	51.9	19.7	3.2	16.5	5.1	8.2 - 8.3	20.5	21.0	12.5	C6LB-R10-4G	3.2 - 9.5	1.2 - 7.5
	55.1	22.9	6.4							C6LB-R10-6G	6.4 - 12.7	4.4 - 10.7
	58.3	26.1	9.5							C6LB-R10-8G	9.5 - 15.9	7.5 - 13.9
	61.5	29.2	12.7							C6LB-R10-10G	12.7 - 19.1	10.7 - 17.1
	64.6	32.4	15.9							C6LB-R10-12G	15.9 - 22.2	13.9 - 20.2
	67.8	35.6	19.1							C6LB-R10-14G	19.1 - 25.4	17.1 - 23.4
	71.0	38.8	22.2							C6LB-R10-16G	22.2 - 28.6	20.2 - 26.6
	74.2	41.9	25.4							C6LB-R10-18G	25.4 - 31.8	23.4 - 29.8
	77.3	45.1	28.6							C6LB-R10-20G	28.6 - 34.9	26.6 - 32.9
	80.5	48.3	31.8							C6LB-R10-22G	31.8 - 38.1	29.8 - 36.1
	83.7	51.5	34.9							C6LB-R10-24G	34.9 - 41.3	32.9 - 39.3
	86.9	54.6	38.1							C6LB-R10-26G	38.1 - 44.5	36.1 - 42.5
	90.0	57.8	41.3							C6LB-R10-28G	41.3 - 47.6	39.3 - 45.6
	93.2	61.0	44.5							C6LB-R10-30G	44.5 - 50.8	42.5 - 48.8
	96.4	64.2	47.6							C6LB-R10-32G	47.6 - 54.0	45.6 - 52.0

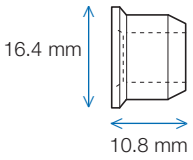
Standard

2LC-R10G



Wide flange

3LC-2R10G



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C6L® R Lockbolt - Steel

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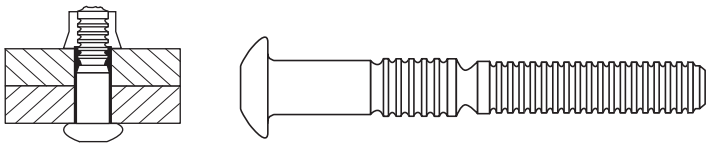
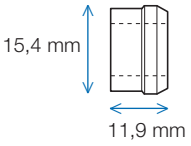


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-R12G	min-max (mm) Wide flange 3LC-2R12G
9.5 9.65 - 9.78	57.3	21.7	3.2	19.8	6.3	9.8 - 9.9	28.9	30.4	17.9	C6LB-R12-4G	3.2 - 9.5	0.8 - 7.1
	60.5	24.8	6.4							C6LB-R12-6G	6.4 - 12.7	4.0 - 10,.
	63.7	28.0	9.5							C6LB-R12-8G	9.5 - 15.9	7.1 - 13.5
	66.8	31.2	12.7							C6LB-R12-10G	12.7 - 19.1	10.3 - 16.7
	70.0	34.4	15.9							C6LB-R12-12G	15.9 - 22.2	13.5 - 19.8
	73.2	37.5	19.1							C6LB-R12-14G	19.1 - 25.4	16.7 - 23.0
	76.4	40.7	22.2							C6LB-R12-16G	22.2 - 28.6	19.8 - 26.2
	79.5	43.9	25.4							C6LB-R12-18G	25.4 - 31.8	23.0 - 29.4
	82.7	47.1	28.6							C6LB-R12-20G	28.6 - 34.9	26.2 - 32.5
	85.9	50.2	31.8							C6LB-R12-22G	31.8 - 38.1	29.4 - 35.7
	89.1	53.4	34.9							C6LB-R12-24G	34.9 - 41.3	32.5 - 38.9
	92.2	56.6	38.1							C6LB-R12-26G	38.1 - 44.5	35.7 - 42.1
	95.4	59.8	41.3							C6LB-R12-28G	41.3 - 47.6	38.9 - 45.2
	98.6	62.9	44.5							C6LB-R12-30G	44.5 - 50.8	42.1 - 48.4
	101.8	66.1	47.6							C6LB-R12-32G	47.6 - 54.0	45.2 - 51.6

Estándar

2LC-R12G



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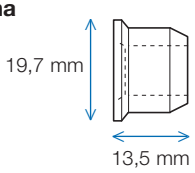
3LC-2R12G



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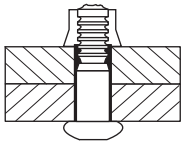
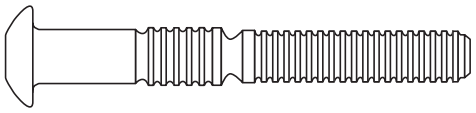
C6L® U Lockbolt - Stainless steel

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials



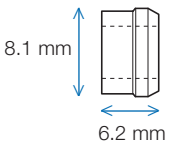


Bolt: stainless steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-2CU6	min-max (mm) Wide flange 3LC-2CU6
	39.1	10.6	1.6							C6LB-U6-2	1.6 - 4.8	0.4 - 3.6
	40.7	12.2	3.2							C6LB-U6-3	3.2 - 6.4	2.0 - 5.2
	42.3	13.7	4.8							C6LB-U6-4	4.8 - 7.9	3.6 - 6.8
	43.9	15.3	6.4							C6LB-U6-5	6.4 - 9.5	5.2 - 8.4
	45.4	16.9	7.9							C6LB-U6-6	7.9 - 11.1	6.8 - 9.9
	47.0	18.5	9.5							C6LB-U6-7	9.5 - 12.7	8.4 - 11.5
	48.6	20.1	11.1							C6LB-U6-8	11.1 - 14.3	9.9 - 13.1
	50.2	21.7	12.7							C6LB-U6-9	12.7 - 15.9	11.5 - 14.7
	51.8	23.3	14.3							C6LB-U6-10	14.3 - 17.5	13.1 - 16.3
	53.4	24.9	15.9							C6LB-U6-11	15.9 - 19.1	14.7 - 17.9
	55.0	26.4	17.5							C6LB-U6-12	17.5 - 20.6	16.3 - 19.5
	56.6	28.0	19.1							C6LB-U6-13	19.1 - 22.2	17.9 - 21.1
	58.1	29.6	20.6							C6LB-U6-14	20.6 - 23.8	19.5 - 22.6
	59.7	31.2	22.2							C6LB-U6-15	22.2 - 25.4	21.1 - 24.2
	61.3	32.8	23.8							C6LB-U6-16	23.8 - 27.0	22.6 - 25.8
4.8 4.85 - 4.95	62.9	34.4	25.4	9.9	3.2	5.0 - 5.2	6.5	8.9	4.6	C6LB-U6-17	25.4 - 28.6	24.2 - 27.4
	64.5	36.0	27.0							C6LB-U6-18	27.0 - 30.2	25.8 - 29.0
	66.1	37.6	28.6							C6LB-U6-19	28.6 - 31.8	27.4 - 30.6
	67.7	39.1	30.2							C6LB-U6-20	30.2 - 33.3	29.0 - 32.2
	69.3	40.7	31.8							C6LB-U6-21	31.8 - 34.9	30.6 - 33.8
	70.8	42.3	33.3							C6LB-U6-22	33.3 - 36.5	32.2 - 35.3
	72.4	43.9	34.9							C6LB-U6-23	34.9 - 38.1	33.8 - 36.9
	74.0	45.5	36.5							C6LB-U6-24	36.5 - 39.7	35.3 - 38.5
	75.6	47.1	38.1							C6LB-U6-25	38.1 - 41.3	36.9 - 40.1
	77.2	48.7	39.7							C6LB-U6-26	39.7 - 42.9	38.5 - 41.7
	78.8	50.3	41.3							C6LB-U6-27	41.3 - 44.5	40.1 - 43.3
	80.4	51.8	42.9							C6LB-U6-28	42.9 - 46.0	41.7 - 44.9
	82.0	53.4	44.5							C6LB-U6-29	44.5 - 47.6	43.3 - 46.5
	83.5	55.0	46.0							C6LB-U6-30	46.0 - 49.2	44.9 - 48.0
	85.1	56.6	47.6							C6LB-U6-31	47.6 - 50.8	46.5 - 49.6
	86.7	58.2	49.2							C6LB-U6-32	49.2 - 52.4	48.0 - 51.2

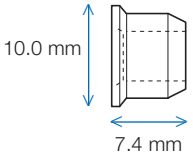
Standard

2LC-2CU6



Wide flange

3LC-2CU6



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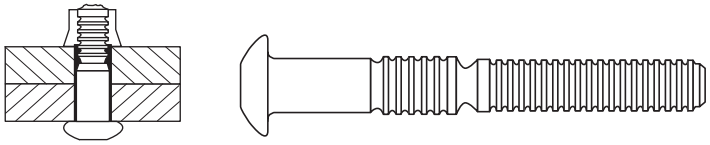
C6L® U Lockbolt - Stainless steel

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials

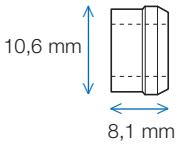


Bolt: stainless steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-2CU8	min-max (mm) Wide flange 3LC-2CU8
	42.0	12.9	1.6							C6LB-U8-2	1.6 - 4.8	0.0 - 3.2
	43.6	14.5	3.2							C6LB-U8-3	3.2 - 6.4	1.6 - 4.8
	45.2	16.1	4.8							C6LB-U8-4	4.8 - 7.9	3.2 - 6.3
	46.8	17.6	6.4							C6LB-U8-5	6.4 - 9.5	4.8 - 7.9
	48.4	19.2	7.9							C6LB-U8-6	7.9 - 11.1	6.3 - 9.5
	50.0	20.8	9.5							C6LB-U8-7	9.5 - 12.7	7.9 - 11.1
	51.6	22.4	11.1							C6LB-U8-8	11.1 - 14.3	9.5 - 12.7
	53.2	24.0	12.7							C6LB-U8-9	12.7 - 15.9	11.1 - 14.3
	54.7	25.6	14.3							C6LB-U8-10	14.3 - 17.5	12.7 - 15.9
	56.3	27.2	15.9							C6LB-U8-11	15.9 - 19.1	14.3 - 17.5
	57.9	28.8	17.5							C6LB-U8-12	17.5 - 20.6	15.9 - 19.0
	59.5	30.3	19.1							C6LB-U8-13	19.1 - 22.2	17.5 - 20.6
	61.1	31.9	20.6							C6LB-U8-14	20.6 - 23.8	19.0 - 22.2
	62.7	33.5	22.2							C6LB-U8-15	22.2 - 25.4	20.6 - 23.8
	64.3	35.1	23.8							C6LB-U8-16	23.8 - 27.0	22.2 - 25.4
6.4 6.45 - 6.58	65.9	36.7	25.4	13.2	3.9	6.6 - 6.8	16.7	15.8	8.0	C6LB-U8-17	25.4 - 28.6	23.8 - 27.0
	67.4	38.3	27.0							C6LB-U8-18	27.0 - 30.2	25.4 - 28.6
	69.0	39.9	28.6							C6LB-U8-19	28.6 - 31.8	27.0 - 30.2
	70.6	41.5	30.2							C6LB-U8-20	30.2 - 33.3	28.6 - 31.7
	72.2	43.0	31.8							C6LB-U8-21	31.8 - 34.9	30.2 - 33.3
	73.8	44.6	33.3							C6LB-U8-22	33.3 - 36.5	31.7 - 34.9
	75.4	46.2	34.9							C6LB-U8-23	34.9 - 38.1	33.3 - 36.5
	77.0	47.8	36.5							C6LB-U8-24	36.5 - 39.7	34.9 - 38.1
	78.6	49.4	38.1							C6LB-U8-25	38.1 - 41.3	36.5 - 39.7
	80.1	51.0	39.7							C6LB-U8-26	39.7 - 42.9	38.1 - 41.3
	81.7	52.6	41.3							C6LB-U8-27	41.3 - 44.5	39.7 - 42.9
	83.3	54.2	42.9							C6LB-U8-28	42.9 - 46.0	41.3 - 44.4
	84.9	55.7	44.5							C6LB-U8-29	44.5 - 47.6	42.9 - 46.0
	86.5	57.3	46.0							C6LB-U8-30	46.0 - 49.2	44.4 - 47.6
	88.1	58.9	47.6							C6LB-U8-31	47.6 - 50.8	46 - 49.2
	89.7	60.5	49.2							C6LB-U8-32	49.2 - 52.4	47.6 - 50.8

Estándar

2LC-2CU8



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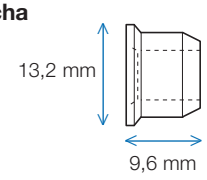
3LC-2CU8



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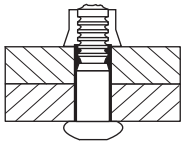
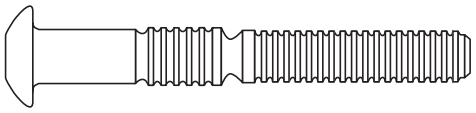
C6L® U Lockbolt - Stainless steel

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials



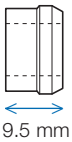


Bolt: stainless steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-2CU10	min-max (mm) Wide flange 3LC-2CU10
7.9 8.05 - 8.18	51.9	19.7	3.2	16.5	5.1	8.2 - 8.3	18.9	24.6	12.5	C6LB-U10-4	3.2 - 9.5	1.2 - 7.5
	55.1	22.9	6.4							C6LB-U10-6	6.4 - 12.7	4.4 - 10.7
	58.3	26.1	9.5							C6LB-U10-8	9.5 - 15.9	7.5 - 13.9
	61.5	29.2	12.7							C6LB-U10-10	12.7 - 19.1	10.7 - 17.1
	64.6	32.4	15.9							C6LB-U10-12	15.9 - 22.2	13.9 - 20.2
	67.8	35.6	19.1							C6LB-U10-14	19.1 - 25.4	17.1 - 23.4
	71.0	38.8	22.2							C6LB-U10-16	22.2 - 28.6	20.2 - 26.6
	74.2	41.9	25.4							C6LB-U10-18	25.4 - 31.8	23.4 - 29.8
	77.3	45.1	28.6							C6LB-U10-20	28.6 - 34.9	26.6 - 32.9
	80.5	48.3	31.8							C6LB-U10-22	31.8 - 38.1	29.8 - 36.1
	83.7	51.5	34.9							C6LB-U10-24	34.9 - 41.3	32.9 - 39.3
	86.9	54.6	38.1							C6LB-U10-26	38.1 - 44.5	36.1 - 42.5
	90.0	57.8	41.3							C6LB-U10-28	41.3 - 47.6	39.3 - 45.6
	93.2	61.0	44.5							C6LB-U10-30	44.5 - 50.8	42.5 - 48.8
	96.4	64.2	47.6							C6LB-U10-32	47.6 - 54.0	45.6 - 52.0

Standard

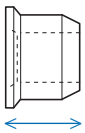
2LC-2CU10 12.8 mm



9.5 mm

Wide flange

3LC-2CU10 16.4 mm



10.8 mm

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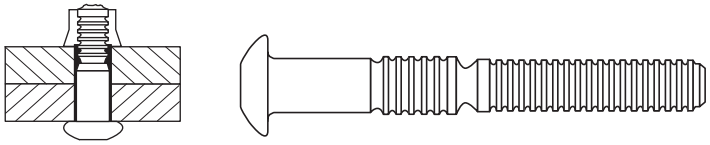
C6L® U Lockbolt - Stainless steel

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials



Bolt: stainless steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC-2CU12	min-max (mm) Wide flange 3LC-2CU12
9.5 9.65 - 9.78	57.3	21.7	3.2	19.8	6.3	9.8 - 9.9	27.1	35.4	17.9	C6LB-U12-4	3.2 - 9.5	0.8 - 7.1
	60.5	24.8	6.4							C6LB-U12-6	6.4 - 12.7	4.0 - 10.3
	63.7	28.0	9.5							C6LB-U12-8	9.5 - 15.9	7.1 - 13.5
	66.8	31.2	12.7							C6LB-U12-10	12.7 - 19.1	10.3 - 16.7
	70.0	34.4	15.9							C6LB-U12-12	15.9 - 22.2	13.5 - 19.8
	73.2	37.5	19.1							C6LB-U12-14	19.1 - 25.4	16.7 - 23.0
	76.4	40.7	22.2							C6LB-U12-16	22.2 - 28.6	19.8 - 26.2
	79.5	43.9	25.4							C6LB-U12-18	25.4 - 31.8	23.0 - 29.4
	82.7	47.1	28.6							C6LB-U12-20	28.6 - 34.9	26.2 - 32.5
	85.9	50.2	31.8							C6LB-U12-22	31.8 - 38.1	29.4 - 35.7
	89.1	53.4	34.9							C6LB-U12-24	34.9 - 41.3	32.5 - 38.9
	92.2	56.6	38.1							C6LB-U12-26	38.1 - 44.5	35.7 - 42.1
	95.4	59.8	41.3							C6LB-U12-28	41.3 - 47.6	38.9 - 45.2
	98.6	62.9	44.5							C6LB-U12-30	44.5 - 50.8	42.1 - 48.4
	101.8	66.1	47.6							C6LB-U12-32	47.6 - 54.0	45.2 - 51.6

Estándar

2LC-2CU12 15,4 mm

11,9 mm

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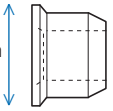
3LC-2CU12 19,7 mm



13,5 mm

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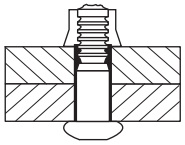
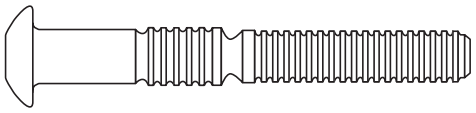
C6L® F Lockbolt - 6061 aluminium

- Highly durable and resistant to vibrations
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses
- Large head collar available for use on non-metal materials
- Bolts also available in 2024 aluminium. Ref.: C6LB-C8
- Corresponding lockbolt reference numbers: 2LC-F8 standard collar, 3LC-F8 wide flange collar
- Please contact us for tightening torque, tensile strength and shear strength values for 2024 aluminium



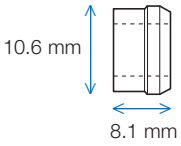


Bolt: 6061 aluminium | Head: round

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-18	min-max (mm) Wide flange 3LC-18
	42.0	12.9	1.6							C6LB-F8-2	1.6 - 4.8	0.0 - 3.2
	43.6	14.5	3.2							C6LB-F8-3	3.2 - 6.4	1.6 - 4.8
	45.2	16.1	4.8							C6LB-F8-4	4.8 - 7.9	3.2 - 6.3
	46.8	17.6	6.4							C6LB-F8-5	6.4 - 9.5	4.8 - 7.9
	48.4	19.2	7.9							C6LB-F8-6	7.9 - 11.1	6.3 - 9.5
	50.0	20.8	9.5							C6LB-F8-7	9.5 - 12.7	7.9 - 11.1
	51.6	22.4	11.1							C6LB-F8-8	11.1 - 14.3	9.5 - 12.7
	53.2	24.0	12.7							C6LB-F8-9	12.7 - 15.9	11.1 - 14.3
	54.7	25.6	14.3							C6LB-F8-10	14.3 - 17.5	12.7 - 15.9
	56.3	27.2	15.9							C6LB-F8-11	15.9 - 19.1	14.3 - 17.5
	57.9	28.8	17.5							C6LB-F8-12	17.5 - 20.6	15.9 - 19.0
	59.5	30.3	19.1							C6LB-F8-13	19.1 - 22.2	17.5 - 20.6
	61.1	31.9	20.6							C6LB-F8-14	20.6 - 23.8	19.0 - 22.2
	62.7	33.5	22.2							C6LB-F8-15	22.2 - 25.4	20.6 - 23.8
	64.3	35.1	23.8							C6LB-F8-16	23.8 - 27.0	22.2 - 25.4
6.4 6.45 - 6.58	65.9	36.7	25.4	13.2	3.9	6.6 - 6.8	4.3	6.1	2.8	C6LB-F8-17	25.4 - 28.6	23.8 - 27.0
	67.4	38.3	27.0							C6LB-F8-18	27.0 - 30.2	25.4 - 28.6
	69.0	39.9	28.6							C6LB-F8-19	28.6 - 31.8	27.0 - 30.2
	70.6	41.5	30.2							C6LB-F8-20	30.2 - 33.3	28.6 - 31.7
	72.2	43.0	31.8							C6LB-F8-21	31.8 - 34.9	30.2 - 33.3
	73.8	44.6	33.3							C6LB-F8-22	33.3 - 36.5	31.7 - 34.9
	75.4	46.2	34.9							C6LB-F8-23	34.9 - 38.1	33.3 - 36.5
	77.0	47.8	36.5							C6LB-F8-24	36.5 - 39.7	34.9 - 38.1
	78.6	49.4	38.1							C6LB-F8-25	38.1 - 41.3	36.5 - 39.7
	80.1	51.0	39.7							C6LB-F8-26	39.7 - 42.9	38.1 - 41.3
	81.7	52.6	41.3							C6LB-F8-27	41.3 - 44.5	39.7 - 42.9
	83.3	54.2	42.9							C6LB-F8-28	42.9 - 46.0	41.3 - 44.4
	84.9	55.7	44.5							C6LB-F8-29	44.5 - 47.6	42.9 - 46.0
	86.5	57.3	46.0							C6LB-F8-30	46.0 - 49.2	44.4 - 47.6
	88.1	58.9	47.6							C6LB-F8-31	47.6 - 50.8	46 - 49.2
	89.7	60.5	49.2							C6LB-F8-32	49.2 - 52.4	47.6 - 50.8

Estándar

LC-18



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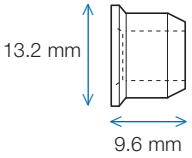
3LC-18



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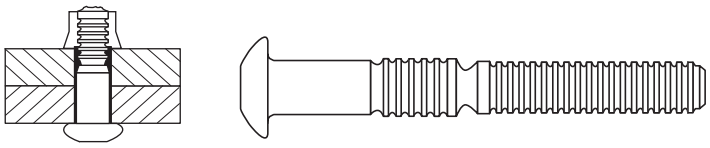
d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength

C120L® R Lockbolt - Steel

- The C120L® lockbolt has a small diameter and grade 8.8 strength (upgraded version of the C6L®), with a small, semicircular, countersunk head
- Standard collar and collar with head (for fixing on non-metal materials)

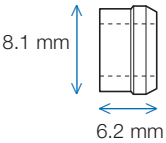


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC120-R6G	min-max (mm) Wide flange 3LC120-2R6G
	39.1	10.6	1.6							C120LB-R6-2G	1.59 - 4.76	0.42 - 3.59
	40.7	12.2	3.2							C120LB-R6-3G	3.18 - 6.35	2.01 - 5.18
	42.3	13.7	4.8							C120LB-R6-4G	4.76 - 7.94	3.59 - 6.77
	43.9	15.3	6.4							C120LB-R6-5G	6.35 - 9.53	5.18 - 8.36
	45.4	16.9	7.9							C120LB-R6-6G	7.94 - 11.11	6.77 - 9.94
	47.0	18.5	9.5							C120LB-R6-7G	9.53 - 12.70	8.36 - 11.53
	48.6	20.1	11.1							C120LB-R6-8G	11.11 - 14.29	9.94 - 13.12
	50.2	21.7	12.7							C120LB-R6-9G	12.70 - 15.88	11.53 - 14.71
	51.8	23.3	14.3							C120LB-R6-10G	14.29 - 17.46	13.12 - 16.29
	53.4	24.9	15.9							C120LB-R6-11G	15.88 - 19.05	14.71 - 17.88
	55.0	26.4	17.5							C120LB-R6-12G	17.46 - 20.64	16.29 - 19.47
	56.6	28.0	19.1							C120LB-R6-13G	19.05 - 22.23	17.88 - 21.06
	58.1	29.6	20.6							C120LB-R6-14G	20.64 - 23.81	19.47 - 22.64
	59.7	31.2	22.2							C120LB-R6-15G	22.23 - 25.40	21.06 - 24.23
	61.3	32.8	23.8							C120LB-R6-16G	23.81 - 26.99	22.64 - 25.82
4.8	62.9	34.4	25.4	9.9	3.2	5.0 - 5.2	9.8	10.8	5.3	C120LB-R6-17G	25.40 - 28.58	24.23 - 27.41
	64.5	36.0	27.0							C120LB-R6-18G	26.99 - 30.16	25.82 - 28.99
	66.1	37.6	28.6							C120LB-R6-19G	28.58 - 31.75	27.41 - 30.58
	67.7	39.1	30.2							C120LB-R6-20G	30.16 - 33.34	28.99 - 32.17
	69.3	40.7	31.8							C120LB-R6-21G	31.75 - 34.93	30.58 - 33.76
	70.8	42.3	33.3							C120LB-R6-22G	33.34 - 36.51	32.17 - 35.34
	72.4	43.9	34.9							C120LB-R6-23G	34.93 - 38.10	33.76 - 36.93
	74.0	45.5	36.5							C120LB-R6-24G	36.51 - 39.69	35.34 - 38.52
	75.6	47.1	38.1							C120LB-R6-25G	38.10 - 41.28	36.93 - 40.11
	77.2	48.7	39.7							C120LB-R6-26G	39.69 - 42.86	38.52 - 41.69
	78.8	50.3	41.3							C120LB-R6-27G	41.28 - 44.45	40.11 - 43.28
	80.4	51.8	42.9							C120LB-R6-28G	42.86 - 46.04	41.69 - 44.87
	82.0	53.4	44.5							C120LB-R6-29G	44.45 - 47.63	43.28 - 46.46
	83.5	55.0	46.0							C120LB-R6-30G	46.04 - 49.21	44.87 - 48.04
	85.1	56.6	47.6							C120LB-R6-31G	47.63 - 50.80	46.46 - 49.63
	86.7	58.2	49.2							C120LB-R6-32G	49.21 - 52.39	48.04 - 51.22

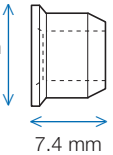
Standard

2LC120-R6G



Wide flange

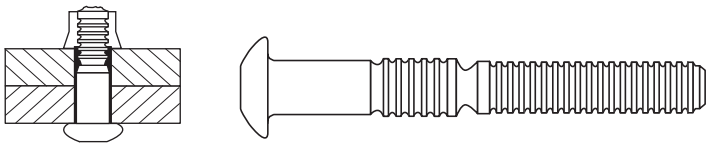
3LC120-2R6G



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength

C120L® R Lockbolt - Steel

- The C120L® lockbolt has a small diameter and grade 8.8 strength (upgraded version of the C6L®), with a small, semicircular, countersunk head
- Standard collar and collar with head (for fixing on non-metal materials)

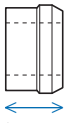


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC120-R8G	min-max (mm) Wide flange 3LC120-2R8G
	42.0	12.9	1.6							C120LB-R8-2G	1.59 - 4.76	0.01 - 3.16
	43.6	14.5	3.2							C120LB-R8-3G	3.18 - 6.35	1.57 - 4.75
	45.2	16.1	4.8							C120LB-R8-4G	4.76 - 7.94	3.16 - 6.34
	46.8	17.6	6.4							C120LB-R8-5G	6.35 - 9.53	4.75 - 7.92
	48.4	19.2	7.9							C120LB-R8-6G	7.94 - 11.11	6.34 - 9.51
	50.0	20.8	9.5							C120LB-R8-7G	7.94 - 11.11	7.92 - 11.10
	51.6	22.4	11.1							C120LB-R8-8G	11.11 - 14.29	9.51 - 12.69
	53.2	24.0	12.7							C120LB-R8-9G	12.70 - 15.88	11.10 - 14.27
	54.7	25.6	14.3							C120LB-R8-10G	14.29 - 17.46	12.69 - 15.86
	56.3	27.2	15.9							C120LB-R8-11G	15.88 - 19.05	14.27 - 17.45
	57.9	28.8	17.5							C120LB-R8-12G	17.46 - 20.64	15.86 - 19.04
	59.5	30.3	19.1							C120LB-R8-13G	19.05 - 22.23	17.45 - 20.62
	61.1	31.9	20.6							C120LB-R8-14G	20.64 - 23.81	19.04 - 22.21
	62.7	33.5	22.2							C120LB-R8-15G	22.23 - 25.40	20.62 - 23.80
	64.3	35.1	23.8							C120LB-R8-16G	23.81 - 26.99	22.21 - 25.39
6.4	65.9	36.7	25.4	13.2	3.9	6.6 - 6.8	16.9	19.1	10.2	C120LB-R8-17G	25.40 - 28.58	23.80 - 26.97
	67.4	38.3	27.0							C120LB-R8-18G	26.99 - 30.16	25.39 - 28.56
	69.0	39.9	28.6							C120LB-R8-19G	28.58 - 31.75	26.97 - 30.15
	70.6	41.5	30.2							C120LB-R8-20G	30.16 - 33.34	28.56 - 31.74
	72.2	43.0	31.8							C120LB-R8-21G	31.75 - 34.93	30.15 - 33.32
	73.8	44.6	33.3							C120LB-R8-22G	33.34 - 36.51	31.74 - 34.91
	75.4	46.2	34.9							C120LB-R8-23G	34.93 - 38.10	33.32 - 36.50
	77.0	47.8	36.5							C120LB-R8-24G	36.51 - 39.69	34.91 - 38,09
	78.6	49.4	38.1							C120LB-R8-25G	38.10 - 41.28	36.50 - 39.67
	80.1	51.0	39.7							C120LB-R8-26G	39.69 - 42.86	38.09 - 41.26
	81.7	52.6	41.3							C120LB-R8-27G	41.28 - 44.45	39.67 - 42.85
	83.3	54.2	42.9							C120LB-R8-28G	42.86 - 46.04	41.26 - 44.44
	84.9	55.7	44.5							C120LB-R8-29G	44.45 - 47.63	42.85 - 46.02
	86.5	57.3	46.0							C120LB-R8-30G	46.04 - 49.21	44.44 - 47.61
	88.1	58.9	47.6							C120LB-R8-31G	47.63 - 50.80	46.02 - 49.20
	89.7	60.5	49.2							C120LB-R8-32G	49.21 - 52.39	47.61 - 50.79

Standard

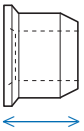
2LC120-R8G 10.6 mm



8.1 mm

Wide flange

3LC120-2R8G 13.2 mm



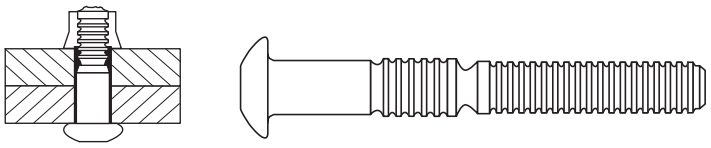
9.6 mm

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength

C120L® R Lockbolt - Steel

- The C120L® lockbolt has a small diameter and grade 8.8 strength (upgraded version of the C6L®), with a small, semicircular, countersunk head
- Standard collar and collar with head (for fixing on non-metal materials)

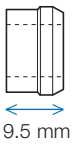


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC120-R10G	min-max (mm) Wide flange 3LC120-2R10G
7.9	51.9	19.7	3.2	16.5	5.1	8.2 - 8.3	28.0	29.8	18.7	C120LB-R10-4G	3.18 - 9.53	1.19 - 7.54
	55.1	22.9	6.4							C120LB-R10-6G	6.35 - 12.70	4.37 - 10.72
	58.3	26.1	9.5							C120LB-R10-8G	9.53 - 15.88	7.54 - 13.89
	61.5	29.2	12.7							C120LB-R10-10G	12.70 - 19.05	10.72 - 17.07
	64.6	32.4	15.9							C120LB-R10-12G	15.88 - 22.23	13.89 - 20.24
	67.8	35.6	19.1							C120LB-R10-14G	19.05 - 25.40	17.07 - 23.42
	71.0	38.8	22.2							C120LB-R10-16G	22.23 - 28.58	20.24 - 2.59
	74.2	41.9	25.4							C120LB-R10-18G	25.40 - 31.75	23.42 - 29.77
	77.3	45.1	28.6							C120LB-R10-20G	28.58 - 34.93	26.59 - 32.94
	80.5	48.3	31.8							C120LB-R10-22G	31.75 - 38.10	29.77 - 36.12
	83.7	51.5	34.9							C120LB-R10-24G	34.93 - 41.28	32.94 - 39.29
	86.9	54.6	38.1							C120LB-R10-26G	38.10 - 44.45	36.12 - 42.47
	90.0	57.8	41.3							C120LB-R10-28G	41.28 - 47.63	39.29 - 45.64
	93.2	61.0	44.5							C120LB-R10-30G	44.45 - 50.80	42.47 - 48.82
	96.4	64.2	47.6							C120LB-R10-32G	47.63 - 53.98	45.64 - 51.99

Standard

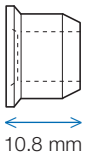
2LC120-R10G 12.8 mm



9.5 mm

Wide flange

3LC120-2R10G 16.4 mm



10.8 mm

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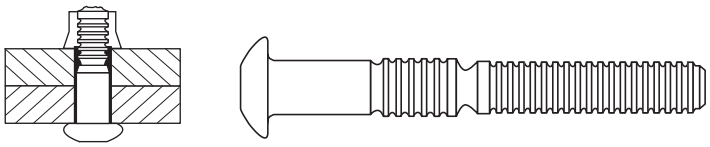
C120L® R Lockbolt - Steel

- The C120L® lockbolt has a small diameter and grade 8.8 strength (upgraded version of the C6L®), with a small, semicircular, countersunk head
- Standard collar and collar with head (for fixing on non-metal materials)

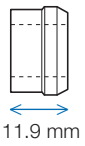


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard 2LC120-R12G	min-max (mm) Wide flange 3LC120-2R12G
	57.3	21.7	3.2							C120LB-R12-4G	3.18 - 9.53	0.79 - 7.14
	60.5	24.8	6.4							C120LB-R12-6G	6.35 - 12.70	3.96 - 10.31
	63.7	28.0	9.5							C120LB-R12-8G	9.53 - 15.88	7.14 - 13.49
	66.8	31.2	12.7							C120LB-R12-10G	12.70 - 19.05	10.31 - 16.66
	70.0	34.4	15.9							C120LB-R12-12G	15.88 - 22.23	13.49 - 19.84
	73.2	37.5	19.1							C120LB-R12-14G	19.05 - 25.40	16.66 - 23.01
	76.4	40.7	22.2							C120LB-R12-16G	22.23 - 28.58	19.84 - 26.16
9.5 9.65 - 9.78	79.5	43.9	25.4	19.8	6.3	9.9	41.4	42.7	22.2	C120LB-R12-18G	25.40 - 31.75	23.01 - 29.36
	82.7	47.1	28.6							C120LB-R12-20G	28.58 - 34.93	26.19 - 32.54
	85.9	50.2	31.8							C120LB-R12-22G	31.75 - 38.10	29.36 - 35.71
	89.1	53.4	34.9							C120LB-R12-24G	34.93 - 41.28	32.54 - 38.89
	92.2	56.6	38.1							C120LB-R12-26G	38.10 - 44.45	35.71 - 42.06
	95.4	59.8	41.3							C120LB-R12-28G	41.28 - 47.63	38.89 - 45.24
	98.6	62.9	44.5							C120LB-R12-30G	44.45 - 50.80	42.06 - 48.41
	101.8	66.1	47.6							C120LB-R12-32G	47.63 - 53.98	45.24 - 51.59

Standard

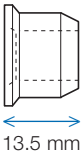
2LC120-R12G 15.4 mm



11.9 mm

Wide flange

3LC120-2R12G 19.7 mm



13.5 mm

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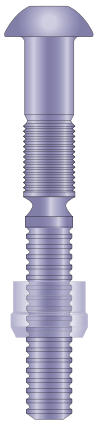
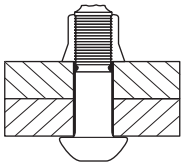
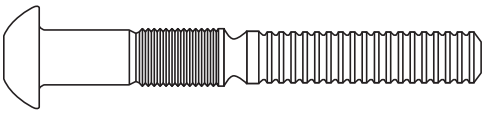


C50L® Lockbolt - Steel

- Fastener for harsh conditions
- The lockbolt's collar has a large diameter and grade 8.8 strength
- Highly vibration-resistant
- Easy to visually inspect installation quality



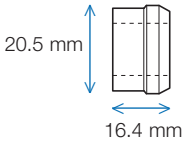


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R16G	min-max (mm) Wide flange 3LC-2R16G
	85.3	31.6	4.8							C50LR-BR16-4	6.4 - 12.7	3.2 - 9.5
	91.7	37.9	11.1							C50LR-BR16-8	12.7 - 19.1	9.5 - 15.9
	98.0	44.3	17.5							C50LR-BR16-12	19.1 - 25.4	15.9 - 22.2
	104.4	50.6	23.8							C50LR-BR16-16	25.4 - 31.8	22.2 - 28.6
	110.7	57.0	30.2							C50LR-BR16-20	31.8 - 38.1	28.6 - 34.9
	117.1	63.3	36.5							C50LR-BR16-24	38.1 - 44.5	34.9 - 41.3
	123.4	69.7	42.9							C50LR-BR16-28	44.5 - 50.8	41.3 - 47.6
	129.8	76.0	49.2							C50LR-BR16-32	50.8 - 57.2	47.6 - 54.0
	136.1	82.4	55.6							C50LR-BR16-36	57.2 - 63.5	54.0 - 60.3
	142.5	88.7	61.9							C50LR-BR16-40	63.5 - 69.9	60.3 - 66.7
	148.8	95.1	68.3							C50LR-BR16-44	69.9 - 76.2	66.7 - 73.0
12.7 12.52 - 13.08	155.2	101.4	74.6	23.6	8.1	13.1 - 14.3	75.8	64.1	53.6	C50LR-BR16-48	76.2 - 82.6	73.0 - 79.4
	161.5	107.8	81.0							C50LR-BR16-52	82.6 - 88.9	79.4 - 85.7
	167.9	114.1	87.3							C50LR-BR16-56	88.9 - 95.3	85.7 - 92.1
	174.2	120.5	93.7							C50LR-BR16-60	95.3 - 101.6	92.1 - 98.4
	180.6	126.8	100.0							C50LR-BR16-64	101.6 - 108.0	98.4 - 104.8
	186.9	133.2	106.4							C50LR-BR16-68	108.0 - 114.3	104.8 - 111.1
	193.3	139.5	112.7							C50LR-BR16-72	114.3 - 120.7	111.1 - 117.5
	199.6	145.9	119.1							C50LR-BR16-76	120.7 - 127.0	117.5 - 123.8
	206.0	152.2	125.4							C50LR-BR16-80	127.0 - 133.4	123.8 - 130.2
	212.3	158.6	131.8							C50LR-BR16-84	133.4 - 139.7	130.2 - 136.5
	218.7	164.9	138.1							C50LR-BR16-88	139.7 - 146.1	136.5 - 142.9
	225.0	171.3	144.5							C50LR-BR16-92	146.1 - 152.4	142.9 - 149.2

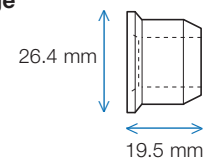
Standard

LC-2R16G



Wide flange

3LC-2R16G



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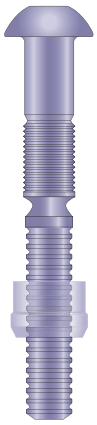

C50L® Lockbolt - Steel

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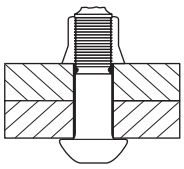
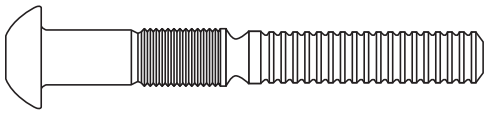


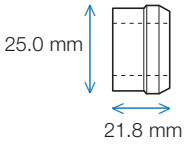


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R20G	min-max (mm) Wide flange 3LC-2R20G
	97.6	37.2	4.8							C50LR-BR20-4	6.4 - 12.7	2.3 - 8.6
	104.0	43.5	11.1							C50LR-BR20-8	12.7 - 19.1	8.6 - 15.1
	110.3	49.9	17.5							C50LR-BR20-12	19.1 - 25.4	15.1 - 21.4
	116.7	56.2	23.8							C50LR-BR20-16	25.4 - 31.8	21.4 - 27.8
	123.0	62.6	30.2							C50LR-BR20-20	31.8 - 38.1	27.8 - 34.1
	129.4	68.9	36.5							C50LR-BR20-24	38.1 - 44.5	34.1 - 40.5
	135.7	75.3	42.9							C50LR-BR20-28	44.5 - 50.8	40.5 - 46.8
	142.1	81.6	49.2							C50LR-BR20-32	50.8 - 57.2	46.8 - 53.2
	148.4	88.0	55.6							C50LR-BR20-36	57.2 - 63.5	53.2 - 59.5
	154.8	94.3	61.9							C50LR-BR20-40	63.5 - 69.9	59.5 - 65.9
	161.1	100.7	68.3							C50LR-BR20-44	69.9 - 76.2	65.9 - 72.2
15.9 15.67 - 16.31	167.5	107.0	74.6	30.4	11.0	17.5	120.5	100.1	85.4	C50LR-BR20-48	76.2 - 82.6	72.2 - 78.6
	173.8	113.4	81.0							C50LR-BR20-52	82.6 - 88.9	78.6 - 84.9
	180.2	119.7	87.3							C50LR-BR20-56	88.9 - 95.3	84.9 - 91.3
	186.5	126.1	93.7							C50LR-BR20-60	95.3 - 101.6	91.3 - 97.6
	192.9	132.4	100.0							C50LR-BR20-64	101.6 - 108.0	97.6 - 104.0
	199.2	138.8	106.4							C50LR-BR20-68	108.0 - 114.3	104.0 - 110.3
	205.6	145.1	112.7							C50LR-BR20-72	114.3 - 120.7	110.3 - 116.7
	211.9	151.5	119.1							C50LR-BR20-76	120.7 - 127.0	116.7 - 123.0
	218.3	157.8	125.4							C50LR-BR20-80	127.0 - 133.4	123.0 - 129.4
	224.6	164.2	131.8							C50LR-BR20-84	133.4 - 139.7	129.4 - 135.7
	231.0	170.5	138.1							C50LR-BR20-88	139.7 - 146.1	135.7 - 142.1
	237.3	176.9	144.5							C50LR-BR20-92	146.1 - 152.4	142.1 - 148.4

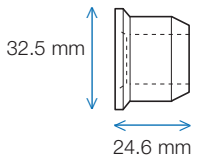
Standard

LC-2R20G



Wide flange

3LC-2R20G



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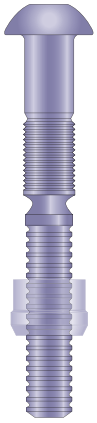

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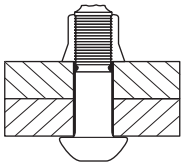
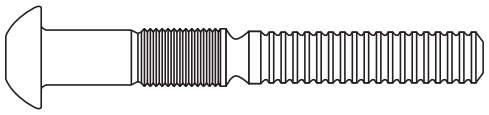


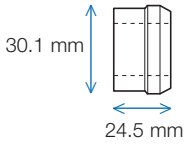


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R24G	min-max (mm) Wide flange 3LC-2R24G
	110.3	39.3	4.8							C50LR-BR24-4	6.4 - 12.7	1.6 - 8.0
	116.7	45.7	11.1							C50LR-BR24-8	12.7 - 19.1	8.0 - 14.3
	123.0	52.0	17.5							C50LR-BR24-12	19.1 - 25.4	14.3 - 20.7
	129.4	58.4	23.8							C50LR-BR24-16	25.4 - 31.8	20.7 - 27.0
	135.7	64.7	30.2							C50LR-BR24-20	31.8 - 38.1	27.0 - 33.4
	142.1	71.1	36.5							C50LR-BR24-24	38.1 - 44.5	33.4 - 39.7
	148.4	77.4	42.9							C50LR-BR24-28	44.5 - 50.8	39.7 - 46.1
	154.8	83.8	49.2							C50LR-BR24-32	50.8 - 57.2	46.1 - 52.4
	161.1	90.1	55.6							C50LR-BR24-36	57.2 - 63.5	52.4 - 58.8
	167.5	96.5	61.9							C50LR-BR24-40	63.5 - 69.9	58.8 - 65.1
	173.8	102.8	68.3							C50LR-BR24-44	69.9 - 76.2	65.1 - 71.5
19.1 18.82 - 19.51	180.2	109.2	74.6	36.5	13.5	20.6	178.4	144.1	126.3	C50LR-BR24-48	76.2 - 82.6	71.5 - 77.8
	186.5	115.5	81.0							C50LR-BR24-52	82.6 - 88.9	77.8 - 84.2
	192.9	121.9	87.3							C50LR-BR24-56	88.9 - 95.3	84.2 - 90.5
	199.2	128.2	93.7							C50LR-BR24-60	95.3 - 101.6	90.5 - 96.9
	205.6	134.6	100.0							C50LR-BR24-64	101.6 - 108.0	96.9 - 103.2
	211.9	140.9	106.4							C50LR-BR24-68	108.0 - 114.3	103.2 - 109.6
	218.3	147.3	112.7							C50LR-BR24-72	114.3 - 120.7	109.6 - 115.9
	224.6	153.6	119.1							C50LR-BR24-76	120.7 - 127.0	115.9 - 122.3
	231.0	160.0	125.4							C50LR-BR24-80	127.0 - 133.4	122.3 - 128.6
	237.3	166.3	131.8							C50LR-BR24-84	133.4 - 139.7	128.6 - 135.0
	243.7	172.7	138.1							C50LR-BR24-88	139.7 - 146.1	135.0 - 141.3
	250.0	179.0	144.5							C50LR-BR24-92	146.1 - 152.4	141.3 - 147.7

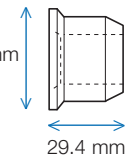
Standard

LC-2R24G



Wide flange

3LC-2R24G



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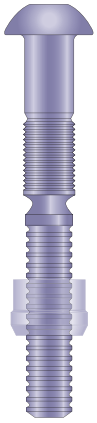

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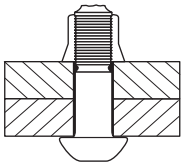
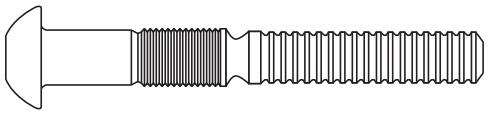


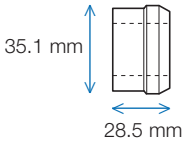


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R28G	Wide angle 3LC-2R28G	Low profile 8LC-2R28G
	123.9	49.6	11.1							C50LR-BR28-8	12.7 - 19.1	7.1 - 13.5	12.7 - 25.4
	130.2	56.0	17.5							C50LR-BR28-12	19.1 - 25.4	13.5 - 19.9	19.1 - 31.8
	136.6	62.3	23.8							C50LR-BR28-16	25.4 - 31.8	19.9 - 26.2	25.4 - 38.1
	142.9	68.7	30.2							C50LR-BR28-20	31.8 - 38.1	26.2 - 32.6	31.8 - 44.5
	149.3	75.0	36.5							C50LR-BR28-24	38.1 - 44.5	32.6 - 38.9	38.1 - 50.8
	155.6	81.4	42.9							C50LR-BR28-28	44.5 - 50.8	38.9 - 45.3	44.5 - 57.2
	162.0	87.7	49.2							C50LR-BR28-32	50.8 - 57.2	45.3 - 51.6	50.8 - 63.5
	168.3	94.1	55.6							C50LR-BR28-36	57.2 - 63.5	51.6 - 58.0	57.2 - 69.9
	174.7	100.4	61.9							C50LR-BR28-40	63.5 - 69.9	58.0 - 64.3	63.5 - 76.2
	181.0	106.8	68.3							C50LR-BR28-44	69.9 - 76.2	64.3 - 70.7	69.9 - 82.6
	187.4	113.1	74.6							C50LR-BR28-48	76.2 - 82.6	70.7 - 77.0	76.2 - 88.9
22.2	193.7	119.5	81.0	42.1	14.7	23.8	246.7	193.1	174.6	C50LR-BR28-52	82.6 - 88.9	77.0 - 83.4	82.6 - 95.3
	200.1	125.8	87.3							C50LR-BR28-56	88.9 - 95.3	83.4 - 89.7	88.9 - 101.6
	206.4	132.2	93.7							C50LR-BR28-60	95.3 - 101.6	89.7 - 96.1	95.3 - 108.0
	212.8	138.5	100.0							C50LR-BR28-64	101.6 - 108.0	96.1 - 102.4	101.6 - 114.3
	219.1	144.9	106.4							C50LR-BR28-68	108.0 - 114.3	102.4 - 108.8	108.0 - 120.7
	225.5	151.2	112.7							C50LR-BR28-72	114.3 - 120.7	108.8 - 115.1	114.3 - 127.0
	231.8	157.6	119.1							C50LR-BR28-76	120.7 - 127.0	115.1 - 121.5	120.7 - 133.4
	238.2	163.9	125.4							C50LR-BR28-80	127.0 - 133.4	121.5 - 127.8	127.0 - 139.7
	244.5	170.3	131.8							C50LR-BR28-84	133.4 - 139.7	127.8 - 134.2	133.4 - 146.1
	250.9	176.6	138.1							C50LR-BR28-88	139.7 - 146.1	134.2 - 140.5	139.7 - 152.4
	257.2	183.0	144.5							C50LR-BR28-92	146.1 - 152.4	140.5 - 146.9	146.1 - 158.8

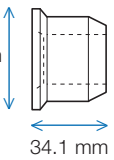
Standard

LC-2R28G



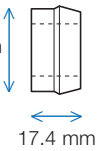
Wide flange

3LC-2R28G



Low profile

8LC-2R28G



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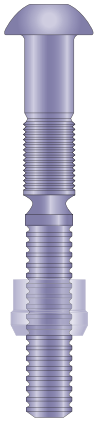

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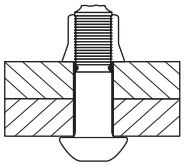
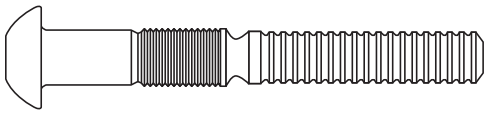


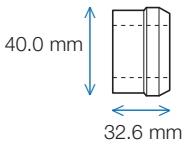


Bolt: steel | Head: pan

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R32G	min-max (mm) Wide flange 3LC-2R32G
25.4	141.6	53.9	11.1	50.8	16.5	27.0	323.4	251.3	229.1	C50LR-BR32-8	12.7 - 19.1	6.4 - 12.7
	148.0	60.3	17.5							C50LR-BR32-12	19.1 - 25.4	12.7 - 19.1
	154.3	66.6	23.8							C50LR-BR32-16	25.4 - 31.8	19.1 - 25.4
	160.7	73.0	30.2							C50LR-BR32-20	31.8 - 38.1	25.4 - 31.8
	167.0	79.3	36.5							C50LR-BR32-24	38.1 - 44.5	31.8 - 38.1
	173.4	85.7	42.9							C50LR-BR32-28	44.5 - 50.8	38.1 - 44.5
	179.7	92.0	49.2							C50LR-BR32-32	50.8 - 57.2	44.5 - 50.8
	186.1	98.4	55.6							C50LR-BR32-36	57.2 - 63.5	50.8 - 57.2
	192.4	104.7	61.9							C50LR-BR32-40	63.5 - 69.9	57.2 - 63.5
	198.8	111.1	68.3							C50LR-BR32-44	69.9 - 76.2	63.5 - 69.9
	205.1	117.4	74.6							C50LR-BR32-48	76.2 - 82.6	69.9 - 76.2
	211.5	123.8	81.0							C50LR-BR32-52	82.6 - 88.9	76.2 - 82.6
	217.8	130.1	87.3							C50LR-BR32-56	88.9 - 95.3	82.6 - 88.9
	224.2	136.5	93.7							C50LR-BR32-60	95.3 - 101.6	88.9 - 95.3
	230.5	142.8	100.0							C50LR-BR32-64	101.6 - 108.0	95.3 - 101.6
	236.9	149.2	106.4							C50LR-BR32-68	108.0 - 114.3	101.6 - 108.0
	243.2	155.5	112.7							C50LR-BR32-72	114.3 - 120.7	108.0 - 114.3
	249.6	161.9	119.1							C50LR-BR32-76	120.7 - 127.0	114.3 - 120.7
	255.9	168.2	125.4							C50LR-BR32-80	127.0 - 133.4	120.7 - 127.0
	262.3	174.6	131.8							C50LR-BR32-84	133.4 - 139.7	127.0 - 133.4
	268.6	180.9	138.1							C50LR-BR32-88	139.7 - 146.1	133.4 - 139.7
	275.0	187.3	144.5							C50LR-BR32-92	146.1 - 152.4	139.7 - 146.1

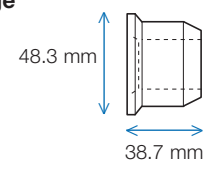
Standard

LC-2R32G

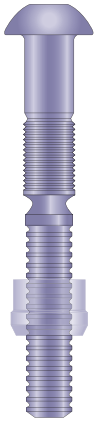


Wide flange

3LC-2R32G

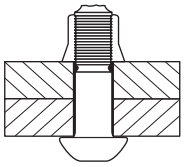


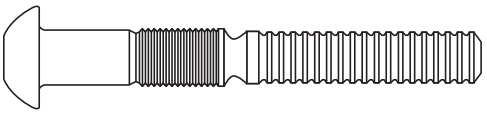
d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength



C50L® Lockbolt - Steel

- Fastener for harsh conditions
- The lockbolt's collar has a large diameter and grade 8.8 strength
- Highly vibration-resistant
- Easy to visually inspect installation quality



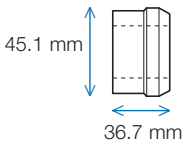


Bolt: steel | Head: pan

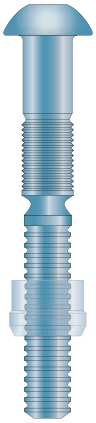
d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R36G
	178.1	90.2	40.8							C50LR-BR36-28	41.3 - 54.0
	184.5	96.5	47,2							C50LR-BR36-32	47.6 - 60.3
	190.8	102.9	53.5							C50LR-BR36-36	54.0 - 66.7
	197.2	109.2	59.9							C50LR-BR36-40	60.3 - 73.0
	203.5	115.6	66.2							C50LR-BR36-44	66.7 - 79.4
	209.9	121.9	72.6							C50LR-BR36-48	73.0 - 85,7
	216.2	128.3	78.9							C50LR-BR36-52	79.4 - 92.1
	222.6	134.6	85.3							C50LR-BR36-56	85.7 - 98.4
28.6	228.9	141.0	91.6	54.1	18.4	30.2	369.0	309.2	260.0	C50LR-BR36-60	92.1 - 104.8
	235.3	147.3	98.0							C50LR-BR36-64	98.4 - 111.1
	241.6	153.7	104.3							C50LR-BR36-68	104.8 - 117.5
	248.0	160.0	110.7							C50LR-BR36-72	111.1 - 123.8
	254.3	166.4	117.0							C50LR-BR36-76	117.5 - 130.2
	260.7	172.7	123.4							C50LR-BR36-80	123.8 - 136.5
	267.0	179.1	129.7							C50LR-BR36-84	130.2 - 142.9
	273.4	185.4	136.1							C50LR-BR36-88	136.5 - 149.2
	279.7	191.8	142.4							C50LR-BR36-92	142.9 - 155.6

Standard

LC-2R36G



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength



C50L® Lockbolt - Stainless steel

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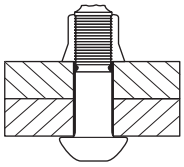
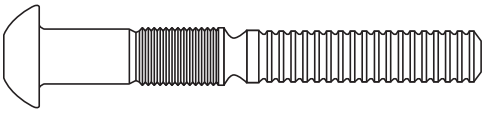
- The lockbolt's collar has a large diameter and grade 8.8 strength
- Highly vibration-resistant
- Easy to visually inspect installation quality



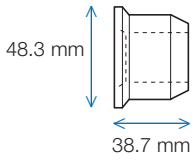


Bolt: stainless steel | Head: pan

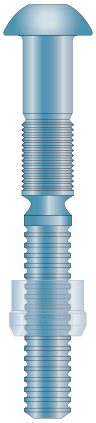
d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Wide flange 3LC-2CU16
12.7 12.52 - 13.08	85.3	31.6	4.8	23.6	8.1	13.1 - 14.3	75.8	61.8	53.6	C50LR-U16-4	3.2 - 6.4
	91.7	37.9	11.1							C50LR-U16-8	9.5 - 12.7
	98.0	44.3	17.5							C50LR-U16-12	15.9 - 19.1
	104.4	50.6	23.8							C50LR-U16-16	22.2 - 25.4
	110.7	57.0	30.2							C50LR-U16-20	28.6 - 31.8
	117.1	63.3	36.5							C50LR-U16-24	34.9 - 38.1

Wide flange

3LC-2CU16



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole dimension - **k** = nominal head thickness- **d2** = nominal head diameter - = minimum tensile strength = minimum shear strength



C50L® Lockbolt - Stainless steel

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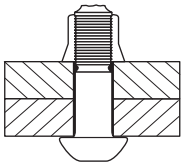
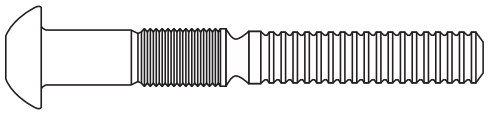


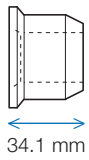


Bolt: stainless steel | Head: pan

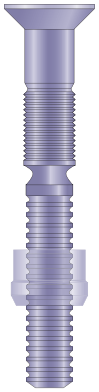
d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Wide flange 3LC-2CU20
15.9 15.67 - 16.31	97.6	37.2	4.8	30.4	11.0	17.5	120.5	93.4	85.4	C50LR-U20-4	2.3 - 6.4
	104.0	43.5	11.1							C50LR-U20-8	8.7 - 12.7
	110.3	49.9	17.5							C50LR-U20-12	15.1 - 19.1
	116.7	56.2	23.8							C50LR-U20-16	21.4 - 25.4
	123.0	62.6	30.2							C50LR-U20-20	27.8 - 31.8
	129.4	68.9	36.5							C50LR-U20-24	34.1 - 38.1

Wide flange

3LC-2CU20



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength



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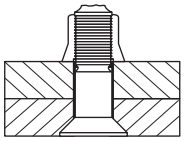
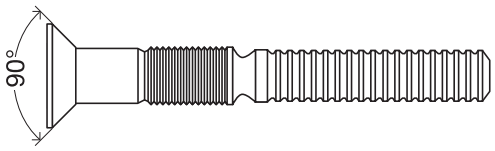


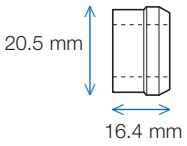


Bolt: steel | Head: 90° countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R16G	min-max (mm) Wide flange 3LC-2R16G
12.7 12.52 - 13.08	91.7	37.9	11.1	24.1	6.5	13.1 - 14.3	75.8	64.1	53.6	C50L90-BR16-8	12.7 - 19.1	9.5 - 15.9
	98.0	44.3	17.5							C50L90-BR16-12	19.1 - 25.4	15.9 - 22.2
	104.4	50.6	23.8							C50L90-BR16-16	25.4 - 31.8	22.2 - 28.6
	110.7	57.0	30.2							C50L90-BR16-20	31.8 - 38.1	28.6 - 34.9
	117.1	63.3	36.5							C50L90-BR16-24	38.1 - 44.5	34.9 - 41.3
	123.4	69.7	42.9							C50L90-BR16-28	44.5 - 50.8	41.3 - 47.6
	129.8	76.0	49.2							C50L90-BR16-32	50.8 - 57.2	47.6 - 54.0
	136.1	82.4	55.6							C50L90-BR16-36	57.2 - 63.5	54.0 - 60.3
	142.5	88.7	61.9							C50L90-BR16-40	63.5 - 69.9	60.3 - 66.7
	148.8	95.1	68.3							C50L90-BR16-44	69.9 - 76.2	66.7 - 73.0
	155.2	101.4	74.6							C50L90-BR16-48	76.2 - 82.6	73.0 - 79.4
	161.5	107.8	81.0							C50L90-BR16-52	82.6 - 88.9	79.4 - 85.7
	167.9	114.1	87.3							C50L90-BR16-56	88.9 - 95.3	85.7 - 92.1
	174.2	120.5	93.7							C50L90-BR16-60	95.3 - 101.6	92.1 - 98.4
	180.6	126.8	100.0							C50L90-BR16-64	101.6 - 108.0	98.4 - 104.8

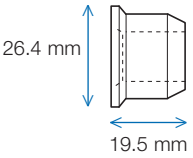
Standard

LC-2R16G

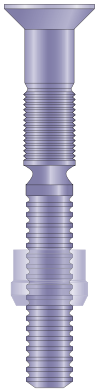


Wide flange

3LC-2R16G



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength



C50L® Lockbolt - Steel

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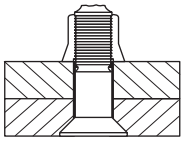
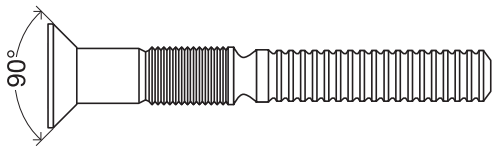


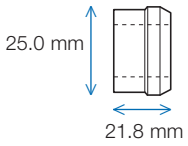


Bolt: steel | Head: 90° countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R20G	min-max (mm) Wide flange 3LC-2R20G
15.9 15.67 - 16.31	104.0	43.5	11.1	30.2	8.0	17.5	120.5	100.1	85.4	C50L90-BR20-8	12.7 - 19.1	8.6 - 15.1
	110.3	49.9	17.5							C50L90-BR20-12	19.1 - 25.4	15.1 - 21.4
	116.7	56.2	23.8							C50L90-BR20-16	25.4 - 31.8	21.4 - 27.8
	123.0	62.6	30.2							C50L90-BR20-20	31.8 - 38.1	27.8 - 34.1
	129.4	68.9	36.5							C50L90-BR20-24	38.1 - 44.5	34.1 - 40.5
	135.7	75.3	42.9							C50L90-BR20-28	44.5 - 50.8	40.5 - 46.8
	142.1	81.6	49.2							C50L90-BR20-32	50.8 - 57.2	46.8 - 53.2
	148.4	88.0	55.6							C50L90-BR20-36	57.2 - 63.5	53.2 - 59.5
	154.8	94.3	61.9							C50L90-BR20-40	63.5 - 69.9	59.5 - 65.9
	161.1	100.7	68.3							C50L90-BR20-44	69.9 - 76.2	65.9 - 72.2
	167.5	107.0	74.6							C50L90-BR20-48	76.2 - 82.6	72.2 - 78.6
	173.8	113.4	81.0							C50L90-BR20-52	82.6 - 88.9	78.6 - 84.9
	180.2	119.7	87.3							C50L90-BR20-56	88.9 - 95.3	84.9 - 91.3
	186.5	126.1	93.7							C50L90-BR20-60	95.3 - 101.6	91.3 - 97.6
	192.9	132.4	100.0							C50L90-BR20-64	101.6 - 108.0	97.6 - 104.0

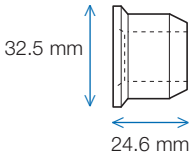
Standard

LC-2R20G

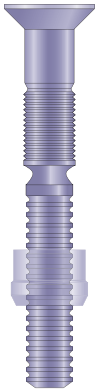


Wide flange

3LC-2R20G



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength



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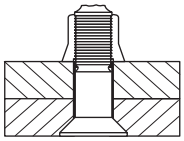
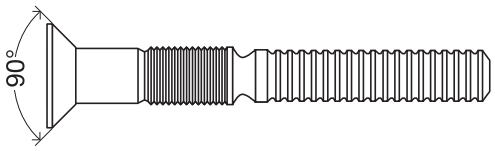


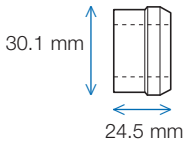


Bolt: steel | Head: 90° countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN	Min kN	Torque kN		min-max (mm) Standard LC-2R24G	min-max (mm) Wide flange 3LC-2R24G
19.1 18.82 - 19.51	123.0	52.0	17.5	36.1	9.6	20.7	178.4	144.1	126.3	C50L90-BR24-12	19.1 - 25.4	14.3 - 20.7
	129.4	58.4	23.8							C50L90-BR24-16	25.4 - 31.8	20.7 - 27.0
	135.7	64.7	30.2							C50L90-BR24-20	31.8 - 38.1	27.0 - 33.4
	142.1	71.1	36.5							C50L90-BR24-24	38.1 - 44.5	33.4 - 39.7
	148.4	77.4	42.9							C50L90-BR24-28	44.5 - 50.8	39.7 - 46.1
	154.8	83.8	49.2							C50L90-BR24-32	50.8 - 57.2	46.1 - 52.4
	161.1	90.1	55.6							C50L90-BR24-36	57.2 - 63.5	52.4 - 58.8
	167.5	96.5	61.9							C50L90-BR24-40	63.5 - 69.9	58.8 - 65.1
	173.8	102.8	68.3							C50L90-BR24-44	69.9 - 76.2	65.1 - 71.5
	180.2	109.2	74.6							C50L90-BR24-48	76.2 - 82.6	71.5 - 77.8
	186.5	115.5	81.0							C50L90-BR24-52	82.6 - 88.9	77.8 - 84.2
	192.9	121.9	87.3							C50L90-BR24-56	88.9 - 95.3	84.2 - 90.5
	199.2	128.2	93.7							C50L90-BR24-60	95.3 - 101.6	90.5 - 96.9
	205.6	134.6	100.0							C50L90-BR24-64	101.6 - 108.0	96.9 - 103.2

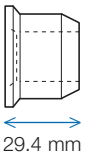
Standard

LC-2R24G

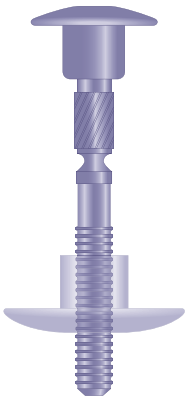


Wide flange

3LC-2R24G



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength



Hucktainer® - Steel

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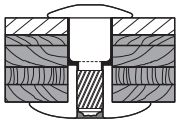
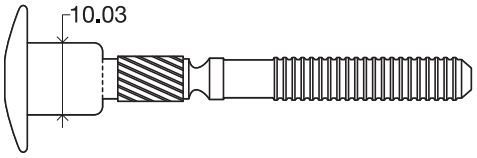


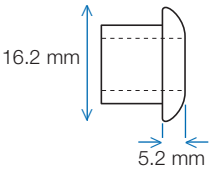


Bolt: steel | Head: standard small

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN		min-max (mm) Small head collar HLPSGC-R12	Medium head collar HLPSGM-R12	Large head collar HLPSGS-R12
9.5	57.2	14.4	3.2	21.2	3.4	10.7	3.6	HLPSG-R12-8	11.1 - 14.3		
	58.8	16.0	4.8					HLPSG-R12-9	12.7 - 15.9		

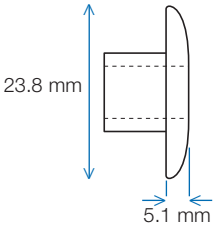
Small head collar

HLPSGC-R12



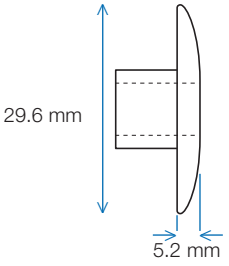
Medium head collar

HLPSGM-R12

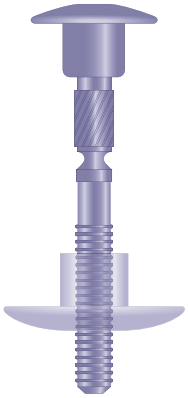


Large head collar

HLPSGS-R12



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength



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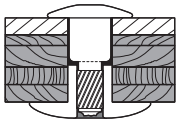
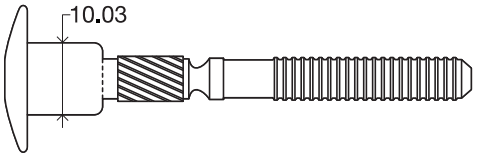
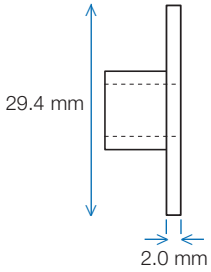




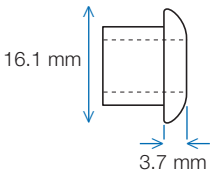
Bolt: steel | Head: standard small

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN		min-max (mm) Large head HLPS-R12XA	Narrow HLPSC-R12	Medium HLPSM-R12	Large HLPS-R12
	58.5	16.0	3.2					HLPPLS-R12-10	15.88 - 17.46		14.30 - 17.50	
	60.1	17.6	4.0					HLPPLS-R12-11	17.46 - 19.05		15.90 - 19.05	
	61.7	19.2	5.6					HLPPLS-R12-12	19.05 - 20.63		17.50 - 20.63	
	63.2	20.8	6.7					HLPPLS-R12-13	20.63 - 22.22		19.00 - 22.22	
	64.8	22.4	8.8					HLPPLS-R12-14	22.22 - 23.81		20.60 - 23.81	
	66.4	24.0	10.4					HLPPLS-R12-15	23.81 - 25.40		22.20 - 25.40	
	68.0	25.5	11.9					HLPPLS-R12-16	25.40 - 26.98		23.80 - 27.00	
	69.6	27.1	13.5					HLPPLS-R12-17	26.98 - 28.57		25.40 - 28.60	
	71.2	28.7	15.1					HLPPLS-R12-18	28.57 - 30.16		27.00 - 30.20	
	72.8	30.3	16.7					HLPPLS-R12-19	30.16 - 31.75		28.60 - 31.75	
9.5	74.4	31.9	18.3	21.2	3.4	10.7	3.6	HLPPLS-R12-20	31.75 - 33.33		30.20 - 33.33	
	75.9	33.5						HLPPLS-R12-21	33.33 - 34.92		31.70 - 34.92	
	77.5	35.1						HLPPLS-R12-22	34.92 - 36.51		33.30 - 36.51	
	79.1	36.7						HLPPLS-R12-23	36.51 - 38.10		34.90 - 38.10	
	80.7	38.2						HLPPLS-R12-24	38.10 - 39.68		36.50 - 39.70	
	82.3	39.8	19.9					HLPPLS-R12-25	39.68 - 41.27		38.10 - 41.30	
	83.9	41.4						HLPPLS-R12-26	41.27 - 42.86		39.70 - 42.90	
	85.5	43.0						HLPPLS-R12-27	42.86 - 44.45		41.30 - 44.45	
	87.1	44.6						HLPPLS-R12-28	44.45 - 46.03		42.90 - 46.03	
	88.6	46.2						HLPPLS-R12-29	46.03 - 47.62		44.40 - 47.62	
	90.2	47.8						HLPPLS-R12-30	47.62 - 49.21		46.00 - 49.21	

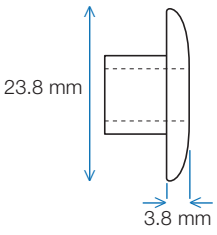
Large head
HLPS-R12XA



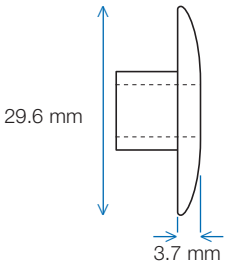
Narrow
HLPSC-R12



Standard medium
HLPSM-R12

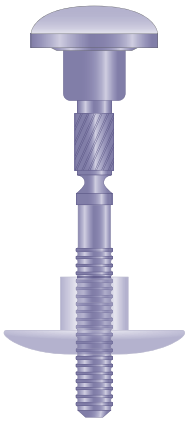


Standard large
HLPS-R12



The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength



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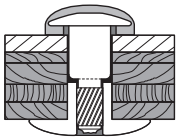
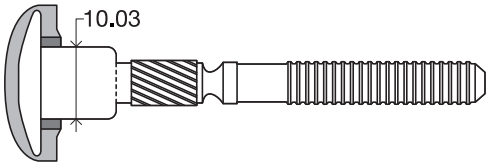
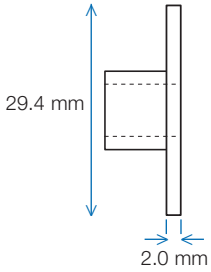




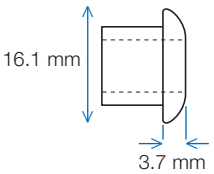
Bolt: steel | Head: standard small

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN		min-max (mm) Large head HLPS-R12XA	Narrow HLPSC-R12	Medium HLPSM-R12	Large HLPS-R12
	54.8	14.0	2.0					HLPMG-R12-10	15.88 - 17.46		14.30 - 17.50	
	56.4	15.6	3.6					HLPMG-R12-11	17.46 - 19.05		15.90 - 19.05	
	58.0	17.2	5.2					HLPMG-R12-12	19.05 - 20.63		17.50 - 20.63	
	59.6	18.8	6.8					HLPMG-R12-13	20.63 - 22.22		19.00 - 22.22	
	61.1	20.3	8.4					HLPMG-R12-14	22.22 - 23.81		20.60 - 23.81	
	62.7	21.9	10.0					HLPMG-R12-15	23.81 - 25.40		22.20 - 25.40	
	64.3	23.5	11.5					HLPMG-R12-16	25.40 - 26.98		23.80 - 27.00	
	65.9	25.1	13.1					HLPMG-R12-17	26.98 - 28.57		25.40 - 28.60	
	67.5	26.7	14.7					HLPMG-R12-18	28.57 - 30.16		27.00 - 30.20	
	69.1	28.3	16.3					HLPMG-R12-19	30.16 - 31.75		28.60 - 31.75	
9.5	70.7	29.9	17.9	24.1	7.3	10.7	3.6	HLPMG-R12-20	31.75 - 33.33		30.20 - 33.33	
	72.3	31.5	19.5					HLPMG-R12-21	33.33 - 34.92		31.70 - 34.92	
	73.8	33.0	21.3					HLPMG-R12-22	34.92 - 36.51		33.30 - 36.51	
	75.4	34.6	22.7					HLPMG-R12-23	36.51 - 38.10		34.90 - 38.10	
	77.0	36.2	24.2					HLPMG-R12-24	38.10 - 39.68		36.50 - 39.70	
	78.6	37.8	25.8					HLPMG-R12-25	39.68 - 41.27		38.10 - 41.30	
	80.2	39.4	27.4					HLPMG-R12-26	41.27 - 42.86		39.70 - 42.90	
	81.8	41.0	29.0					HLPMG-R12-27	42.86 - 44.45		41.30 - 44.45	
	83.4	42.6	30.6					HLPMG-R12-28	44.45 - 46.03		42.90 - 46.03	
	85.0	44.2	32.2					HLPMG-R12-29	46.03 - 47.62		44.40 - 47.62	
	86.5	45.7	33.8					HLPMG-R12-30	47.62 - 49.21		46.00 - 49.21	

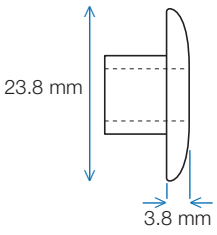
Large head
HLPS-R12XA



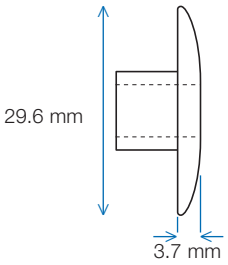
Narrow
HLPSC-R12



Standard medium
HLPSM-R12



Standard large
HLPS-R12



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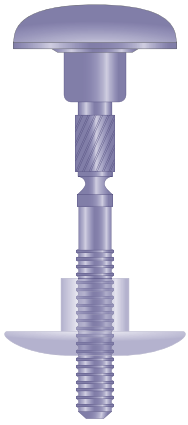

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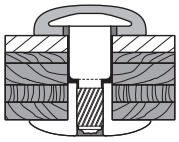
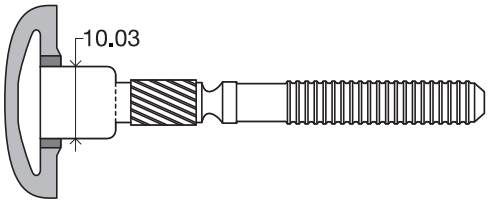


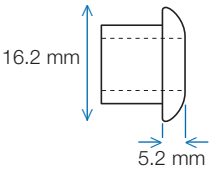


Bolt: steel | Head: standard medium encapsulated

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN		min-max (mm) Small head collar HLPSGC-R12	Medium head collar HLPSGM-R12	Large head collar HLPSGS-R12
9.5	55.6	12.8	1.3	30.7	6.6	10.7	3.6	HLPEG-R12-7	9.5 - 12.7		
	57.1	14.3	2.8					HLPEG-R12-8	11.1 - 14.3		
	56.8	14.3	1.3					HLPEG-R12-9	12.7 - 15.9		

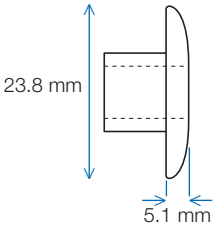
Small head collar

HLPSGC-R12



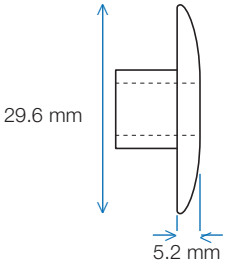
Medium head collar

HLPSGM-R12



Large head collar

HLPSGS-R12



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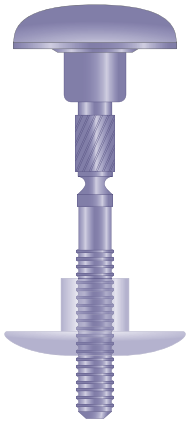

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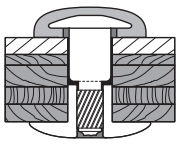
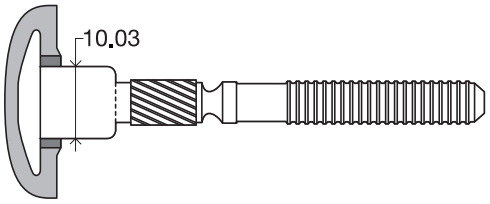
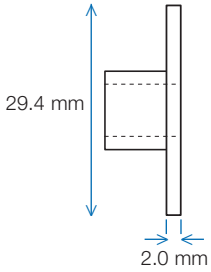




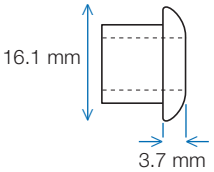
Bolt: steel | Head: standard medium encapsulated

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	Min kN		min-max (mm)			
									Long head HLPS-R12XA	Narrow HLPSC-R12	Standard medium HLPSM-R12	Standard large HLPS-R12
9.5	58.4	15.9	2.0	30.7	6.6	10.7	3.6	HLPEG-R12-10	15.88 - 17.46		14.30 - 17.50	
	60.0	17.5	3.6					HLPEG-R12-11	17.46 - 19.05		15.90 - 19.05	
	61.6	19.1	5.2					HLPEG-R12-12	19.05 - 20.63		17.50 - 20.63	
	63.2	20.7	6.8					HLPEG-R12-13	20.63 - 22.22		19.00 - 22.22	
	64.8	22.3	8.4					HLPEG-R12-14	22.22 - 23.81		20.60 - 23.81	
	66.3	23.9	10.0					HLPEG-R12-15	23.81 - 25.40		22.20 - 25.40	
	67.9	25.5	11.5					HLPEG-R12-16	25.40 - 26.98		23.80 - 27.00	
	69.5	27.0	13.1					HLPEG-R12-17	26.98 - 28.57		25.40 - 28.60	
	71.1	28.6	14.7					HLPEG-R12-18	28.57 - 30.16		27.00 - 30.20	
	72.7	30.2	16.3					HLPEG-R12-19	30.16 - 31.75		28.60 - 31.75	
	74.3	31.8	17.9					HLPEG-R12-20	31.75 - 33.33		30.20 - 33.33	
	75.9	33.4	19.5					HLPEG-R12-21	33.33 - 34.92		31.70 - 34.92	
	77.5	35.0	21.3					HLPEG-R12-22	34.92 - 36.51		33.30 - 36.51	
	79.0	36.6	22.7					HLPEG-R12-23	36.51 - 38.10		34.90 - 38.10	
	80.6	38.2	24.2					HLPEG-R12-24	38.10 - 39.68		36.50 - 39.70	
	82.2	39.7	25.8					HLPEG-R12-25	39.68 - 41.27		38.10 - 41.30	
	83.8	41.3	27.4					HLPEG-R12-26	41.27 - 42.86		39.70 - 42.90	
	85.4	42.9	29.0					HLPEG-R12-27	42.86 - 44.45		41.30 - 44.45	
	87.0	44.5	30.6					HLPEG-R12-28	44.45 - 46.03		42.90 - 46.03	
	88.6	46.1	32.2					HLPEG-R12-29	46.03 - 47.62		44.40 - 47.62	

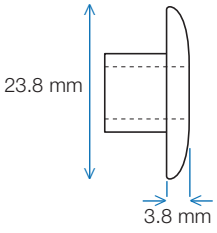
Long head
HLPS-R12XA



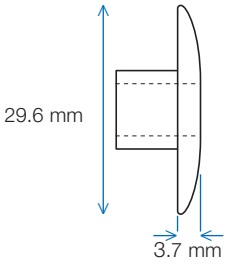
Narrow
HLPSC-R12



Standard medium
HLPSM-R12



Standard large
HLPS-R12



d1 = thread diameter - **l** = nominal length of the body - **l2** = length at break notch - **l3** = length without grooves - ↓ = grip range (min. - max.) - **Ø** = hole size - **k** = nominal head thickness - **d2** = nominal head diameter - ↑ = minimum tensile strength

BobTail® system: the latest development in lockbolts

The BobTail® system includes both lockbolts and riveting machines and has been developed to deliver the highest levels of performance and reliability.

Main benefits:

- Extremely fast setting cycle.
  The setting speed of a 1/4 diameter BobTail® is less than 1 second. For the 16 mm diameter BobTail®, it takes 2 seconds: up to 2 times faster than any other large-diameter lockbolt on the market.

- No bolt breakage.

  - No waste of material.
  - Low-noise installation.
  - Highly corrosion resistant.

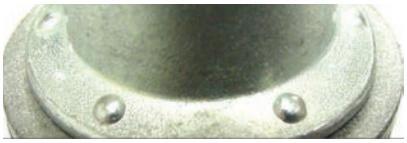
- Shock-free setting sequence, eliminating any physical impact on the operator's hands and arms

- High wear and vibration resistance.

- It has a locking groove (for diameters above 12 mm) which prevents the bolt and collar from moving, thus facilitating the installation process.

- No secondary operations required.

- Quick visual inspection to check that the installation has been carried out properly (for diameters greater than 12 mm).



Before setting

After setting

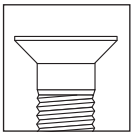
- If you are already using other HUCK® lockbolts such as the C50L® or C6L® and wish to change to BobTail® to enjoy its benefits, it is quick and easy to switch between them, thanks to the similarities in size and strength. All you need to do is adjust the tooling on the riveting machines.

Diameters available: 12 mm, 14 mm, 16 mm and 20 mm.
Various surface treatments and corrosion resistance options available on request.

Standard head types and properties:

Pan
Grade 5 standard
Available in grade 8.8 (Ø > 12.7mm)

Wide flange
Grade 10.9 standard
Metric range



90º countersunk
On request

	Pan	Wide flange
Non-metric sizes	Grade 5 (Ø 3/16 to 3/8) Grade 8.8 (Ø 1/2 to 1)	–
Metric sizes	–	Grade 10.9 (Ø 12 to 20 mm)

lbf (kN) strength values

Diameter	Torque	Tensile	Shear
12 mm (10.9)	14,700 (65.4)	19,700 (87.7)	18,500 (65.4)
14 mm (10.9)	19,500 (87)	27,000 (120)	21,100 (94)
16 mm (10.9)	26,000 (116)	36,600 (163)	26,000 (116)
20 mm (10.9)	40,700 (181)	57,300 (255)	41,000 (182)

BobTail® riveting machines

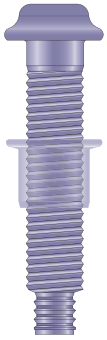
BobTail® machines ensure a quicker and easier installation process by reducing the force required to set the rivet.

They are lighter and more compact machines, offering greater flexibility in use and easier access in confined spaces.

The smooth installation process of the BobTail® helps to increase the service life of both the machine and the spare parts, thus also prolonging maintenance cycles. This significantly reduces the overall costs associated with maintenance and tooling, while increasing productivity

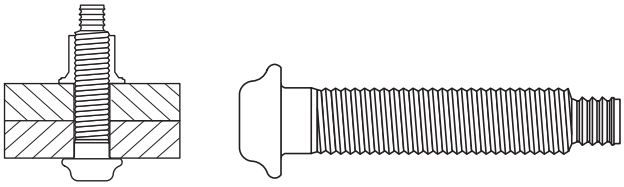
BOBTAIL® SWAGEFORWARD rivet gun

BOBTAIL® BTT rivet gun



BobTail® - Steel - Metric sizes

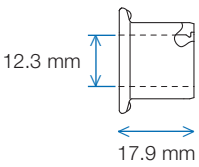
- No break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation
- Greater grip provided by the collar and rivet head
- Installed with a semi-automatic rivet gun: more accurate and quicker installation
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Zinc-plated collar / Bolt with surface treatment (add suffix "G" to the product no. to order a bolt with zinc plating treatment)



Bolt: steel | Head: wide flange

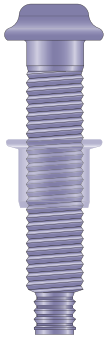
d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	46.1					5.0 - 15.0				MBT-DT12-10	
	51.1					10.0 - 20.0				MBT-DT12-15	
	56.1					15.0 - 25.0				MBT-DT12-20	
	61.1					20.0 - 30.0				MBT-DT12-25	
	66.1					25.0 - 35.0				MBT-DT12-30	
	71.1					30.0 - 40.0				MBT-DT12-35	
	76.1	3.8				35.0 - 45.0				MBT-DT12-40	
12.0	81.1		25.4	9.6	12.0 - 13.5	40.0 - 50.0	87.7	65.4	64.9	MBT-DT12-45	MBTC-R12BL
	86.1					45.0 - 55.0				MBT-DT12-50	
	91.1					50.0 - 60.0				MBT-DT12-55	
	96.1					55.0 - 65.0				MBT-DT12-60	
	101.1					60.0 - 70.0				MBT-DT12-65	
	106.1					65.0 - 75.0				MBT-DT12-70	
	111.1					70.0 - 80.0				MBT-DT12-75	
	116.1	9.5				75.0 - 85.0				MBT-DT12-80	

MBTC-R12BL



The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



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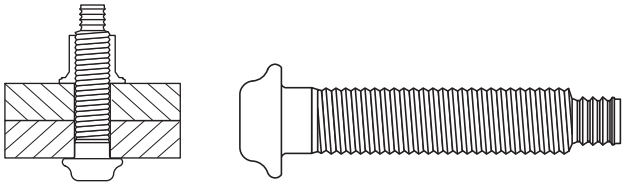
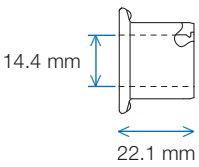


Bolt: steel | Head: wide flange

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	49.0					5.0 - 15.0				MBT-DT14-10	
	54.0					10.0 - 20.0				MBT-DT14-15	
	59.0					15.0 - 25.0				MBT-DT14-20	
	64.0					20.0 - 30.0				MBT-DT14-25	
	69.0					25.0 - 35.0				MBT-DT14-30	
	74.0					30.0 - 40.0				MBT-DT14-35	
	79.0	3.8				35.0 - 45.0				MBT-DT14-40	
14.0	84.0		30.0	11.5	14.0 - 15.5	40.0 - 50.0	120.0	94.0	87.0	MBT-DT14-45	MBTC-R14BL
	89.0					45.0 - 55.0				MBT-DT14-50	
	94.0					50.0 - 60.0				MBT-DT14-55	
	99.0					55.0 - 65.0				MBT-DT14-60	
	104.0					60.0 - 70.0				MBT-DT14-65	
	109.0					65.0 - 75.0				MBT-DT14-70	
	114.0	9.5				70.0 - 80.0				MBT-DT14-75	
	119.0					75.0 - 85.0				MBT-DT14-80	

MBTC-R14BL



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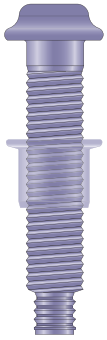
= minimum shear strength



BobTail® - Steel - Metric sizes

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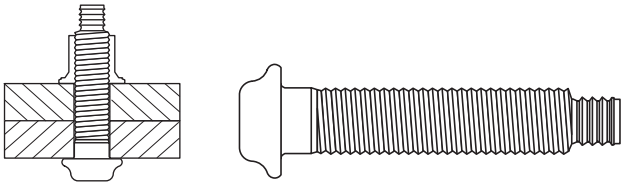
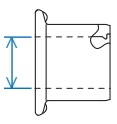


Bolt: steel | Head: wide flange

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	52.0					5.0 - 15.0				MBT-DT16-10	
	57.0					10.0 - 20.0				MBT-DT16-15	
	62.0					15.0 - 25.0				MBT-DT16-20	
	67.0	3.8				20.0 - 30.0				MBT-DT16-25	
	72.0					25.0 - 35.0				MBT-DT16-30	
	77.0					30.0 - 40.0				MBT-DT16-35	
	82.0					35.0 - 45.0				MBT-DT16-40	
16.0	87.0		33.8	12.2	16.0 - 17.5	40.0 - 50.0	163.00	122.0	116.0	MBT-DT16-45	MBTC-R16BL
	92.0					45.0 - 55.0				MBT-DT16-50	
	97.0					50.0 - 60.0				MBT-DT16-55	
	102.0					55.0 - 65.0				MBT-DT16-60	
	107.0	9.5				60.0 - 70.0				MBT-DT16-65	
	112.0					65.0 - 75.0				MBT-DT16-70	
	117.0					70.0 - 80.0				MBT-DT16-75	
	122.0					75.0 - 85.0				MBT-DT16-80	

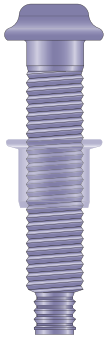
MBTC-R16BL 16.4 mm



23.7 mm

The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



BobTail® - Steel - Metric sizes

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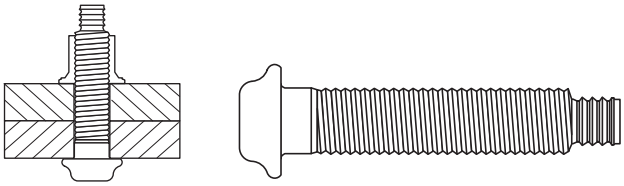
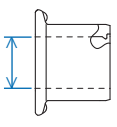
- Zinc-plated collar / Bolt with surface treatment (add suffix "G" to the product no. to order a bolt with zinc plating treatment)



Bolt: steel | Head: wide flange

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	60.7					5.0 - 15.0				MBT-DT20-10	
	65.7					10.0 - 20.0				MBT-DT20-15	
	70.7					15.0 - 25.0				MBT-DT20-20	
	75.7					20.0 - 30.0				MBT-DT20-25	
	80.7					25.0 - 35.0				MBT-DT20-30	
	85.7	3.8				30.0 - 40.0				MBT-DT20-35	
	90.7					35.0 - 45.0				MBT-DT20-40	
20.0	95.7		42.4	16.0	20.0 - 22.0	40.0 - 50.0	255.0	191.0	181.0	MBT-DT20-45	MBTC-R20BL
	100.7					45.0 - 55.0				MBT-DT20-50	
	105.7					50.0 - 60.0				MBT-DT20-55	
	110.7					55.0 - 65.0				MBT-DT20-60	
	115.7					60.0 - 70.0				MBT-DT20-65	
	120.7	9.5				65.0 - 75.0				MBT-DT20-70	
	125.7					70.0 - 80.0				MBT-DT20-75	
	130.7					75.0 - 85.0				MBT-DT20-80	

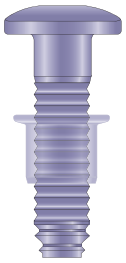
MBTC-R20BL 20.5 mm



29.6 mm

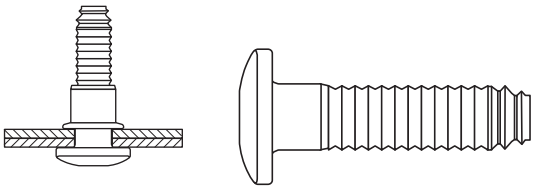
The codes in blue are the most important in the range (the most popular products)

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



BobTail® - Steel - Imperial sizes

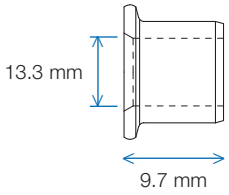
- No break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation
- Greater grip provided by the collar and rivet head
- Installed with a semi-automatic rivet gun: more accurate and quicker installation
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Grade 8.8 on request



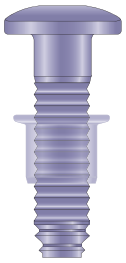
Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	20.7	1.0				0.0 - 4.7				BT-R8-1GA	
	22.2	1.6				0.0 - 6.4				BT-R8-2GA	
	23.8	3.2				1.6 - 7.9				BT-R8-3GA	
	25.4	4.7				3.2 - 9.5				BT-R8-4GA	
	27.0	6.4				4.7 - 1.1				BT-R8-5GA	
	28.6	7.9				6.4 - 12.7				BT-R8-6GA	
1/4 (6.4 mm)	30.2	11.1	13.6	3.6	6.4 - 7.1	9.5 - 15.9	13.3	13.6	8.0	BT-R8-8GA	BTC-R8GA/GAH
	31.8	14.3				12.7 - 19.1				BT-R8-10GA	
	33.3	17.4				15.9 - 22.2				BT-R8-12GA	
	34.9	20.6				19.1 - 25.4				BT-R8-14GA	
	36.5	23.8				22.2 - 28.6				BT-R8-16GA	
	38.1	27.0				25.4 - 31.8				BT-R8-18GA	
	39.7	30.1				28.6 - 34.9				BT-R8-20GA	

BTC-R8GA/GAH



d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



BobTail® - Steel - Imperial sizes

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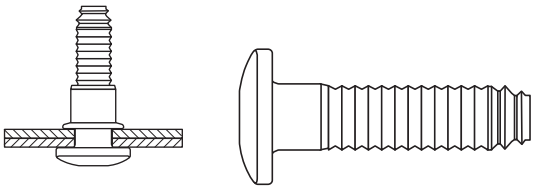
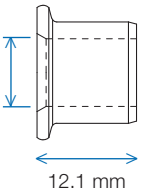
- Installed with a semi-automatic rivet gun: more accurate and quicker installation
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Grade 8.8 on request



Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
5/16 (7.9 mm)	29.4	4.7	17.3	4.4	7.9 - 9.1	3.2 - 9.5	20.5	21.0	12.5	BT-R10-4GA	BTC-R10GA/GAH
	32.5	7.9				6.4 - 12.7				BT-R10-6GA	
	35.7	11.1				9.5 - 15.9				BT-R10-8GA	
	38.9	14.3				12.7 - 19.1				BT-R10-10GA	
	42.1	17.4				15.9 - 22.2				BT-R10-12GA	
	45.2	20.6				19.1 - 25.4				BT-R10-14GA	
	48.4	23.8				22.2 - 28.6				BT-R10-16GA	
	51.6	27.0				25.4 - 31.8				BT-R10-18GA	
	54.8	30.1				28.6 - 34.9				BT-R10-20GA	

BTC-R10GA/GAH



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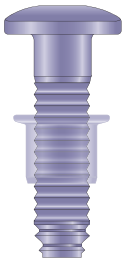
= minimum shear strength



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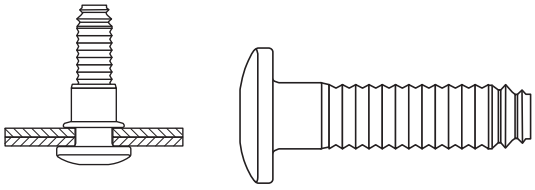
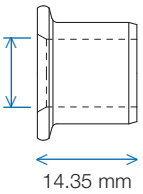
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Grade 8.8 on request



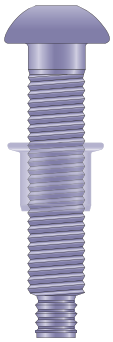
Perno: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no. Round
	33.3	4.7				3.2 - 9.5				BT-R12-4GA	
	36.5	7.9				6.4 - 12.7				BT-R12-6GA	
	39.6	11.1				9.5 - 15.9				BT-R12-8GA	
	42.8	14.3				12.7 - 19.1				BT-R12-10GA	
3/8 (9.5 mm)	46.0	17.5	20.83	5.3	9.5 - 10.7	15.9 - 22.2	28.9	5.3	17.9	BT-R12-12GA	BTC-R12GA/GAH
	49.1	20.6				19.1 - 25.4				BT-R12-14GA	
	52.3	23.8				22.2 - 28.6				BT-R12-16GA	
	55.5	27.0				25.4 - 31.8				BT-R12-18GA	
	58.7	30.2				28.6 - 34.9				BT-R12-20GA	

BTC-R12GA/GAH

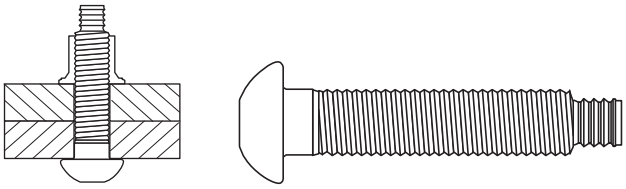


d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



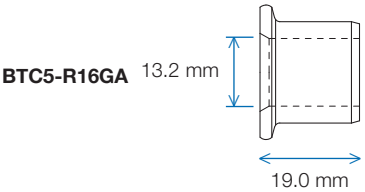
BobTail® - Steel - Imperial sizes

- No break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation
- Greater grip provided by the collar and rivet head
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Zinc-plated collar / Bolt with surface treatment (add suffix "GA" to the product no. to order a bolt with zinc plating treatment)
- Installed with a semi-automatic rivet gun: more accurate and quicker installation

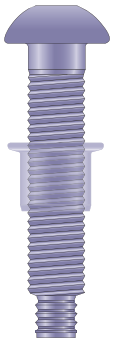


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
1/2 (12.7 mm)	48.3	3.8	24.2	8.5	12.7 - 14.3	6.4 - 15.7	75.8	62.3	53.6	BTR-BR16-4GA	BTC5-R16GA
	54.6					12.7 - 22.1				BTR-BR16-8GA	
	61.0					19.1 - 28.4				BTR-BR16-12GA	
	67.3					25.4 - 34.8				BTR-BR16-16GA	
	73.7					31.8 - 41.1				BTR-BR16-20GA	
	80.0					38.1 - 47.5				BTR-BR16-24GA	
	86.4					44.5 - 53.8				BTR-BR16-28GA	
	92.7					50.8 - 60.2				BTR-BR16-32GA	
	99.1					57.2 - 66.5				BTR-BR16-36GA	
	105.4					63.5 - 72.9				BTR-BR16-40GA	
	111.8					69.9 - 79.2				BTR-BR16-44GA	
	118.1	9.5				76.2 - 85.6				BTR-BR16-48GA	
	124.5					82.6 - 91.9				BTR-BR16-52GA	
	130.8					8.9 - 98.3				BTR-BR16-56GA	
	137.2					95.3 - 104.6				BTR-BR16-60GA	



d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



BobTail® - Steel - Imperial sizes

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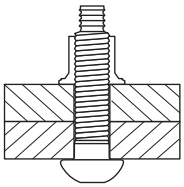
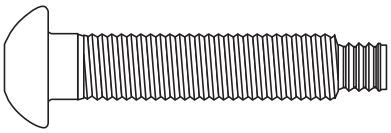
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase
- Zinc-plated collar / Bolt with surface treatment (add suffix "GA" to the product no. to order a bolt with zinc plating treatment)

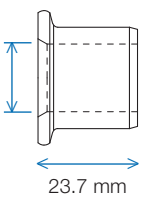




Bolt: steel | Head: round

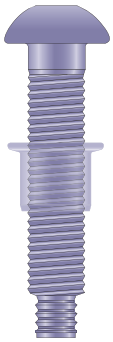
d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
5/8 (15.9 mm)	52.6	3.8	30.4	11.0	15.9 - 17.5	6.4 - 15.7	120.5	100.1	85.4	BTR-BR20-4GA	BTC5-R20GA
	58.9					12.7 - 22.1				BTR-BR20-8GA	
	65.3					19.1 - 28.4				BTR-BR20-12GA	
	71.6					25.4 - 34.8				BTR-BR20-16GA	
	78.0					31.8 - 41.1				BTR-BR20-20GA	
	84.3					38.1 - 47.5				BTR-BR20-24GA	
	90.7					44.5 - 53.8				BTR-BR20-28GA	
	97.0					50.8 - 60.2				BTR-BR20-32GA	
	103.4					57.2 - 66.5				BTR-BR20-36GA	
	109.7					63.5 - 72.9				BTR-BR20-40GA	
	116.1	9.5				69.9 - 79.2				BTR-BR20-44GA	
	122.4					76.2 - 85.6				BTR-BR20-48GA	

BTC5-R20GA 16.4 mm



23.7 mm

d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



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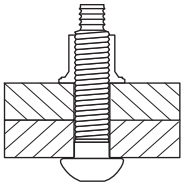
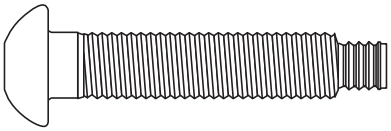
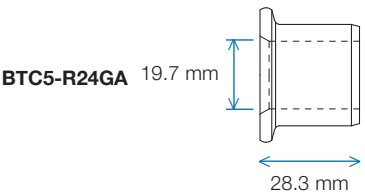
- Zinc-plated collar / Bolt with surface treatment (add suffix "GA" to the product no. to order a bolt with zinc plating treatment)



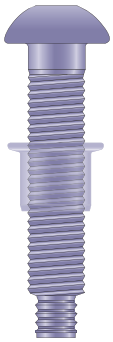


Bolt: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
3/4 (19.1 mm)	61.8	4.1	36.6	13.5	19.1 - 20.6	6.4 - 15.7	178.4	144.1	126.3	BTR-BR24-4GA	BTC5-R24GA
	68.1					12.7 - 22.1				BTR-BR24-8GA	
	74.5					19.1 - 28.4				BTR-BR24-12GA	
	80.8					25.4 - 34.8				BTR-BR24-16GA	
	87.2					31.8 - 41.1				BTR-BR24-20GA	
	93.5					38.1 - 47.5				BTR-BR24-24GA	
	99.9					44.5 - 53.8				BTR-BR24-28GA	
	106.2					50.8 - 60.2				BTR-BR24-32GA	
	112.6					57.2 - 66.5				BTR-BR24-36GA	
	118.9	9.5				63.5 - 72.9				BTR-BR24-40GA	
	125.3					69.9 - 79.2				BTR-BR24-44GA	
	131.6					76.2 - 85.6				BTR-BR24-48GA	
	138.0					82.6 - 91.9				BTR-BR24-52GA	
	144.3					88.9 - 98.3				BTR-BR24-56GA	
	150.7					95.3 - 104.6				BTR-BR24-60GA	
	157.0					101.6 - 111.0				BTR-BR24-64GA	
	163.4					108.0 - 117.3				BTR-BR24-68GA	
	169.7					114.3 - 123.7				BTR-BR24-72GA	



d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
= minimum shear strength



BobTail® - Steel - Imperial sizes

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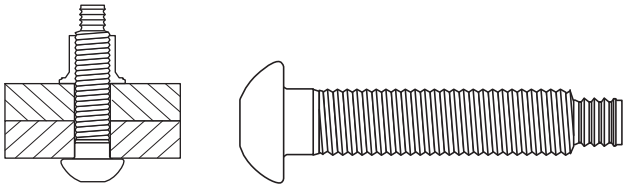
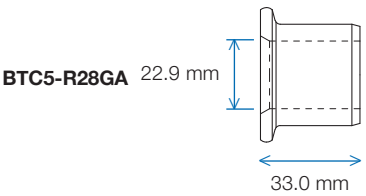


Perno: steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
7/8 (22.2 mm)	68.7	6.4	42.3	14.9	22.2 - 23.8	6.4 - 15.7	246.7	193.1	174.6	BTR-BR28-4GA	BTC5-R28GA
	75.1					12.7 - 22.1				BTR-BR28-8GA	
	81.4					19.1 - 28.4				BTR-BR28-12GA	
	87.8					25.4 - 34.8				BTR-BR28-16GA	
	94.1					31.8 - 41.1				BTR-BR28-20GA	
	100.5					38.1 - 47.5				BTR-BR28-24GA	
	106,8					44.5 - 53.8				BTR-BR28-28GA	
	113.2	12.7				50.8 - 60.2				BTR-BR28-32GA	
	119.5					57.2 - 66.5				BTR-BR28-36GA	
	125.9					63.5 - 72.9				BTR-BR28-40GA	
	132.2					69.9 - 79.2				BTR-BR28-44GA	
	138.6					76.2 - 85.6				BTR-BR28-48GA	
	144.9					82.6 - 91.9				BTR-BR28-52GA	
	151.3					88.9 - 98.3				BTR-BR28-56GA	
	157.6					95.3 - 104.6				BTR-BR28-60GA	
	164.0					101.6 - 111.0				BTR-BR28-64GA	
	170.3					108.0 - 117.3				BTR-BR28-68GA	
	176.7					114.3 - 123.7				BTR-BR28-72GA	



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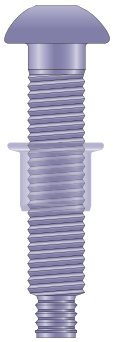
= minimum shear strength



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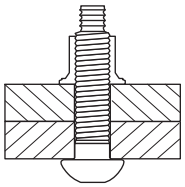
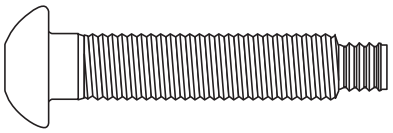
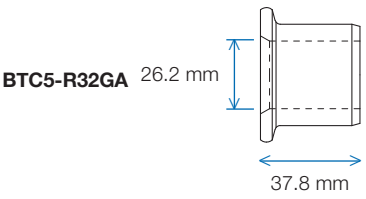




Bolt:steel | Head: round

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	Min kN	Min kN	Torque kN		Lockbolt ref. no.
	76.2					6.4 - 15.7				BTR-BR32-4GA	
	82.6					12.7 - 22.1				BTR-BR32-8GA	
	88.9					19.1 - 28.4				BTR-BR32-12GA	
	95.4	6.4				25.4 - 34.8				BTR-BR32-16GA	
	101.6					31.8 - 41.1				BTR-BR32-20GA	
	108.0					38.1 - 47.5				BTR-BR32-24GA	
	114.3					44.5 - 53.8				BTR-BR32-28GA	
	120.7					50.8 - 60.2				BTR-BR32-32GA	
1	127.0					57.2 - 66.5				BTR-BR32-36GA	
(25.4 mm)	133.4		50.8	16.5	25.4 - 28.6	63.5 - 72.9	323.4	251.3	229.1	BTR-BR32-40GA	BTC5-R32GA
	139.7					69.9 - 79.2				BTR-BR32-44GA	
	146.1					76.2 - 85.6				BTR-BR32-48GA	
	152.4	1.7				82.6 - 91.9				BTR-BR32-52GA	
	158.8					88.9 - 98.3				BTR-BR32-56GA	
	165.1					95.3 - 104.6				BTR-BR32-60GA	
	171.5					101.6 - 111.0				BTR-BR32-64GA	
	177.8					108.0 - 117.3				BTR-BR32-68GA	
	184.2					114.3 - 123.7				BTR-BR32-72GA	



d1 = thread diameter - **l** = nominal length of the body - = grip range (min. - max.) - **Ø** = hole size
k = nominal head thickness - **d2** = nominal head diameter - = minimum tensile strength
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There is a wide range of installation tools available for the installation of HUCK® structural rivets and lockbolts. Choosing the right riveter depends on the type and diameter of the rivet and the application's ease of accessibility. In most cases, HUCK® installation tools can be used to install both lockbolts and structural rivets, simply by changing the nose pieces.

HUCK® structural rivets and lockbolts will meet all the required specifications as long as they have been installed with a suitable riveter.

Setting rivets with HUCK® installation tools is quick and easy, reducing manufacturing times by up to 75%, while achieving high-quality and uniform installation joints, regardless of the skill level of the operator.

The most popular HUCK® installation tools are shown below, although they are only a small part of the entire range. Please contact us to tell us about your requirements and together we will find the optimal solution for your application.

Riveters and tools required to install HUCK® rivets

Oleo-pneumatic installation tools

	202V	2025LB	254	256
				
Weight (kg)	2.31	2.61	3.90	5.00
Setting force (kN)	17.30	23.53	38.34	44.42
Stroke (mm)	18.9	17.15	14.30	22.4
Ø blind rivets (mm)	4.8 - 6.4	4.8 - 9.5	4.8 - 9.5	4.8 - 9.5
Ø lockbolts (mm)	–	4.8 - 6.4	7.9 - 9.5	4.8 - 9.5

Add the appropriate nose piece to each riveter according to the type of installation (see table p. 82-84).

Hydraulic installation tools

	2480L	2581-2	2583	2620PT	SF20	3585
						
Weight (kg)	1.0	2.49	2.09	4.48	5.0	8.62
Setting force (kN)	24.0	47.5	48.3	78.93	92.0	203.0
Stroke (mm)	22.2	23.8	38.1	36.5	50.8	46
Ø blind rivets (mm)	4.8 - 9.5	7.9	4.8 - 9.5	9.5 - 12.7	–	15.9
Ø lockbolts (mm)	4.8 - 6.4	4.8 - 9.5	7.9 - 9.5	12.7	12.7 - M16	12.7 - 19.1

Add the appropriate nose piece to each riveter according to the type of installation (see table p. 85-87).

HuckForce Powerig™ range



There are 3 electric Powerig™ options that can be used with all hydraulic installation tools. Böllhoff recommends using the HK32 002 hydraulic unit (see p. 88).

202V

Benefits:

- Lightweight and fast, reducing operator fatigue
- Ergonomic grip
- With mandrel collector

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Lok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Auto-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Magna-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
HuckLok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)

Features

Dimensions L x W	258 x 304 mm
Stroke	18.9 mm
Capacity	17.3 kN at 6.21 bar
Weight	2.31 kg
Hydraulic pressure (max.)	5.5 - 6.9 bar
Air consumption	244 l/min. based on 30 cycles per min.
Hydraulic fluid	DEXTRON II® automatic transmission fluid or equivalent

226 201 01 001

2025LB

Benefits:

- Ergonomic grip
- Robust
- With mandrel collector

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Lok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Auto-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Magna-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
HuckLok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
C6L®	■					226 215 00 142 (99-3003L)
		■				226 215 00 143 (99-3006L)
Magna-Grip®	■					226 215 00 161 (99-1456L)
		■				226 215 00 091 (99-1477UKL)
Hucktainer®				■		226 215 00 164 (99-3464L)

Features

Dimensions L x W	245 x 318 mm
Stroke	17.15 mm
Capacity	23.53 kN at 6.2 bar
Weight	2.61 kg
Air consumption	240 l/min. based on 30 cycles per min.
Hydraulic fluid	DEXTRON II® automatic transmission fluid or equivalent

226 202 01 001

254

Benefits:

- Compact and ergonomic
- Outstanding weight/power ratio
- Simple maintenance
- Reinforced piston

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Bulb®			■			226 215 00 153 (99-3307)
Magna-Lok®				■		226 215 00 115 (99-3329)
Bom®	■					226 215 00 155 (99-1053)
		■				226 215 00 044 (99-830-1)
C6L®			■			226 215 00 159 (99-99-245)
				■		226 215 00 160 (99-100-245)
C120L®			■			226 215 00 159 (99-99-245)
Magna-Grip®			■			226 215 00 162 (99-1439)

Features

Dimensions L x W	204 x 379 mm
Stroke	14.3 mm
Capacity	38.34 kN at 6.2 bar
Weight	3.9 kg
Hydraulic pressure	6.2 - 6.9 bar
Air consumption	382 l/min. based on 30 cycles per min.
Hydraulic fluid	DEXTRON II® automatic transmission fluid or equivalent

226 208 01 001

256

Benefits:

- High-speed setting: 20 per min.
- With an optimal stroke for single-cycle setting
- Compact and ergonomic
- Optimised piston for improved maintenance and service life

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Bulb®			■			226 215 00 153 (99-3307)
Magna-Lok®				■		226 210 00 400 (99-3318)
Bom®	■					226 215 00 155 (99-1053)
		■				226 215 00 044 (99-830-1)
Floortight®			■			226 215 00 158 (99-3452)
C6L® / C120L®				■		226 210 00 110 (99-100-245)
			■			226 210 00 300 (99-99-245)
Magna-Grip®			■			226 215 00 162 (99-1439)
				■		226 215 00 163 (99-1440)

Features

Dimensions L x W	156 x 377 mm
Stroke	22.4 mm
Capacity	44.42 kN at 6.2 bar
Weight	5.0 kg
Hydraulic pressure	6.2 bar max.
Air consumption	634.37 l/min. based on 30 cycles per min.
Hydraulic fluid	DEXTRON III® automatic transmission fluid or equivalent

22620701000/00

2480L

Benefits:

- Ultra-lightweight machine
- Outstanding reliability
- Simple design for minimal maintenance

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Lok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Auto-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
Magna-Bulb®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
HuckLok®	■					226 215 00 043 (99-3303L)
		■				226 215 00 025 (99-3305L)
C6L®	■					226 215 00 142 (99-3003L)
		■				226 215 00 143 (99-3006L)
Magna-Grip®	■					226 215 00 161 (99-1456L)
		■				226 215 00 091 (99-1477UKL)
Hucktainer®				■		226 215 00 164 (99-3464L)
Bobtail®		■				226 215 00 149 (99-7932L)

Features

Dimensions L x W	208 x 166 mm
Stroke	22.2 mm
Capacity	24 kN at 579 bar
Weight	1.0 kg
Hydraulic pressure (max.)	579 bar
Pressure return (max.)	221 bar
Hydraulic fluid	DEXTRON II® automatic transmission fluid or equivalent

226 203 01 001

2581-2

Benefits:

- Lightweight and compact
- Simple design
- For use in hard-to-reach areas

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Bulb®			■			226 215 00 153 (99-3307)
BOM®	■					226 215 00 155 (99-1053)
		■				226 215 00 044 (99-830-1)
			■			226 215 00 080 (99-769)
				■		226 215 00 022 (99-1272)
C6L®			■			226 215 00 159 (99-99-245)
				■		226 215 00 160 (99-100-245)
C120L®			■			226 215 00 159 (99-99-245)
				■		226 215 00 160 (99-100-245)
Magna-Grip®			■			226 215 00 162 (99-1439)
				■		226 215 00 163 (99-1440)

Features

Dimensions L x W	180 x 214 mm
Stroke	23.8 mm
Capacity	47.5 kN at 510 bar
Weight	2.49 kg
Hydraulic pressure (max.)	510 bar
Pressure return (max.)	220 bar
Hydraulic fluid	Must meet DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 or equivalent specifications

226 215 00 095

2583

Benefits:
Extremely lightweight riveter
Small piston for ease of access
Minimal maintenance

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Bulb®			■			226 215 00 153 (99-3307)
Magna-Lok®				■		226 215 00 115 (99-3329)
BOM®	■					226 215 00 155 (99-1053)
		■				226 215 00 044 (99-830-1)
			■			226 215 00 080 (99-769)
FloorTight®			■			226 215 00 158 (99-3452)
C6L®			■			226 215 00 159 (99-99-245)
				■		226 215 00 160 (99-100-245)
C120L®			■			226 215 00 159 (99-99-245)
				■		226 215 00 160 (99-100-245)
Magna-Grip®			■			226 215 00 162 (99-1439)
				■		226 215 00 163 (99-1440)
Bobtail®			■			226 215 00 151 (99-7923)
				■		226 215 00 152 (99-7924)

Features

Dimensions L x W	186 x 239 mm
Stroke	38.1 mm
Capacity	48.3 kN at 580 bar
Weight	2.09 kg
Hydraulic pressure (max.)	580 bar
Pressure return (max.)	22 bar
Hydraulic fluid	DEXTRON II® automatic transmission fluid or equivalent

226 215 00 150

2620-PT

Benefits:
Designed for high-speed setting of large rivets
Robust
Minimal maintenance

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna-Lok®					■	226 215 00 154 (99-3331)
BOM®				■		226 215 00 156 (99-3122)
					■	226 215 00 157 (99-5101)
C50L®					■	226 215 00 111 (99-5002)

Features

Dimensions L x W	167 x 179 mm
Stroke	36.5 mm
Capacity	78.93 kN at 448 bar
Weight	4.5 kg
Hydraulic pressure	510 bar
Pressure return	221 bar

226 215 00 079

SF20

Benefits:

- Very good weight/power ratio
- Rivet gun specially designed for setting Bobtail® lockbolts
- Ultra-compact machine for ease of access

Compatible rivet types	Diameter (mm)					Nose piece
	12.7	15.9	M12	M14	M16	
Bobtail®	■					226 215 00 049 (99-7882)
		■				226 215 00 167 (99-7881)
			■			226 215 00 146 (99-7880)
				■		226 215 00 147 (99-7884)
					■	226 215 00 148 (99-7881)

Features

Dimensions L x W	141 x 216 mm
Stroke	50.8 mm
Capacity	92 kN at 483 bar
Weight	5.0 kg
Hydraulic pressure (max.)	483 bar
Pressure return (max.)	345 bar
Hydraulic fluid	Must meet DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 or equivalent specifications

226 215 00 048

3585

Benefits:

- High setting force
- Strong structure
- Easy removal of broken mandrels

Compatible rivet types	Diameter (mm)			Nose piece
	12.7	15.9	19.1	
B0M®		■		226 215 00 081 (99-5102)
C50L®		■		226 215 00 110 (99-5008)
			■	226 215 00 046 (99-5010)
Bobtail®	■			226 215 00 165 (99-7835)
		■		226 215 00 166 (99-7831)
			■	226 215 00 168 (99-7836)

Features

Dimensions L x W	199 x 263 mm
Stroke	46 mm
Capacity	203 kN at 510 bar
Weight	8.62 kg
Hydraulic pressure (max.)	510 bar
Pressure return (max.)	151 bar
Hydraulic fluid	Must meet DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 or equivalent specifications

226 215 00 109

HK32-002 Powerig® - Hydraulic power supply system

Benefits:
■ For heavy use
■ Perfect for high-volume manufacturing
■ Built-in castors for ease of portability between different workstations
■ “Sureset / Control process” option available

Features

Dimensions L x W x D	720 x 500 x 800 mm
Motor	2.2 kW
Power supply	3x400 VCA (nominal) 50 Hz
Weight	97 kg (including hydraulic oil)
Machine outputs	1
Flow rate	3.2 l/min. (nominal)
Hydraulic supply pressure (max.)	600 bar

226 215 00 047

Hydraulic hose kit* - Hydraulic unit / Powerig® connection

Length	Reference no.
5 metres	226 215 00 119 (HS-05-MCE)
10 metres	226 215 00 033 (HS-10-MCE)
15 metres	226 215 00 050 (HS-15-MCE)
20 metres	226 215 00 169 (HS-20-MCE)

*There are special hoses for the BOBTAIL®

Battery-powered **HUCK®** installation tools

HUCK® BV4500-118K

Benefits:

- Electronically adjustable setting force control
- Can be used to install the full range of HUCK® structural rivets and lockbolts.

Compatible rivet types	Diameter (mm)					Nose piece
	4.8	6.4	7.9	9.5	12.7	
Magna Lok®	▬					(99-3303)
		▬				(99-3305)
Hucklok®	▬					(99-3303)
		▬				(99-3305)
Auto Bulb®	▬					(99-3303)
		▬				(99-3305)
Magna Bulb®	▬					(99-3303)
		▬				(99-3305)
BOM®	▬					(99-994)
Magna Grip®	▬					(99-3201)
		▬				(99-3204)
C6L®	▬					(99-3003)
		▬				(99-3006)
C120L®	▬					(99-3003)
		▬				(99-3006)
Bobtail®		▬				(99-7932)
			▬			(99-7932)

Features

Setting capacity	Adjustable up to 20 kN
Stroke	30 mm
Capacity	48 mm – 64 mm
Weight	2.5 kg with 5 Ah battery
Battery	18 V / Li-ion / 5 Ah
Charging time	Approx. 45 min.
Rivets set per charge	Approx. 1500 – 2500 6.4 mm rivets or 500 - 1000 lockbolts

22621501004

Compatible with HUCK® nose pieces and 18 V Makita batteries.

BV2200 battery-powered rivet gun available with 10 kN setting capacity for 6.4 mm aluminium rivets.

HUCK® BV13 and BV17

Benefits:

- Electronically adjustable setting force control
- Sets up to 10,000 rivets with a single charge
- For flexible, reliable and strong joints with large-diameter structural rivets and lockbolts

Compatible rivet types	Diameter (mm)						Nose piece	
	7.9	9.5	11.0	12.0	12.7	14.0	BV13	BV17
Magna Lok®		▬					99MGL-12-IRBU	
			▬				99MGL-M11-IRBU	
BOM®	▬						99BOM-10-IRBU	
		▬					99BOM-12-IRBU	
Magna Grip®	▬						99MGC-10-IRBU	
		▬					99MGC-12-IRBU	
C6L®/C120L®	▬						99C6L-10-IRBU	
		▬					99C6L-12-IRBU	
Bobtail®					▬		99BT-16-IRBV	99BT-16-IRBV
					▬		Cutting nose: 99BT-16-CRBV	Cutting nose: 99BT-16-CRBV
				▬				99BT-M12-IRBV-X
				▬				Cutting nose: 99BT-M12-CRBV
						▬		99BT-M14-IRBV-X
						▬		Cutting nose: 99BT-M14-CRBV
BOMtail®					▬			99BMT-16-IRBV

Features

Setting capacity	BV13, up to 56 kN BV17, up to 76kN
Stroke	45 mm
Capacity	8.0 mm – 12.8 mm
Weight	BV13, 8.93 kg. BV17, 8.48 kg.
Battery	40 V / Li-ion / 4 Ah 40 V / Li-ion / 5 Ah
Charging time	28 min. with 4 Ah battery 40 min. with 5 Ah battery

Consult

Compatible with HUCK® nose pieces and 40 V Makita batteries.

HUCK® - Summary table "Riveter/Nose piece/Fastener"

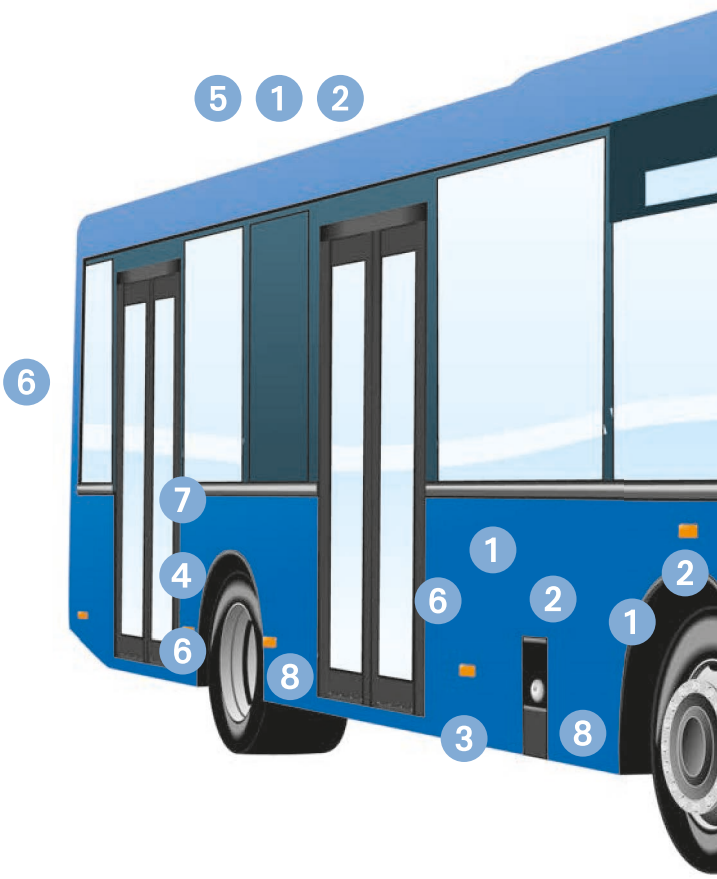
		HYDRAULIC INSTALLATION TOOLS					
		2480L	2581-2	2583	2620PT	3585	SF20
HuckLok® Magna-Lok® Magna-Bulb® Auto-Bulb®	4.8	99-3303L					
	6.4	99-3305L					
Magna-Bulb®	7.9		99-3307	99-3307			
Magna-Lok®	9.5			99-3318 or 99-3329			
	11.0						
	12.7				99-3331		
BOM®	4.8		99-1053	99-1053			
	6.4		99-830-1	99-830-1			
	7.9		99-769	99-769			
	9.5		99-1272		99-3122		
	12.7				99-5101		
	15.9					99-5102	
FloorTight®	7.9			99-3452			
C6L®	4.8	99-3003L					
	6.4	99-3006L					
	7.9		99-99-245	99-99-245			
	9.5		99-100-245	99-100-245			
C120L®	4.8						
	6.4						
	7.9		99-99-245	99-99-245			
	9.5		99-100-245	99-100-245			
Magna-Grip®	4.8	99-1456L					
	6.4	99-1477UKL					
	7.9		99-1439	99-1439			
	9.5		99-1440	99-1440			
HuckTainer®	9.5	99-3464L					
C50L®	12.7				99-5002		
	15.9					99-5008	
	19.1					99-5010	
BobTail®	6.4	99-7932L					
	7.9			99-7923			
	9.5			99-7924			
	12.7					99-7835	99-7882
	15.9					99-7831	99-7881
	19.1					99-7836	
	M12						99-7880
	M14						99-7884
	M16						99-7881

For further information, see this link:
https://www.hfsindustrial.com/brands/huck/tooling.html

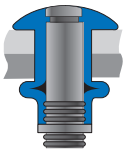
PNEUMATIC INSTALLATION TOOLS				BATTERY-POWERED INSTALLATION TOOLS		
202V	2025LB	254	256	BV4500-118K	BV13	BV17
99-3303L	99-3303L			99-3303		99-3303L
99-3305L	99-3305L			99-3305		
		99-3307	99-3307			
		99-3318 or 99-3329	99-3318			
					99MGL-12-IRBU	
			99-1053		99MGL-M11-IRBU	
		99-1053	99-830-1	99-994		
		99-830-1	99-2558 or 99-2559			
			99-2564 or 99-2565		99BOM-10-IRBU	
			99-99-245		99BOM-12-IRBU	
			99-100-245 or 99-100-102			
			99-99-245			
			99-100-245 or 99-100-102			
	99-3003L		99-3206	99-3003		
	99-3006L		99-3207	99-3006		
		99-99-245	99-1439		99C6L-10-IRBU	
		99-100-245	99-1440		99C6L-12-IRBU	
		99-99-245	99-3438	99-3003		
				99-3006		
		99-99-245	99-3438		99C6L-10-IRBU	
					99C6L-12-IRBU	
	99-1456L			99-3201		
	99-1477UKL			99-3204		
		99-1439			99MGC-10-IRBU	
					99MGC-12-IRBU	
	99-3464L					
				99-7932		
				99-7932		
					99BT-16-IRBV (cutting nose: 99BT-16-CRBV)	
						99BT-M12-IRBV-X (cutting nose: 99BT-M12-CRBV)
						99BT-M14-IRBV-X (cutting nose: 99BT-M14-CRBV)

Benefits

- Quick and easy to install, reducing setting times by 75%
- Strong, vibration-resistant fasteners, allowing you to use fewer parts, resulting in lower weight and cost savings
- High-quality, durable and maintenance-free joints
- Guaranteed return on investment



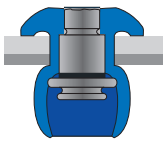
STRUCTURAL RIVETS



1. Magna-Bulb®

- Self-locking structural rivet with 360° fastening
- High tensile and shear strength
- High vibration and loosening resistance
- The specific deformation that occurs during installation and the distribution of the joining forces allow it to be installed in thin pieces
- Flush mandrel break notch
- TIR certification

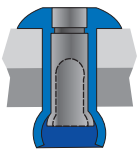
Window fitting, roof and side frame attachment, wheel arch



2. HuckLok™

- Self-locking structural rivet
- Unique dual locking system for optimal joint integrity and fatigue resistance
- Highly resistant to vibration-induced loosening at the joint
- Mandrel breaks at notch level
- Wide clamping area reduces the fasteners range

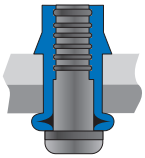
Window fitting, roof and side frame attachment, wheel arch



3. Magna-Lok®

- Structural rivet with internal mandrel locking mechanism
- High tensile and shear strength
- Highly resistant to vibration-induced loosening at the joint
- Wide grip range, for ease of use
- Mandrel breaks at notch level
- TIR certification

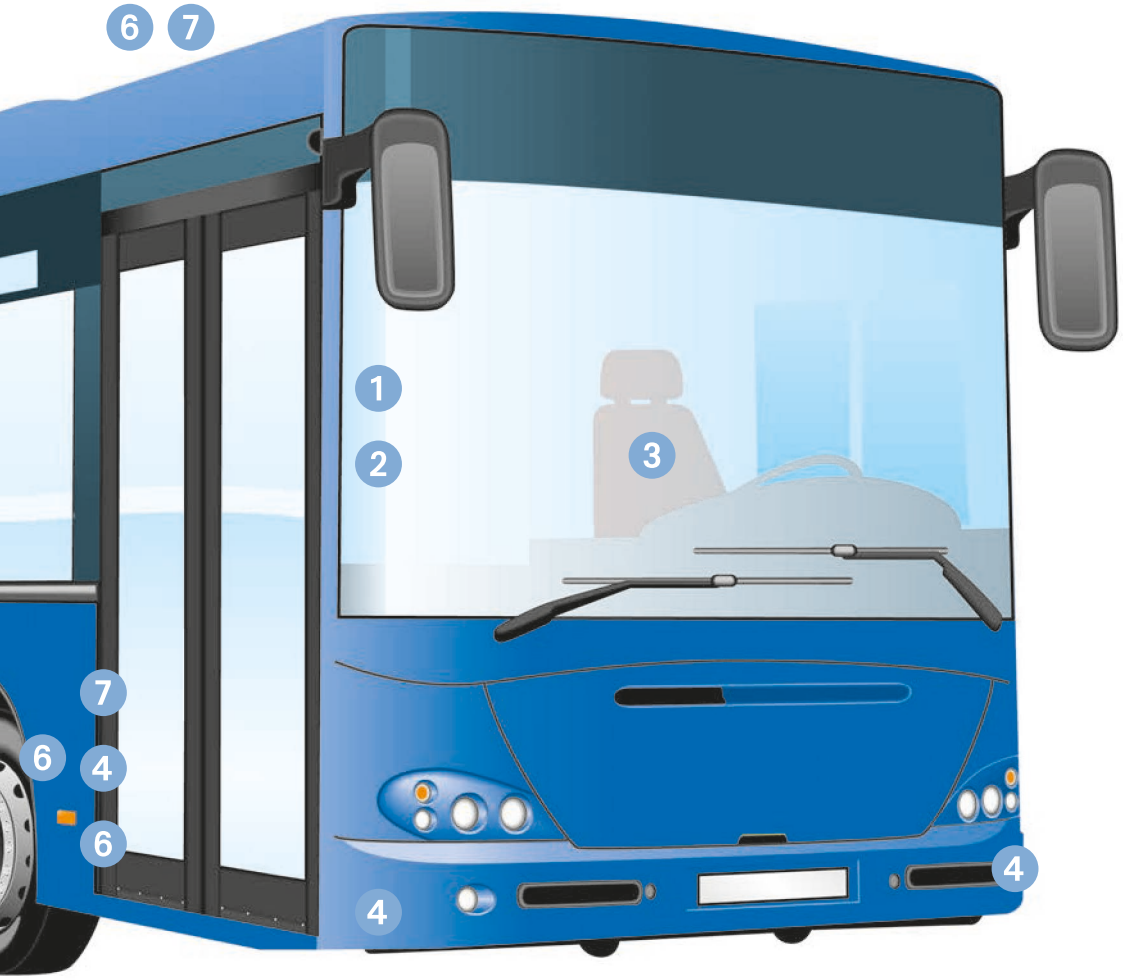
Chair and roof attachment



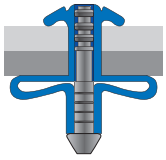
4. BOM®

- High-strength steel structural blind rivet
- Produces joints with a high tightening force

Fixing of pillars, corner sections, bumper mounting



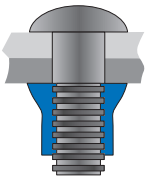
LOCKBOLTS



5. Magna-Tite™

- High-strength liquid-tight structural rivet with special polymer treatment
- Wide grip range, for ease of use
- Very large grip area and low transfer of stresses, especially for fragile materials (plastics, composites) and thin sheet metal
- Flush mandrel break notch
- TIR certification

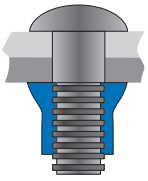
No liquid ingress. Roof attachment



6. Magna-Grip®

- Two-piece rivet, durable and with high tightening force
- Good vibration resistance
- Wide grip range, for ease of use
- Flush mandrel break notch
- TIR certificate

Fixing of pillars, roofs, wheel arches, rear chassis attachment, side frame attachment



7. C6L®

- Two-piece rivet with high tensile strength and vibration resistance
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses than any rival rivet on the market

Roof attachment, fixing of pillars

8. BobTail®

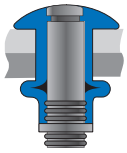
- Lockbolt with a bolt or mandrel made of grade 10.9 steel
- No break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation
- It offers all of the benefits of high-strength rivets combined with the greater grip provided by the collar and rivet head
- Installed with a semi-automatic rivet gun: more accurate and quicker
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase

Chassis, side wall attachment

Benefits:

- Quick and easy to install, reducing setting times by 75%
- Strong, vibration-resistant fasteners, allowing you to use fewer parts, resulting in lower weight and cost savings
- High-quality, durable and maintenance-free joints
- Guaranteed return on investment

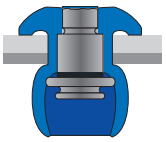
STRUCTURAL RIVETS



1. Magna-Bulb®

- One-piece self-locking structural rivet with 60° fastening
- High tensile and shear strength
- High vibration and loosening resistance
- The specific deformation that occurs during installation and the distribution of the joining forces allow it to be installed in thin parts
- Flush mandrel break notch
- TIR certification

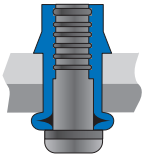
Trailer corner sections, aluminium panels and floors, roof structure arches. Out-of-round repairs



2. HuckLok™

- Single-piece self-locking structural rivet
- Unique dual locking system for optimal joint integrity and fatigue resistance
- Highly resistant to vibration-induced loosening at the joint
- Wide grip range, for ease of use
- Flush mandrel break notch

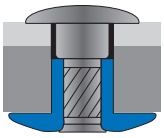
Applications on trailer roofs, corner sections, curtain tracks and exterior structure of refrigerated trailers



3. BOM®

- High-strength steel structural blind rivet
- Creates joints with outstanding properties and a high tightening force

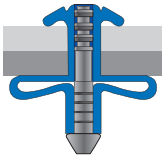
For very demanding trailer applications, corner sections, door lock brackets, mounting brackets



4. FloorTight®

- Rivet with superior strength to conventional floor screws
- Blind setting
- High tensile and shear strength
- High fastening force
- Countersunk head that is completely flush once the rivet is in place

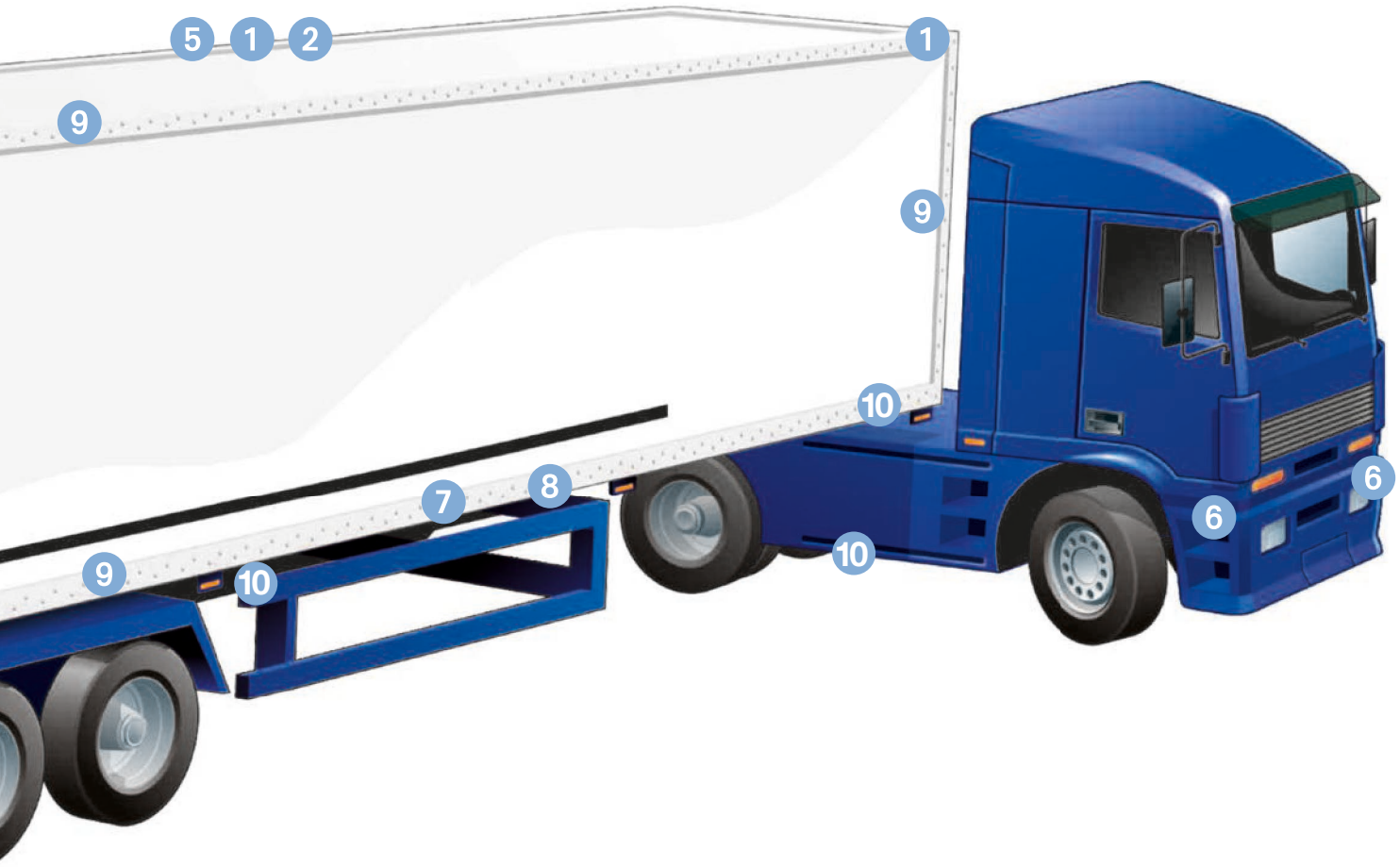
Trailer floors



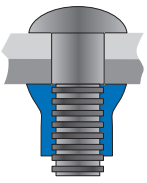
5. Magna-Tite™

- High-strength liquid-tight structural rivet with special polymer treatment
- Wide grip range, for ease of use
- Very large grip area and low transfer of stresses, especially for vibration-resistant strong joints and for fragile materials (plastics, composites) and thin sheet metal
- Flush mandrel break notch
- TIR certification

Trailer roofs and load securing systems



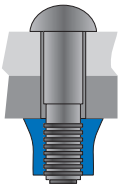
LOCKBOLTS



6. Magna-Grip®

- Two-piece rivet, durable and with high tightening force
- Good vibration resistance
- Wide grip range, for ease of use
- Flush mandrel break notch
- TIR certification

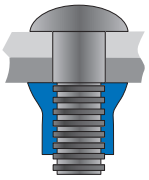
Curtain straps and buckles, frame-chassis attachments in light truck cabs



7. C50L®

- Two-piece rivet for joints subjected to very demanding conditions
- Grade 8.8 strength
- Highly vibration-resistant
- Easy to visually inspect installation quality

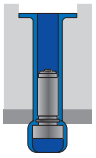
Trailer chassis



8. C6L®

- Two-piece rivet with high tensile strength and vibration resistance
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses than any rival rivet on the market

Truck bumper attachments, radiator fittings



9. Hucktainer® Plus

- Two-piece rivet designed for fixing glass sheets to metal structures
- They do not break or damage GRP composite boards
- Wide grip range
- The low profile provides a high-quality finish The
- whole mandrel head is watertight
- TIR certificate

Trailer chassis

10. BobTail®

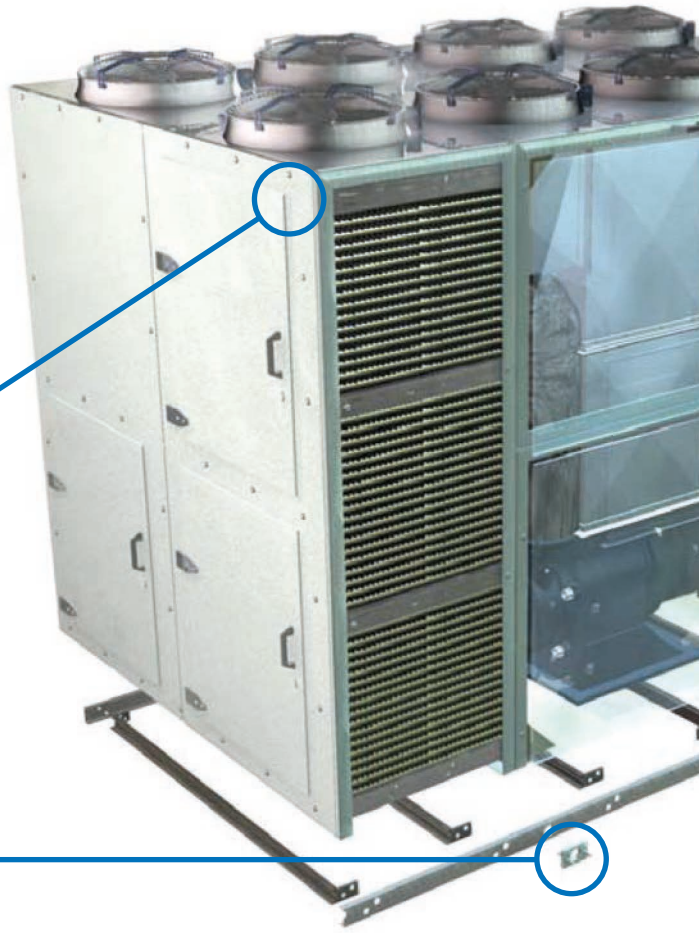
- Lockbolt with a bolt or mandrel made of grade 10.9 steel
- No break notch on the mandrel: increased corrosion resistance, reduced waste, low noise level during installation
- It offers all of the benefits of high-strength rivets combined with the greater grip provided by the collar and rivet head
- Installed with a semi-automatic rivet gun: more accurate and quicker
- Mandrel with a helical groove that holds the collar and mandrel in place during the pre-setting phase

Chassis trailer, side wall attachment

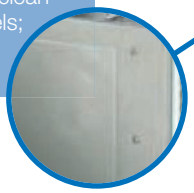
Applications of **HUCK®** fastening systems

Benefits:

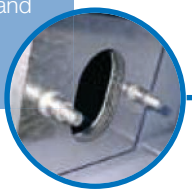
- Quick and easy to install, reducing setting times by 75%
- Strong, vibration-resistant fasteners, allowing you to use fewer parts, resulting in lower weight and cost savings
- High-quality, durable and maintenance-free joints
- Guaranteed return on investment



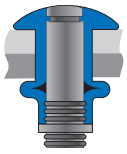
Panels: HUCK® fastening systems enable a very fast, simple and clean installation of pre-painted panels; while also providing durable, watertight joints.



Lifting lugs: HUCK® fastening systems are vibration-resistant, prolong the life of the lifting lugs and provide maintenance-free joints: simply install them once and forget about them.

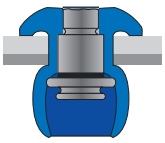


STRUCTURAL RIVETS



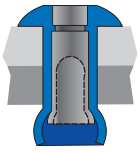
1. Magna-Bulb®

- One-piece self-locking structural rivet with 60° fastening
- High tensile and shear strength
- High vibration and loosening resistance
- The specific deformation that occurs during installation and the distribution of the joining forces allow it to be installed in thin pieces
- Flush mandrel break notch
- TIR certification



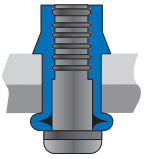
2. HuckLok™

- Self-locking structural rivet
- Unique dual locking system for optimal joint integrity and fatigue resistance
- Highly resistant to vibration-induced loosening at the joint
- Wide grip range, for ease of use
- Flush mandrel break notch



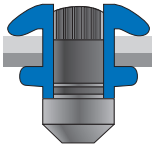
3. Magna-Lok®

- Structural rivet with internal mandrel locking mechanism
- High tensile and shear strength
- Highly resistant to vibration-induced loosening at the joint
- Wide grip range, for ease of use
- Flush mandrel break notch
- TIR certification



4. BOM®

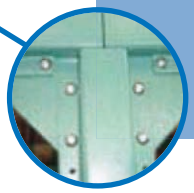
- High-strength steel structural blind rivet
- Produces joints with a high tightening force



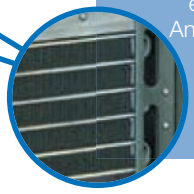
5. Auto-Bulb®

- High-strength structural blind rivet with a body and head that are specially designed to fit easily into the housing of the parts being joined
- Large-diameter head with a wide bulge that spreads the load over a larger surface area

Fan: HUCK® fastening systems provide maintenance-free joints that are highly resistant to fatigue and vibrations. Simply install them and forget all about them!

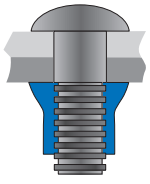


Structure: The tightening capacity of HUCK® fastening systems is powerful and consistent, improving joint integrity and avoiding the need to increase the tightening torque. Easy installation for fast modular production.



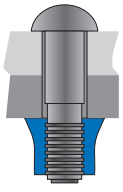
Radiator: Joints made with HUCK® fastening systems are vibration-resistant and maintenance-free, even at extreme temperatures. And because they are so strong, fewer rivets can be used. Once they are installed, you can forget about them without any problems!

LOCKBOLTS



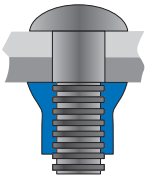
6. Magna-Grip®

- Two-piece rivet, durable and with high tightening force
- Good vibration resistance
- Wide grip range, for ease of use
- Flush mandrel break notch



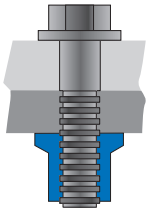
7. C50L®

- Two-piece rivet for joints subjected to very demanding conditions
- Grade 8.8 strength
- Highly vibration-resistant
- Easy to visually inspect installation quality



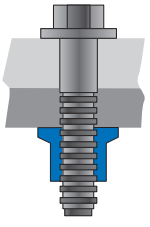
8. C6L/120L®

- Two-piece rivet with high tensile strength and vibration resistance
- It has 6 grooves in the joint area that can accommodate a wider range of fastening thicknesses than any rival rivet on the marketrade 10.9 strength



9. Huck-Fit®

- Two-piece rivet for joints subjected to very demanding conditions, with a single groove to prolong the life of the joint
- Easy to install, with pre-alignment
- Highly resistant to vibration-induced loosening at the joint
- Can be removed with an adjustable spanner
- Grade 10.9 strength



10. Huck-Spin®

- Two-piece rivet with no break notch on the mandrel, with a single groove to prolong the life of the joint
- The process control tools ensure accurate and consistent placement
- Highly resistant to vibration-induced loosening at the joint
- Can be removed with an adjustable spanner
- Grade 10.9 strength

HUCK® - Reference number index

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