RIVQUICK®

Structural blind fasteners, LockBolts, Powerigs and installation tooling for **HUCK®** products

HUCK®

BÖLLHOFF

HUCK® structural blind fasteners and LockBolts are specially designed and manufactured for applications where strength and security is key. Huck fasteners are designed to provide a permanent, vibration resistant joint and guarantee excellent performance.

These fasteners elements have a high resistance to tensile and shear strengths as well as vibrations. They are a good alternative to welding and are generally more efficient than a conventional system "nut and bolt". HUCK® structural blind fasteners and LockBolts offer advantages that no other system can give.

Böllhoff offer a wide range of installation tools, specifically designed for installing HUCK® structural blind fasteners and LockBolts. Huck installation tooling provide a quick and secure installation. A simple visual inspection is sufficient to ensure the installation is complete.

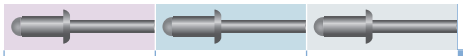
Currently the structural blind rivets and LockBolts are used in various industries and applications such as the construction, bus, trucks and trailers, ventilation and air conditioning systems, rail, automotive and green energy

Useful information

- The company reserves the right to make changes without notice, to the products included in this catalogue, in order to improve the quality.
- For stock availability, please contact us.
- The information contained in this catalogue is provided for information only. They do not represent any guarantee expressed, implied or legal ; all guarantees are contained exclusively in written quote, vouchers and/or purchase orders. It is recommended that the user obtains the updated data and specific information concerning each application.

Contents

Selection guide

	Material			Head			
							
	Steel	Stainless Steel	Aluminium	Protruding	Countersunk	Protruded	
Magna-Lok® structural blind rivets	•	•	•	•	•	•	8
Auto-Bulb® structural blind rivets	•	•				•	17
Magna-Tite® structural blind rivets			•			Flat profile	18
Magna-Bulb® structural blind rivets	•					•	21
HuckLok™ structural blind rivets	•					•	23
BOM® structural blind rivets	•						Standard 24

- Wide clamping range : adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- No bulge after the installation

- High tensile and shear strength
- Purpose design blind side shape for easy hole location: Ideal for automated assembly
- Large blind side footprint: Ideal for lower strength or thin sheet joint materials
- Visual inspection is fast and simple.

- Watertight seal, ideal for roofing or similar applications
- Wide clamping range
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Visual inspection is fast and simple.

- Internal pin locking mechanism: secure within the rivet body and protected from corrosion
- Very high shear and high tensile strength
- Extra large blind side footprint: ideal for lower strength or thin sheet joint materials
- High resistance to vibrations
- Visual inspection is fast and simple.

- Combines the wide clamping range of the Magna-Lok® and the high shear strength and high tensile strength of the Magna-Bulb®
- Large blind side footprint: Ideal for lower strength or thin sheet joint materials
- High shear and tensile strength and to vibrations
- Wide grip range
- Visual inspection is fast and simple.

- Very high strength/diameter ratio: can be used in demanding structural applications as an alternative to threaded fasteners or welding
- Very resistant to tampering, extremely hard to remove
- Large blind side footprint: ideal for lower strength or thin sheet joint materials
- Very high joint tightness when compared to conventional blind fasteners

	Material			Head				
	Steel	Stainless Steel	Aluminium	Protruding	Countersunk	Protruded		
FloorTight® structural blind rivets	●						Noyée	26
Magna-Grip® LockBolt	●		●		●	●	Rivet	28
C6L® LockBolt	●	●	●		●	●	Brazier head	38
C120L® LockBolt	●				●	●	Brazier head	82
C50L® LockBolt	●	●	●		●	●	Brazier head	94
Hucktainer® LockBolt	●			Standard low profile	Medium bearing colour encapsulated	Wide bearing colour encapsulated		105
BobTail® LockBolt	●					Brazier head	Flanged head	110

- They offer a superior strength to conventional flooring screws: Reduces the number of fasteners required and number of drilled holes
- Superior resistance rivet
- Breaking of the riveting stem inside the rivet: fasteners are totally flush
- Wide clamping range

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials

- 8.8 grade small diameter LockBolt (improved version of C6L)
- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: nnables installation into non metallic materials

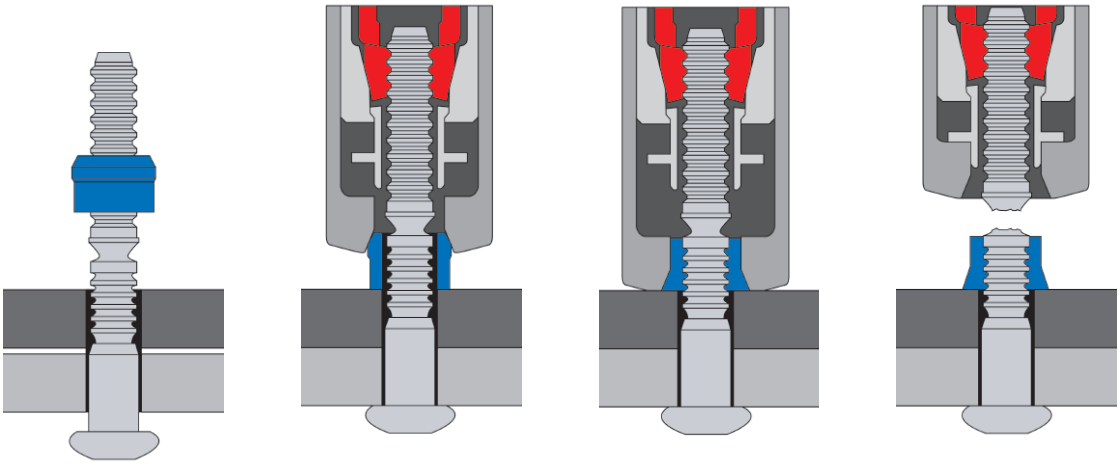
- Fasteners elements for difficult conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Visual inspection is fast and simple.

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation

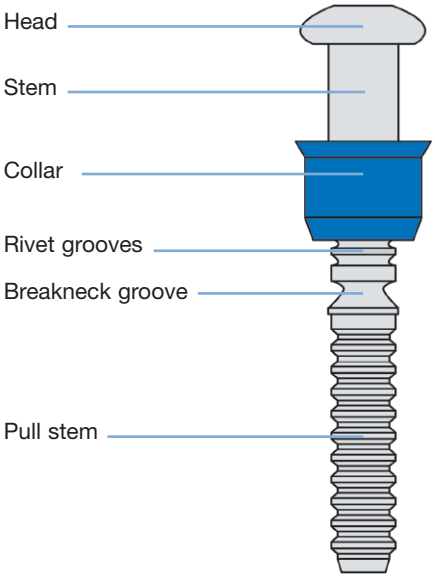
Lockbolt installation sequence

1 The stem is placed into the prepared hole. Then the collar is placed over the stem
2 The tool is placed over the riveting stem and activated. The initial clamp is generated by the stem head pulled against the material and the collar pushed by the anvil against the joint.
3 The clamp increases, the tool swages the collar.
4 The stem breaks at the predetermined breaking point, the installation is completed



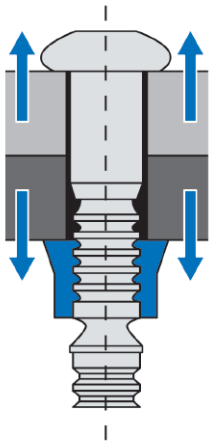
Shear strength of HUCK® LockBolts vary according to the material strength and minimal diameter of the fastener. By increasing the diameter or the grade of material, the shear strength of the fastener can be increased.

The tensile strength of HUCK® LockBolts is dependent on the shear resistance of the collar material and the number of grooves it fills.



Tensile

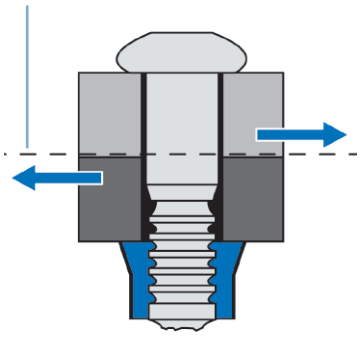
Centre Line



Stem-less
LockBolt after installation

Shear

Shear Line

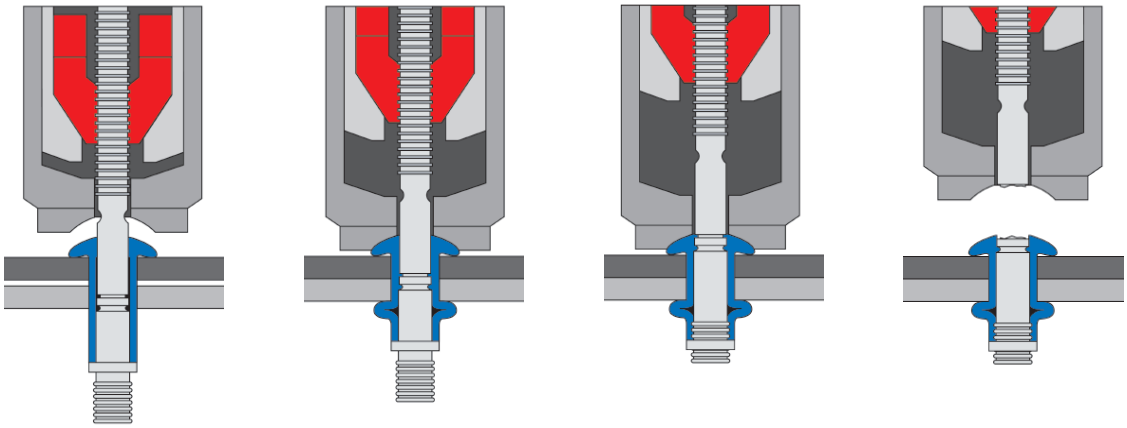


LockBolt after installation

Operation of **HUCK®** structural blind rivets

Blind Fastener installation sequence

1 First, the structural blind rivet is inserted into the drill hole and the tool is placed over the pull stem of the rivet
2 The tool is activated, the deforming of blind rivet side begins
3 Joint tightened and the internal locking mechanism formed
4 The stem breaks at the predetermined breaking point and installation is complete.

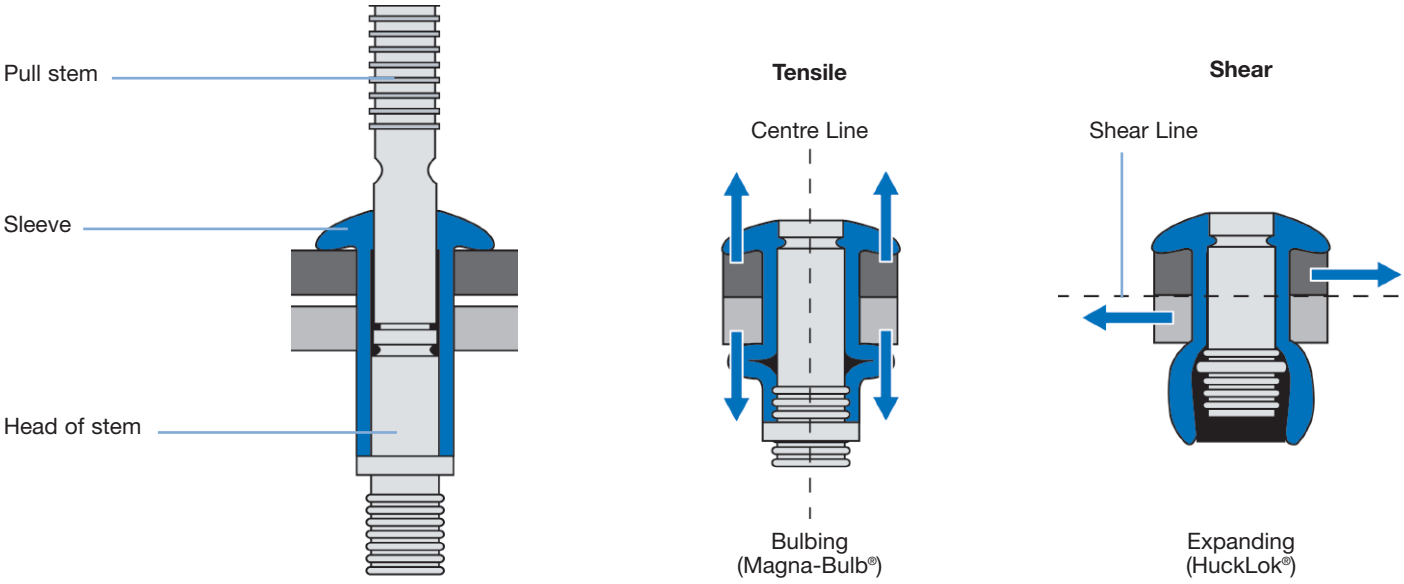


The shear strength of structural blind fasteners is generated by the combined resistance against failure of the stem and sleeve. This takes place along the joint's shear line between fastened plates.

The tensile strength of structural blind fasteners differs to that of Lockbolts, as they form a blind side positive lock either by bulbing or expanding of the sleeve. The sleeve, assisted by the permanently secured stem, therefore resists failure along its centre line.

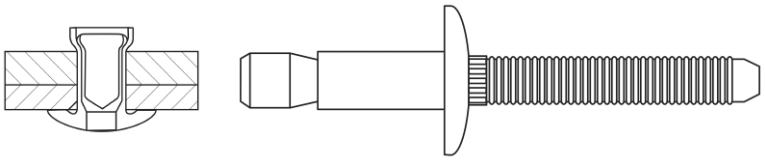
1. Bulbing – the sleeve of the fastener is compressed, causing it to fold outwards to form a bulb. This forms itself tightly against the joint material. Once the stem is permanently locked into place the stem will break off, completing the installation.

2. Expanding – pulling on the stem causes the head of the stem to draw into the sleeve. This expansion causes a foot print to form against the joint material.



Magna-Lok® - Aluminium

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.

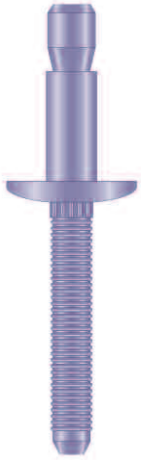


Body : Aluminium | Stem : Aluminium | Head : Protruding

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

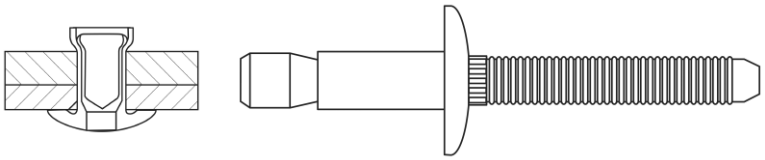
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Lok® - Steel

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruding

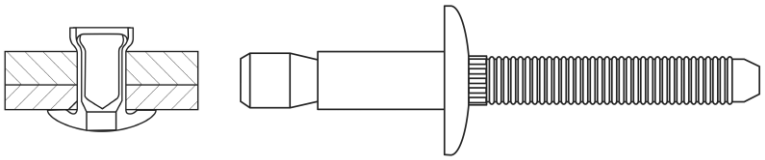
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
4,8 4,76	18,29	9,78	2,16	4,85 - 5,11	1,57 - 6,86	4,4	5,8	0,7	MGLP-R6-4
	22,35				5,44 - 11,10				MGLP-R6-7
	30,33				14,27 - 19,02				MGLP-R6-12
	25,91				1,57 - 11,10				MGLP-R6-E
6,4 6,35	24,64	13,44	3,02	6,63 - 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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Lok® - Stainless steel

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.



Body : Stainless steel | Stem : Stainless steel | Head : Protruding

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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	20,14	4,47	9,96 - 10,36	3,05 - 15,88	8,5	13,1	1,1	MGLP-4U12-12
	56,26				15,88 - 28,58				MGLP-U12-18

Magna-Lok® - Stainless steel A4

Body : Stainless steel A4 | Stem : Stainless steel A4 | Head : Protruding

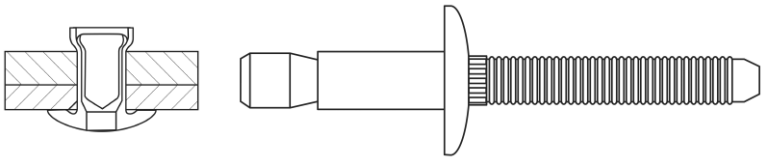
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
6,4 6,35	23,37	13,44	3,02	6,62 - 6,90	2,03 - 9,53	8,0	10,5	0,88	MGLP-316U8-6

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Lok® - Aluminium

- Wide clamping range : adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.

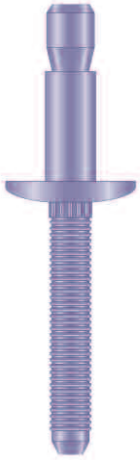


Body : Aluminium | Stem : Aluminium | Head : Protruded

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

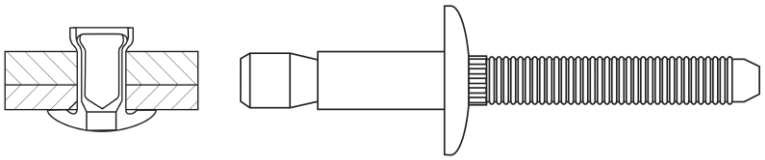
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Lok® - Steel

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruded

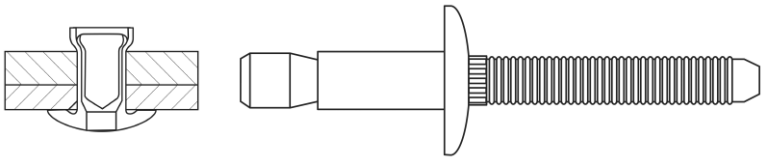
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
4,8 4,76	18,03	13,49	2,34	4,85 - 5,11	1,57 - 6,86	4,4	5,8	0,7	MGLT-R6-4
	21,97				5,44 - 11,10				MGLT-R6-7
	25,78				1,57 - 11,10				MGLT-R6-E
6,4 6,35	24,64	15,04	3,02	6,63 - 6,91	2,03 - 9,53	8,2	11,1	1,3	MGLT-R8-6
	30,99				8,89 - 15,88				MGLT-R8-10
	35,69				2,03 - 15,88				MGLT-R8-E

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Lok® - Stainless Steel

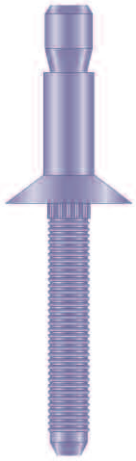
- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.



Body : Stainless steel | Stem : Stainless steel | Head : Protruded

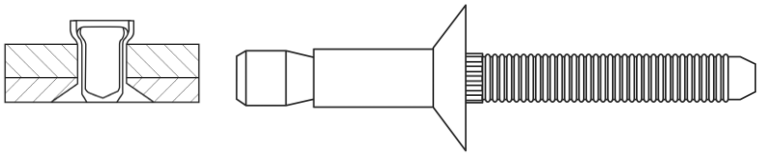
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
6,4 6,35	24,64	15,04	3,02	6,63 - 6,91	2,03 - 9,53	8,0	10,5	0,9	MGLT-U8-6
	30,99				8,89 - 15,88				MGLT-U8-10
	35,69				2,03 - 15,88				MGLT-U8-E

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Lok® - Steel

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Countersunk

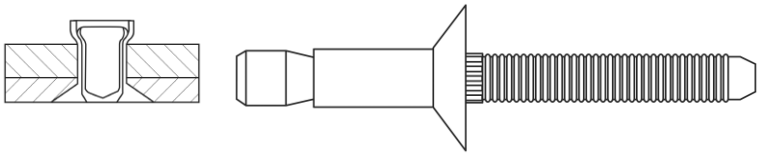
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
4,8	20,19	8,89	1,93	4,85 - 5,11	3,18 - 8,41	4,4	5,8	0,7	MGL100-R6-6
4,76	24,43				7,75 - 12,70				MGL100-R6-9
6,4	26,90	10,41	2,16	6,63 - 6,91	4,06 - 12,07	8,2	11,1	1,3	MGL100-R8-8
6,35	33,25				10,54 - 18,42				MGL100-R8-12
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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Lok® - Aluminium

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.

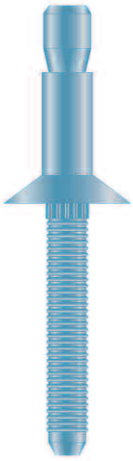


Body : Aluminium | Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

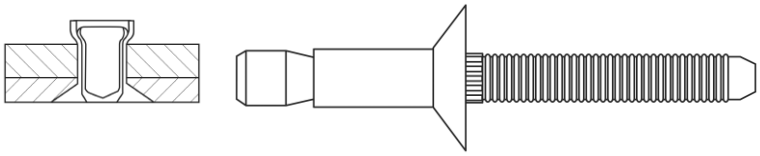
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Lok® - Inox

- Wide clamping range: adaptation to a wide variation of the clamping range
- Outstanding hole filling on the blind side: Excellent joint tightness and very resistant to water ingress
- Internal pin locking mechanism: Secure within the rivet body and protected from corrosion
- High shear and tensile strength
- No bulge after the installation Visual inspection is fast and simple.

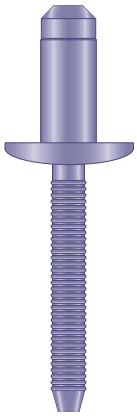


Body : Stainless Steel | Stem : Stainless Steel | Head : Countersunk

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

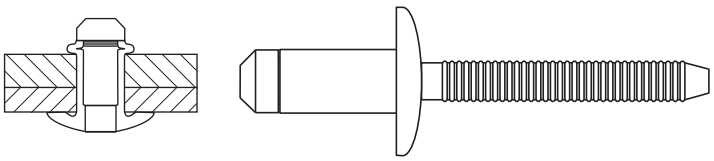
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



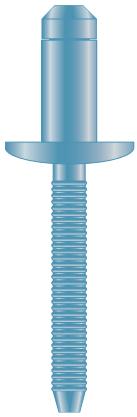
Auto-Bulb™ - Steel

- High tensile and shear strength
- Purpose design blind side shape for easy hole location: Ideal for automated assembly
- Large blind side footprint: Ideal for lower strength or thin sheet joint materials
- Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruded

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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 | Stem : Stainless steel | Head : Protruded

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Tite™ - Aluminium

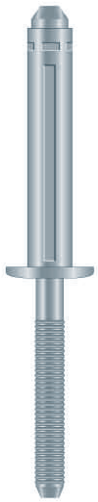
- Watertight seal, ideal for roofing or similar applications
- Wide clamping range
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Visual inspection is fast and simple.

Body : Aluminium | Stem : Aluminium

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Tite™ - Aluminium

- Watertight seal, ideal for roofing or similar applications
- Wide clamping range
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Visual inspection is fast and simple.

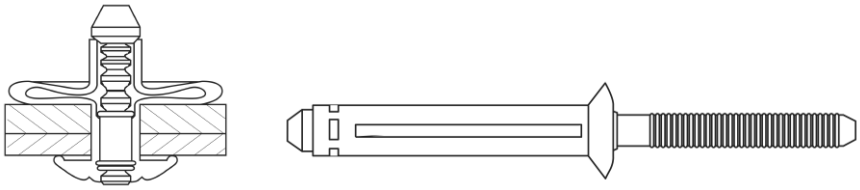
Body : Aluminium | Stem : Aluminium | Head : Low Profile head

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Tite™ - Aluminium

- Watertight seal, ideal for roofing or similar applications
- Wide clamping range
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Visual inspection is fast and simple.



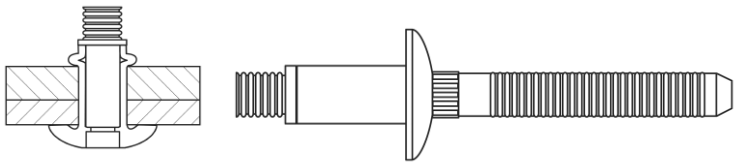
Body : Aluminium | Stem : Aluminium

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Bulb™ - Steel

- Internal pin locking mechanism: secure within the rivet body and protected from corrosion
- Very high shear and high tensile strength
- Extra large blind side footprint: ideal for lower strength or thin sheet joint materials
- High resistance to vibrations
- Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruded

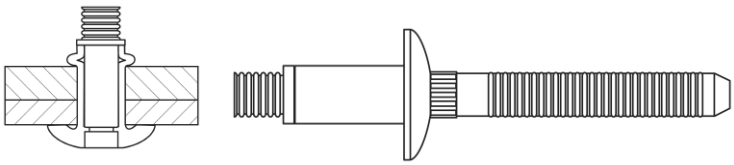
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
	15,0				2,2 - 2,8				MBP-R6-M2
	17,1				2,2 - 3,8				MBP-R6-M3
	17,7				3,2 - 4,8				MBP-R6-M4
	18,6				4,2 - 5,8				MBP-R6-M5
	19,7				5,2 - 6,8				MBP-R6-M6
	20,7				6,2 - 7,8				MBP-R6-M7
4,8	21,7	9,9	2,6	4,9 - 5,1	7,2 - 8,8	4,7	8,7	0,7	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
	19,3				1,5 - 3,5		11,6		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
6,4	26,9	13,4	3,2	6,6 - 6,9	8,8 - 10,8	8,5		1,3	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
	28,1				3,8 - 6,4				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
7,9	33,2	16,8	3,9	8,3 - 8,6	8,9 - 11,4	13,2	22,2	2,1	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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Bulb™ - Steel

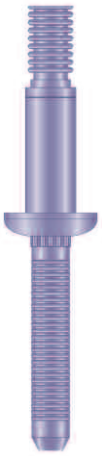
- Internal pin locking mechanism: secure within the rivet body and protected from corrosion
- Very high shear and high tensile strength
- Extra large blind side footprint: ideal for lower strength or thin sheet joint materials
- High resistance to vibrations
- Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruded

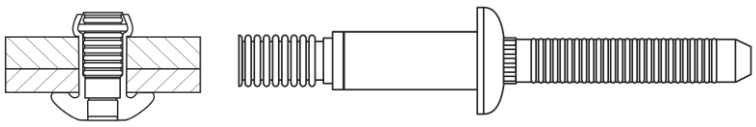
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
	9,4				1,9 - 2,8				MBCP-R6-M2
	11,4				2,2 - 3,8				MBCP-R6-M3
	12,0				3,2 - 4,8				MBCP-R6-M4
	13,0				4,2 - 5,8				MBCP-R6-M5
4,8	14,1	9,9	2,6	4,9 - 5,1	5,2 - 6,8	4,7	8,7	0,7	MBCP-R6-M6
	15,0				6,2 - 7,8				MBCP-R6-M7
	16,1				7,2 - 8,8				MBCP-R6-M8
	17,0				8,2 - 9,8				MBCP-R6-M9
	18,0				9,2 - 10,8				MBCP-R6-M10
	13,1				1,5 - 3,5		10,2		MBCP-R8-M2
	15,7				2,8 - 4,8		10,7		MBCP-R8-M3
	17,7				3,8 - 5,8		11,1		MBCP-R8-M4
	17,0				4,8 - 6,8				MBCP-R8-M5
	18,0				5,8 - 7,8				MBCP-R8-M6
	19,0				6,8 - 8,8				MBCP-R8-M7
6,4	20,0	13,4	3,2	6,6 - 6,9	7,8 - 9,8	7,1		1,3	MBCP-R8-M8
	21,0				8,8 - 10,8				MBCP-R8-M9
	23,0				10,8 - 12,8		13,3		MBCP-R8-M11
	25,0				12,8 - 14,8				MBCP-R8-M13
	28,0				15,8 - 17,8				MBCP-R8-M16
	31,0				18,8 - 20,8				MBCP-R8-M19
	37,1				24,8 - 26,8				MBCP-R8-M25
	43,0				30,8 - 32,8				MBCP-R8-M31

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



HuckLok™ - Steel

- Combines the wide clamping range of the Magna-Lok® and the high shear strength and high tensile strength of the Magna-Bulb®
- Large blind side footprint: Ideal for lower strength or thin sheet joint materials
- High shear and tensile strength and to vibrations
- Wide grip range
- Visual inspection is fast and simple.



Body : Steel | Stem : Steel | Head : Protruded

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

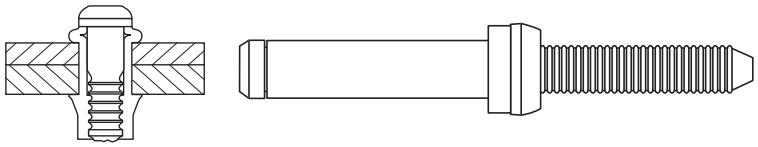
*For best results, it is recommended for thicknesses less than 2.5 mm to use the minimum hole size

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

BOM® - Steel

- Very high strength/diameter ratio: can be used in demanding structural applications as an alternative to threaded fasteners or welding
- Very resistant to tampering, extremely hard to remove
- Large blind side footprint: ideal for lower strength or thin sheet joint materials
- Very high joint tightness when compared to conventional blind fasteners



Body : Steel | Stem : Steel

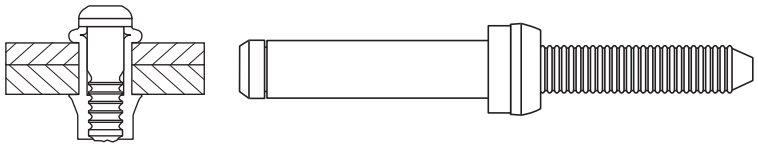
d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	
4,8 4,8 - 5,2	12,7	7,2	4,2	5,3 - 5,6	2,4 - 4,0	8,0	12,5	BOM-R6-2
	14,3				4,0 - 5,6			BOM-R6-3
	15,9				5,6 - 7,1			BOM-R6-4
	17,5				7,2 - 8,7			BOM-R6-5
	19,1				8,8 - 10,3			BOM-R6-6
	20,6				10,3 - 11,9			BOM-R6-7
	22,2				11,9 - 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 articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

BOM® - Steel

- Very high strength/diameter ratio: can be used in demanding structural applications as an alternative to threaded fasteners or welding
- Very resistant to tampering, extremely hard to remove
- Large blind side footprint: ideal for lower strength or thin sheet joint materials
- Very high joint tightness when compared to conventional blind fasteners



Body : Steel | Stem : Steel

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	
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

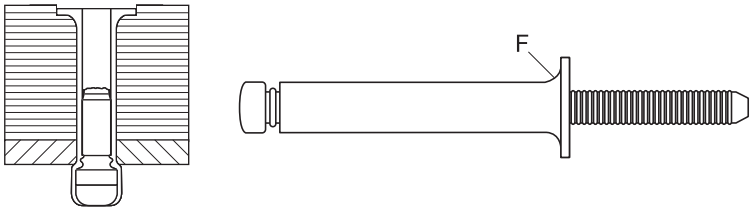
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

FloorTight® - Steel

The flooring specialist fastener

- They offer a superior strength to conventional flooring screws: reduces the number of fasteners required and number of drilled holes
- High strength of structural rivets
- Breaking of the riveting stem inside the rivet : fasteners are totally flush
- Wide clamping range



Body : Steel | Stem : Steel | Installation into plywood

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
8,3 8,26	53,98	*	*	*	19,05 - 34,93	13,3	19,1	*	PMF-R10-20
	63,50				19,05 - 41,28				PMF-R10-26

* For more information, please contact us - For values of the category F, consult us.

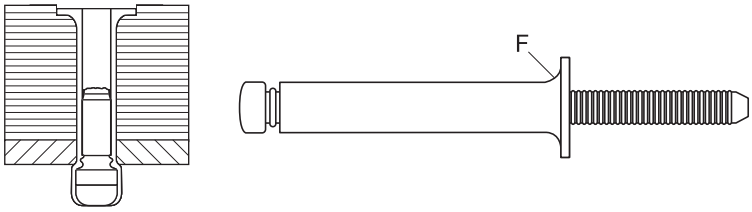
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

FloorTight® - Steel

The flooring specialist fastener

- They offer a superior strength to conventional flooring screws: reduces the number of fasteners required and number of drilled holes
- High strength of structural rivets
- Breaking of the riveting stem inside the rivet : fasteners are totally flush
- Wide clamping range



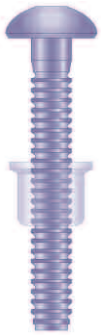
Body : Steel | Stem : Steel | Installation into plywood

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Stem holding kN min	
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

* For more information, please contact us - For values of the category F, consult us.

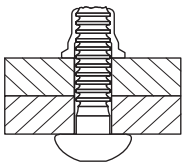
The articles codes in blue correspond to the core range (most commonly used references)

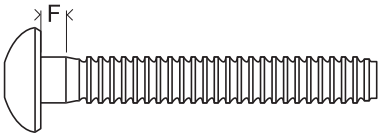
d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Grip® - Steel

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





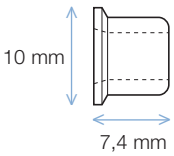
Stem : Steel | Head : Button

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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			

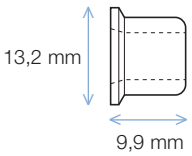
For values of the category F, consult us.

Standard

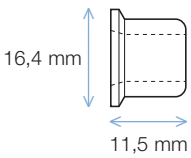
MGC-R6U



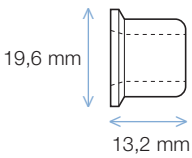
MGC-R8U



MGC-R10U

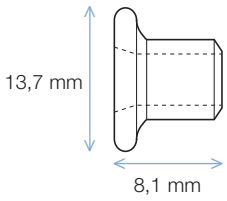


MGC-R12U

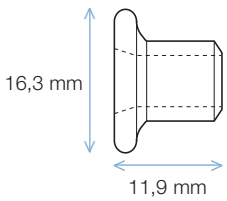


Medium

MGCS-R6U

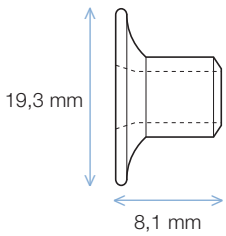


MGCS-R8U

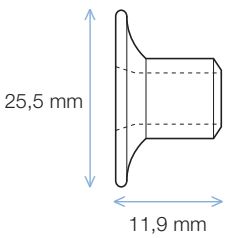


Wide

MGCW-R6U



MGCW-R8U

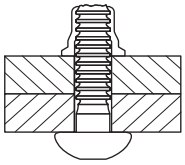


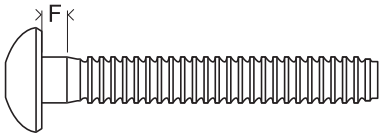
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Aluminium

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





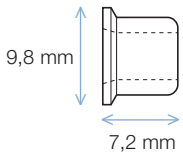
Stem : Aluminium | Head : Button

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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			

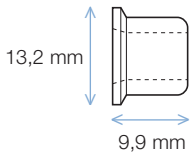
For values of the category F, consult us.

Standard

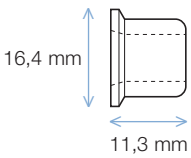
MGC-F6



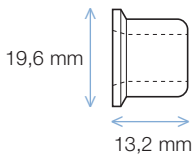
MGC-F8



MGC-F10

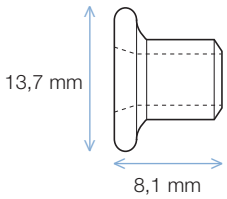


MGC-F12

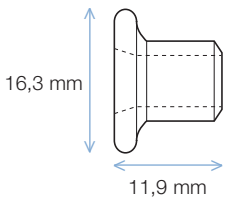


Medium

MGCS-F6

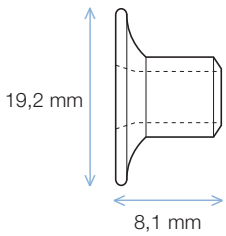


MGCS-F8

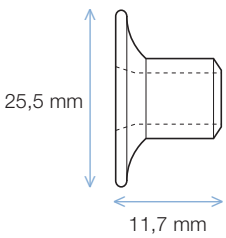


Wide

MGCW-F6



MGCW-F8

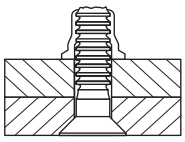


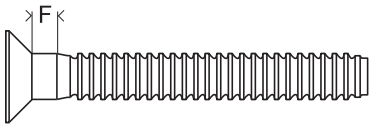
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Steel

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





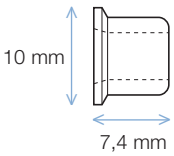
Stem : Steel | Head : Countersunk

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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			

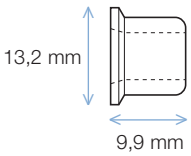
For values of the category F, consult us.

Standard

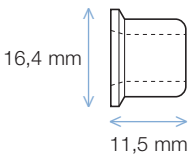
MGC-R6U



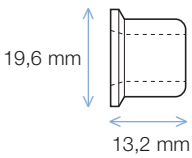
MGC-R8U



MGC-R10U

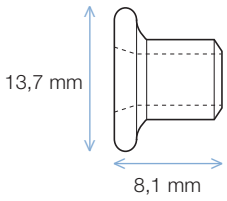


MGC-R12U

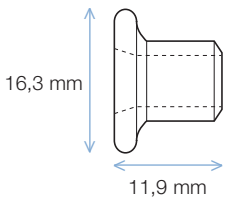


Medium

MGCS-R6U

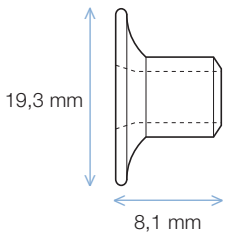


MGCS-R8U

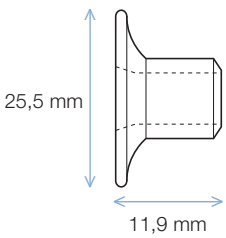


Wide

MGCW-R6U



MGCW-R8U

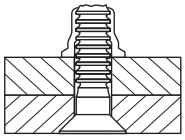


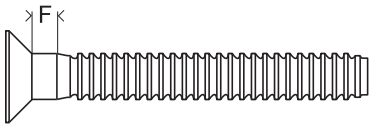
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Aluminium

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





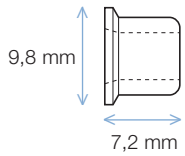
Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Réf. des bagues		
										Standard	Medium	Wide
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			

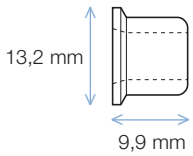
For values of the category F, consult us.

Standard

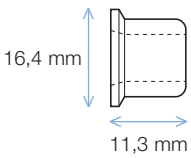
MGC-F6



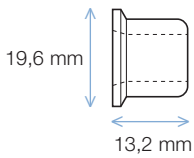
MGC-F8



MGC-F10

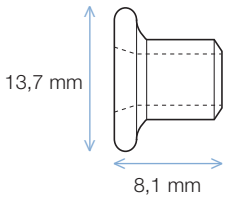


MGC-F12

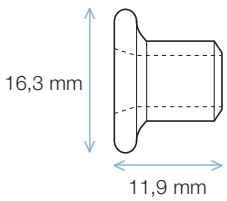


Medium

MGCS-F6

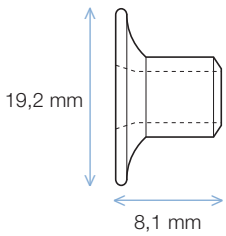


MGCS-F8

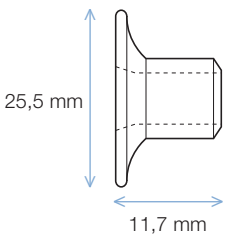


Wide

MGCW-F6

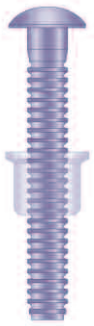


MGCW-F8



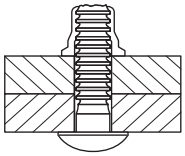
The articles codes in blue correspond to the core range (most commonly used references)

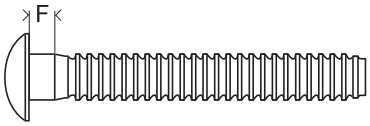
d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Grip® - Steel

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





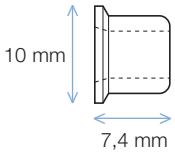
Stem : Steel | Head : Rivet

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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

For values of the category F, consult us.

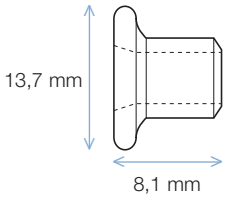
Standard

MGC-R6U



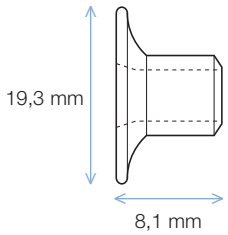
Medium

MGCS-R6U



Wide

MGCW-R6U

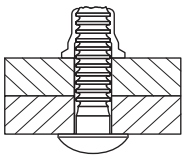


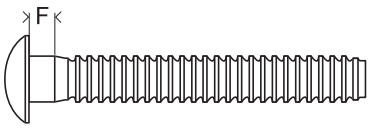
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Aluminium

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





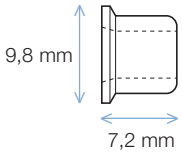
Stem : Aluminium | Head : Rivet

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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	4,0	3,3	2,4	MGP98T-E6-10 MGP98T-E6-20	MGC-F6	MGCS-F6	MGCW-F6

For values of the category F, consult us.

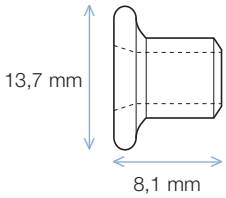
Standard

MGC-F6



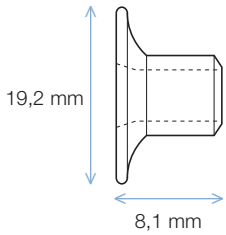
Medium

MGCS-F6



Wide

MGCW-F6

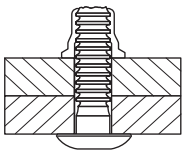


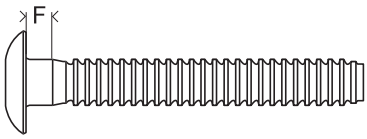
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Steel

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





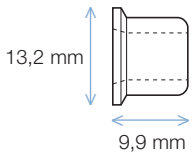
Stem : Steel | Head : Truss

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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			

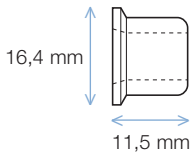
For values of the category F, consult us.

Standard

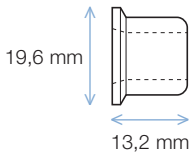
MGC-R8U



MGC-R10U

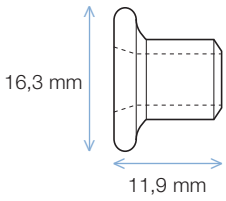


MGC-R12U



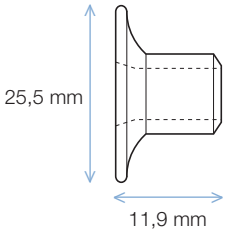
Medium

MGCS-R8U



Wide

MGCW-R8U

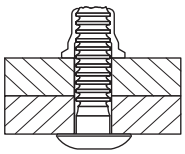


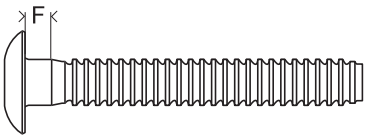
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Aluminium

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





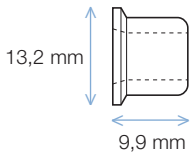
Stem : Aluminium | Head : Truss

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
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			

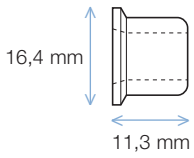
For values of the category F, consult us.

Standard

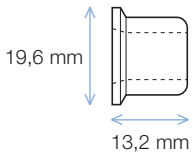
MGC-F8



MGC-F10

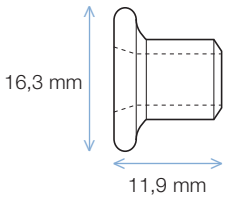


MGC-F12



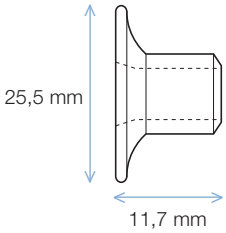
Medium

MGCS-F8



Wide

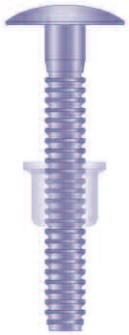
MGCW-F8



The articles codes in blue correspond to the core range (most commonly used references)

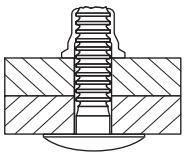
d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness

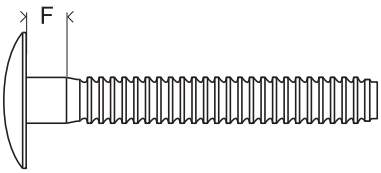
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



Magna-Grip® - Steel

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





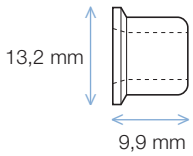
Stem : Steel | Head : Broad Truss

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										Standard	Medium	Wide
6,4 6,22 - 6,32	50,8	24,9	4,1	6,6 - 6,7	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			

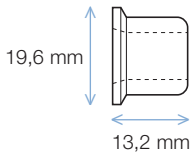
For values of the category F, consult us.

Standard

MGC-R8U

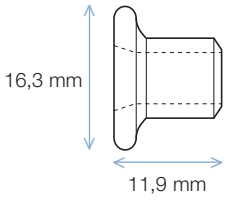


MGC-R12U



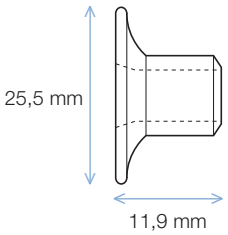
Medium

MGCS-R8U



Wide

MGCW-R8U

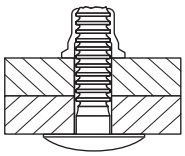


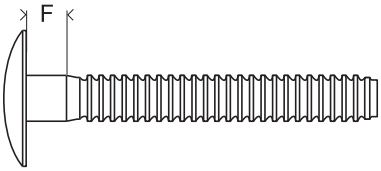
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Magna-Grip® - Aluminium

- Wide clamping range
- They offer a high resistance to vibrations
- One stem and one collar cover a wide variety of applications
- The break of the riveting stem is always flush to the collar





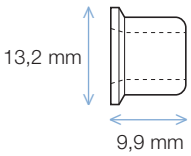
Stem : Aluminium | Head : Broad Truss

d1 (mm)	l (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		References of the collar		
										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			

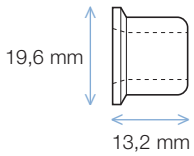
For values of the category F, consult us.

Standard

MGC-F8

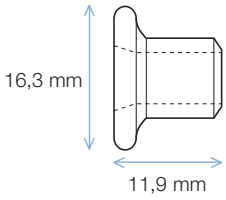


MGC-F12



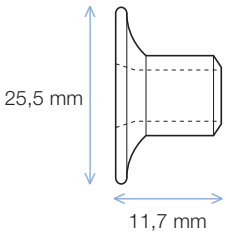
Medium

MGCS-F8



Wide

MGCW-F8

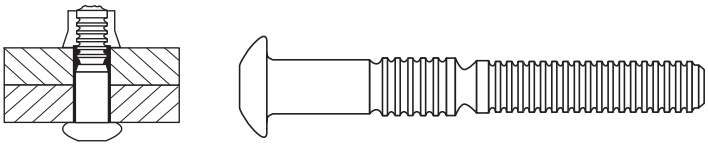


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

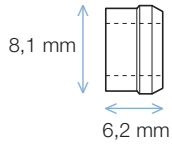


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R6G	min-max (mm) Flanged 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

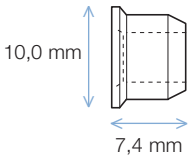
Standard

2LC-R6G



Flanged

3LC-2R6G



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

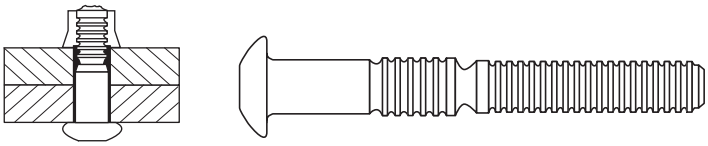
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

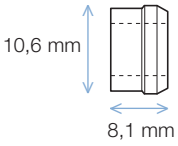


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R8G	min-max (mm) Flanged 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

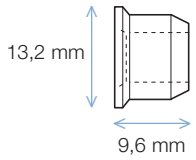
Standard

2LC-R8G



Flanged

3LC-2R8G



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

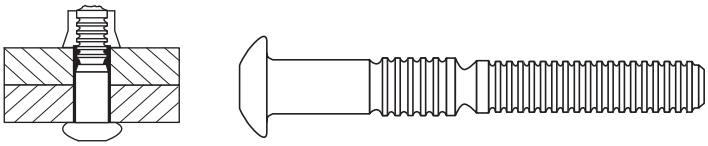
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

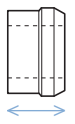


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R10G	min-max (mm) Flanged 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

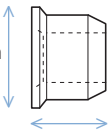
2LC-R10G 12,8 mm



9,5 mm

Flanged

3LC-2R10G 16,4 mm



10,8 mm

The articles codes in blue correspond to the core range (most commonly used references)

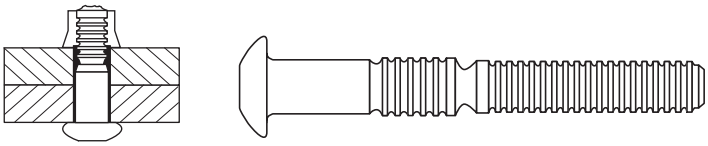
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

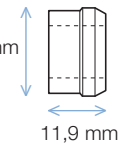


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R12G	min-max (mm) Flanged 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 - 10,3
	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

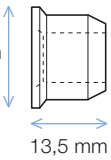
Standard

2LC-R12G 15,4 mm



Flanged

3LC-2R12G 19,7 mm

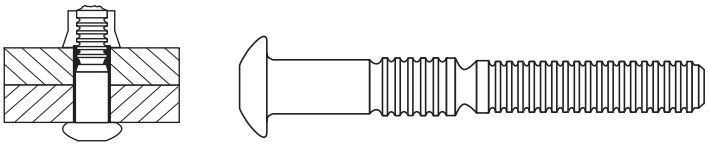


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

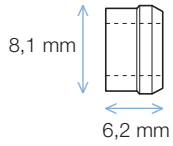


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU6	min-max (mm) Flanged 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

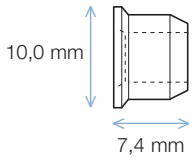
Standard

2LC-2CU6



Flanged

3LC-2CU6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

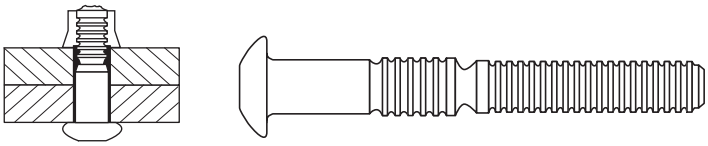
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

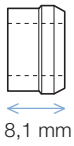


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU8	min-max (mm) Flanged 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

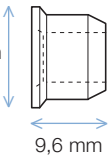
Standard

2LC-2CU8 — 10,6 mm



Flanged

3LC-2CU8 — 13,2 mm



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

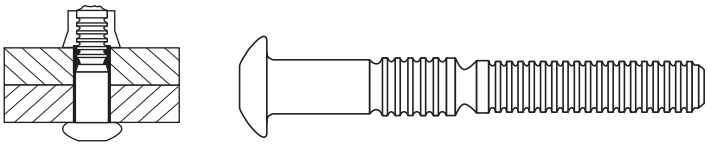
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

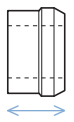


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU10	min-max (mm) Flanged 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

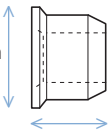
2LC-2CU10 12,8 mm



9,5 mm

Flanged

3LC-2CU10 16,4 mm



10,8 mm

The articles codes in blue correspond to the core range (most commonly used references)

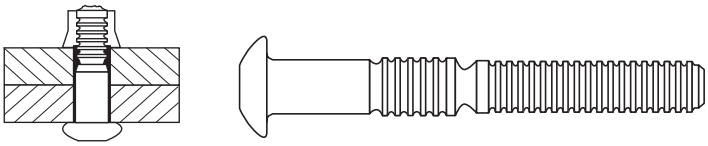
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

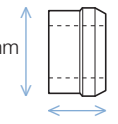


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU12	min-max (mm) Flanged 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

Standard

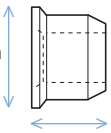
2LC-2CU12 15,4 mm



11,9 mm

Flanged

3LC-2CU12 19,7 mm



13,5 mm

The articles codes in blue correspond to the core range (most commonly used references)

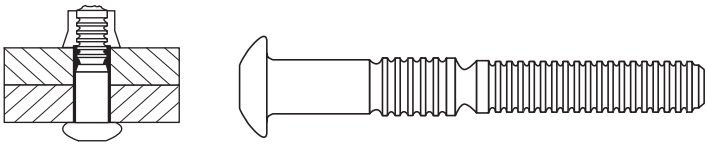
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Aluminium 2024 Ref: C6LB-C6
- References of the corresponding collar: standard collar 2LC-F6, Flanged collar 3LC-F6
- For the values of clamping force and tensile/shear strength in Aluminium 2024, please consult-us

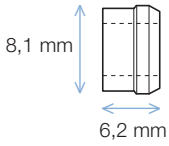


Stem : Aluminium 6061 | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I6	min-max (mm) Flanged 3LC-I6
	39,1	10,6	1,6							C6LB-F6-2	1,6 - 4,8	0,4 - 3,6
	40,7	12,2	3,2							C6LB-F6-3	3,2 - 6,4	2,0 - 5,2
	42,3	13,7	4,8							C6LB-F6-4	4,8 - 7,9	3,6 - 6,8
	43,9	15,3	6,4							C6LB-F6-5	6,4 - 9,5	5,2 - 8,4
	45,4	16,9	7,9							C6LB-F6-6	7,9 - 11,1	6,8 - 9,9
	47,0	18,5	9,5							C6LB-F6-7	9,5 - 12,7	8,4 - 11,5
	48,6	20,1	11,1							C6LB-F6-8	11,1 - 14,3	9,9 - 13,1
	50,2	21,7	12,7							C6LB-F6-9	12,7 - 15,9	11,5 - 14,7
	51,8	23,3	14,3							C6LB-F6-10	14,3 - 17,5	13,1 - 16,3
	53,4	24,9	15,9							C6LB-F6-11	15,9 - 19,1	14,7 - 17,9
	55,0	26,4	17,5							C6LB-F6-12	17,5 - 20,6	16,3 - 19,5
	56,6	28,0	19,1							C6LB-F6-13	19,1 - 22,2	17,9 - 21,1
	58,1	29,6	20,6							C6LB-F6-14	20,6 - 23,8	19,5 - 22,6
	59,7	31,2	22,2							C6LB-F6-15	22,2 - 25,4	21,1 - 24,2
	61,3	32,8	23,8							C6LB-F6-16	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	2,4	3,4	1,6	C6LB-F6-17	25,4 - 28,6	24,2 - 27,4
	64,5	36,0	27,0							C6LB-F6-18	27,0 - 30,2	25,8 - 29,0
	66,1	37,6	28,6							C6LB-F6-19	28,6 - 31,8	27,4 - 30,6
	67,7	39,1	30,2							C6LB-F6-20	30,2 - 33,3	29,0 - 32,2
	69,3	40,7	31,8							C6LB-F6-21	31,8 - 34,9	30,6 - 33,8
	70,8	42,3	33,3							C6LB-F6-22	33,3 - 36,5	32,2 - 35,3
	72,4	43,9	34,9							C6LB-F6-23	34,9 - 38,1	33,8 - 36,9
	74,0	45,5	36,5							C6LB-F6-24	36,5 - 39,7	35,3 - 38,5
	75,6	47,1	38,1							C6LB-F6-25	38,1 - 41,3	36,9 - 40,1
	77,2	48,7	39,7							C6LB-F6-26	39,7 - 42,9	38,5 - 41,7
	78,8	50,3	41,3							C6LB-F6-27	41,3 - 44,5	40,1 - 43,3
	80,4	51,8	42,9							C6LB-F6-28	42,9 - 46,0	41,7 - 44,9
	82,0	53,4	44,5							C6LB-F6-29	44,5 - 47,6	43,3 - 46,5
	83,5	55,0	46,0							C6LB-F6-30	46,0 - 49,2	44,9 - 48,0
	85,1	56,6	47,6							C6LB-F6-31	47,6 - 50,8	46,5 - 49,6
	86,7	58,2	49,2							C6LB-F6-32	49,2 - 52,4	48,0 - 51,2

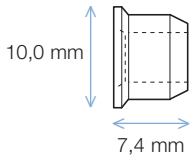
Standard

LC-I6



Flanged

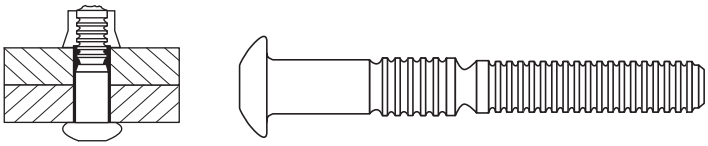
3LC-I6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Aluminium 2024 Ref: C6LB-C8
- References of the corresponding collar: standard collar 2LC-F8, Flanged collar 3LC-F8
- For the values of clamping force and tensile/shear strength in Aluminium 2024, please consult-us

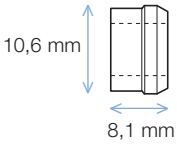


Stem : Aluminium 6061 | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I8	min-max (mm) Flanged 3LC-I8
	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

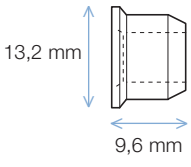
Standard

LC-I8



Flanged

3LC-I8



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

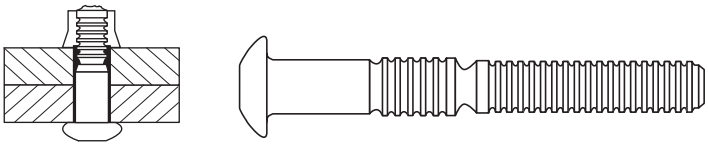
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Aluminium 2024 Ref: C6LB-C10
- References of the corresponding collar: standard collar 2LC-F10, Flanged collar 3LC-F10
- For the values of clamping force and tensile/shear strength in Aluminium 2024, please consult-us

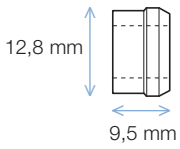


Stem : Aluminium 6061 | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Effort de serrage kN		min-max (mm) Standard LC-I10	min-max (mm) Flanged 3LC-I10
7,9 8,05 - 8,18	51,9	19,7	3,2	16,5	5,1	8,2 - 8,3	6,9	9,5	4,3	C6LB-F10-4	3,2 - 9,5	1,2 - 7,5
	55,1	22,9	6,4							C6LB-F10-6	6,4 - 12,7	4,4 - 10,7
	58,3	26,1	9,5							C6LB-F10-8	9,5 - 15,9	7,5 - 13,9
	61,5	29,2	12,7							C6LB-F10-10	12,7 - 19,1	10,7 - 17,1
	64,6	32,4	15,9							C6LB-F10-12	15,9 - 22,2	13,9 - 20,2
	67,8	35,6	19,1							C6LB-F10-14	19,1 - 25,4	17,1 - 23,4
	71,0	38,8	22,2							C6LB-F10-16	22,2 - 28,6	20,2 - 26,6
	74,2	41,9	25,4							C6LB-F10-18	25,4 - 31,8	23,4 - 29,8
	77,3	45,1	28,6							C6LB-F10-20	28,6 - 34,9	26,6 - 32,9
	80,5	48,3	31,8							C6LB-F10-22	31,8 - 38,1	29,8 - 36,1
	83,7	51,5	34,9							C6LB-F10-24	34,9 - 41,3	32,9 - 39,3
	86,9	54,6	38,1							C6LB-F10-26	38,1 - 44,5	36,1 - 42,5
	90,0	57,8	41,3							C6LB-F10-28	41,3 - 47,6	39,3 - 45,6
	93,2	61,0	44,5							C6LB-F10-30	44,5 - 50,8	42,5 - 48,8
	96,4	64,2	47,6							C6LB-F10-32	47,6 - 54,0	45,6 - 52,0

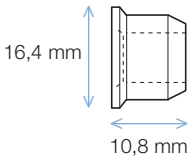
Standard

LC-I10



Flanged

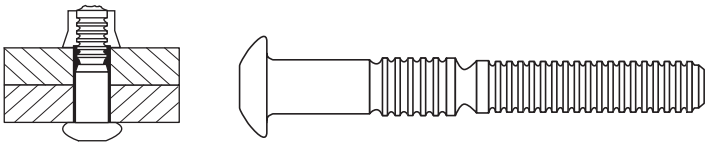
3LC-I10



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Aluminium 2024 Ref: C6LB-C12
- References of the corresponding collar: standard collar 2LC-F12, Flanged collar 3LC-F12
- For the values of clamping force and tensile/shear strength in Aluminium 2024, please consult-us

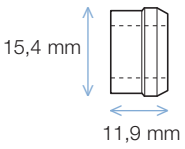


Stem : Aluminium 6061 | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm)	
											Standard LC-I12	Flanged 3LC-I12
9,5 9,65 - 9,78	57,3	21,7	3,2	19,8	6,3	9,9	10,7	13,6	6,1	C6LB-F12-4	3,2 - 9,5	0,8 - 7,1
	60,5	24,8	6,4							C6LB-F12-6	6,4 - 12,7	4,0 - 10,3
	63,7	28,0	9,5							C6LB-F12-8	9,5 - 15,9	7,1 - 13,5
	66,8	31,2	12,7							C6LB-F12-10	12,7 - 19,1	10,3 - 16,7
	70,0	34,4	15,9							C6LB-F12-12	15,9 - 22,2	13,5 - 19,8
	73,2	37,5	19,1							C6LB-F12-14	19,1 - 25,4	16,7 - 23,0
	76,4	40,7	22,2							C6LB-F12-16	22,2 - 28,6	19,8 - 26,2
	79,5	43,9	25,4							C6LB-F12-18	25,4 - 31,8	23,0 - 29,4
	82,7	47,1	28,6							C6LB-F12-20	28,6 - 34,9	26,2 - 32,5
	85,9	50,2	31,8							C6LB-F12-22	31,8 - 38,1	29,4 - 35,7
	89,1	53,4	34,9							C6LB-F12-24	34,9 - 41,3	32,5 - 38,9
	92,2	56,6	38,1							C6LB-F12-26	38,1 - 44,5	35,7 - 42,1
	95,4	59,8	41,3							C6LB-F12-28	41,3 - 47,6	38,9 - 45,2
	98,6	62,9	44,5							C6LB-F12-30	44,5 - 50,8	42,1 - 48,4
	101,8	66,1	47,6							C6LB-F12-32	47,6 - 54,0	45,2 - 51,6

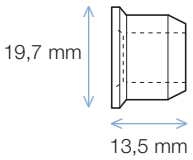
Standard

LC-I12



Flanged

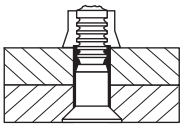
3LC-I12

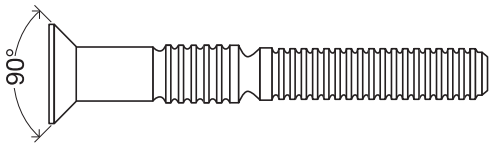


d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® 90R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



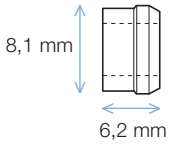


Stem : Steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R6G	min-max (mm) Flanged 3LC-2R6G
	39,9	12,2	3,2							C6L90-R6-3G	3,2 - 6,4	2,0 - 5,2
	41,5	13,7	4,8							C6L90-R6-4G	4,8 - 7,9	3,6 - 6,8
	43,1	15,3	6,4							C6L90-R6-5G	6,4 - 9,5	5,2 - 8,4
	44,7	16,9	7,9							C6L90-R6-6G	7,9 - 11,1	6,8 - 9,9
	46,3	18,5	9,5							C6L90-R6-7G	9,5 - 12,7	8,4 - 11,5
	47,9	20,1	11,1							C6L90-R6-8G	11,1 - 14,3	9,9 - 13,1
	49,5	21,7	12,7							C6L90-R6-9G	12,7 - 15,9	11,5 - 14,7
	51,0	23,3	14,3							C6L90-R6-10G	14,3 - 17,5	13,1 - 16,3
	52,6	24,9	15,9							C6L90-R6-11G	15,9 - 19,1	14,7 - 17,9
	54,2	26,4	17,5							C6L90-R6-12G	17,5 - 20,6	16,3 - 19,5
	55,8	28,0	19,1							C6L90-R6-13G	19,1 - 22,2	17,9 - 21,1
	57,4	29,6	20,6							C6L90-R6-14G	20,6 - 23,8	19,5 - 22,6
	59,0	31,2	22,2							C6L90-R6-15G	22,2 - 25,4	21,1 - 24,2
	60,6	32,8	23,8							C6L90-R6-16G	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,2	34,4	25,4	9,1	2,2	5,0 - 5,2	7,3	7,7	4,6	C6L90-R6-17G	25,4 - 28,6	24,2 - 27,4
	63,7	36,0	27,0							C6L90-R6-18G	27,0 - 30,2	25,8 - 29,0
	65,3	37,6	28,6							C6L90-R6-19G	28,6 - 31,8	27,4 - 30,6
	66,9	39,1	30,2							C6L90-R6-20G	30,2 - 33,3	29,0 - 32,2
	68,5	40,7	31,8							C6L90-R6-21G	31,8 - 34,9	30,6 - 33,8
	70,1	42,3	33,3							C6L90-R6-22G	33,3 - 36,5	32,2 - 35,3
	71,7	43,9	34,9							C6L90-R6-23G	34,9 - 38,1	33,8 - 36,9
	73,3	45,5	36,5							C6L90-R6-24G	36,5 - 39,7	35,3 - 38,5
	74,9	47,1	38,1							C6L90-R6-25G	38,1 - 41,3	36,9 - 40,1
	76,4	48,7	39,7							C6L90-R6-26G	39,7 - 42,9	38,5 - 41,7
	78,0	50,3	41,3							C6L90-R6-27G	41,3 - 44,5	40,1 - 43,3
	79,6	51,8	42,9							C6L90-R6-28G	42,9 - 46,0	41,7 - 44,9
	81,2	53,4	44,5							C6L90-R6-29G	44,5 - 47,6	43,3 - 46,5
	82,8	55,0	46,0							C6L90-R6-30G	46,0 - 49,2	44,9 - 48,0
	84,4	56,6	47,6							C6L90-R6-31G	47,6 - 50,8	46,5 - 49,6
	86,0	58,2	49,2							C6L90-R6-32G	49,2 - 52,4	48,0 - 51,2

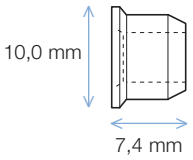
Standard

2LC-R6G



Flanged

3LC-2R6G



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

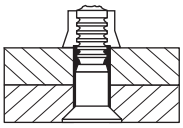
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

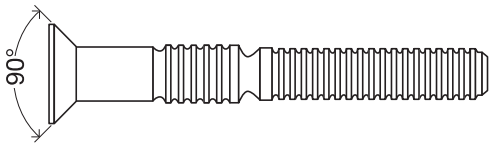
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



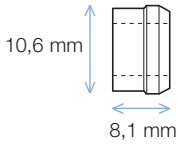


Stem : Steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R8G	min-max (mm) Flanged 3LC-2R8G
	43,1	14,5	3,2							C6L90-R8-3G	3,2 - 6,4	1,6 - 4,8
	44,7	16,1	4,8							C6L90-R8-4G	4,8 - 7,9	3,2 - 6,3
	46,3	17,6	6,4							C6L90-R8-5G	6,4 - 9,5	4,8 - 7,9
	47,9	19,2	7,9							C6L90-R8-6G	7,9 - 11,1	6,3 - 9,5
	49,5	20,8	9,5							C6L90-R8-7G	9,5 - 12,7	7,9 - 11,1
	51,0	22,4	11,1							C6L90-R8-8G	11,1 - 14,3	9,5 - 12,7
	52,6	24,0	12,7							C6L90-R8-9G	12,7 - 15,9	11,1 - 14,3
	54,2	25,6	14,3							C6L90-R8-10G	14,3 - 17,5	12,7 - 15,9
	55,8	27,2	15,9							C6L90-R8-11G	15,9 - 19,1	14,3 - 17,5
	57,4	28,8	17,5							C6L90-R8-12G	17,5 - 20,6	15,9 - 19,0
	59,0	30,3	19,1							C6L90-R8-13G	19,1 - 22,2	17,5 - 20,6
	60,6	31,9	20,6							C6L90-R8-14G	20,6 - 23,8	19,0 - 22,2
	62,2	33,5	22,2							C6L90-R8-15G	22,2 - 25,4	20,6 - 23,8
	63,7	35,1	23,8							C6L90-R8-16G	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,3	36,7	25,4	12,1	2,9	6,6 - 6,8	13,3	13,6	8,0	C6L90-R8-17G	25,4 - 28,6	23,8 - 27,0
	66,9	38,3	27,0							C6L90-R8-18G	27,0 - 30,2	25,4 - 28,6
	68,5	39,9	28,6							C6L90-R8-19G	28,6 - 31,8	27,0 - 30,2
	70,1	41,5	30,2							C6L90-R8-20G	30,2 - 33,3	28,6 - 31,7
	71,7	43,0	31,8							C6L90-R8-21G	31,8 - 34,9	30,2 - 33,3
	73,3	44,6	33,3							C6L90-R8-22G	33,3 - 36,5	31,7 - 34,9
	74,9	46,2	34,9							C6L90-R8-23G	34,9 - 38,1	33,3 - 36,5
	76,4	47,8	36,5							C6L90-R8-24G	36,5 - 39,7	34,9 - 38,1
	78,0	49,4	38,1							C6L90-R8-25G	38,1 - 41,3	36,5 - 39,7
	79,6	51,0	39,7							C6L90-R8-26G	39,7 - 42,9	38,1 - 41,3
	81,2	52,6	41,3							C6L90-R8-27G	41,3 - 44,5	39,7 - 42,9
	82,8	54,2	42,9							C6L90-R8-28G	42,9 - 46,0	41,3 - 44,4
	84,4	55,7	44,5							C6L90-R8-29G	44,5 - 47,6	42,9 - 46,0
	86,0	57,3	46,0							C6L90-R8-30G	46,0 - 49,2	44,4 - 47,6
	87,6	58,9	47,6							C6L90-R8-31G	47,6 - 50,8	46 - 49,2
	89,1	60,5	49,2							C6L90-R8-32G	49,2 - 52,4	47,6 - 50,8

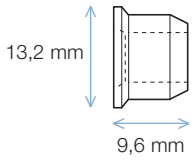
Standard

2LC-R8G



Flanged

3LC-2R8G



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

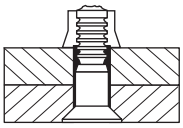
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

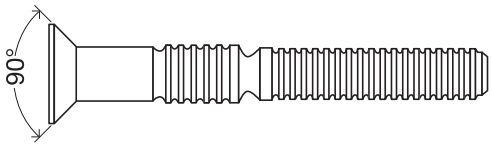
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



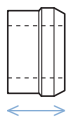


Stem : Steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R10G	min-max (mm) Flanged 3LC-2R10G
7,9 8,05 - 8,18	53,0	20,9	4,3	15,1	3,6	8,2 - 8,3	20,5	21,0	12,5	C6L90-R10-4G	3,2 - 9,5	1,2 - 7,5
	55,0	24,1	6,4							C6L90-R10-6G	6,4 - 12,7	4,4 - 10,7
	58,2	27,2	9,5							C6L90-R10-8G	9,5 - 15,9	7,5 - 13,9
	61,4	30,4	12,7							C6L90-R10-10G	12,7 - 19,1	10,7 - 17,1
	64,6	33,6	15,9							C6L90-R10-12G	15,9 - 22,2	13,9 - 20,2
	67,7	36,8	19,1							C6L90-R10-14G	19,1 - 25,4	17,1 - 23,4
	70,9	39,9	22,2							C6L90-R10-16G	22,2 - 28,6	20,2 - 26,6
	74,1	43,1	25,4							C6L90-R10-18G	25,4 - 31,8	23,4 - 29,8
	77,3	46,3	28,6							C6L90-R10-20G	28,6 - 34,9	26,6 - 32,9
	80,4	49,5	31,8							C6L90-R10-22G	31,8 - 38,1	29,8 - 36,1
	83,6	52,6	34,9							C6L90-R10-24G	34,9 - 41,3	32,9 - 39,3
	86,8	55,8	38,1							C6L90-R10-26G	38,1 - 44,5	36,1 - 42,5
	90,0	59,0	41,3							C6L90-R10-28G	41,3 - 47,6	39,3 - 45,6
	93,1	62,2	44,5							C6L90-R10-30G	44,5 - 50,8	42,5 - 48,8
	96,3	64,2	47,6							C6L90-R10-32G	47,6 - 54,0	45,6 - 52,0

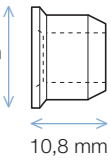
Standard

2LC-R10G 12,8 mm



Flanged

3LC-2R10G 16,4 mm



The articles codes in blue correspond to the core range (most commonly used references)

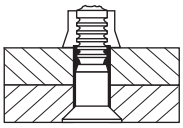
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

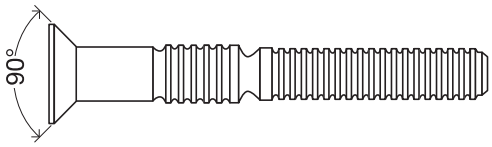
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® 90R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



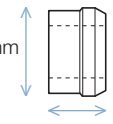


Stem : Steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R12G	min-max (mm) Flanged 3LC-2R12G
9,5 9,65 - 9,78	60,6	24,8	6,4	18,1	4,3	9,9	28,9	30,4	17,9	C6L90-R12-6G	6,4 - 12,7	4,0 - 10,3
	63,8	28,0	9,5							C6L90-R12-8G	9,5 - 15,9	7,1 - 13,5
	66,9	31,2	12,7							C6L90-R12-10G	12,7 - 19,1	10,3 - 16,7
	70,1	34,4	15,9							C6L90-R12-12G	15,9 - 22,2	13,5 - 19,8
	73,3	37,5	19,1							C6L90-R12-14G	19,1 - 25,4	16,7 - 23,0
	76,5	40,7	22,2							C6L90-R12-16G	22,2 - 28,6	19,8 - 26,2
	79,6	43,9	25,4							C6L90-R12-18G	25,4 - 31,8	23,0 - 29,4
	82,8	47,1	28,6							C6L90-R12-20G	28,6 - 34,9	26,2 - 32,5
	86,0	50,2	31,8							C6L90-R12-22G	31,8 - 38,1	29,4 - 35,7
	89,2	53,4	34,9							C6L90-R12-24G	34,9 - 41,3	32,5 - 38,9
	92,3	56,6	38,1							C6L90-R12-26G	38,1 - 44,5	35,7 - 42,1
	95,5	59,8	41,3							C6L90-R12-28G	41,3 - 47,6	38,9 - 45,2
	98,7	62,9	44,5							C6L90-R12-30G	44,5 - 50,8	42,1 - 48,4
	101,9	66,1	47,6							C6L90-R12-32G	47,6 - 54,0	45,2 - 51,6

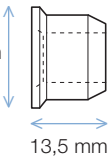
Standard

2LC-R12G 15,4 mm



Flanged

3LC-2R12G 19,7 mm



The articles codes in blue correspond to the core range (most commonly used references)

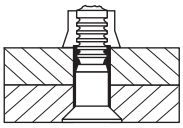
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

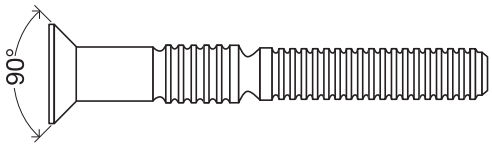
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® 90U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Steel Ref: C6L90-R6
- References of the corresponding collar: standard collar 2LC-R6G, Flanged collar 3LC-2R6G
- For the values of clamping force and tensile/shear strength in Steel, please consult-us



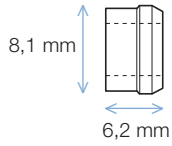


Stem : Stainless steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU6	min-max (mm) Flanged 3LC-2CU6
	39,9	12,2	3,2							C6L90-U6-3	3,2 - 6,4	2,0 - 5,2
	41,5	13,7	4,8							C6L90-U6-4	4,8 - 7,9	3,6 - 6,8
	43,1	15,3	6,4							C6L90-U6-5	6,4 - 9,5	5,2 - 8,4
	44,7	16,9	7,9							C6L90-U6-6	7,9 - 11,1	6,8 - 9,9
	46,3	18,5	9,5							C6L90-U6-7	9,5 - 12,7	8,4 - 11,5
	47,9	20,1	11,1							C6L90-U6-8	11,1 - 14,3	9,9 - 13,1
	49,5	21,7	12,7							C6L90-U6-9	12,7 - 15,9	11,5 - 14,7
	51,0	23,3	14,3							C6L90-U6-10	14,3 - 17,5	13,1 - 16,3
	52,6	24,9	15,9							C6L90-U6-11	15,9 - 19,1	14,7 - 17,9
	54,2	26,4	17,5							C6L90-U6-12	17,5 - 20,6	16,3 - 19,5
	55,8	28,0	19,1							C6L90-U6-13	19,1 - 22,2	17,9 - 21,1
	57,4	29,6	20,6							C6L90-U6-14	20,6 - 23,8	19,5 - 22,6
	59,0	31,2	22,2							C6L90-U6-15	22,2 - 25,4	21,1 - 24,2
	60,6	32,8	23,8							C6L90-U6-16	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,2	34,4	25,4	9,1	2,2	5,0 - 5,2	6,5	8,9	4,6	C6L90-U6-17	25,4 - 28,6	24,2 - 27,4
	63,7	36,0	27,0							C6L90-U6-18	27,0 - 30,2	25,8 - 29,0
	65,3	37,6	28,6							C6L90-U6-19	28,6 - 31,8	27,4 - 30,6
	66,9	39,1	30,2							C6L90-U6-20	30,2 - 33,3	29,0 - 32,2
	68,5	40,7	31,8							C6L90-U6-21	31,8 - 34,9	30,6 - 33,8
	70,1	42,3	33,3							C6L90-U6-22	33,3 - 36,5	32,2 - 35,3
	71,7	43,9	34,9							C6L90-U6-23	34,9 - 38,1	33,8 - 36,9
	73,3	45,5	36,5							C6L90-U6-24	36,5 - 39,7	35,3 - 38,5
	74,9	47,1	38,1							C6L90-U6-25	38,1 - 41,3	36,9 - 40,1
	76,4	48,7	39,7							C6L90-U6-26	39,7 - 42,9	38,5 - 41,7
	78,0	50,3	41,3							C6L90-U6-27	41,3 - 44,5	40,1 - 43,3
	79,6	51,8	42,9							C6L90-U6-28	42,9 - 46,0	41,7 - 44,9
	81,2	53,4	44,5							C6L90-U6-29	44,5 - 47,6	43,3 - 46,5
	82,8	55,0	46,0							C6L90-U6-30	46,0 - 49,2	44,9 - 48,0
	84,4	56,6	47,6							C6L90-U6-31	47,6 - 50,8	46,5 - 49,6
	86,0	58,2	49,2							C6L90-U6-32	49,2 - 52,4	48,0 - 51,2

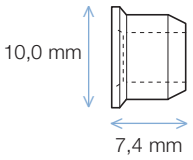
Standard

2LC-2CU6



Flanged

3LC-2CU6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

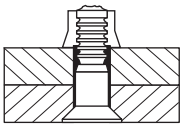
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

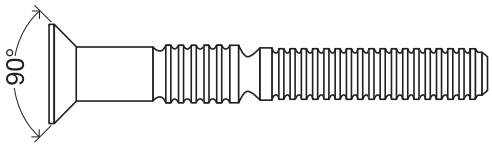
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Steel Ref: C6L90-R8
- References of the corresponding collar: standard collar 2LC-R8G, Flanged collar 3LC-2R8G
- For the values of clamping force and tensile/shear strength in Steel, please consult-us



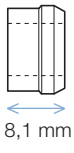


Stem : Stainless steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU8	min-max (mm) Flanged 3LC-2CU8
6,4 6,45 - 6,58	43,1	14,5	3,2	12,1	2,9	6,6 - 6,8	16,7	15,8	8,0	C6L90-U8-3	3,2 - 6,4	1,6 - 4,8
	44,7	16,1	4,8							C6L90-U8-4	4,8 - 7,9	3,2 - 6,3
	46,3	17,6	6,4							C6L90-U8-5	6,4 - 9,5	4,8 - 7,9
	47,9	19,2	7,9							C6L90-U8-6	7,9 - 11,1	6,3 - 9,5
	49,5	20,8	9,5							C6L90-U8-7	9,5 - 12,7	7,9 - 11,1
	51,0	22,4	11,1							C6L90-U8-8	11,1 - 14,3	9,5 - 12,7
	52,6	24,0	12,7							C6L90-U8-9	12,7 - 15,9	11,1 - 14,3
	54,2	25,6	14,3							C6L90-U8-10	14,3 - 17,5	12,7 - 15,9
	55,8	27,2	15,9							C6L90-U8-11	15,9 - 19,1	14,3 - 17,5
	57,4	28,8	17,5							C6L90-U8-12	17,5 - 20,6	15,9 - 19,0
	59,0	30,3	19,1							C6L90-U8-13	19,1 - 22,2	17,5 - 20,6
	60,6	31,9	20,6							C6L90-U8-14	20,6 - 23,8	19,0 - 22,2
	62,2	33,5	22,2							C6L90-U8-15	22,2 - 25,4	20,6 - 23,8
	63,7	35,1	23,8							C6L90-U8-16	23,8 - 27,0	22,2 - 25,4
	65,3	36,7	25,4							C6L90-U8-17	25,4 - 28,6	23,8 - 27,0
	66,9	38,3	27,0							C6L90-U8-18	27,0 - 30,2	25,4 - 28,6
	68,5	39,9	28,6							C6L90-U8-19	28,6 - 31,8	27,0 - 30,2
	70,1	41,5	30,2							C6L90-U8-20	30,2 - 33,3	28,6 - 31,7
	71,7	43,0	31,8							C6L90-U8-21	31,8 - 34,9	30,2 - 33,3
	73,3	44,6	33,3							C6L90-U8-22	33,3 - 36,5	31,7 - 34,9
	74,9	46,2	34,9							C6L90-U8-23	34,9 - 38,1	33,3 - 36,5
	76,4	47,8	36,5							C6L90-U8-24	36,5 - 39,7	34,9 - 38,1
	78,0	49,4	38,1							C6L90-U8-25	38,1 - 41,3	36,5 - 39,7
	79,6	51,0	39,7							C6L90-U8-26	39,7 - 42,9	38,1 - 41,3
	81,2	52,6	41,3							C6L90-U8-27	41,3 - 44,5	39,7 - 42,9
	82,8	54,2	42,9							C6L90-U8-28	42,9 - 46,0	41,3 - 44,4
	84,4	55,7	44,5							C6L90-U8-29	44,5 - 47,6	42,9 - 46,0
	86,0	57,3	46,0							C6L90-U8-30	46,0 - 49,2	44,4 - 47,6
	87,6	58,9	47,6							C6L90-U8-31	47,6 - 50,8	46 - 49,2
	89,1	60,5	49,2							C6L90-U8-32	49,2 - 52,4	47,6 - 50,8

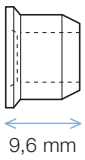
Standard

2LC-2CU8 10,6 mm



Flanged

3LC-2CU8 13,2 mm



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

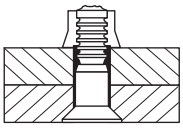
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

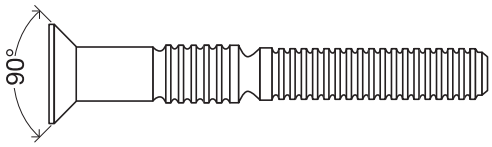
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Steel Ref: C6L90-R10
- References of the corresponding collar: standard collar 2LC-R10G, Flanged collar 3LC-2R10G
- For the values of clamping force and tensile/shear strength in Steel, please consult-us



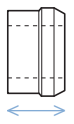


Stem : Stainless steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU10	min-max (mm) Flanged 3LC-2CU10
7,9 8,05 - 8,18	53,0	20,9	4,3	15,1	3,6	8,2 - 8,3	18,9	24,6	12,5	C6L90-U10-4	3,2 - 9,5	1,2 - 7,5
	55,0	24,1	6,4							C6L90-U10-6	6,4 - 12,7	4,4 - 10,7
	58,2	27,2	9,5							C6L90-U10-8	9,5 - 15,9	7,5 - 13,9
	61,4	30,4	12,7							C6L90-U10-10	12,7 - 19,1	10,7 - 17,1
	64,6	33,6	15,9							C6L90-U10-12	15,9 - 22,2	13,9 - 20,2
	67,7	36,8	19,1							C6L90-U10-14	19,1 - 25,4	17,1 - 23,4
	70,9	39,9	22,2							C6L90-U10-16	22,2 - 28,6	20,2 - 26,6
	74,1	43,1	25,4							C6L90-U10-18	25,4 - 31,8	23,4 - 29,8
	77,3	46,3	28,6							C6L90-U10-20	28,6 - 34,9	26,6 - 32,9
	80,4	49,5	31,8							C6L90-U10-22	31,8 - 38,1	29,8 - 36,1
	83,6	52,6	34,9							C6L90-U10-24	34,9 - 41,3	32,9 - 39,3
	86,8	55,8	38,1							C6L90-U10-26	38,1 - 44,5	36,1 - 42,5
	90,0	59,0	41,3							C6L90-U10-28	41,3 - 47,6	39,3 - 45,6
	93,1	62,2	44,5							C6L90-U10-30	44,5 - 50,8	42,5 - 48,8
	96,3	64,2	47,6							C6L90-U10-32	47,6 - 54,0	45,6 - 52,0

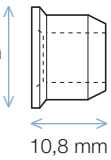
Standard

2LC-2CU10 12,8 mm



Flanged

3LC-2CU10 16,4 mm



The articles codes in blue correspond to the core range (most commonly used references)

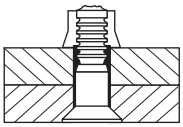
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

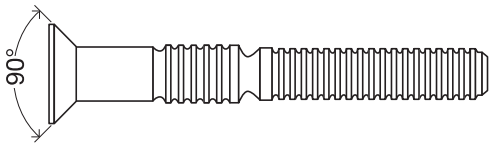
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® 90U Lockbolt - Stainless steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: Enables installation into non metallic materials
- The stems are also available in Steel Ref: C6L90-R12
- References of the corresponding collar: standard collar 2LC-R12G, Flanged collar 3LC-2R12G
- For the values of clamping force and tensile/shear strength in Steel, please consult-us



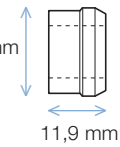


Stem : Stainless steel | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU12	min-max (mm) Flanged 3LC-2CU12
9,5 9,65 - 9,78	60,6	24,8	6,4	18,1	4,3	9,8 - 9,9	27,1	35,4	17,9	C6L90-U12-6	6,4 - 12,7	4,0 - 10,3
	63,8	28,0	9,5							C6L90-U12-8	9,5 - 15,9	7,1 - 13,5
	66,9	31,2	12,7							C6L90-U12-10	12,7 - 19,1	10,3 - 16,7
	70,1	34,4	15,9							C6L90-U12-12	15,9 - 22,2	13,5 - 19,8
	73,3	37,5	19,1							C6L90-U12-14	19,1 - 25,4	16,7 - 23,0
	76,5	40,7	22,2							C6L90-U12-16	22,2 - 28,6	19,8 - 26,2
	79,6	43,9	25,4							C6L90-U12-18	25,4 - 31,8	23,0 - 29,4
	82,8	47,1	28,6							C6L90-U12-20	28,6 - 34,9	26,2 - 32,5
	86,0	50,2	31,8							C6L90-U12-22	31,8 - 38,1	29,4 - 35,7
	89,2	53,4	34,9							C6L90-U12-24	34,9 - 41,3	32,5 - 38,9
	92,3	56,6	38,1							C6L90-U12-26	38,1 - 44,5	35,7 - 42,1
	95,5	59,8	41,3							C6L90-U12-28	41,3 - 47,6	38,9 - 45,2
	98,7	62,9	44,5							C6L90-U12-30	44,5 - 50,8	42,1 - 48,4
	101,9	66,1	47,6							C6L90-U12-32	47,6 - 54,0	45,2 - 51,6

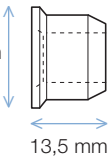
Standard

2LC-2CU12 15,4 mm



Flanged

3LC-2CU12 19,7 mm



The articles codes in blue correspond to the core range (most commonly used references)

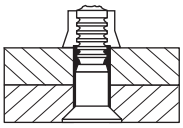
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

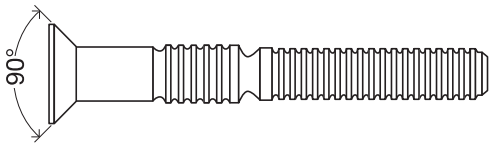
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® 90C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



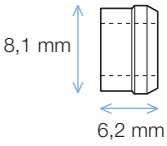


Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F6	min-max (mm) Flanged 3LC-F6
	39,9	12,2	3,2							C6L90-C6-3	3,2 - 6,4	2,0 - 5,2
	41,5	13,7	4,8							C6L90-C6-4	4,8 - 7,9	3,6 - 6,8
	43,1	15,3	6,4							C6L90-C6-5	6,4 - 9,5	5,2 - 8,4
	44,7	16,9	7,9							C6L90-C6-6	7,9 - 11,1	6,8 - 9,9
	46,3	18,5	9,5							C6L90-C6-7	9,5 - 12,7	8,4 - 11,5
	47,9	20,1	11,1							C6L90-C6-8	11,1 - 14,3	9,9 - 13,1
	49,5	21,7	12,7							C6L90-C6-9	12,7 - 15,9	11,5 - 14,7
	51,0	23,3	14,3							C6L90-C6-10	14,3 - 17,5	13,1 - 16,3
	52,6	24,9	15,9							C6L90-C6-11	15,9 - 19,1	14,7 - 17,9
	54,2	26,4	17,5							C6L90-C6-12	17,5 - 20,6	16,3 - 19,5
	55,8	28,0	19,1							C6L90-C6-13	19,1 - 22,2	17,9 - 21,1
	57,4	29,6	20,6							C6L90-C6-14	20,6 - 23,8	19,5 - 22,6
	59,0	31,2	22,2							C6L90-C6-15	22,2 - 25,4	21,1 - 24,2
	60,6	32,8	23,8							C6L90-C6-16	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,2	34,4	25,4	9,1	2,2	5,0 - 5,2	4,4	4,7	2,4	C6L90-C6-17	25,4 - 28,6	24,2 - 27,4
	63,7	36,0	27,0							C6L90-C6-18	27,0 - 30,2	25,8 - 29,0
	65,3	37,6	28,6							C6L90-C6-19	28,6 - 31,8	27,4 - 30,6
	66,9	39,1	30,2							C6L90-C6-20	30,2 - 33,3	29,0 - 32,2
	68,5	40,7	31,8							C6L90-C6-21	31,8 - 34,9	30,6 - 33,8
	70,1	42,3	33,3							C6L90-C6-22	33,3 - 36,5	32,2 - 35,3
	71,7	43,9	34,9							C6L90-C6-23	34,9 - 38,1	33,8 - 36,9
	73,3	45,5	36,5							C6L90-C6-24	36,5 - 39,7	35,3 - 38,5
	74,9	47,1	38,1							C6L90-C6-25	38,1 - 41,3	36,9 - 40,1
	76,4	48,7	39,7							C6L90-C6-26	39,7 - 42,9	38,5 - 41,7
	78,0	50,3	41,3							C6L90-C6-27	41,3 - 44,5	40,1 - 43,3
	79,6	51,8	42,9							C6L90-C6-28	42,9 - 46,0	41,7 - 44,9
	81,2	53,4	44,5							C6L90-C6-29	44,5 - 47,6	43,3 - 46,5
	82,8	55,0	46,0							C6L90-C6-30	46,0 - 49,2	44,9 - 48,0
	84,4	56,6	47,6							C6L90-C6-31	47,6 - 50,8	46,5 - 49,6
	86,0	58,2	49,2							C6L90-C6-32	49,2 - 52,4	48,0 - 51,2

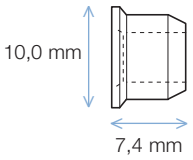
Standard

2LC-F6



Flanged

3LC-F6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

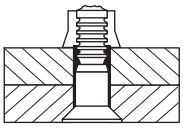
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

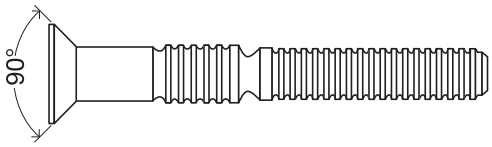
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



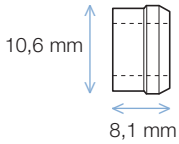


Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F8	min-max (mm) Flanged 3LC-F8
6,4 6,45 - 6,58	43,1	14,5	3,2	12,1	2,9	6,6 - 6,8	8,0	8,3	4,2	C6L90-C8-3	3,2 - 6,4	1,6 - 4,8
	44,7	16,1	4,8							C6L90-C8-4	4,8 - 7,9	3,2 - 6,3
	46,3	17,6	6,4							C6L90-C8-5	6,4 - 9,5	4,8 - 7,9
	47,9	19,2	7,9							C6L90-C8-6	7,9 - 11,1	6,3 - 9,5
	49,5	20,8	9,5							C6L90-C8-7	9,5 - 12,7	7,9 - 11,1
	51,0	22,4	11,1							C6L90-C8-8	11,1 - 14,3	9,5 - 12,7
	52,6	24,0	12,7							C6L90-C8-9	12,7 - 15,9	11,1 - 14,3
	54,2	25,6	14,3							C6L90-C8-10	14,3 - 17,5	12,7 - 15,9
	55,8	27,2	15,9							C6L90-C8-11	15,9 - 19,1	14,3 - 17,5
	57,4	28,8	17,5							C6L90-C8-12	17,5 - 20,6	15,9 - 19,0
	59,0	30,3	19,1							C6L90-C8-13	19,1 - 22,2	17,5 - 20,6
	60,6	31,9	20,6							C6L90-C8-14	20,6 - 23,8	19,0 - 22,2
	62,2	33,5	22,2							C6L90-C8-15	22,2 - 25,4	20,6 - 23,8
	63,7	35,1	23,8							C6L90-C8-16	23,8 - 27,0	22,2 - 25,4
	65,3	36,7	25,4							C6L90-C8-17	25,4 - 28,6	23,8 - 27,0
	66,9	38,3	27,0							C6L90-C8-18	27,0 - 30,2	25,4 - 28,6
	68,5	39,9	28,6							C6L90-C8-19	28,6 - 31,8	27,0 - 30,2
	70,1	41,5	30,2							C6L90-C8-20	30,2 - 33,3	28,6 - 31,7
	71,7	43,0	31,8							C6L90-C8-21	31,8 - 34,9	30,2 - 33,3
	73,3	44,6	33,3							C6L90-C8-22	33,3 - 36,5	31,7 - 34,9
	74,9	46,2	34,9							C6L90-C8-23	34,9 - 38,1	33,3 - 36,5
	76,4	47,8	36,5							C6L90-C8-24	36,5 - 39,7	34,9 - 38,1
	78,0	49,4	38,1							C6L90-C8-25	38,1 - 41,3	36,5 - 39,7
	79,6	51,0	39,7							C6L90-C8-26	39,7 - 42,9	38,1 - 41,3
	81,2	52,6	41,3							C6L90-C8-27	41,3 - 44,5	39,7 - 42,9
	82,8	54,2	42,9							C6L90-C8-28	42,9 - 46,0	41,3 - 44,4
	84,4	55,7	44,5							C6L90-C8-29	44,5 - 47,6	42,9 - 46,0
	86,0	57,3	46,0							C6L90-C8-30	46,0 - 49,2	44,4 - 47,6
	87,6	58,9	47,6							C6L90-C8-31	47,6 - 50,8	46 - 49,2
	89,1	60,5	49,2							C6L90-C8-32	49,2 - 52,4	47,6 - 50,8

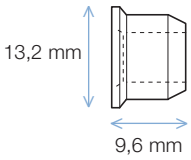
Standard

2LC-F8



Flanged

3LC-F8



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

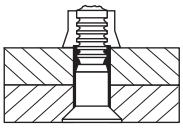
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

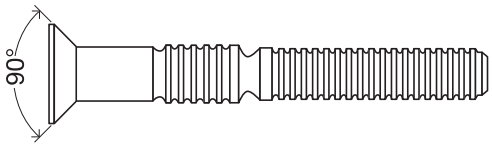
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



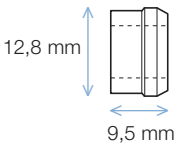


Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F10	min-max (mm) Flanged 3LC-F10
7,9 8,05 - 8,18	53,0	20,9	4,3	15,1	3,6	8,2 - 8,3	12,7	13,0	6,7	C6L90-C10-4	3,2 - 9,5	1,2 - 7,5
	55,0	24,1	6,4							C6L90-C10-6	6,4 - 12,7	4,4 - 10,7
	58,2	27,2	9,5							C6L90-C10-8	9,5 - 15,9	7,5 - 13,9
	61,4	30,4	12,7							C6L90-C10-10	12,7 - 19,1	10,7 - 17,1
	64,6	33,6	15,9							C6L90-C10-12	15,9 - 22,2	13,9 - 20,2
	67,7	36,8	19,1							C6L90-C10-14	19,1 - 25,4	17,1 - 23,4
	70,9	39,9	22,2							C6L90-C10-16	22,2 - 28,6	20,2 - 26,6
	74,1	43,1	25,4							C6L90-C10-18	25,4 - 31,8	23,4 - 29,8
	77,3	46,3	28,6							C6L90-C10-20	28,6 - 34,9	26,6 - 32,9
	80,4	49,5	31,8							C6L90-C10-22	31,8 - 38,1	29,8 - 36,1
	83,6	52,6	34,9							C6L90-C10-24	34,9 - 41,3	32,9 - 39,3
	86,8	55,8	38,1							C6L90-C10-26	38,1 - 44,5	36,1 - 42,5
	90,0	59,0	41,3							C6L90-C10-28	41,3 - 47,6	39,3 - 45,6
	93,1	62,2	44,5							C6L90-C10-30	44,5 - 50,8	42,5 - 48,8
	96,3	64,2	47,6							C6L90-C10-32	47,6 - 54,0	45,6 - 52,0

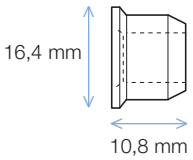
Standard

2LC-F10



Flanged

3LC-F10



The articles codes in blue correspond to the core range (most commonly used references)

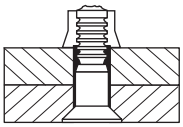
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

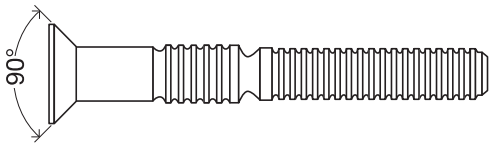
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C6L® 90C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



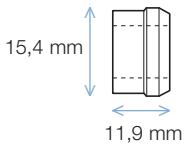


Stem : Aluminium | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F12	min-max (mm) Flanged 3LC-F12
9,5 9,65 - 9,78	60,6	24,8	6,4	18,1	4,3	9,8 - 9,9	18,7	18,7	9,8	C6L90-C12-6	6,4 - 12,7	4,0 - 10,3
	63,8	28,0	9,5							C6L90-C12-8	9,5 - 15,9	7,1 - 13,5
	66,9	31,2	12,7							C6L90-C12-10	12,7 - 19,1	10,3 - 16,7
	70,1	34,4	15,9							C6L90-C12-12	15,9 - 22,2	13,5 - 19,8
	73,3	37,5	19,1							C6L90-C12-14	19,1 - 25,4	16,7 - 23,0
	76,5	40,7	22,2							C6L90-C12-16	22,2 - 28,6	19,8 - 26,2
	79,6	43,9	25,4							C6L90-C12-18	25,4 - 31,8	23,0 - 29,4
	82,8	47,1	28,6							C6L90-C12-20	28,6 - 34,9	26,2 - 32,5
	86,0	50,2	31,8							C6L90-C12-22	31,8 - 38,1	29,4 - 35,7
	89,2	53,4	34,9							C6L90-C12-24	34,9 - 41,3	32,5 - 38,9
	92,3	56,6	38,1							C6L90-C12-26	38,1 - 44,5	35,7 - 42,1
	95,5	59,8	41,3							C6L90-C12-28	41,3 - 47,6	38,9 - 45,2
	98,7	62,9	44,5							C6L90-C12-30	44,5 - 50,8	42,1 - 48,4
	101,9	66,1	47,6							C6L90-C12-32	47,6 - 54,0	45,2 - 51,6

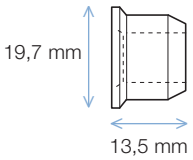
Standard

2LC-F12



Flanged

3LC-F12

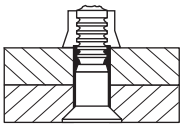


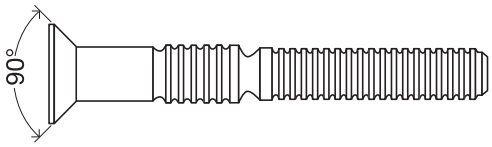
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® 90F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



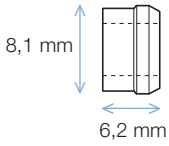


Stem : Aluminium 6061 | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I6	min-max (mm) Flanged 3LC-I6
4,8 4,85 - 4,95	39,9	12,2	3,2	9,1	2,2	5,0 - 5,2	2,4	3,4	1,6	C6L90-F6-3	3,2 - 6,4	2,0 - 5,2
	41,5	13,7	4,8							C6L90-F6-4	4,8 - 7,9	3,6 - 6,8
	43,1	15,3	6,4							C6L90-F6-5	6,4 - 9,5	5,2 - 8,4
	44,7	16,9	7,9							C6L90-F6-6	7,9 - 11,1	6,8 - 9,9
	46,3	18,5	9,5							C6L90-F6-7	9,5 - 12,7	8,4 - 11,5
	47,9	20,1	11,1							C6L90-F6-8	11,1 - 14,3	9,9 - 13,1
	49,5	21,7	12,7							C6L90-F6-9	12,7 - 15,9	11,5 - 14,7
	51,0	23,3	14,3							C6L90-F6-10	14,3 - 17,5	13,1 - 16,3
	52,6	24,9	15,9							C6L90-F6-11	15,9 - 19,1	14,7 - 17,9
	54,2	26,4	17,5							C6L90-F6-12	17,5 - 20,6	16,3 - 19,5
	55,8	28,0	19,1							C6L90-F6-13	19,1 - 22,2	17,9 - 21,1
	57,4	29,6	20,6							C6L90-F6-14	20,6 - 23,8	19,5 - 22,6
	59,0	31,2	22,2							C6L90-F6-15	22,2 - 25,4	21,1 - 24,2
	60,6	32,8	23,8							C6L90-F6-16	23,8 - 27,0	22,6 - 25,8
	62,2	34,4	25,4							C6L90-F6-17	25,4 - 28,6	24,2 - 27,4
	63,7	36,0	27,0							C6L90-F6-18	27,0 - 30,2	25,8 - 29,0
	65,3	37,6	28,6							C6L90-F6-19	28,6 - 31,8	27,4 - 30,6
	66,9	39,1	30,2							C6L90-F6-20	30,2 - 33,3	29,0 - 32,2
	68,5	40,7	31,8							C6L90-F6-21	31,8 - 34,9	30,6 - 33,8
	70,1	42,3	33,3							C6L90-F6-22	33,3 - 36,5	32,2 - 35,3
	71,7	43,9	34,9							C6L90-F6-23	34,9 - 38,1	33,8 - 36,9
	73,3	45,5	36,5							C6L90-F6-24	36,5 - 39,7	35,3 - 38,5
	74,9	47,1	38,1							C6L90-F6-25	38,1 - 41,3	36,9 - 40,1
	76,4	48,7	39,7							C6L90-F6-26	39,7 - 42,9	38,5 - 41,7
	78,0	50,3	41,3							C6L90-F6-27	41,3 - 44,5	40,1 - 43,3
	79,6	51,8	42,9							C6L90-F6-28	42,9 - 46,0	41,7 - 44,9
	81,2	53,4	44,5							C6L90-F6-29	44,5 - 47,6	43,3 - 46,5
	82,8	55,0	46,0							C6L90-F6-30	46,0 - 49,2	44,9 - 48,0
	84,4	56,6	47,6							C6L90-F6-31	47,6 - 50,8	46,5 - 49,6
	86,0	58,2	49,2							C6L90-F6-32	49,2 - 52,4	48,0 - 51,2

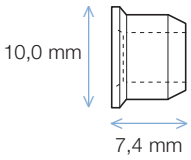
Standard

LC-I6



Flanged

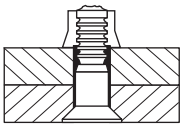
3LC-I6

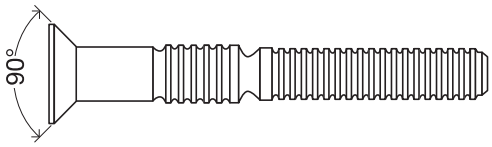


d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® 90F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



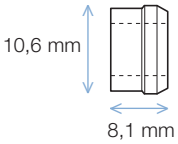


Stem : Aluminium 6061 | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I8	min-max (mm) Flanged 3LC-I8
	43,1	14,5	3,2							C6L90-F8-3	3,2 - 6,4	1,6 - 4,8
	44,7	16,1	4,8							C6L90-F8-4	4,8 - 7,9	3,2 - 6,3
	46,3	17,6	6,4							C6L90-F8-5	6,4 - 9,5	4,8 - 7,9
	47,9	19,2	7,9							C6L90-F8-6	7,9 - 11,1	6,3 - 9,5
	49,5	20,8	9,5							C6L90-F8-7	9,5 - 12,7	7,9 - 11,1
	51,0	22,4	11,1							C6L90-F8-8	11,1 - 14,3	9,5 - 12,7
	52,6	24,0	12,7							C6L90-F8-9	12,7 - 15,9	11,1 - 14,3
	54,2	25,6	14,3							C6L90-F8-10	14,3 - 17,5	12,7 - 15,9
	55,8	27,2	15,9							C6L90-F8-11	15,9 - 19,1	14,3 - 17,5
	57,4	28,8	17,5							C6L90-F8-12	17,5 - 20,6	15,9 - 19,0
	59,0	30,3	19,1							C6L90-F8-13	19,1 - 22,2	17,5 - 20,6
	60,6	31,9	20,6							C6L90-F8-14	20,6 - 23,8	19,0 - 22,2
	62,2	33,5	22,2							C6L90-F8-15	22,2 - 25,4	20,6 - 23,8
	63,7	35,1	23,8							C6L90-F8-16	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,3	36,7	25,4	12,1	2,9	6,6 - 6,8	4,3	6,1	2,8	C6L90-F8-17	25,4 - 28,6	23,8 - 27,0
	66,9	38,3	27,0							C6L90-F8-18	27,0 - 30,2	25,4 - 28,6
	68,5	39,9	28,6							C6L90-F8-19	28,6 - 31,8	27,0 - 30,2
	70,1	41,5	30,2							C6L90-F8-20	30,2 - 33,3	28,6 - 31,7
	71,7	43,0	31,8							C6L90-F8-21	31,8 - 34,9	30,2 - 33,3
	73,3	44,6	33,3							C6L90-F8-22	33,3 - 36,5	31,7 - 34,9
	74,9	46,2	34,9							C6L90-F8-23	34,9 - 38,1	33,3 - 36,5
	76,4	47,8	36,5							C6L90-F8-24	36,5 - 39,7	34,9 - 38,1
	78,0	49,4	38,1							C6L90-F8-25	38,1 - 41,3	36,5 - 39,7
	79,6	51,0	39,7							C6L90-F8-26	39,7 - 42,9	38,1 - 41,3
	81,2	52,6	41,3							C6L90-F8-27	41,3 - 44,5	39,7 - 42,9
	82,8	54,2	42,9							C6L90-F8-28	42,9 - 46,0	41,3 - 44,4
	84,4	55,7	44,5							C6L90-F8-29	44,5 - 47,6	42,9 - 46,0
	86,0	57,3	46,0							C6L90-F8-30	46,0 - 49,2	44,4 - 47,6
	87,6	58,9	47,6							C6L90-F8-31	47,6 - 50,8	46,0 - 49,2
	89,1	60,5	49,2							C6L90-F8-32	49,2 - 52,4	47,6 - 50,8

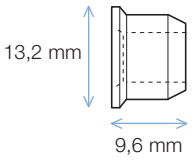
Standard

LC-I8



Flanged

3LC-I8



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

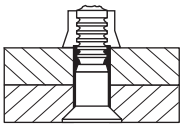
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

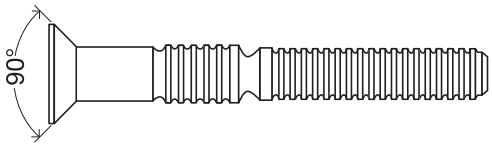
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® 90F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



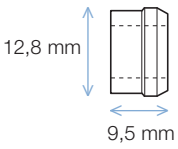


Stem : Aluminium 6061 | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I10	min-max (mm) Flanged 3LC-I10
7,9 8,05 - 8,18	53,0	20,9	4,3	15,1	3,6	8,2 - 8,3	6,9	9,5	4,3	C6L90-F10-4	3,2 - 9,5	1,2 - 7,5
	55,0	24,1	6,4							C6L90-F10-6	6,4 - 12,7	4,4 - 10,7
	58,2	27,2	9,5							C6L90-F10-8	9,5 - 15,9	7,5 - 13,9
	61,4	30,4	12,7							C6L90-F10-10	12,7 - 19,1	10,7 - 17,1
	64,6	33,6	15,9							C6L90-F10-12	15,9 - 22,2	13,9 - 20,2
	67,7	36,8	19,1							C6L90-F10-14	19,1 - 25,4	17,1 - 23,4
	70,9	39,9	22,2							C6L90-F10-16	22,2 - 28,6	20,2 - 26,6
	74,1	43,1	25,4							C6L90-F10-18	25,4 - 31,8	23,4 - 29,8
	77,3	46,3	28,6							C6L90-F10-20	28,6 - 34,9	26,6 - 32,9
	80,4	49,5	31,8							C6L90-F10-22	31,8 - 38,1	29,8 - 36,1
	83,6	52,6	34,9							C6L90-F10-24	34,9 - 41,3	32,9 - 39,3
	86,8	55,8	38,1							C6L90-F10-26	38,1 - 44,5	36,1 - 42,5
	90,0	59,0	41,3							C6L90-F10-28	41,3 - 47,6	39,3 - 45,6
	93,1	62,2	44,5							C6L90-F10-30	44,5 - 50,8	42,5 - 48,8
	96,3	64,2	47,6							C6L90-F10-32	47,6 - 54,0	45,6 - 52,0

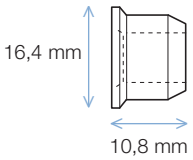
Standard

LC-I10



Flanged

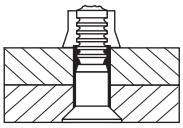
3LC-I10

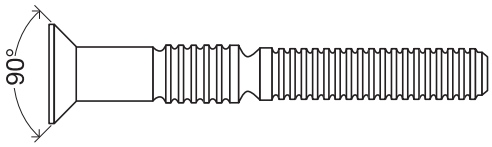


d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® 90F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials



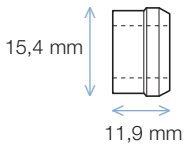


Stem : Aluminium 6061 | Head : Countersunk

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-l12	min-max (mm) Flanged 3LC-l12
9,5 9,65 - 9,78	60,6	24,8	6,4	18,1	4,3	9,8 - 9,9	10,7	13,6	6,1	C6L90-F12-6	6,4 - 12,7	4,0 - 10,3
	63,8	28,0	9,5							C6L90-F12-8	9,5 - 15,9	7,1 - 13,5
	66,9	31,2	12,7							C6L90-F12-10	12,7 - 19,1	10,3 - 16,7
	70,1	34,4	15,9							C6L90-F12-12	15,9 - 22,2	13,5 - 19,8
	73,3	37,5	19,1							C6L90-F12-14	19,1 - 25,4	16,7 - 23,0
	76,5	40,7	22,2							C6L90-F12-16	22,2 - 28,6	19,8 - 26,2
	79,6	43,9	25,4							C6L90-F12-18	25,4 - 31,8	23,0 - 29,4
	82,8	47,1	28,6							C6L90-F12-20	28,6 - 34,9	26,2 - 32,5
	86,0	50,2	31,8							C6L90-F12-22	31,8 - 38,1	29,4 - 35,7
	89,2	53,4	34,9							C6L90-F12-24	34,9 - 41,3	32,5 - 38,9
	92,3	56,6	38,1							C6L90-F12-26	38,1 - 44,5	35,7 - 42,1
	95,5	59,8	41,3							C6L90-F12-28	41,3 - 47,6	38,9 - 45,2
	98,7	62,9	44,5							C6L90-F12-30	44,5 - 50,8	42,1 - 48,4
	101,9	66,1	47,6							C6L90-F12-32	47,6 - 54,0	45,2 - 51,6

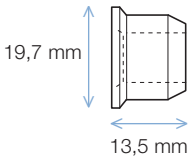
Standard

LC-I12



Flanged

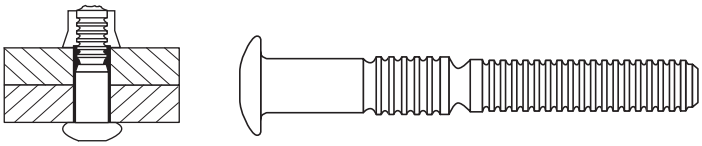
3LC-I12



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

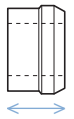


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R6G	min-max (mm) Flanged 3LC-2R6G
	39,1	10,6	1,6							C6LT-R6-2G	1,6 - 4,8	0,4 - 3,6
	40,7	12,2	3,2							C6LT-R6-3G	3,2 - 6,4	2,0 - 5,2
	42,3	13,7	4,8							C6LT-R6-4G	4,8 - 7,9	3,6 - 6,8
	43,9	15,3	6,4							C6LT-R6-5G	6,4 - 9,5	5,2 - 8,4
	45,4	16,9	7,9							C6LT-R6-6G	7,9 - 11,1	6,8 - 9,9
	47,0	18,5	9,5							C6LT-R6-7G	9,5 - 12,7	8,4 - 11,5
	48,6	20,1	11,1							C6LT-R6-8G	11,1 - 14,3	9,9 - 13,1
	50,2	21,7	12,7							C6LT-R6-9G	12,7 - 15,9	11,5 - 14,7
	51,8	23,3	14,3							C6LT-R6-10G	14,3 - 17,5	13,1 - 16,3
	53,4	24,9	15,9							C6LT-R6-11G	15,9 - 19,1	14,7 - 17,9
	55,0	26,4	17,5							C6LT-R6-12G	17,5 - 20,6	16,3 - 19,5
	56,6	28,0	19,1							C6LT-R6-13G	19,1 - 22,2	17,9 - 21,1
	58,1	29,6	20,6							C6LT-R6-14G	20,6 - 23,8	19,5 - 22,6
	59,7	31,2	22,2							C6LT-R6-15G	22,2 - 25,4	21,1 - 24,2
	61,3	32,8	23,8							C6LT-R6-16G	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,9	34,4	25,4	11,9	2,3	5,0 - 5,2	7,3	7,7	4,6	C6LT-R6-17G	25,4 - 28,6	24,2 - 27,4
	64,5	36,0	27,0							C6LT-R6-18G	27,0 - 30,2	25,8 - 29,0
	66,1	37,6	28,6							C6LT-R6-19G	28,6 - 31,8	27,4 - 30,6
	67,7	39,1	30,2							C6LT-R6-20G	30,2 - 33,3	29,0 - 32,2
	69,3	40,7	31,8							C6LT-R6-21G	31,8 - 34,9	30,6 - 33,8
	70,8	42,3	33,3							C6LT-R6-22G	33,3 - 36,5	32,2 - 35,3
	72,4	43,9	34,9							C6LT-R6-23G	34,9 - 38,1	33,8 - 36,9
	74,0	45,5	36,5							C6LT-R6-24G	36,5 - 39,7	35,3 - 38,5
	75,6	47,1	38,1							C6LT-R6-25G	38,1 - 41,3	36,9 - 40,1
	77,2	48,7	39,7							C6LT-R6-26G	39,7 - 42,9	38,5 - 41,7
	78,8	50,3	41,3							C6LT-R6-27G	41,3 - 44,5	40,1 - 43,3
	80,4	51,8	42,9							C6LT-R6-28G	42,9 - 46,0	41,7 - 44,9
	82,0	53,4	44,5							C6LT-R6-29G	44,5 - 47,6	43,3 - 46,5
	83,5	55,0	46,0							C6LT-R6-30G	46,0 - 49,2	44,9 - 48,0
	85,1	56,6	47,6							C6LT-R6-31G	47,6 - 50,8	46,5 - 49,6
	86,7	58,2	49,2							C6LT-R6-32G	49,2 - 52,4	48,0 - 51,2

Standard

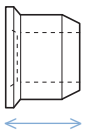
2LC-R6G 8,1 mm



6,2 mm

Flanged

3LC-2R6G 10,0 mm



7,4 mm

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

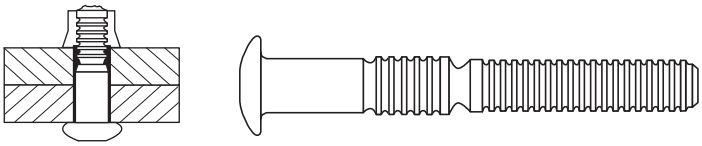
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

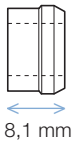


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R8G	min-max (mm) Flanged 3LC-2R8G
	42,0	12,9	1,6							C6LT-R8-2G	1,6 - 4,8	0,0 - 3,2
	43,6	14,5	3,2							C6LT-R8-3G	3,2 - 6,4	1,6 - 4,8
	45,2	16,1	4,8							C6LT-R8-4G	4,8 - 7,9	3,2 - 6,3
	46,8	17,6	6,4							C6LT-R8-5G	6,4 - 9,5	4,8 - 7,9
	48,4	19,2	7,9							C6LT-R8-6G	7,9 - 11,1	6,3 - 9,5
	50,0	20,8	9,5							C6LT-R8-7G	9,5 - 12,7	7,9 - 11,1
	51,6	22,4	11,1							C6LT-R8-8G	11,1 - 14,3	9,5 - 12,7
	53,2	24,0	12,7							C6LT-R8-9G	12,7 - 15,9	11,1 - 14,3
	54,7	25,6	14,3							C6LT-R8-10G	14,3 - 17,5	12,7 - 15,9
	56,3	27,2	15,9							C6LT-R8-11G	15,9 - 19,1	14,3 - 17,5
	57,9	28,8	17,5							C6LT-R8-12G	17,5 - 20,6	15,9 - 19,0
	59,5	30,3	19,1							C6LT-R8-13G	19,1 - 22,2	17,5 - 20,6
	61,1	31,9	20,6							C6LT-R8-14G	20,6 - 23,8	19,0 - 22,2
	62,7	33,5	22,2							C6LT-R8-15G	22,2 - 25,4	20,6 - 23,8
	64,3	35,1	23,8							C6LT-R8-16G	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,9	36,7	25,4	15,1	3,0	6,6 - 6,8	13,3	13,6	8,0	C6LT-R8-17G	25,4 - 28,6	23,8 - 27,0
	67,4	38,3	27,0							C6LT-R8-18G	27,0 - 30,2	25,4 - 28,6
	69,0	39,9	28,6							C6LT-R8-19G	28,6 - 31,8	27,0 - 30,2
	70,6	41,5	30,2							C6LT-R8-20G	30,2 - 33,3	28,6 - 31,7
	72,2	43,0	31,8							C6LT-R8-21G	31,8 - 34,9	30,2 - 33,3
	73,8	44,6	33,3							C6LT-R8-22G	33,3 - 36,5	31,7 - 34,9
	75,4	46,2	34,9							C6LT-R8-23G	34,9 - 38,1	33,3 - 36,5
	77,0	47,8	36,5							C6LT-R8-24G	36,5 - 39,7	34,9 - 38,1
	78,6	49,4	38,1							C6LT-R8-25G	38,1 - 41,3	36,5 - 39,7
	80,1	51,0	39,7							C6LT-R8-26G	39,7 - 42,9	38,1 - 41,3
	81,7	52,6	41,3							C6LT-R8-27G	41,3 - 44,5	39,7 - 42,9
	83,3	54,2	42,9							C6LT-R8-28G	42,9 - 46,0	41,3 - 44,4
	84,9	55,7	44,5							C6LT-R8-29G	44,5 - 47,6	42,9 - 46,0
	86,5	57,3	46,0							C6LT-R8-30G	46,0 - 49,2	44,4 - 47,6
	88,1	58,9	47,6							C6LT-R8-31G	47,6 - 50,8	46 - 49,2
	89,7	60,5	49,2							C6LT-R8-32G	49,2 - 52,4	47,6 - 50,8

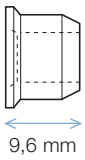
Standard

2LC-R8G 10,6 mm



Flanged

3LC-2R8G 13,2 mm



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

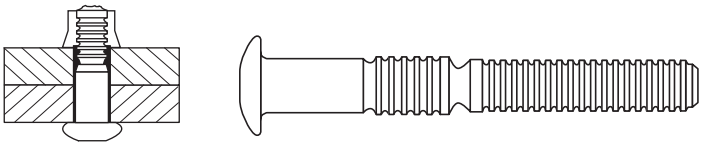
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

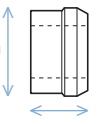


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R10G	min-max (mm) Flanged 3LC-2R10G
7,9 8,05 - 8,18	51,9	19,7	3,2	20,2	3,6	8,2 - 8,3	20,5	21,0	12,5	C6LT-R10-4G	3,2 - 9,5	1,2 - 7,5
	55,1	22,9	6,4							C6LT-R10-6G	6,4 - 12,7	4,4 - 10,7
	58,3	26,1	9,5							C6LT-R10-8G	9,5 - 15,9	7,5 - 13,9
	61,5	29,2	12,7							C6LT-R10-10G	12,7 - 19,1	10,7 - 17,1
	64,6	32,4	15,9							C6LT-R10-12G	15,9 - 22,2	13,9 - 20,2
	67,8	35,6	19,1							C6LT-R10-14G	19,1 - 25,4	17,1 - 23,4
	71,0	38,8	22,2							C6LT-R10-16G	22,2 - 28,6	20,2 - 26,6
	74,2	41,9	25,4							C6LT-R10-18G	25,4 - 31,8	23,4 - 29,8
	77,3	45,1	28,6							C6LT-R10-20G	28,6 - 34,9	26,6 - 32,9
	80,5	48,3	31,8							C6LT-R10-22G	31,8 - 38,1	29,8 - 36,1
	83,7	51,5	34,9							C6LT-R10-24G	34,9 - 41,3	32,9 - 39,3
	86,9	54,6	38,1							C6LT-R10-26G	38,1 - 44,5	36,1 - 42,5
	90,0	57,8	41,3							C6LT-R10-28G	41,3 - 47,6	39,3 - 45,6
	93,2	61,0	44,5							C6LT-R10-30G	44,5 - 50,8	42,5 - 48,8
	96,4	64,2	47,6							C6LT-R10-32G	47,6 - 54,0	45,6 - 52,0

Standard

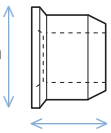
2LC-R10G 12,8 mm



9,5 mm

Flanged

3LC-2R10G 16,4 mm



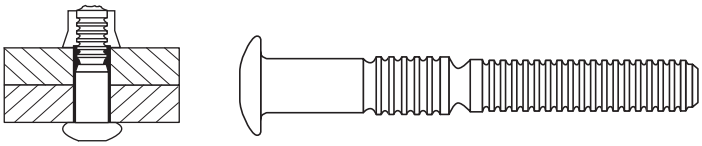
10,8 mm

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® R Lockbolt - Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

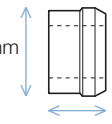


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-R12G	min-max (mm) Flanged 3LC-2R12G
9,5 9,65 - 9,78	57,3	21,7	3,2	23,4	4,3	9,8 - 9,9	28,9	30,4	17,9	C6LT-R12-4G	3,2 - 9,5	0,8 - 7,1
	60,5	24,8	6,4							C6LT-R12-6G	6,4 - 12,7	4,0 - 10,3
	63,7	28,0	9,5							C6LT-R12-8G	9,5 - 15,9	7,1 - 13,5
	66,8	31,2	12,7							C6LT-R12-10G	12,7 - 19,1	10,3 - 16,7
	70,0	34,4	15,9							C6LT-R12-12G	15,9 - 22,2	13,5 - 19,8
	73,2	37,5	19,1							C6LT-R12-14G	19,1 - 25,4	16,7 - 23,0
	76,4	40,7	22,2							C6LT-R12-16G	22,2 - 28,6	19,8 - 26,2
	79,5	43,9	25,4							C6LT-R12-18G	25,4 - 31,8	23,0 - 29,4
	82,7	47,1	28,6							C6LT-R12-20G	28,6 - 34,9	26,2 - 32,5
	85,9	50,2	31,8							C6LT-R12-22G	31,8 - 38,1	29,4 - 35,7
	89,1	53,4	34,9							C6LT-R12-24G	34,9 - 41,3	32,5 - 38,9
	92,2	56,6	38,1							C6LT-R12-26G	38,1 - 44,5	35,7 - 42,1
	95,4	59,8	41,3							C6LT-R12-28G	41,3 - 47,6	38,9 - 45,2
	98,6	62,9	44,5							C6LT-R12-30G	44,5 - 50,8	42,1 - 48,4
	101,8	66,1	47,6							C6LT-R12-32G	47,6 - 54,0	45,2 - 51,6

Standard

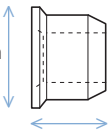
2LC-R12G 15,4 mm



11,9 mm

Flanged

3LC-2R12G 19,7 mm



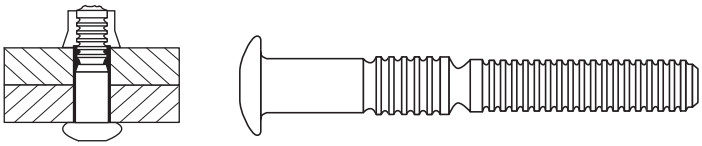
13,5 mm

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® U Lockbolt - Stainless Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

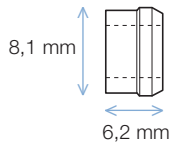


Stem : Stainless steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU6	min-max (mm) Flanged 3LC-2CU6
	39,1	10,6	1,6							C6LT-U6-2	1,6 - 4,8	0,4 - 3,6
	40,7	12,2	3,2							C6LT-U6-3	3,2 - 6,4	2,0 - 5,2
	42,3	13,7	4,8							C6LT-U6-4	4,8 - 7,9	3,6 - 6,8
	43,9	15,3	6,4							C6LT-U6-5	6,4 - 9,5	5,2 - 8,4
	45,4	16,9	7,9							C6LT-U6-6	7,9 - 11,1	6,8 - 9,9
	47,0	18,5	9,5							C6LT-U6-7	9,5 - 12,7	8,4 - 11,5
	48,6	20,1	11,1							C6LT-U6-8	11,1 - 14,3	9,9 - 13,1
	50,2	21,7	12,7							C6LT-U6-9	12,7 - 15,9	11,5 - 14,7
	51,8	23,3	14,3							C6LT-U6-10	14,3 - 17,5	13,1 - 16,3
	53,4	24,9	15,9							C6LT-U6-11	15,9 - 19,1	14,7 - 17,9
	55,0	26,4	17,5							C6LT-U6-12	17,5 - 20,6	16,3 - 19,5
	56,6	28,0	19,1							C6LT-U6-13	19,1 - 22,2	17,9 - 21,1
	58,1	29,6	20,6							C6LT-U6-14	20,6 - 23,8	19,5 - 22,6
	59,7	31,2	22,2							C6LT-U6-15	22,2 - 25,4	21,1 - 24,2
	61,3	32,8	23,8							C6LT-U6-16	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,9	34,4	25,4	11,9	2,3	5,0 - 5,2	6,5	8,9	4,6	C6LT-U6-17	25,4 - 28,6	24,2 - 27,4
	64,5	36,0	27,0							C6LT-U6-18	27,0 - 30,2	25,8 - 29,0
	66,1	37,6	28,6							C6LT-U6-19	28,6 - 31,8	27,4 - 30,6
	67,7	39,1	30,2							C6LT-U6-20	30,2 - 33,3	29,0 - 32,2
	69,3	40,7	31,8							C6LT-U6-21	31,8 - 34,9	30,6 - 33,8
	70,8	42,3	33,3							C6LT-U6-22	33,3 - 36,5	32,2 - 35,3
	72,4	43,9	34,9							C6LT-U6-23	34,9 - 38,1	33,8 - 36,9
	74,0	45,5	36,5							C6LT-U6-24	36,5 - 39,7	35,3 - 38,5
	75,6	47,1	38,1							C6LT-U6-25	38,1 - 41,3	36,9 - 40,1
	77,2	48,7	39,7							C6LT-U6-26	39,7 - 42,9	38,5 - 41,7
	78,8	50,3	41,3							C6LT-U6-27	41,3 - 44,5	40,1 - 43,3
	80,4	51,8	42,9							C6LT-U6-28	42,9 - 46,0	41,7 - 44,9
	82,0	53,4	44,5							C6LT-U6-29	44,5 - 47,6	43,3 - 46,5
	83,5	55,0	46,0							C6LT-U6-30	46,0 - 49,2	44,9 - 48,0
	85,1	56,6	47,6							C6LT-U6-31	47,6 - 50,8	46,5 - 49,6
	86,7	58,2	49,2							C6LT-U6-32	49,2 - 52,4	48,0 - 51,2

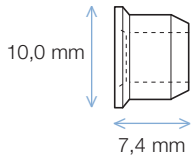
Standard

2LC-2CU6



Flanged

3LC-2CU6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

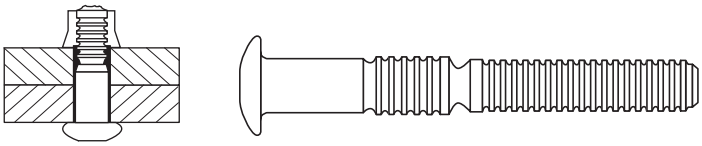
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® U Lockbolt - Stainless Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

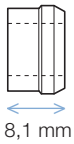


Stem : Stainless steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU8	min-max (mm) Flanged 3LC-2CU8
	42,0	12,9	1,6							C6LT-U8-2	1,6 - 4,8	0,0 - 3,2
	43,6	14,5	3,2							C6LT-U8-3	3,2 - 6,4	1,6 - 4,8
	45,2	16,1	4,8							C6LT-U8-4	4,8 - 7,9	3,2 - 6,3
	46,8	17,6	6,4							C6LT-U8-5	6,4 - 9,5	4,8 - 7,9
	48,4	19,2	7,9							C6LT-U8-6	7,9 - 11,1	6,3 - 9,5
	50,0	20,8	9,5							C6LT-U8-7	9,5 - 12,7	7,9 - 11,1
	51,6	22,4	11,1							C6LT-U8-8	11,1 - 14,3	9,5 - 12,7
	53,2	24,0	12,7							C6LT-U8-9	12,7 - 15,9	11,1 - 14,3
	54,7	25,6	14,3							C6LT-U8-10	14,3 - 17,5	12,7 - 15,9
	56,3	27,2	15,9							C6LT-U8-11	15,9 - 19,1	14,3 - 17,5
	57,9	28,8	17,5							C6LT-U8-12	17,5 - 20,6	15,9 - 19,0
	59,5	30,3	19,1							C6LT-U8-13	19,1 - 22,2	17,5 - 20,6
	61,1	31,9	20,6							C6LT-U8-14	20,6 - 23,8	19,0 - 22,2
	62,7	33,5	22,2							C6LT-U8-15	22,2 - 25,4	20,6 - 23,8
	64,3	35,1	23,8							C6LT-U8-16	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,9	36,7	25,4	15,1	3,0	6,6 - 6,8	16,7	15,8	8,0	C6LT-U8-17	25,4 - 28,6	23,8 - 27,0
	67,4	38,3	27,0							C6LT-U8-18	27,0 - 30,2	25,4 - 28,6
	69,0	39,9	28,6							C6LT-U8-19	28,6 - 31,8	27,0 - 30,2
	70,6	41,5	30,2							C6LT-U8-20	30,2 - 33,3	28,6 - 31,7
	72,2	43,0	31,8							C6LT-U8-21	31,8 - 34,9	30,2 - 33,3
	73,8	44,6	33,3							C6LT-U8-22	33,3 - 36,5	31,7 - 34,9
	75,4	46,2	34,9							C6LT-U8-23	34,9 - 38,1	33,3 - 36,5
	77,0	47,8	36,5							C6LT-U8-24	36,5 - 39,7	34,9 - 38,1
	78,6	49,4	38,1							C6LT-U8-25	38,1 - 41,3	36,5 - 39,7
	80,1	51,0	39,7							C6LT-U8-26	39,7 - 42,9	38,1 - 41,3
	81,7	52,6	41,3							C6LT-U8-27	41,3 - 44,5	39,7 - 42,9
	83,3	54,2	42,9							C6LT-U8-28	42,9 - 46,0	41,3 - 44,4
	84,9	55,7	44,5							C6LT-U8-29	44,5 - 47,6	42,9 - 46,0
	86,5	57,3	46,0							C6LT-U8-30	46,0 - 49,2	44,4 - 47,6
	88,1	58,9	47,6							C6LT-U8-31	47,6 - 50,8	46 - 49,2
	89,7	60,5	49,2							C6LT-U8-32	49,2 - 52,4	47,6 - 50,8

Standard

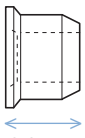
2LC-2CU8 — 10,6 mm



8,1 mm

Flanged

3LC-2CU8 — 13,2 mm



9,6 mm

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

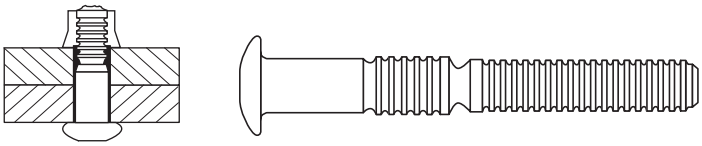
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® U Lockbolt - Stainless Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

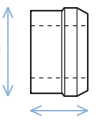


Stem : Stainless steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU10	min-max (mm) Flanged 3LC-2CU10
7,9 8,05 - 8,18	51,9	19,7	3,2	20,2	3,6	8,2 - 8,3	18,9	24,6	12,5	C6LT-U10-4	3,2 - 9,5	1,2 - 7,5
	55,1	22,9	6,4							C6LT-U10-6	6,4 - 12,7	4,4 - 10,7
	58,3	26,1	9,5							C6LT-U10-8	9,5 - 15,9	7,5 - 13,9
	61,5	29,2	12,7							C6LT-U10-10	12,7 - 19,1	10,7 - 17,1
	64,6	32,4	15,9							C6LT-U10-12	15,9 - 22,2	13,9 - 20,2
	67,8	35,6	19,1							C6LT-U10-14	19,1 - 25,4	17,1 - 23,4
	71,0	38,8	22,2							C6LT-U10-16	22,2 - 28,6	20,2 - 26,6
	74,2	41,9	25,4							C6LT-U10-18	25,4 - 31,8	23,4 - 29,8
	77,3	45,1	28,6							C6LT-U10-20	28,6 - 34,9	26,6 - 32,9
	80,5	48,3	31,8							C6LT-U10-22	31,8 - 38,1	29,8 - 36,1
	83,7	51,5	34,9							C6LT-U10-24	34,9 - 41,3	32,9 - 39,3
	86,9	54,6	38,1							C6LT-U10-26	38,1 - 44,5	36,1 - 42,5
	90,0	57,8	41,3							C6LT-U10-28	41,3 - 47,6	39,3 - 45,6
	93,2	61,0	44,5							C6LT-U10-30	44,5 - 50,8	42,5 - 48,8
	96,4	64,2	47,6							C6LT-U10-32	47,6 - 54,0	45,6 - 52,0

Standard

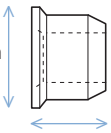
2LC-2CU10 12,8 mm



9,5 mm

Flanged

3LC-2CU10 16,4 mm



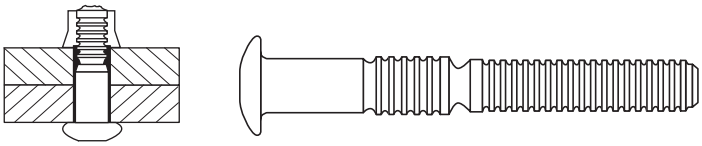
10,8 mm

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® U Lockbolt - Stainless Steel

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

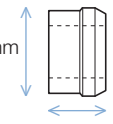


Stem : Stainless steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-2CU12	min-max (mm) Flanged 3LC-2CU12
9,5 9,65 - 9,78	57,3	21,7	3,2	23,4	4,3	9,8 - 9,9	27,1	35,4	17,9	C6LT-U12-4	3,2 - 9,5	0,8 - 7,1
	60,5	24,8	6,4							C6LT-U12-6	6,4 - 12,7	4,0 - 10,3
	63,7	28,0	9,5							C6LT-U12-8	9,5 - 15,9	7,1 - 13,5
	66,8	31,2	12,7							C6LT-U12-10	12,7 - 19,1	10,3 - 16,7
	70,0	34,4	15,9							C6LT-U12-12	15,9 - 22,2	13,5 - 19,8
	73,2	37,5	19,1							C6LT-U12-14	19,1 - 25,4	16,7 - 23,0
	76,4	40,7	22,2							C6LT-U12-16	22,2 - 28,6	19,8 - 26,2
	79,5	43,9	25,4							C6LT-U12-18	25,4 - 31,8	23,0 - 29,4
	82,7	47,1	28,6							C6LT-U12-20	28,6 - 34,9	26,2 - 32,5
	85,9	50,2	31,8							C6LT-U12-22	31,8 - 38,1	29,4 - 35,7
	89,1	53,4	34,9							C6LT-U12-24	34,9 - 41,3	32,5 - 38,9
	92,2	56,6	38,1							C6LT-U12-26	38,1 - 44,5	35,7 - 42,1
	95,4	59,8	41,3							C6LT-U12-28	41,3 - 47,6	38,9 - 45,2
	98,6	62,9	44,5							C6LT-U12-30	44,5 - 50,8	42,1 - 48,4
	101,8	66,1	47,6							C6LT-U12-32	47,6 - 54,0	45,2 - 51,6

Standard

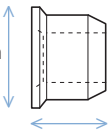
2LC-2CU12 15,4 mm



11,9 mm

Flanged

3LC-2CU12 19,7 mm



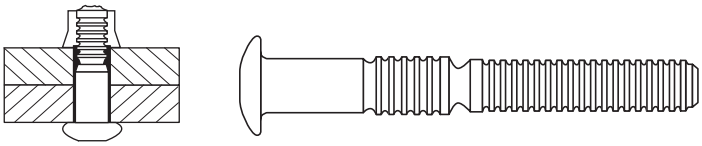
13,5 mm

The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

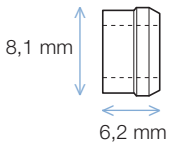


Stem : Aluminium | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F6	min-max (mm) Flanged 3LC-F6
	39,1	10,6	1,6							C6LT-C6-2	1,6 - 4,8	0,4 - 3,6
	40,7	12,2	3,2							C6LT-C6-3	3,2 - 6,4	2,0 - 5,2
	42,3	13,7	4,8							C6LT-C6-4	4,8 - 7,9	3,6 - 6,8
	43,9	15,3	6,4							C6LT-C6-5	6,4 - 9,5	5,2 - 8,4
	45,4	16,9	7,9							C6LT-C6-6	7,9 - 11,1	6,8 - 9,9
	47,0	18,5	9,5							C6LT-C6-7	9,5 - 12,7	8,4 - 11,5
	48,6	20,1	11,1							C6LT-C6-8	11,1 - 14,3	9,9 - 13,1
	50,2	21,7	12,7							C6LT-C6-9	12,7 - 15,9	11,5 - 14,7
	51,8	23,3	14,3							C6LT-C6-10	14,3 - 17,5	13,1 - 16,3
	53,4	24,9	15,9							C6LT-C6-11	15,9 - 19,1	14,7 - 17,9
	55,0	26,4	17,5							C6LT-C6-12	17,5 - 20,6	16,3 - 19,5
	56,6	28,0	19,1							C6LT-C6-13	19,1 - 22,2	17,9 - 21,1
	58,1	29,6	20,6							C6LT-C6-14	20,6 - 23,8	19,5 - 22,6
	59,7	31,2	22,2							C6LT-C6-15	22,2 - 25,4	21,1 - 24,2
	61,3	32,8	23,8							C6LT-C6-16	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,9	34,4	25,4	11,9	2,3	5,0 - 5,2	4,4	4,7	2,4	C6LT-C6-17	25,4 - 28,6	24,2 - 27,4
	64,5	36,0	27,0							C6LT-C6-18	27,0 - 30,2	25,8 - 29,0
	66,1	37,6	28,6							C6LT-C6-19	28,6 - 31,8	27,4 - 30,6
	67,7	39,1	30,2							C6LT-C6-20	30,2 - 33,3	29,0 - 32,2
	69,3	40,7	31,8							C6LT-C6-21	31,8 - 34,9	30,6 - 33,8
	70,8	42,3	33,3							C6LT-C6-22	33,3 - 36,5	32,2 - 35,3
	72,4	43,9	34,9							C6LT-C6-23	34,9 - 38,1	33,8 - 36,9
	74,0	45,5	36,5							C6LT-C6-24	36,5 - 39,7	35,3 - 38,5
	75,6	47,1	38,1							C6LT-C6-25	38,1 - 41,3	36,9 - 40,1
	77,2	48,7	39,7							C6LT-C6-26	39,7 - 42,9	38,5 - 41,7
	78,8	50,3	41,3							C6LT-C6-27	41,3 - 44,5	40,1 - 43,3
	80,4	51,8	42,9							C6LT-C6-28	42,9 - 46,0	41,7 - 44,9
	82,0	53,4	44,5							C6LT-C6-29	44,5 - 47,6	43,3 - 46,5
	83,5	55,0	46,0							C6LT-C6-30	46,0 - 49,2	44,9 - 48,0
	85,1	56,6	47,6							C6LT-C6-31	47,6 - 50,8	46,5 - 49,6
	86,7	58,2	49,2							C6LT-C6-32	49,2 - 52,4	48,0 - 51,2

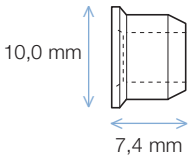
Standard

2LC-F6



Flanged

3LC-F6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

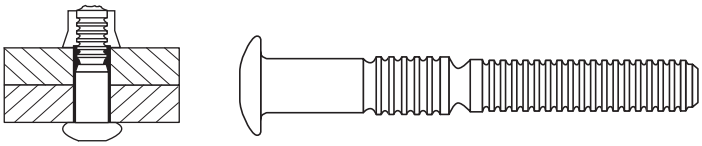
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

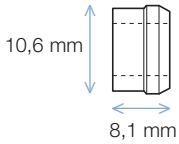


Tige : Aluminium | Tête : Plate

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F8	min-max (mm) Flanged 3LC-F8
	42,0	12,9	1,6							C6LT-C8-2	1,6 - 4,8	0,0 - 3,2
	43,6	14,5	3,2							C6LT-C8-3	3,2 - 6,4	1,6 - 4,8
	45,2	16,1	4,8							C6LT-C8-4	4,8 - 7,9	3,2 - 6,3
	46,8	17,6	6,4							C6LT-C8-5	6,4 - 9,5	4,8 - 7,9
	48,4	19,2	7,9							C6LT-C8-6	7,9 - 11,1	6,3 - 9,5
	50,0	20,8	9,5							C6LT-C8-7	9,5 - 12,7	7,9 - 11,1
	51,6	22,4	11,1							C6LT-C8-8	11,1 - 14,3	9,5 - 12,7
	53,2	24,0	12,7							C6LT-C8-9	12,7 - 15,9	11,1 - 14,3
	54,7	25,6	14,3							C6LT-C8-10	14,3 - 17,5	12,7 - 15,9
	56,3	27,2	15,9							C6LT-C8-11	15,9 - 19,1	14,3 - 17,5
	57,9	28,8	17,5							C6LT-C8-12	17,5 - 20,6	15,9 - 19,0
	59,5	30,3	19,1							C6LT-C8-13	19,1 - 22,2	17,5 - 20,6
	61,1	31,9	20,6							C6LT-C8-14	20,6 - 23,8	19,0 - 22,2
	62,7	33,5	22,2							C6LT-C8-15	22,2 - 25,4	20,6 - 23,8
	64,3	35,1	23,8							C6LT-C8-16	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,9	36,7	25,4	15,1	3,0	6,6 - 6,8	8,0	8,3	4,2	C6LT-C8-17	25,4 - 28,6	23,8 - 27,0
	67,4	38,3	27,0							C6LT-C8-18	27,0 - 30,2	25,4 - 28,6
	69,0	39,9	28,6							C6LT-C8-19	28,6 - 31,8	27,0 - 30,2
	70,6	41,5	30,2							C6LT-C8-20	30,2 - 33,3	28,6 - 31,7
	72,2	43,0	31,8							C6LT-C8-21	31,8 - 34,9	30,2 - 33,3
	73,8	44,6	33,3							C6LT-C8-22	33,3 - 36,5	31,7 - 34,9
	75,4	46,2	34,9							C6LT-C8-23	34,9 - 38,1	33,3 - 36,5
	77,0	47,8	36,5							C6LT-C8-24	36,5 - 39,7	34,9 - 38,1
	78,6	49,4	38,1							C6LT-C8-25	38,1 - 41,3	36,5 - 39,7
	80,1	51,0	39,7							C6LT-C8-26	39,7 - 42,9	38,1 - 41,3
	81,7	52,6	41,3							C6LT-C8-27	41,3 - 44,5	39,7 - 42,9
	83,3	54,2	42,9							C6LT-C8-28	42,9 - 46,0	41,3 - 44,4
	84,9	55,7	44,5							C6LT-C8-29	44,5 - 47,6	42,9 - 46,0
	86,5	57,3	46,0							C6LT-C8-30	46,0 - 49,2	44,4 - 47,6
	88,1	58,9	47,6							C6LT-C8-31	47,6 - 50,8	46 - 49,2
	89,7	60,5	49,2							C6LT-C8-32	49,2 - 52,4	47,6 - 50,8

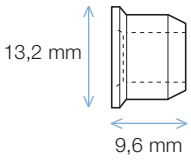
Standard

2LC-F8



Flanged

3LC-F8



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

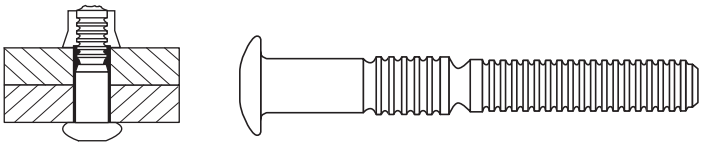
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

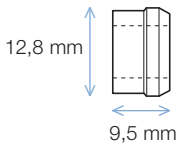


Stem : Aluminium | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F10	min-max (mm) Flanged 3LC-F10
7,9 8,05 - 8,18	51,9	19,7	3,2	20,2	3,6	8,2 - 8,3	12,7	13,0	6,7	C6LT-C10-4	3,2 - 9,5	1,2 - 7,5
	55,1	22,9	6,4							C6LT-C10-6	6,4 - 12,7	4,4 - 10,7
	58,3	26,1	9,5							C6LT-C10-8	9,5 - 15,9	7,5 - 13,9
	61,5	29,2	12,7							C6LT-C10-10	12,7 - 19,1	10,7 - 17,1
	64,6	32,4	15,9							C6LT-C10-12	15,9 - 22,2	13,9 - 20,2
	67,8	35,6	19,1							C6LT-C10-14	19,1 - 25,4	17,1 - 23,4
	71,0	38,8	22,2							C6LT-C10-16	22,2 - 28,6	20,2 - 26,6
	74,2	41,9	25,4							C6LT-C10-18	25,4 - 31,8	23,4 - 29,8
	77,3	45,1	28,6							C6LT-C10-20	28,6 - 34,9	26,6 - 32,9
	80,5	48,3	31,8							C6LT-C10-22	31,8 - 38,1	29,8 - 36,1
	83,7	51,5	34,9							C6LT-C10-24	34,9 - 41,3	32,9 - 39,3
	86,9	54,6	38,1							C6LT-C10-26	38,1 - 44,5	36,1 - 42,5
	90,0	57,8	41,3							C6LT-C10-28	41,3 - 47,6	39,3 - 45,6
	93,2	61,0	44,5							C6LT-C10-30	44,5 - 50,8	42,5 - 48,8
	96,4	64,2	47,6							C6LT-C10-32	47,6 - 54,0	45,6 - 52,0

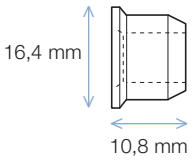
Standard

2LC-F10



Flanged

3LC-F10

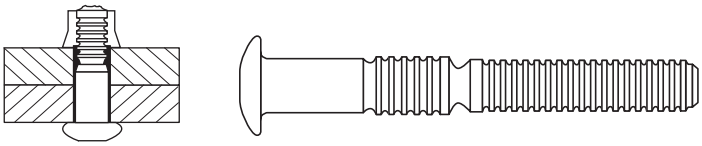


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® C Lockbolt - Aluminium

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

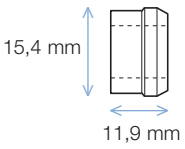


Stem : Aluminium | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC-F12	min-max (mm) Flanged 3LC-F12
9,5 9,65 - 9,78	57,3	21,7	3,2	23,4	4,3	9,8 - 9,9	18,7	18,7	9,8	C6LT-C12-4	3,2 - 9,5	0,8 - 7,1
	60,5	24,8	6,4							C6LT-C12-6	6,4 - 12,7	4,0 - 10,3
	63,7	28,0	9,5							C6LT-C12-8	9,5 - 15,9	7,1 - 13,5
	66,8	31,2	12,7							C6LT-C12-10	12,7 - 19,1	10,3 - 16,7
	70,0	34,4	15,9							C6LT-C12-12	15,9 - 22,2	13,5 - 19,8
	73,2	37,5	19,1							C6LT-C12-14	19,1 - 25,4	16,7 - 23,0
	76,4	40,7	22,2							C6LT-C12-16	22,2 - 28,6	19,8 - 26,2
	79,5	43,9	25,4							C6LT-C12-18	25,4 - 31,8	23,0 - 29,4
	82,7	47,1	28,6							C6LT-C12-20	28,6 - 34,9	26,2 - 32,5
	85,9	50,2	31,8							C6LT-C12-22	31,8 - 38,1	29,4 - 35,7
	89,1	53,4	34,9							C6LT-C12-24	34,9 - 41,3	32,5 - 38,9
	92,2	56,6	38,1							C6LT-C12-26	38,1 - 44,5	35,7 - 42,1
	95,4	59,8	41,3							C6LT-C12-28	41,3 - 47,6	38,9 - 45,2
	98,6	62,9	44,5							C6LT-C12-30	44,5 - 50,8	42,1 - 48,4
	101,8	66,1	47,6							C6LT-C12-32	47,6 - 54,0	45,2 - 51,6

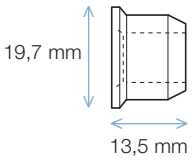
Standard

2LC-F12



Flanged

3LC-F12

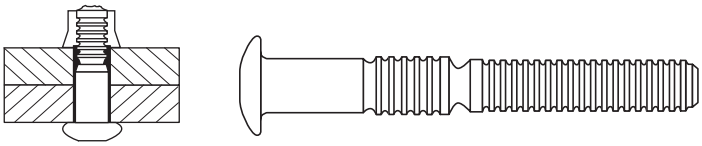


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

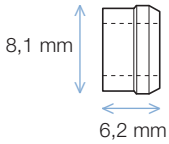


Stem : Aluminium 6061 | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I6	min-max (mm) Flanged 3LC-I6
	39,1	10,6	1,6							C6LT-F6-2	1,6 - 4,8	0,4 - 3,6
	40,7	12,2	3,2							C6LT-F6-3	3,2 - 6,4	2,0 - 5,2
	42,3	13,7	4,8							C6LT-F6-4	4,8 - 7,9	3,6 - 6,8
	43,9	15,3	6,4							C6LT-F6-5	6,4 - 9,5	5,2 - 8,4
	45,4	16,9	7,9							C6LT-F6-6	7,9 - 11,1	6,8 - 9,9
	47,0	18,5	9,5							C6LT-F6-7	9,5 - 12,7	8,4 - 11,5
	48,6	20,1	11,1							C6LT-F6-8	11,1 - 14,3	9,9 - 13,1
	50,2	21,7	12,7							C6LT-F6-9	12,7 - 15,9	11,5 - 14,7
	51,8	23,3	14,3							C6LT-F6-10	14,3 - 17,5	13,1 - 16,3
	53,4	24,9	15,9							C6LT-F6-11	15,9 - 19,1	14,7 - 17,9
	55,0	26,4	17,5							C6LT-F6-12	17,5 - 20,6	16,3 - 19,5
	56,6	28,0	19,1							C6LT-F6-13	19,1 - 22,2	17,9 - 21,1
	58,1	29,6	20,6							C6LT-F6-14	20,6 - 23,8	19,5 - 22,6
	59,7	31,2	22,2							C6LT-F6-15	22,2 - 25,4	21,1 - 24,2
	61,3	32,8	23,8							C6LT-F6-16	23,8 - 27,0	22,6 - 25,8
4,8 4,85 - 4,95	62,9	34,4	25,4	11,9	2,3	5,0 - 5,2	2,4	3,4	1,6	C6LT-F6-17	25,4 - 28,6	24,2 - 27,4
	64,5	36,0	27,0							C6LT-F6-18	27,0 - 30,2	25,8 - 29,0
	66,1	37,6	28,6							C6LT-F6-19	28,6 - 31,8	27,4 - 30,6
	67,7	39,1	30,2							C6LT-F6-20	30,2 - 33,3	29,0 - 32,2
	69,3	40,7	31,8							C6LT-F6-21	31,8 - 34,9	30,6 - 33,8
	70,8	42,3	33,3							C6LT-F6-22	33,3 - 36,5	32,2 - 35,3
	72,4	43,9	34,9							C6LT-F6-23	34,9 - 38,1	33,8 - 36,9
	74,0	45,5	36,5							C6LT-F6-24	36,5 - 39,7	35,3 - 38,5
	75,6	47,1	38,1							C6LT-F6-25	38,1 - 41,3	36,9 - 40,1
	77,2	48,7	39,7							C6LT-F6-26	39,7 - 42,9	38,5 - 41,7
	78,8	50,3	41,3							C6LT-F6-27	41,3 - 44,5	40,1 - 43,3
	80,4	51,8	42,9							C6LT-F6-28	42,9 - 46,0	41,7 - 44,9
	82,0	53,4	44,5							C6LT-F6-29	44,5 - 47,6	43,3 - 46,5
	83,5	55,0	46,0							C6LT-F6-30	46,0 - 49,2	44,9 - 48,0
	85,1	56,6	47,6							C6LT-F6-31	47,6 - 50,8	46,5 - 49,6
	86,7	58,2	49,2							C6LT-F6-32	49,2 - 52,4	48,0 - 51,2

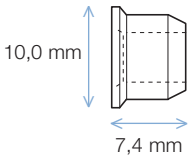
Standard

LC-I6



Flanged

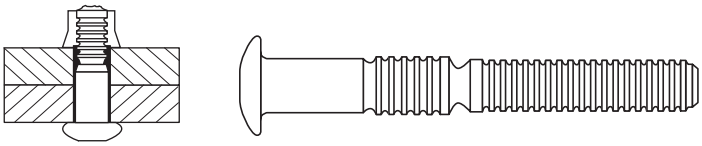
3LC-I6



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt -Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

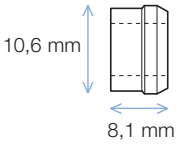


Stem : Aluminium 6061 | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I8	min-max (mm) Flanged 3LC-I8
	42,0	12,9	1,6							C6LT-F8-2	1,6 - 4,8	0,0 - 3,2
	43,6	14,5	3,2							C6LT-F8-3	3,2 - 6,4	1,6 - 4,8
	45,2	16,1	4,8							C6LT-F8-4	4,8 - 7,9	3,2 - 6,3
	46,8	17,6	6,4							C6LT-F8-5	6,4 - 9,5	4,8 - 7,9
	48,4	19,2	7,9							C6LT-F8-6	7,9 - 11,1	6,3 - 9,5
	50,0	20,8	9,5							C6LT-F8-7	9,5 - 12,7	7,9 - 11,1
	51,6	22,4	11,1							C6LT-F8-8	11,1 - 14,3	9,5 - 12,7
	53,2	24,0	12,7							C6LT-F8-9	12,7 - 15,9	11,1 - 14,3
	54,7	25,6	14,3							C6LT-F8-10	14,3 - 17,5	12,7 - 15,9
	56,3	27,2	15,9							C6LT-F8-11	15,9 - 19,1	14,3 - 17,5
	57,9	28,8	17,5							C6LT-F8-12	17,5 - 20,6	15,9 - 19,0
	59,5	30,3	19,1							C6LT-F8-13	19,1 - 22,2	17,5 - 20,6
	61,1	31,9	20,6							C6LT-F8-14	20,6 - 23,8	19,0 - 22,2
	62,7	33,5	22,2							C6LT-F8-15	22,2 - 25,4	20,6 - 23,8
	64,3	35,1	23,8							C6LT-F8-16	23,8 - 27,0	22,2 - 25,4
6,4 6,45 - 6,58	65,9	36,7	25,4	15,1	3,0	6,6 - 6,8	4,3	6,1	2,8	C6LT-F8-17	25,4 - 28,6	23,8 - 27,0
	67,4	38,3	27,0							C6LT-F8-18	27,0 - 30,2	25,4 - 28,6
	69,0	39,9	28,6							C6LT-F8-19	28,6 - 31,8	27,0 - 30,2
	70,6	41,5	30,2							C6LT-F8-20	30,2 - 33,3	28,6 - 31,7
	72,2	43,0	31,8							C6LT-F8-21	31,8 - 34,9	30,2 - 33,3
	73,8	44,6	33,3							C6LT-F8-22	33,3 - 36,5	31,7 - 34,9
	75,4	46,2	34,9							C6LT-F8-23	34,9 - 38,1	33,3 - 36,5
	77,0	47,8	36,5							C6LT-F8-24	36,5 - 39,7	34,9 - 38,1
	78,6	49,4	38,1							C6LT-F8-25	38,1 - 41,3	36,5 - 39,7
	80,1	51,0	39,7							C6LT-F8-26	39,7 - 42,9	38,1 - 41,3
	81,7	52,6	41,3							C6LT-F8-27	41,3 - 44,5	39,7 - 42,9
	83,3	54,2	42,9							C6LT-F8-28	42,9 - 46,0	41,3 - 44,4
	84,9	55,7	44,5							C6LT-F8-29	44,5 - 47,6	42,9 - 46,0
	86,5	57,3	46,0							C6LT-F8-30	46,0 - 49,2	44,4 - 47,6
	88,1	58,9	47,6							C6LT-F8-31	47,6 - 50,8	46 - 49,2
	89,7	60,5	49,2							C6LT-F8-32	49,2 - 52,4	47,6 - 50,8

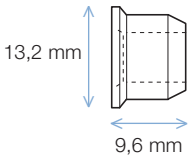
Standard

LC-I8



Flanged

3LC-I8



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

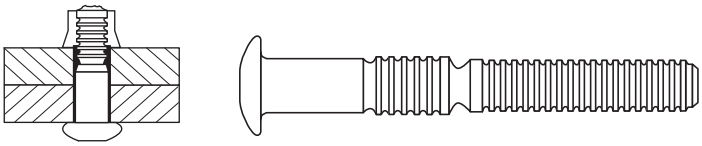
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

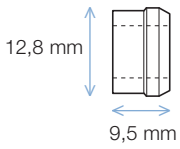


Stem : Aluminium 6061 | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I10	min-max (mm) Flanged 3LC-I10
7,9 8,05 - 8,18	51,9	19,7	3,2	20,2	3,6	8,2 - 8,3	6,9	9,5	4,3	C6LT-F10-4	3,2 - 9,5	1,2 - 7,5
	55,1	22,9	6,4							C6LT-F10-6	6,4 - 12,7	4,4 - 10,7
	58,3	26,1	9,5							C6LT-F10-8	9,5 - 15,9	7,5 - 13,9
	61,5	29,2	12,7							C6LT-F10-10	12,7 - 19,1	10,7 - 17,1
	64,6	32,4	15,9							C6LT-F10-12	15,9 - 22,2	13,9 - 20,2
	67,8	35,6	19,1							C6LT-F10-14	19,1 - 25,4	17,1 - 23,4
	71,0	38,8	22,2							C6LT-F10-16	22,2 - 28,6	20,2 - 26,6
	74,2	41,9	25,4							C6LT-F10-18	25,4 - 31,8	23,4 - 29,8
	77,3	45,1	28,6							C6LT-F10-20	28,6 - 34,9	26,6 - 32,9
	80,5	48,3	31,8							C6LT-F10-22	31,8 - 38,1	29,8 - 36,1
	83,7	51,5	34,9							C6LT-F10-24	34,9 - 41,3	32,9 - 39,3
	86,9	54,6	38,1							C6LT-F10-26	38,1 - 44,5	36,1 - 42,5
	90,0	57,8	41,3							C6LT-F10-28	41,3 - 47,6	39,3 - 45,6
	93,2	61,0	44,5							C6LT-F10-30	44,5 - 50,8	42,5 - 48,8
	96,4	64,2	47,6							C6LT-F10-32	47,6 - 54,0	45,6 - 52,0

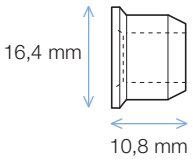
Standard

LC-I10



Flanged

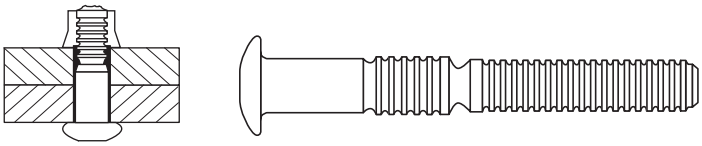
3LC-I10



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C6L® F Lockbolt - Aluminium 6061

- High sustainability and high resistance to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range
- Wide flange collar available: enables installation into non metallic materials

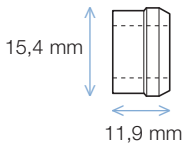


Stem : Aluminium 6061 | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-I12	min-max (mm) Flanged 3LC-I12
9,5 9,65 - 9,78	57,3	21,7	3,2	23,4	4,3	9,9	10,7	13,6	6,1	C6LT-F12-4	3,2 - 9,5	0,8 - 7,1
	60,5	24,8	6,4							C6LT-F12-6	6,4 - 12,7	4,0 - 10,3
	63,7	28,0	9,5							C6LT-F12-8	9,5 - 15,9	7,1 - 13,5
	66,8	31,2	12,7							C6LT-F12-10	12,7 - 19,1	10,3 - 16,7
	70,0	34,4	15,9							C6LT-F12-12	15,9 - 22,2	13,5 - 19,8
	73,2	37,5	19,1							C6LT-F12-14	19,1 - 25,4	16,7 - 23,0
	76,4	40,7	22,2							C6LT-F12-16	22,2 - 28,6	19,8 - 26,2
	79,5	43,9	25,4							C6LT-F12-18	25,4 - 31,8	23,0 - 29,4
	82,7	47,1	28,6							C6LT-F12-20	28,6 - 34,9	26,2 - 32,5
	85,9	50,2	31,8							C6LT-F12-22	31,8 - 38,1	29,4 - 35,7
	89,1	53,4	34,9							C6LT-F12-24	34,9 - 41,3	32,5 - 38,9
	92,2	56,6	38,1							C6LT-F12-26	38,1 - 44,5	35,7 - 42,1
	95,4	59,8	41,3							C6LT-F12-28	41,3 - 47,6	38,9 - 45,2
	98,6	62,9	44,5							C6LT-F12-30	44,5 - 50,8	42,1 - 48,4
	101,8	66,1	47,6							C6LT-F12-32	47,6 - 54,0	45,2 - 51,6

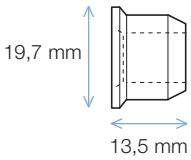
Standard

LC-I12



Flanged

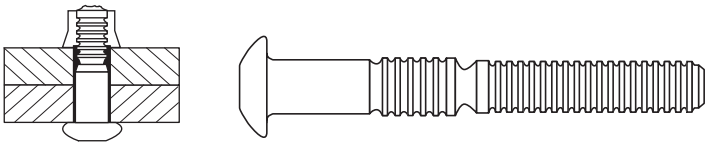
3LC-I12



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

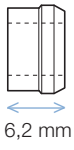


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R6G	min-max (mm) Flanged 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

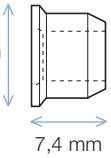
Standard

2LC120-R6G 8,1 mm



Flanged

3LC120-2R6G 10,0 mm



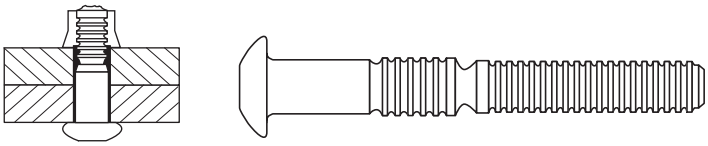
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

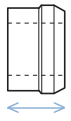


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R8G	min-max (mm) Flanged 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

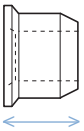
2LC120-R8G 10,6 mm



8,1 mm

Flanged

3LC120-2R8G 13,2 mm



9,6 mm

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

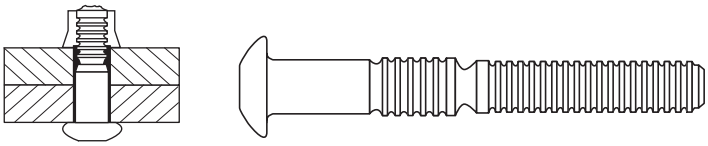
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

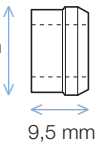


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R10G	min-max (mm) Flanged 3LC120-2R10G
	51,9	19,7	3,2							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 - 26,59
7,9	74,2	41,9	25,4	16,5	5,1	8,2 - 8,3	28,0	29,8	18,7	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

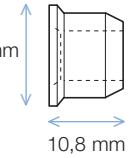
Standard

2LC120-R10G 12,8 mm



Flanged

3LC120-2R10G 16,4 mm

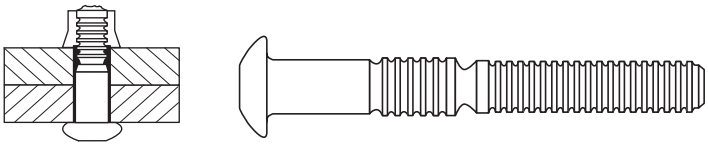


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

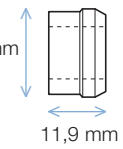


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R12G	min-max (mm) Flanged 3LC120-2R12G
9,5 9,65 - 9,78	57,3	21,7	3,2	19,8	6,3	9,9	41,4	42,7	22,2	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
	79,5	43,9	25,4							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

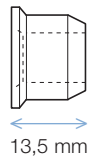
Standard

2LC120-R12G 15,4 mm



Flanged

3LC120-2R12G 19,7 mm

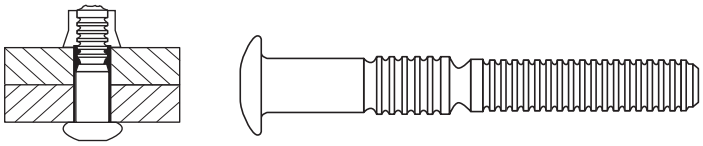


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

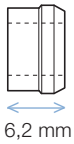


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R6G	min-max (mm) Flanged 3LC120-2R6G
	39,1	10,6	1,6							C120LT-R6-2G	1,59 - 4,76	0,42 - 3,59
	40,7	12,2	3,2							C120LT-R6-3G	3,18 - 6,35	2,01 - 5,18
	42,3	13,7	4,8							C120LT-R6-4G	4,76 - 7,94	3,59 - 6,77
	43,9	15,3	6,4							C120LT-R6-5G	6,35 - 9,53	5,18 - 8,36
	45,4	16,9	7,9							C120LT-R6-6G	7,94 - 11,11	6,77 - 9,94
	47,0	18,5	9,5							C120LT-R6-7G	9,53 - 12,70	8,36 - 11,53
	48,6	20,1	11,1							C120LT-R6-8G	11,11 - 14,29	9,94 - 13,12
	50,2	21,7	12,7							C120LT-R6-9G	12,70 - 15,88	11,53 - 14,71
	51,8	23,3	14,3							C120LT-R6-10G	14,29 - 17,46	13,12 - 16,29
	53,4	24,9	15,9							C120LT-R6-11G	15,88 - 19,05	14,71 - 17,88
	55,0	26,4	17,5							C120LT-R6-12G	17,46 - 20,64	16,29 - 19,47
	56,6	28,0	19,1							C120LT-R6-13G	19,05 - 22,23	17,88 - 21,06
	58,1	29,6	20,6							C120LT-R6-14G	20,64 - 23,81	19,47 - 22,64
	59,7	31,2	22,2							C120LT-R6-15G	22,23 - 25,40	21,06 - 24,23
	61,3	32,8	23,8							C120LT-R6-16G	23,81 - 26,99	22,64 - 25,82
4,8	62,9	34,4	25,4	11,9	2,3	5,0 - 5,2	9,8	10,8	5,3	C120LT-R6-17G	25,40 - 28,58	24,23 - 27,41
	64,5	36,0	27,0							C120LT-R6-18G	26,99 - 30,16	25,82 - 28,99
	66,1	37,6	28,6							C120LT-R6-19G	28,58 - 31,75	27,41 - 30,58
	67,7	39,1	30,2							C120LT-R6-20G	30,16 - 33,34	28,99 - 32,17
	69,3	40,7	31,8							C120LT-R6-21G	31,75 - 34,93	30,58 - 33,76
	70,8	42,3	33,3							C120LT-R6-22G	33,34 - 36,51	32,17 - 35,34
	72,4	43,9	34,9							C120LT-R6-23G	34,93 - 38,10	33,76 - 36,93
	74,0	45,5	36,5							C120LT-R6-24G	36,51 - 39,69	35,34 - 38,52
	75,6	47,1	38,1							C120LT-R6-25G	38,10 - 41,28	36,93 - 40,11
	77,2	48,7	39,7							C120LT-R6-26G	39,69 - 42,86	38,52 - 41,69
	78,8	50,3	41,3							C120LT-R6-27G	41,28 - 44,45	40,11 - 43,28
	80,4	51,8	42,9							C120LT-R6-28G	42,86 - 46,04	41,69 - 44,87
	82,0	53,4	44,5							C120LT-R6-29G	44,45 - 47,63	43,28 - 46,46
	83,5	55,0	46,0							C120LT-R6-30G	46,04 - 49,21	44,87 - 48,04
	85,1	56,6	47,6							C120LT-R6-31G	47,63 - 50,80	46,46 - 49,63
	86,7	58,2	49,2							C120LT-R6-32G	49,21 - 52,39	48,04 - 51,22

Standard

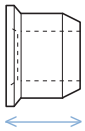
2LC120-R6G 8,1 mm



6,2 mm

Flanged

3LC120-2R6G 10,0 mm



7,4 mm

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

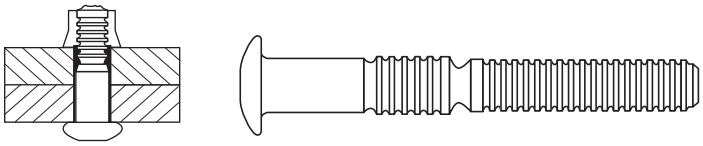
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

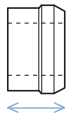


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R8G	min-max (mm) Flanged 3LC120-2R8G
	42,0	12,9	1,6							C120LT-R8-2G	1,59 - 4,76	0,01 - 3,16
	43,6	14,5	3,2							C120LT-R8-3G	3,18 - 6,35	1,57 - 4,75
	45,2	16,1	4,8							C120LT-R8-4G	4,76 - 7,94	3,16 - 6,34
	46,8	17,6	6,4							C120LT-R8-5G	6,35 - 9,53	4,75 - 7,92
	48,4	19,2	7,9							C120LT-R8-6G	7,94 - 11,11	6,34 - 9,51
	50,0	20,8	9,5							C120LT-R8-7G	7,94 - 11,11	7,92 - 11,10
	51,6	22,4	11,1							C120LT-R8-8G	11,11 - 14,29	9,51 - 12,69
	53,2	24,0	12,7							C120LT-R8-9G	12,70 - 15,88	11,10 - 14,27
	54,7	25,6	14,3							C120LT-R8-10G	14,29 - 17,46	12,69 - 15,86
	56,3	27,2	15,9							C120LT-R8-11G	15,88 - 19,05	14,27 - 17,45
	57,9	28,8	17,5							C120LT-R8-12G	17,46 - 20,64	15,86 - 19,04
	59,5	30,3	19,1							C120LT-R8-13G	19,05 - 22,23	17,45 - 20,62
	61,1	31,9	20,6							C120LT-R8-14G	20,64 - 23,81	19,04 - 22,21
	62,7	33,5	22,2							C120LT-R8-15G	22,23 - 25,40	20,62 - 23,80
	64,3	35,1	23,8							C120LT-R8-16G	23,81 - 26,99	22,21 - 25,39
6,4	65,9	36,7	25,4	15,1	3,0	6,6 - 6,8	16,9	19,1	10,2	C120LT-R8-17G	25,40 - 28,58	23,80 - 26,97
	67,4	38,3	27,0							C120LT-R8-18G	26,99 - 30,16	25,39 - 28,56
	69,0	39,9	28,6							C120LT-R8-19G	28,58 - 31,75	26,97 - 30,15
	70,6	41,5	30,2							C120LT-R8-20G	30,16 - 33,34	28,56 - 31,74
	72,2	43,0	31,8							C120LT-R8-21G	31,75 - 34,93	30,15 - 33,32
	73,8	44,6	33,3							C120LT-R8-22G	33,34 - 36,51	31,74 - 34,91
	75,4	46,2	34,9							C120LT-R8-23G	34,93 - 38,10	33,32 - 36,50
	77,0	47,8	36,5							C120LT-R8-24G	36,51 - 39,69	34,91 - 38,09
	78,6	49,4	38,1							C120LT-R8-25G	38,10 - 41,28	36,50 - 39,67
	80,1	51,0	39,7							C120LT-R8-26G	39,69 - 42,86	38,09 - 41,26
	81,7	52,6	41,3							C120LT-R8-27G	41,28 - 44,45	39,67 - 42,85
	83,3	54,2	42,9							C120LT-R8-28G	42,86 - 46,04	41,26 - 44,44
	84,9	55,7	44,5							C120LT-R8-29G	44,45 - 47,63	42,85 - 46,02
	86,5	57,3	46,0							C120LT-R8-30G	46,04 - 49,21	44,44 - 47,61
	88,1	58,9	47,6							C120LT-R8-31G	47,63 - 50,80	46,02 - 49,20
	89,7	60,5	49,2							C120LT-R8-32G	49,21 - 52,39	47,61 - 50,79

Standard

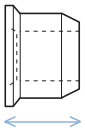
2LC120-R8G 10,6 mm



8,1 mm

Flanged

3LC120-2R8G 13,2 mm



9,6 mm

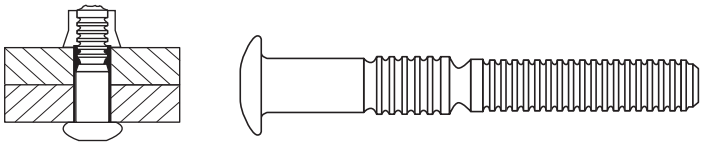
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

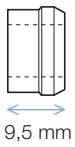


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R10G	min-max (mm) Flanged 3LC120-2R10G
	51,9	19,7	3,2							C120LT-R10-4G	3,18 - 9,53	1,19 - 7,54
	55,1	22,9	6,4							C120LT-R10-6G	6,35 - 12,70	4,37 - 10,72
	58,3	26,1	9,5							C120LT-R10-8G	9,53 - 15,88	7,54 - 13,89
	61,5	29,2	12,7							C120LT-R10-10G	12,70 - 19,05	10,72 - 17,07
	64,6	32,4	15,9							C120LT-R10-12G	15,88 - 22,23	13,89 - 20,24
	67,8	35,6	19,1							C120LT-R10-14G	19,05 - 25,40	17,07 - 23,42
	71,0	38,8	22,2							C120LT-R10-16G	22,23 - 28,58	20,24 - 26,59
7,9	74,2	41,9	25,4	20,2	3,6	8,2 - 8,3	28,0	29,8	18,7	C120LT-R10-18G	25,40 - 31,75	23,42 - 29,77
	77,3	45,1	28,6							C120LT-R10-20G	28,58 - 34,93	26,59 - 32,94
	80,5	48,3	31,8							C120LT-R10-22G	31,75 - 38,10	29,77 - 36,12
	83,7	51,5	34,9							C120LT-R10-24G	34,93 - 41,28	32,94 - 39,29
	86,9	54,6	38,1							C120LT-R10-26G	38,10 - 44,45	36,12 - 42,47
	90,0	57,8	41,3							C120LT-R10-28G	41,28 - 47,63	39,29 - 45,64
	93,2	61,0	44,5							C120LT-R10-30G	44,45 - 50,80	42,47 - 48,82
	96,4	64,2	47,6							C120LT-R10-32G	47,63 - 53,98	45,64 - 51,99

Standard

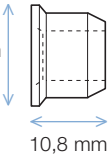
2LC120-R10G 12,8 mm



9,5 mm

Flanged

3LC120-2R10G 16,4 mm



10,8 mm

The articles codes in blue correspond to the core range (most commonly used references)

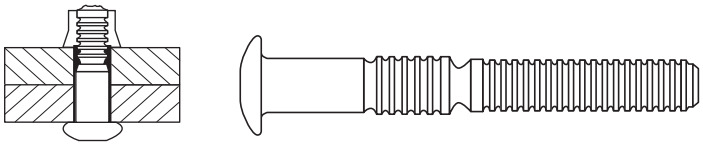
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)

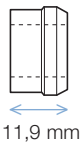


Stem : Steel | Head : Truss

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R12G	min-max (mm) Flanged 3LC120-2R12G
9,5 9,65 - 9,78	57,3	21,7	3,2	23,4	4,3	9,9	41,4	42,7	22,2	C120LT-R12-4G	3,18 - 9,53	0,79 - 7,14
	60,5	24,8	6,4							C120LT-R12-6G	6,35 - 12,70	3,96 - 10,31
	63,7	28,0	9,5							C120LT-R12-8G	9,53 - 15,88	7,14 - 13,49
	66,8	31,2	12,7							C120LT-R12-10G	12,70 - 19,05	10,31 - 16,66
	70,0	34,4	15,9							C120LT-R12-12G	15,88 - 22,23	13,49 - 19,84
	73,2	37,5	19,1							C120LT-R12-14G	19,05 - 25,40	16,66 - 23,01
	76,4	40,7	22,2							C120LT-R12-16G	22,23 - 28,58	19,84 - 26,16
	79,5	43,9	25,4							C120LT-R12-18G	25,40 - 31,75	23,01 - 29,36
	82,7	47,1	28,6							C120LT-R12-20G	28,58 - 34,93	26,19 - 32,54
	85,9	50,2	31,8							C120LT-R12-22G	31,75 - 38,10	29,36 - 35,71
	89,1	53,4	34,9							C120LT-R12-24G	34,93 - 41,28	32,54 - 38,89
	92,2	56,6	38,1							C120LT-R12-26G	38,10 - 44,45	35,71 - 42,06
	95,4	59,8	41,3							C120LT-R12-28G	41,28 - 47,63	38,89 - 45,24
	98,6	62,9	44,5							C120LT-R12-30G	44,45 - 50,80	42,06 - 48,41
	101,8	66,1	47,6							C120LT-R12-32G	47,63 - 53,98	45,24 - 51,59

Standard

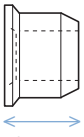
2LC120-R12G 15,4 mm



11,9 mm

Flanged

3LC120-2R12G 19,7 mm



13,5 mm

The articles codes in blue correspond to the core range (most commonly used references)

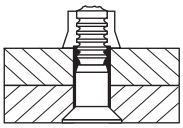
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

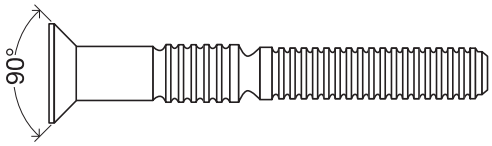
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)



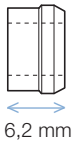


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R6G	min-max (mm) Flanged 3LC120-2R6G
	39,9	12,2	3,2							C120L90-R6-3G	3,18 - 6,35	2,01 - 5,18
	270,1	13,7	4,8							C120L90-R6-4G	4,76 - 7,94	3,59 - 6,77
	271,7	15,3	6,4							C120L90-R6-5G	6,35 - 9,53	5,18 - 8,36
	273,2	16,9	7,9							C120L90-R6-6G	7,94 - 11,11	6,77 - 9,94
	274,8	18,5	9,5							C120L90-R6-7G	9,53 - 12,70	8,36 - 11,53
	276,4	20,1	11,1							C120L90-R6-8G	11,11 - 14,29	9,94 - 13,12
	278,0	21,7	12,7							C120L90-R6-9G	12,70 - 15,88	11,53 - 14,71
	279,6	23,3	14,3							C120L90-R6-10G	14,29 - 17,46	13,12 - 16,29
	281,2	24,9	15,9							C120L90-R6-11G	15,88 - 19,05	14,71 - 17,88
	282,8	26,4	17,5							C120L90-R6-12G	17,46 - 20,64	16,29 - 19,47
	284,4	28,0	19,1							C120L90-R6-13G	19,05 - 22,23	17,88 - 21,06
	285,9	29,6	20,6							C120L90-R6-14G	20,64 - 23,81	19,47 - 22,64
	287,5	31,2	22,2							C120L90-R6-15G	22,23 - 25,40	21,06 - 24,23
	289,1	32,8	23,8							C120L90-R6-16G	23,81 - 26,99	22,64 - 25,82
4,8	290,7	34,4	25,4	9,1	2,2	5,0 - 5,2	9,8	10,8	5,3	C120L90-R6-17G	25,40 - 28,58	24,23 - 27,41
	292,3	36,0	27,0							C120L90-R6-18G	26,99 - 30,16	25,82 - 28,99
	293,9	37,6	28,6							C120L90-R6-19G	28,58 - 31,75	27,41 - 30,58
	295,5	39,1	30,2							C120L90-R6-20G	30,16 - 33,34	28,99 - 32,17
	297,1	40,7	31,8							C120L90-R6-21G	31,75 - 34,93	30,58 - 33,76
	298,6	42,3	33,3							C120L90-R6-22G	33,34 - 36,51	32,17 - 35,34
	300,2	43,9	34,9							C120L90-R6-23G	34,93 - 38,10	33,76 - 36,93
	301,8	45,5	36,5							C120L90-R6-24G	36,51 - 39,69	35,34 - 38,52
	303,4	47,1	38,1							C120L90-R6-25G	38,10 - 41,28	36,93 - 40,11
	305,0	48,7	39,7							C120L90-R6-26G	39,69 - 42,86	38,52 - 41,69
	306,6	50,3	41,3							C120L90-R6-27G	41,28 - 44,45	40,11 - 43,28
	308,2	51,8	42,9							C120L90-R6-28G	42,86 - 46,04	41,69 - 44,87
	309,8	53,4	44,5							C120L90-R6-29G	44,45 - 47,63	43,28 - 46,46
	311,3	55,0	46,0							C120L90-R6-30G	46,04 - 49,21	44,87 - 48,04
	312,9	56,6	47,6							C120L90-R6-31G	47,63 - 50,80	46,46 - 49,63
	314,5	58,2	49,2							C120L90-R6-32G	49,21 - 52,39	48,04 - 51,22

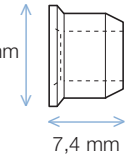
Standard

2LC120-R6G 8,1 mm



Flanged

3LC120-2R6G 10,0 mm



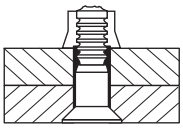
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

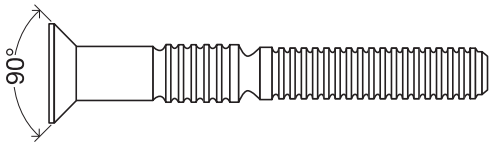
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)



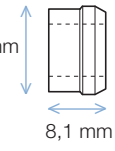


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R8G	min-max (mm) Flanged 3LC120-2R8G
6,4	43,1	14,5	3,2	12,1	2,9	6,6 - 6,8	16,9	19,1	10,2	C120L90-R8-3G	3,18 - 6,35	1,57 - 4,75
	1479,6	16,1	4,8							C120L90-R8-4G	4,76 - 7,94	3,16 - 6,34
	1481,2	17,6	6,4							C120L90-R8-5G	6,35 - 9,53	4,75 - 7,92
	1482,8	19,2	7,9							C120L90-R8-6G	7,94 - 11,11	6,34 - 9,51
	1484,4	20,8	9,5							C120L90-R8-7G	7,94 - 11,11	7,92 - 11,10
	1486,0	22,4	11,1							C120L90-R8-8G	11,11 - 14,29	9,51 - 12,69
	1487,6	24,0	12,7							C120L90-R8-9G	12,70 - 15,88	11,10 - 14,27
	1489,1	25,6	14,3							C120L90-R8-10G	14,29 - 17,46	12,69 - 15,86
	1490,7	27,2	15,9							C120L90-R8-11G	15,88 - 19,05	14,27 - 17,45
	1492,3	28,8	17,5							C120L90-R8-12G	17,46 - 20,64	15,86 - 19,04
	1493,9	30,3	19,1							C120L90-R8-13G	19,05 - 22,23	17,45 - 20,62
	1495,5	31,9	20,6							C120L90-R8-14G	20,64 - 23,81	19,04 - 22,21
	1497,1	33,5	22,2							C120L90-R8-15G	22,23 - 25,40	20,62 - 23,80
	1498,7	35,1	23,8							C120L90-R8-16G	23,81 - 26,99	22,21 - 25,39
	1500,3	36,7	25,4							C120L90-R8-17G	25,40 - 28,58	23,80 - 26,97
	1501,8	38,3	27,0							C120L90-R8-18G	26,99 - 30,16	25,39 - 28,56
	1503,4	39,9	28,6							C120L90-R8-19G	28,58 - 31,75	26,97 - 30,15
	1505,0	41,5	30,2							C120L90-R8-20G	30,16 - 33,34	28,56 - 31,74
	1506,6	43,0	31,8							C120L90-R8-21G	31,75 - 34,93	30,15 - 33,32
	1508,2	44,6	33,3							C120L90-R8-22G	33,34 - 36,51	31,74 - 34,91
	1509,8	46,2	34,9							C120L90-R8-23G	34,93 - 38,10	33,32 - 36,50
	1511,4	47,8	36,5							C120L90-R8-24G	36,51 - 39,69	34,91 - 38,09
	1513,0	49,4	38,1							C120L90-R8-25G	38,10 - 41,28	36,50 - 39,67
	1514,5	51,0	39,7							C120L90-R8-26G	39,69 - 42,86	38,09 - 41,26
	1516,1	52,6	41,3							C120L90-R8-27G	41,28 - 44,45	39,67 - 42,85
	1517,7	54,2	42,9							C120L90-R8-28G	42,86 - 46,04	41,26 - 44,44
	1519,3	55,7	44,5							C120L90-R8-29G	44,45 - 47,63	42,85 - 46,02
	1520,9	57,3	46,0							C120L90-R8-30G	46,04 - 49,21	44,44 - 47,61
	1522,5	58,9	47,6							C120L90-R8-31G	47,63 - 50,80	46,02 - 49,20
	1524,1	60,5	49,2							C120L90-R8-32G	49,21 - 52,39	47,61 - 50,79

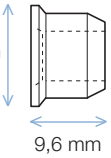
Standard

2LC120-R8G 10,6 mm



Flanged

3LC120-2R8G 13,2 mm



d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

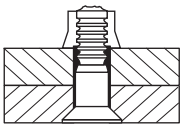
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

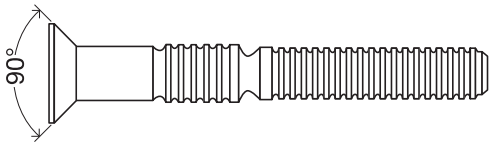
= Minimum shear strength - = Min. and Max. grip range

The articles codes in blue correspond to the core range (most commonly used references)

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)



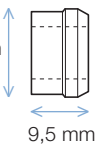


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R10G	min-max (mm) Flanged 3LC120-2R10G
	53,0	20,9	4,3							C120L90-R10-4G	3,18 - 9,53	1,19 - 7,54
	55,0	24,1	6,4							C120L90-R10-6G	6,35 - 12,70	4,37 - 10,72
	58,2	27,2	9,5							C120L90-R10-8G	9,53 - 15,88	7,54 - 13,89
	61,1	30,4	12,7							C120L90-R10-10G	12,70 - 19,05	10,72 - 17,07
	64,6	33,6	15,9							C120L90-R10-12G	15,88 - 22,23	13,89 - 20,24
	67,7	36,8	19,1							C120L90-R10-14G	19,05 - 25,40	17,07 - 23,42
	70,9	39,9	22,2							C120L90-R10-16G	22,23 - 28,58	20,24 - 26,59
7,9	74,1	43,1	25,4	15,2	3,6	8,2 - 8,3	28,0	29,8	18,7	C120L90-R10-18G	25,40 - 31,75	23,42 - 29,77
	77,3	46,3	28,6							C120L90-R10-20G	28,58 - 34,93	26,59 - 32,94
	80,4	49,5	31,8							C120L90-R10-22G	31,75 - 38,10	29,77 - 36,12
	83,6	52,6	34,9							C120L90-R10-24G	34,93 - 41,28	32,94 - 39,29
	86,8	55,8	38,1							C120L90-R10-26G	38,10 - 44,45	36,12 - 42,47
	90,0	59,0	41,3							C120L90-R10-28G	41,28 - 47,63	39,29 - 45,64
	93,1	62,2	44,5							C120L90-R10-30G	44,45 - 50,80	42,47 - 48,82
	96,3	64,2	47,6							C120L90-R10-32G	47,63 - 53,98	45,64 - 51,99

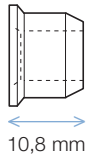
Standard

2LC120-R10G 12,8 mm



Flanged

3LC120-2R10G 16,4 mm



The articles codes in blue correspond to the core range (most commonly used references)

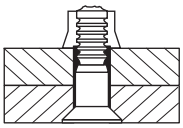
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

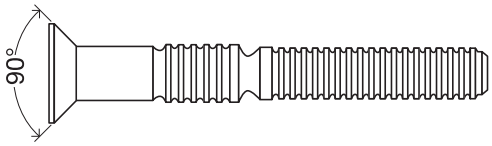
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C120L® R Lockbolt - Steel

- C120L® is a 8.8 grade small diameter LockBolt (improved version of C6L) with a semi-circular head, reduced and countersunk
- Standard stem and head (for a installation into non metallic materials)



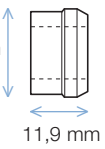


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard 2LC120-R12G	min-max (mm) Flanged 3LC120-2R12G
9,5 9,65 - 9,78	60,6	24,8	6,4	18,1	4,3	9,9	41,4	42,7	22,2	C120L90-R12-6G	6,35 - 12,70	3,96 - 10,31
	63,8	28,0	9,5							C120L90-R12-8G	9,53 - 15,88	7,14 - 13,49
	66,9	31,2	12,7							C120L90-R12-10G	12,70 - 19,05	10,31 - 16,66
	70,1	34,4	15,9							C120L90-R12-12G	15,88 - 22,23	13,49 - 19,84
	73,3	37,5	19,1							C120L90-R12-14G	19,05 - 25,40	16,66 - 23,01
	76,5	40,7	22,2							C120L90-R12-16G	22,23 - 28,58	19,84 - 26,16
	79,6	43,9	25,4							C120L90-R12-18G	25,40 - 31,75	23,01 - 29,36
	82,8	47,1	28,6							C120L90-R12-20G	28,58 - 34,93	26,19 - 32,54
	86,0	50,2	31,8							C120L90-R12-22G	31,75 - 38,10	29,36 - 35,71
	89,2	53,4	34,9							C120L90-R12-24G	34,93 - 41,28	32,54 - 38,89
	92,3	56,6	38,1							C120L90-R12-26G	38,10 - 44,45	35,71 - 42,06
	95,5	59,8	41,3							C120L90-R12-28G	41,28 - 47,63	38,89 - 45,24
	98,7	62,9	44,5							C120L90-R12-30G	44,45 - 50,80	42,06 - 48,41
	101,9	66,1	47,6							C120L90-R12-32G	47,63 - 53,98	45,24 - 51,59

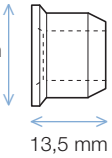
Standard

2LC120-R12G 15,4 mm



Flanged

3LC120-2R12G 19,7 mm

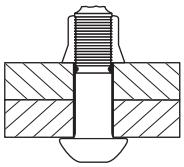


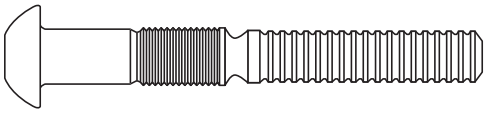
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



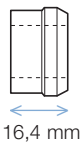


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R16G	min-max (mm) Flanged 3LC-2R16G
12,7 12,52 - 13,08	85,3	31,6	4,8	23,6	8,1	13,1 - 14,3	75,8	64,1	53,6	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
	155,2	101,4	74,6							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

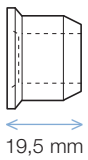
LC-2R16G 20,5 mm



16,4 mm

Flanged

3LC-2R16G 26,4 mm



19,5 mm

The articles codes in blue correspond to the core range (most commonly used references)

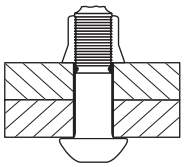
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

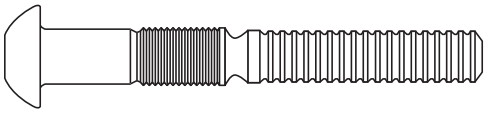
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



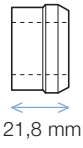


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R20G	min-max (mm) Flanged 3LC-2R20G
15,9 15,67 - 16,31	97,6	37,2	4,8	30,4	11,0	17,5	120,5	100,1	85,4	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
	167,5	107,0	74,6							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

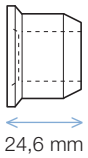
LC-2R20G 25,0 mm



21,8 mm

Flanged

3LC-2R20G 32,5 mm



24,6 mm

The articles codes in blue correspond to the core range (most commonly used references)

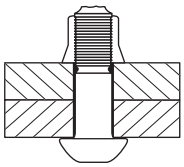
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

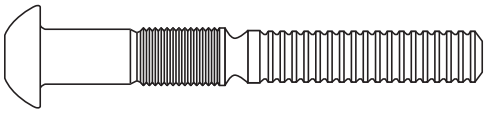
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



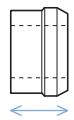


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R24G	min-max (mm) Flanged 3LC-2R24G
19,1 18,82 - 19,51	110,3	39,3	4,8	36,5	13,5	20,6	178,4	144,1	126,3	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
	180,2	109,2	74,6							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

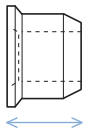
LC-2R24G 30,1 mm



24,5 mm

Flanged

3LC-2R24G 38,7 mm



29,4 mm

The articles codes in blue correspond to the core range (most commonly used references)

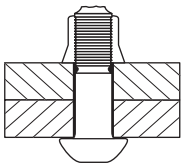
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

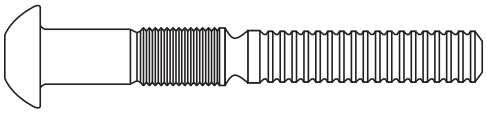
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



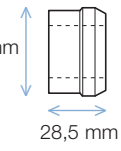


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R28G	Flanged 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

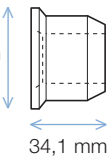
Standard

LC-2R28G 35,1 mm



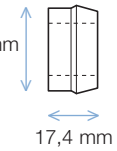
Flanged

3LC-2R28G 41,1 mm



Low Profile

8LC-2R28G 25,1 mm

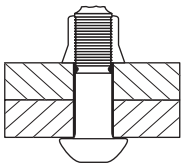


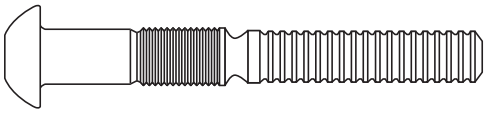
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



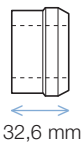


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R32G	min-max (mm) Flanged 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

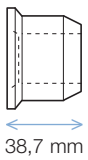
LC-2R32G 40,0 mm



32,6 mm

Flanged

3LC-2R32G 48,3 mm



38,7 mm

The articles codes in blue correspond to the core range (most commonly used references)

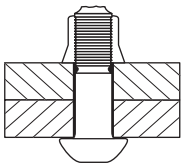
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

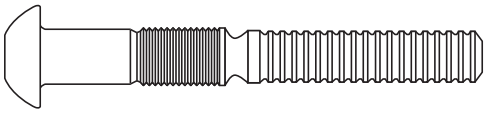
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



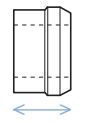


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load 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 45,1 mm

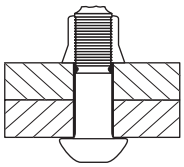


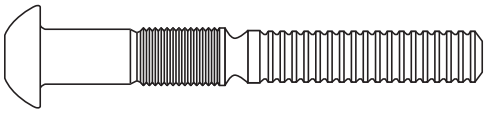
36,7 mm

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Stainless steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



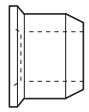


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Flanged 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

Flanged

3LC-2CU16 48,3 mm



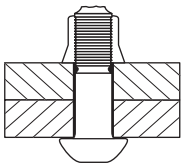
38,7 mm

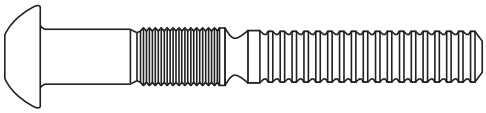
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Inox

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



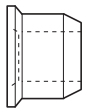


Stem : Stainless steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Flanged 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

Flanged

3LC-2CU20 41,1 mm



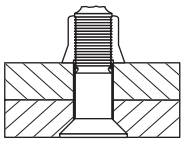
34,1 mm

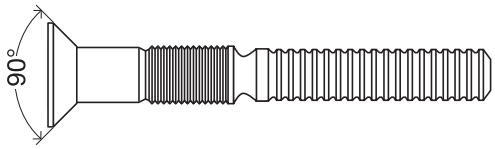
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



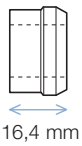


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R16G	min-max (mm) Flanged 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

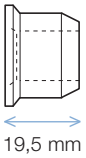
Standard

LC-2R16G 20,5 mm



Flanged

3LC-2R16G 26,4 mm

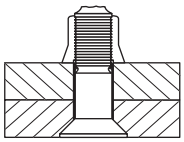


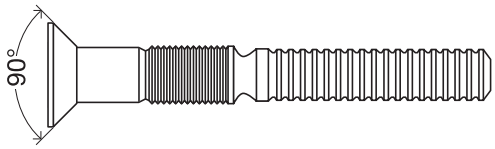
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



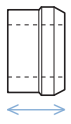


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R20G	min-max (mm) Flanged 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

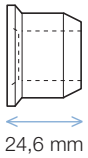
Standard

LC-2R20G 25,0 mm



Flanged

3LC-2R20G 32,5 mm

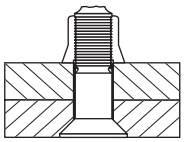


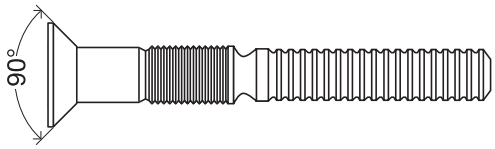
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Minimum shear strength - = Min. and Max. grip range

C50L® Lockbolt - Steel

- Fasteners suitable for extreme conditions
- 8.8 grade large diameter LockBolt
- High resistance to vibrations
- Easy visual inspection of the installation quality



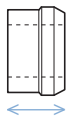


Stem : Steel | Head : Countersunk 90°

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min	kN min	Clamp load kN		min-max (mm) Standard LC-2R24G	min-max (mm) Flanged 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

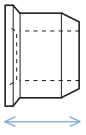
Standard

LC-2R24G 30,1 mm



Flanged

3LC-2R24G 38,7 mm

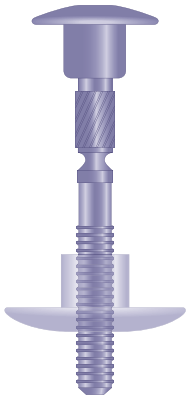


The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves

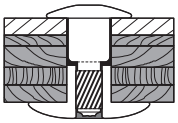
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength

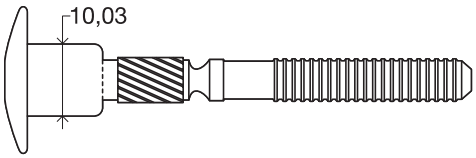
= Minimum shear strength - = Min. and Max. grip range



Hucktainer® - Steel

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation

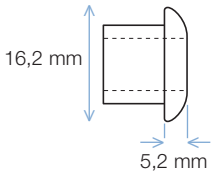




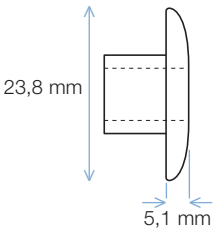
Stem : Steel | Head : Standard low profile head

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min		min-max (mm) Short grip clearance HLPSGC-R12	Short grip medium HLPSGM-R12	Short grip wide bearing 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	

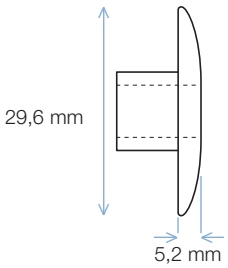
Short grip clearance
HLPSGC-R12



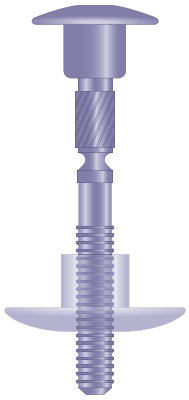
Short grip medium
HLPSGM-R12



Short grip wide bearing
HLPSGS-R12

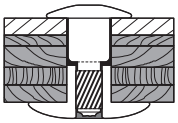


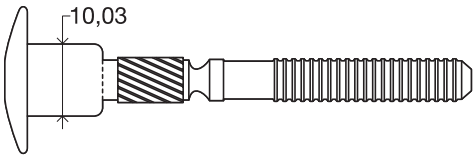
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Min. and Max. grip range



Hucktainer® - Steel

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation

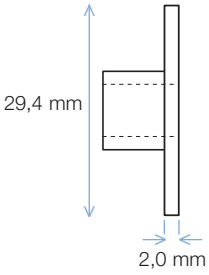




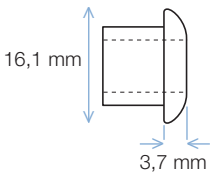
Stem : Steel | Head : Standard low profile head

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min		min-max (mm) Flat HLPS-R12XA	Clearance HLPSC-R12	Medium bearing HLPSM-R12	Wide bearing 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	

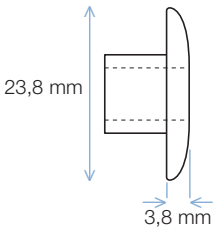
Flat
HLPS-R12XA



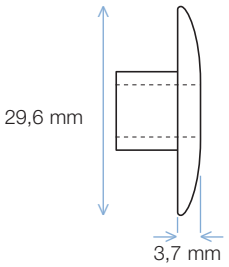
Clearance
HLPSC-R12



Standard moyenne
HLPSM-R12

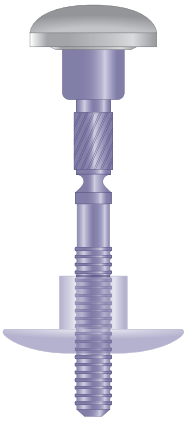


Standard large
HLPS-R12



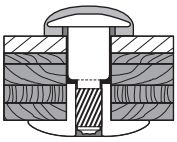
The articles codes in blue correspond to the core range (most commonly used references)

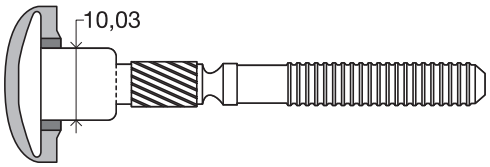
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Min. and Max. grip range



Hucktainer® - Steel

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation

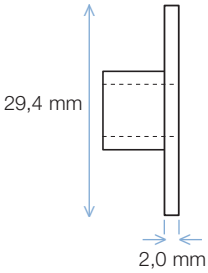




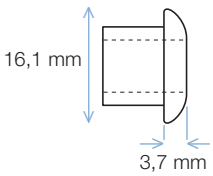
Stem : Steel | Head : Medium bearing colour encapsulated

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min		min-max (mm) Flat HLPS-R12XA	Clearance HLPSC-R12	Medium bearing HLPSM-R12	Wide bearing 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	

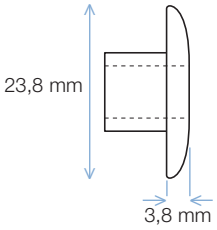
Flat
HLPS-R12XA



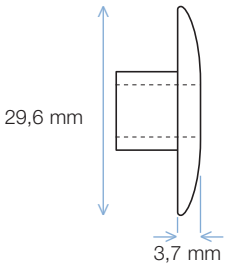
Clearance
HLPSC-R12



Standard moyenne
HLPSM-R12

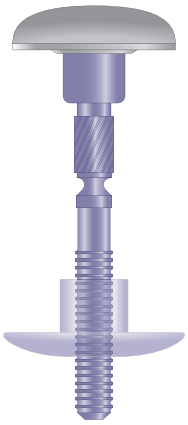


Standard large
HLPS-R12



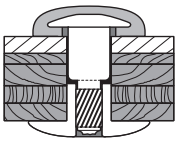
The articles codes in blue correspond to the core range (most commonly used references)

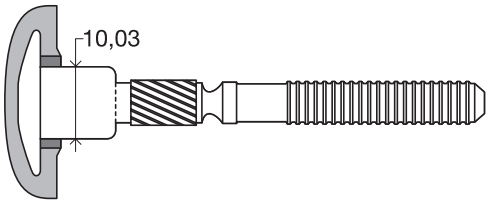
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Min. and Max. grip range



Hucktainer® - Steel

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation



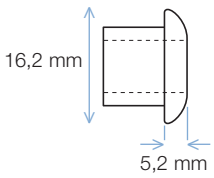


Stem : Steel | Head : Wide bearing colour encapsulated

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min		min-max (mm) Clearance HLPSGC-R12	Medium bearing HLPSGM-R12	Wide bearing 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		

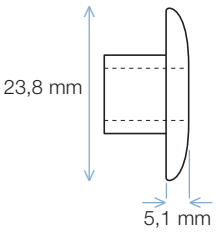
Clearance

HLPSGC-R12



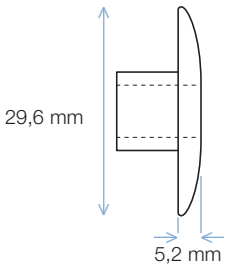
Medium bearing

HLPSGM-R12

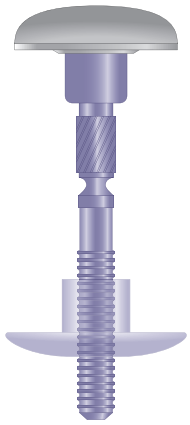


Wide bearing

HLPSGS-R12

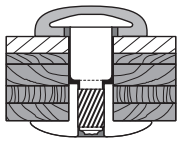


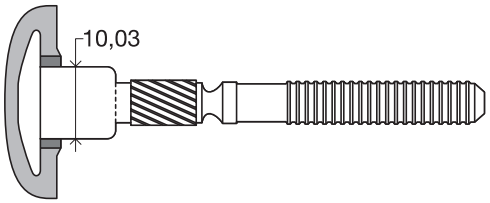
d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Min. and Max. grip range



Hucktainer® - Steel

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the composite plates
- Integral seal around pin head prevents moisture ingress
- No bulge on both sides after the installation

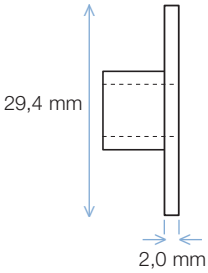




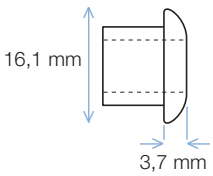
Stem : Steel | Head : Wide bearing colour encapsulated

d1 (mm)	l (mm)	l2 (mm)	l3 (mm)	d2 (mm)	k (mm)	Ø (mm)	kN min		min-max (mm)			
									Flat HLPS-R12XA	Clearance HLPSC-R12	Medium bearing HLPSM-R12	Wide bearing 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	

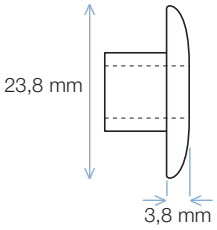
Flat
HLPS-R12XA



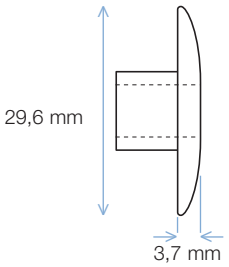
Clearance
HLPSC-R12



Medium bearing
HLPSM-R12



Wide bearing
HLPS-R12



The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - **l2** = Position of the breakneck groove - **l3** = Length without grooves
Ø = Hole diameter - **k** = Head thickness - **d2** = Head diameter - = Minimum tensile strength
= Min. and Max. grip range

BobTail® system: the most advanced development in LockBolts

The BobTail® system is composed of LockBolt and associated installation tooling and has been developed to ensure the highest levels of profitability and reliability.

Main advantages:

- A quick installation cycle.
  The installation speed of a BobTail® with a diameter of 6.4 mm is less than one second.
  The BobTail®, 16 mm in diameter, is installed in 2 seconds: up to 2 times faster than any other LockBolt available on the market.

- No breaking of the riveting stem:
  - reduced wastage,
  - low installation noise
  - increased corrosion resistance

- A fluid installation sequence and without any fuss, eliminating the physical constraints imposed to the operator.

- High resistance to wear and vibration.

- Unique helical lock groove (12 mm diameter and superior). Holds the collar on the stem prior to installation.

- No secondary operations.

- A quick visual inspection enable to check that the installation has been properly done (12 mm diameter and superior).

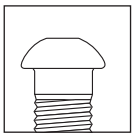
Before installation

After installation

- If you are currently using HUCK® Lockbolts such as the C50L® or C6L®, you can easily switch to BobTail® to get its benefits. Indeed, the changes are simple and quick, it is only necessary to adapt the nose assembly of the tooling.

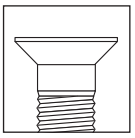
Diameters available: 12mm, 14mm, 16mm and 20mm
Different surface treatments with various corrosion resistance are available on request.

Standard and quality head types:



Brazier
Standard of 5 grade
Available in 8.8 grade (Ø > 12.7 mm)

Flanged
Standard of 10.9 grade
Metric range



Countersunk 90°
On request

	Brazier head	Flanged head
Imperial dimensions	5 grade (Ø 3/16 to 3/8) 8.8 grade (Ø 1/2 to 1)	–
Metric dimensions	–	10.9 grade (Ø 12 to 20mm)

Resistance values lbf (kN)

Diameter	Clamp load	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® installation tools

BobTail® tools allow a simpler and faster installation process than a conventional LockBolt system, thanks to a reduced setting force.

The installation tools are lighter and more compact and offer a greater flexibility of use.

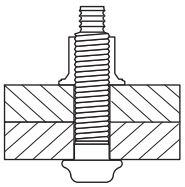
The installation process is simple and helps to extend the lifetime of the tool and spare parts.
In this way, the maintenance and tooling costs are reduced significantly, and increase productivity.

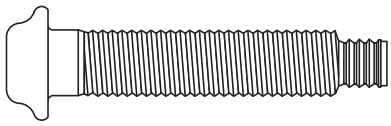
BOBTAIL® SWAGEFORWARD riveting machine

BOBTAIL® BTT riveting machine

BobTail® - Steel - Metric dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "G" to the reference for the zinc stem)

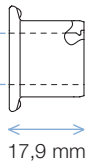




Stem : Steel | Head : Flanged

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
12,0	46,1	3,8	25,4	9,6	12,0 - 13,5	5,0 - 15,0	87,7	65,4	64,9	MBT-DT12-10	MBTC-R12BL
	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					35,0 - 45,0				MBT-DT12-40	
	81,1					40,0 - 50,0				MBT-DT12-45	
	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	

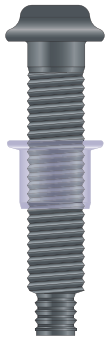
MBTC-R12BL 12,3 mm



17,9 mm

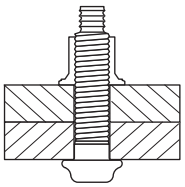
The articles codes in blue correspond to the core range (most commonly used references)

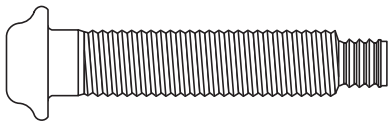
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Metric dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "G" to the reference for the zinc stem)

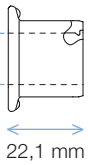




Stem : Steel | Head : Flanged

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
	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 14,4 mm



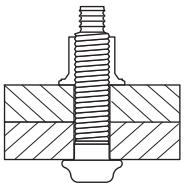
22,1 mm

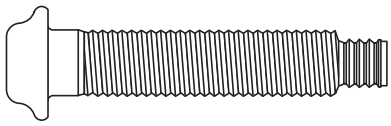
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

BobTail® - Steel - Metric dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "G" to the reference for the zinc stem)

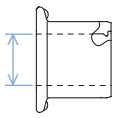




Stem : Steel | Head : Flanged

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
	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



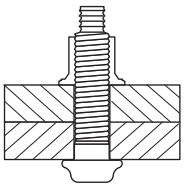
23,7 mm

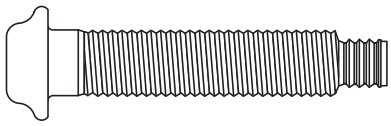
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

BobTail® - Steel - Metric dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "G" to the reference for the zinc stem)

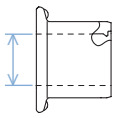




Stem : Steel | Head : Flanged

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
	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	

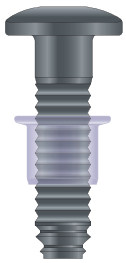
MBTC-R20BL 20,5 mm



29,6 mm

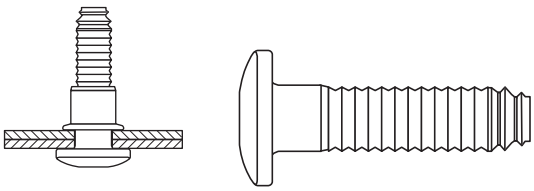
The articles codes in blue correspond to the core range (most commonly used references)

d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

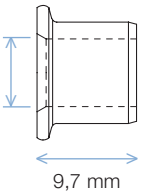
- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: holds the collar on the stem prior to installation
- 8,8 grade on request



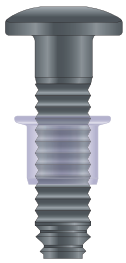
Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
1/4 (6,4 mm)	20,7	1,0	13,6	3,6	6,4 - 7,1	0,0 - 4,7	13,3	13,6	8,0	BT-R8-1GA	BTC-R8GA/GAH
	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 - 11,1				BT-R8-5GA	
	28,6	7,9				6,4 - 12,7				BT-R8-6GA	
	30,2	11,1				9,5 - 15,9				BT-R8-8GA	
	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 13,3 mm

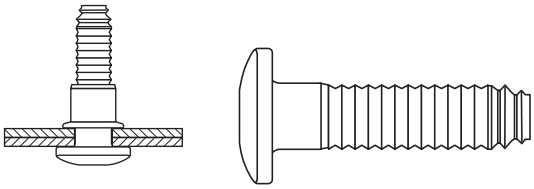


d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

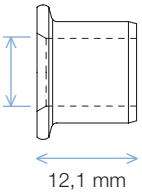
- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: holds the collar on the stem prior to installation
- 8,8 grade on request



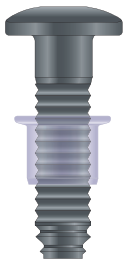
Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
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 16,3 mm

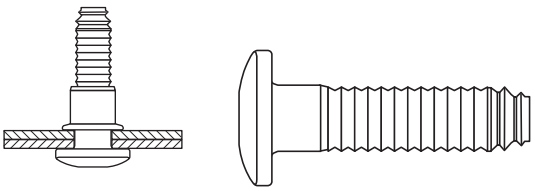


d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

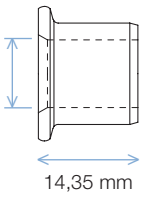
- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: holds the collar on the stem prior to installation
- 8,8 grade on request



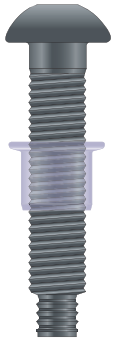
Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
3/8 (9,5 mm)	33,3	4,7	20,83	5,3	9,5 - 10,7	3,2 - 9,5	28,9 Voir note 1	5,3 Voir note 1	17,9 Voir note 1	BT-R12-4GA	BTC-R12GA/GAH
	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	
	46,0	17,5				15,9 - 22,2				BT-R12-12GA	
	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 19,56 mm

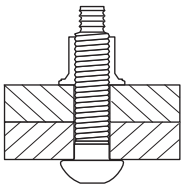


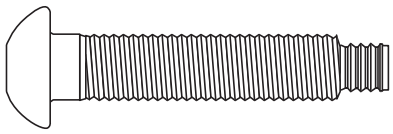
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "GA" to the reference for the zinc stem)

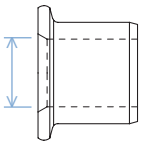




Stem : Steel | Head : Brazier

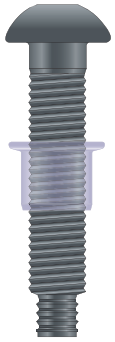
d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
1/2 (12,7 mm)	48,3	3,8	24,2	8,5	12,7 - 14,3	6,4 - 15,7	75,8	62,3	53,6	BTR-BR16-4GA	BTC5-R16GA
	54,6					12,7 - 22,1				BTR-BR16-8GA	
	61,0					19,1 - 28,4				BTR-BR16-12GA	
	67,3					25,4 - 34,8				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					88,9 - 98,3				BTR-BR16-56GA	
	137,2					95,3 - 104,6				BTR-BR16-60GA	

BTC5-R16GA 13,2 mm



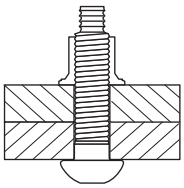
19,0 mm

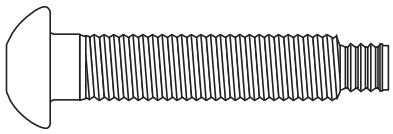
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

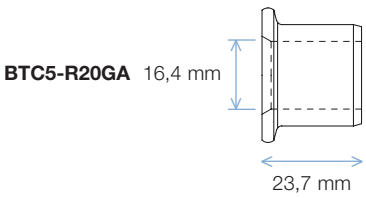
- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "GA" to the reference for the zinc stem)



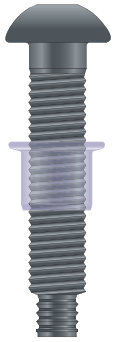


Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
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	

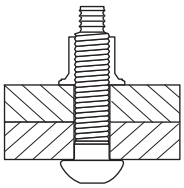


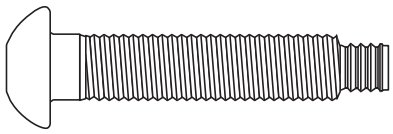
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "GA" to the reference for the zinc stem)

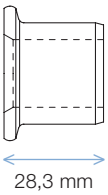




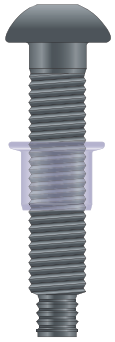
Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
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	

BTC5-R24GA 19,7 mm

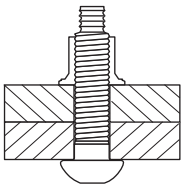


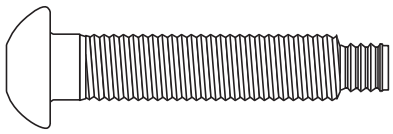
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "GA" to the reference for the zinc stem)

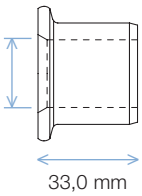




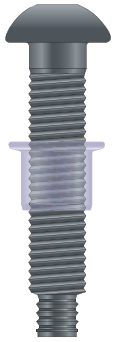
Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
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	

BTC5-R28GA 22,9 mm

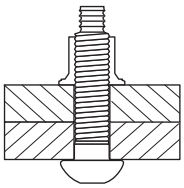


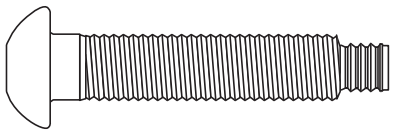
d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength



BobTail® - Steel - Imperial dimensions

- No breaking of the riveting stem: increased corrosion resistance, reduced wastage, low installation noise
- A better support provided by the collar and the head of the rivet
- Semi-automatic tooling installation: more accurate and rapidity in the installation
- Unique helical lock groove: Holds the collar on the stem prior to installation
- Zinc collar / stem uncoated (add suffix "GA" to the reference for the zinc stem)

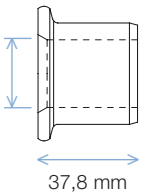




Stem : Steel | Head : Brazier

d1 (mm)	l (mm)	l2 (mm)	d2 (mm)	k (mm)	Ø (mm)	min - max (mm)	kN min	kN min	Clamp load kN		Ref. of the collar
	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	12,7				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	

BTC5-R32GA 26,2 mm



d1 = Diameter - **l** = Length of the stem - = Min. and Max. grip range - **Ø** = Hole diameter - **k** = Head thickness
d2 = Head diameter - = Minimum tensile strength - = Minimum shear strength

Installation tools

There is a wide range of riveting machines available for the installation of HUCK® structural blind rivets and LockBolts. The choice of the riveter depends on the type and the diameter of the rivet as well as the conditions of accessibility of the application. In most cases, the HUCK® riveting machines can be used for the installation of LockBolt and structural rivets, it is only necessary to change the nose assembly

The HUCK® structural rivets and LockBolt respect all specifications indicated provided that that they have been installed with the appropriate riveting machine

The HUCK® riveting machine enables a simple and reliable installation, regardless of the operator's dexterity. The speed of the installation cycle enable to reduce assembly times by about 75%

The most common HUCK® installation tools are presented below, although this is only a small part of the overall range. Please do not hesitate to contact us for any special requests.

Equipment and tools required for the installation of HUCK® rivets

Hydropneumatic tools

	202V	2025LB	254
			
Weight (Kg)	2,31	2,61	3,90
Tensile force (kN)	17,30	23,53	38,34
Setting stroke (mm)	19,00	17,15	14,30
Ø blind rivet (mm)	4,8 - 6,4	4,8 - 9,5	4,8 - 9,5
Ø LockBolt (mm)	–	4,8 - 6,4	7,9 - 9,5

Add for each tool the laying nose associated to the fastener type to be installed (see the table p132-133)

Hydraulic tools

	2480L	2581-2	2583	2620PT	SF20	3585
						
Weight (Kg)	1,0	2,49	2,09	4,48	5,0	8,62
Tensile force (kN)	24,0	47,5	48,3	78,93	92,0	203,0
Setting stroke (mm)	22,2	23,8	38,1	36,5	50,8	46
Ø blind rivet (mm)	4,8 - 9,5	7,9	4,8 - 9,5	9,5 - 12,7	–	15,9
ØØ LockBolt (mm)	4,8 - 6,4	4,8 - 9,5	7,9 - 9,5	12,7	12,7 - M16	12,7 - 19,1

Add for each tool the laying nose associated to the fastener type to be installed (see the table p132-133)

HuckForce Powerig™ Range



There are 3 options of electrical Powerig™ for a use with hydraulic installation tools.
BOLLHOFF recommends the use of the hydraulic unit HK32-002 (see page 131).

202V

Benefits:

- Lightweight and fast allowing to reduce the operator fatigue
- Ergonomically designed handle
- Collection bottle available to collect pintails.

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	258 x 304 mm
Stroke	18,9 mm
Capacity	17,3 kN to 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	DEXRON II Automatic Transmission Fluid or equivalent to ATF Specification

226 201 01 001

2025LB

Benefits:

- Ergonomically designed handle
- Robust design
- Fitted pintail bottle

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	245 x 318 mm
Stroke	17 mm
Capacity	23,53 kN to 6,2 bar
Weight	2,61 kg
Consommation d'air	240 l/min based on 30 cycles per min.
Hydraulic fluid	DEXRON II Automatic Transmission Fluid or equivalent to ATF Specification

226 202 01 001

254

Benefits:

- Compact and ergonomic
- Very good weight to power ratio
- Easy maintenance
- Pull piston is reinforced

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	204 x 379 mm
Stroke	14,3 mm
Capacity	38,34 kN to 6,2 bar
Weight	3,9 kg
Hydraulic pressure (max)	6,2 - 6,9 bar
Air consumption	382 l/min based on 30 cycles per min
Hydraulic fluid	DEXRON II Automatic Transmission Fluid or equivalent to ATF Specification

226 208 01 001

2480L

Benefits:

- Lightweight
- Increased reliability
- Simple design for minimal maintenance

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	208 x 166 mm
Stroke	22,2 mm
Capacity	25,4 kN to 579 bar
Weight	1,0 kg
Hydraulic pressure (max)	579 bar
Return pressure (max)	221 bar
Hydraulic fluid	DEXRON II Automatic Transmission Fluid or equivalent to ATF Specification

226 203 01 001

2581-2

Benefits:

- Lightweight and compact tool
- Simple design
- Suitable for use in areas where access is limited

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	180 x 214 mm
Stroke	23,8 mm
Capacity	47,5 kN to 510 bar
Weight	2,49 kg
Hydraulic pressure (max)	510 bar
Return pressure (max)	220 bar
Hydraulic fluid	Must match DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 specifications or equivalent ATF specifications

226 215 00 095

2583

Benefits:

- Lightweight and compact
- Adapted to install fasteners in limited clearance
- Low maintenance

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	186 x 239 mm
Stroke	31,8 mm
Capacity	48,3 kN to 580 bar
Weight	2,09 kg
Hydraulic pressure (max)	580 bar
Return pressure (max)	22 bar
Hydraulic fluid	DEXRON II Automatic Transmission Fluid or equivalent to ATF Specification

226 215 00 150

2620-PT

Benefits:

- Designed for the installation of large rivets
- Robust design
- Easy maintenance

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	167 x 179 mm
Stroke	36,5 mm
Capacity	78,93 kN to 448 bar
Weight	4,5 kg
Pression hydraulique	510 bar
Return pressure	221 bar

226 215 00 079

SF20

Benefits:

- Very good weight to power ratio
- Tool is for the installation of BobTail® LockBolts
- Offers a quicker and easier installation process

Compatible rivet types	Diameter (mm)					Installation tools
	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)

Characteristics

L x A dimensions	141 x 216 mm
Stroke	50,8 mm
Capacity	92 kN to 483 bar
Weight	5,0 kg
Hydraulic pressure (max)	483 bar
Return pressure (max)	345 bar
Hydraulic fluid	Must match DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 specifications or equivalent ATF specifications

226 215 00 048

3585

Benefits:

- Important setting force
- Ergonomic design
- Ejection of broken stem is facilitated

Compatible rivet types	Diameter (mm)			Installation tools
	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)

Characteristics

L x A dimensions	199 x 263 mm
Stroke	46 mm
Capacity	203 kN to 510 bar
Weight	8,62 kg
Hydraulic pressure (max)	510 bar
Return pressure (max)	151 bar
Hydraulic fluid	Must match DEXTRON® III, DEXTRON® VI, MERCON, Allison C-4 specifications or equivalent ATF specifications

226 215 00 109

Powerig® hydraulic group

HK32-002 Powerig® - Hydraulic power system

Benefits:
■ For intensive use
■ Ideal for large production volumes
■ Manœuvre of the rig is easy, thanks to built-in wheels
■ Sureset / Control process option is available

Characteristic

L x A x P dimensions	720 x 500 x 800 mm
Engine	2,2 kW
Power supply	3x400 VCA (nominal) 50 Hz
Weight	97 kg (Hydraulic oil included)
Machine output	1
Debit	3,2 l/min (nominal)
Hydraulic pressure (max)	600 bar

226 215 00 047

Hydraulic hoses - Hydraulic tool connection / Powerig®

Length	Reference
5 meters	226 215 00 119 (HS-05-MCE)
10 meters	226 215 00 033 (HS-10-MCE)
15 meters	226 215 00 050 (HS-15-MCE)
20 meters	226 215 00 169 (HS-20-MCE)

Summary table "Tool / Laying nose / Fastener"

		HYDRAULIC TOOLS			
		2480L	2581-2	2583	2620PT
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 ou 99-3329	
	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				
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®	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				
	19,1				
BobTail®	6,4	99-7932L			
	7,9			99-7923	
	9,5			99-7924	
	12,7				
	15,9				
	19,1				
	M12				
	M14				
	M16				

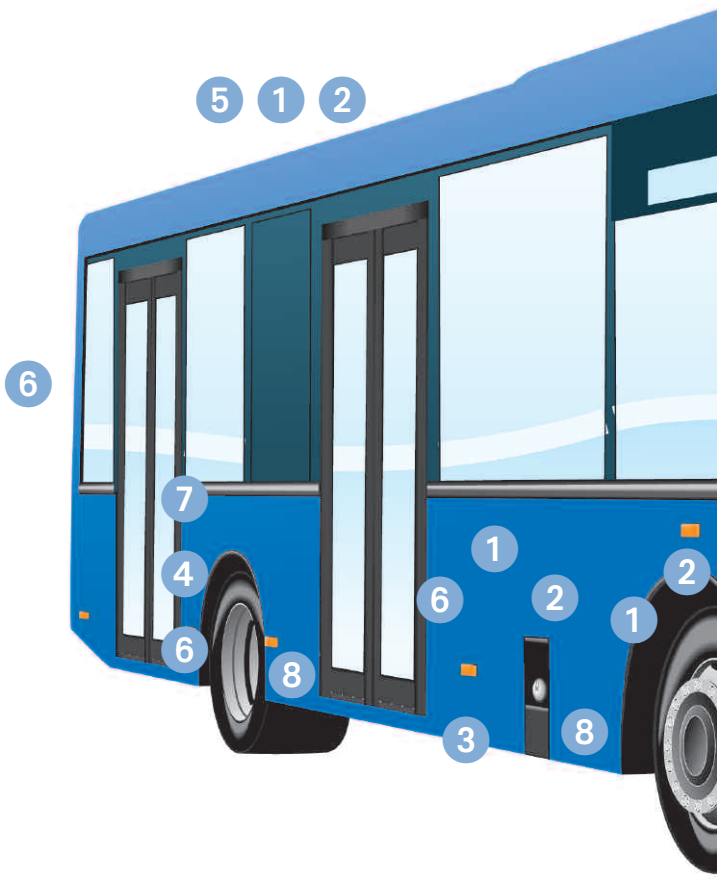
For more information please visit the following link:
https://www.afsrhuck.net/us/en/More_Information/toolingresource-en.html

		HYDROPNEUMATIC TOOLS		
3585	SF20	202V	2025LB	254
		99-3303L	99-3303L	
		99-3305L	99-3305L	
				99-3307
				99-3318 ou 99-3329
				99-1053
				99-830-1
99-5102				
			99-3003L	
			99-3006L	
				99-99-245
				99-100-245
				99-99-245
			99-1456L	
			99-1477UKL	
				99-1439
			99-3464L	
99-5008				
99-5010				
99-7835	99-7882			
99-7831	99-7881			
99-7836				
	99-7880			
	99-7884			
	99-7881			

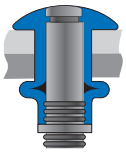
Applications of **HUCK®** fastening systems

Benefits:

- A simple and fast installation enable to reduced the assembly times of 75%
- Solid fasteners resistant to extreme vibrations, which use fewer parts and allow weight and cost savings
- High quality assembly and sustainability, requiring no maintenance, resulting in lower costs
- Guaranteed return on investment



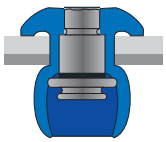
STRUCTURAL RIVET



1. Magna-Bulb®

- Self locking structural rivet with 60° lock
- High tensile and shear strength
- High resistance to vibration and loosening
- The good distribution of the joining strengths allows the installation on materials of small thicknesses
- Breaking of the riveting stem is flush
- TIR Certificate

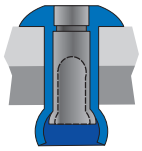
Installation of the windows, fixing of the roof and laterale structure, arc of the wheel



2. HuckLok™

- Self locking structural rivet
- Unique system of double internal pin locking for maximum assembly integrity and high resistance to fatigue
- High resistance to tension loss in the assembly due to vibrations
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush

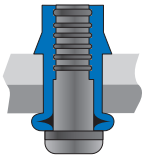
Installation of the windows, fixing of the roof and laterale structure, arc of the wheel



3. Magna-Lok®

- Structural rivet with internal pin locking mechanism
- Very high shear and high tensile strength
- High resistance to tension loss in the assembly due to vibrations
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush
- TIR Certificate

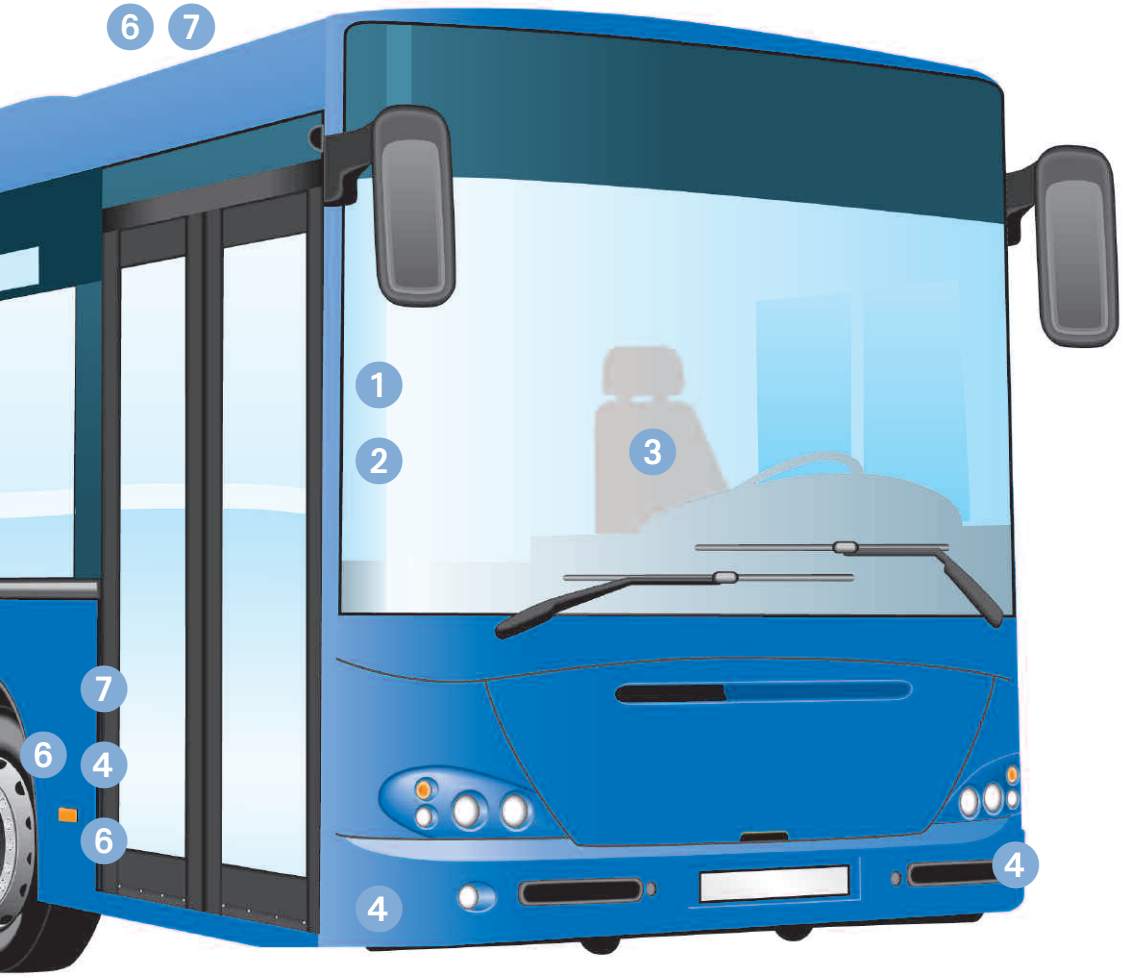
Seat fasteners, ceiling



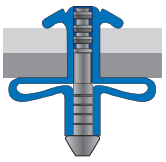
4. BOM®

- Structural blind rivet in steel, high resistance
- Realise an efficient assembly

Fixing of pillars, fixing of angles, fixing of bumpers



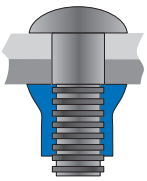
LOCKBOLT



5. Magna-Tite™

- Structural rivet with high resistance and watertight which is ensured by a polymer seal
- Wide clamping range, allowing to reduce the number of fasteners
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Breaking of the riveting stem is flush
- TIR Certificate

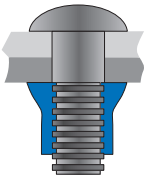
No leaks - Roof fixing



6. Magna-Grip®

- LockBolt, consistent and with a wide clamping range
- Good vibrations resistance
- Large clamping range, allowing to reduce the number of fasteners
- Breaking of the riveting stem is flush
- TIR Certificate

Fixing of pillars, roof, wheel arc, assembly of rear frame



7. C6L®

- LockBolt with high tensile strength and to vibrations
- Has 6 grooves in the joining area allowing a greater clamping range

Fixing of roof and pillars

8. BobTail®

- Lockbolt with collar or stem in steel of 10,9 grade
- Without breaking of the riveting stem : increase the resistance to corrosion, reduction of waste, noise level is low during the installation
- Offers all the advantages of high strength rivets combined with better support provided by the collar and the head of the rivet
- Installation with semi-automatic riveter: more precision and faster
- Helical lock groove, holds the collar on the stem prior to installation

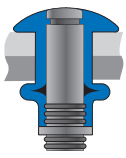
Frame, fixing of the side walls

Applications of **HUCK®** fastening systems

Benefits:

- A simple and fast installation enable to reduced the assembly times of 75%
- Solid fasteners and resistant to vibrations, allowing to use fewer parts and allows weight and cost savings
- High quality assembly and sustainability, requiring no maintenance, resulting in lower costs
- Guaranteed return on investment

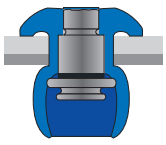
STRUCTURAL RIVET



1. Magna-Bulb®

- Self locking structural rivet with 60° lock
- High tensile and shear strength
- High resistance to vibration and loosening
- The good distribution of the joining strengths allows the installation on materials of small thicknesses
- Breaking of the riveting stem is flush
- TIR Certificate

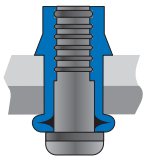
Fixing of angles, aluminium panels and floors, arched roof structure



2. HuckLok™

- Self locking structural rivet
- Unique system of double internal pin locking for maximum assembly integrity and high resistance to fatigue
- High resistance to tension loss in the assembly due to vibrations
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush

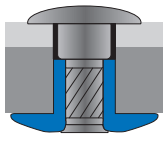
Applications on trailer roofs, fixing of angles, curtain rails and the external structure of refrigerated trailers



3. BOM®

- Structural blind rivet in steel, high resistance
- Realise an efficient assembly

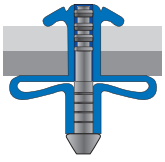
For very demanding applications. In trailer applications, fixing of angles, door locking bracket, mounting bracket



4. FloorTight®

- Superior resistance rivet
- Blind installation
- High tensile and shear strength
- High setting force
- A countersunk head allows the rivet to remain completely flush once it is installed

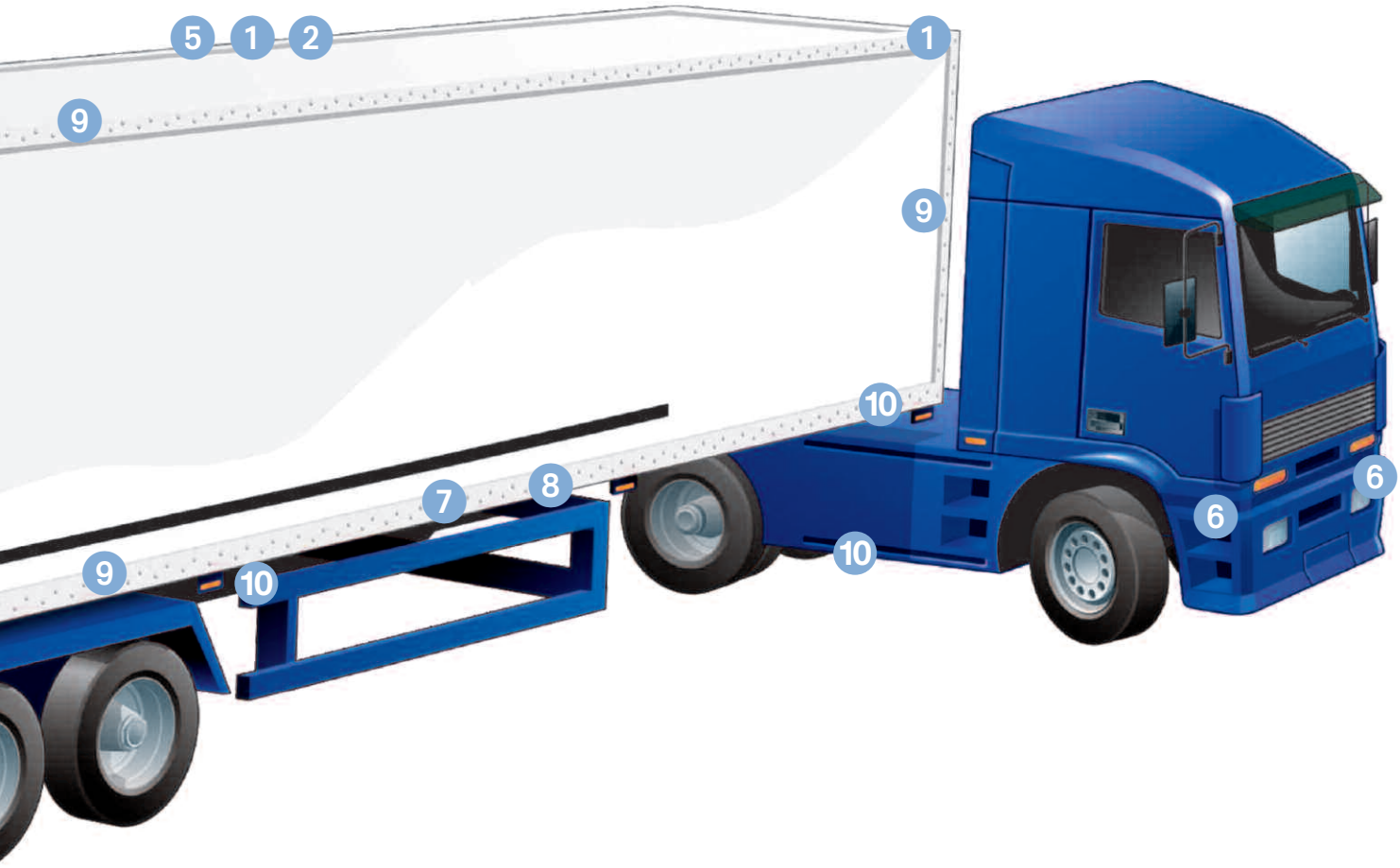
Trailer floor



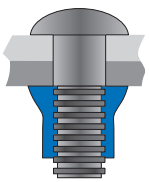
5. Magna-Tite™

- Structural rivet with high resistance and watertight which is ensured by a polymer seal
- Wide clamping range, reduces the number of fasteners
- Extra large blind side footprint: Ideal for joining of plastic and composites materials, lower strength or thin sheet joint materials
- Breaking of the riveting stem is flush
- TIR Certificate

Trailers roof and locking systems



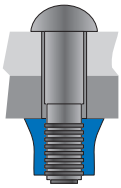
LOCKBOLT



6. Magna-Grip®

- LockBolt, consistent and with a wide clamping range
- Good vibrations resistance
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush
- TIR Certificate

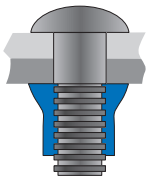
Fastening of belts and fastening of the chassis structure in truck cabs



7. C50L®

- LockBolts for assemblies subject to very demanding conditions
- 8.8 grade
- High resistance to vibration
- Easy visual inspection of the installation quality

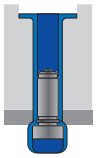
Trailer chassis



8. C6L®

- LockBolt with high tensile strength and to vibrations
- Has 6 grooves in the joining area allowing to get a greater clamping range

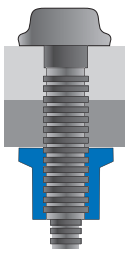
Fixing of truck bumpers, radiator mounting



9. Hucktainer® Plus

- Designed specifically for joining composite board in trailer applications.
- Will not crush or damage the GRP composite plates
- Wide clamping range
- The low profile provides a high quality finish
- The tightness under the head of the stem prevent moisture
- TIR Certificate

Trailers chassis



10. BobTail®

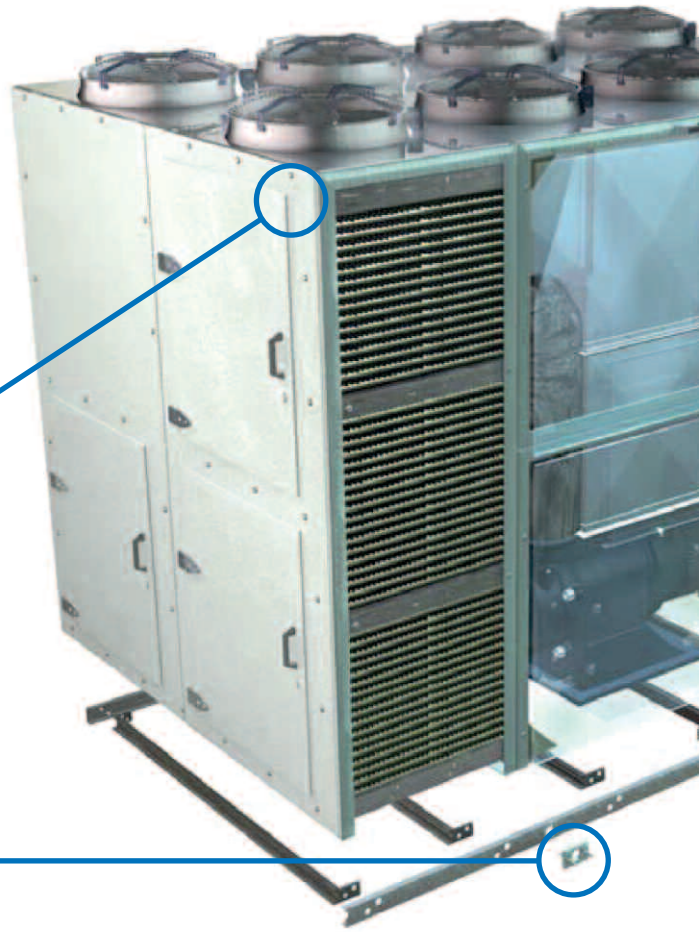
- Lockbolt with collar or stem in steel of 10.9 grade
- No breaking of the riveting stem : increased corrosion resistance, reduced wastage, low installation noise
- Offers all the advantages of high strength rivets combined with better support provided by the collar and the head of the rivet
- Installation with semi-automatic riveter: faster and more precise
- Helical lock groove, holds the collar on the stem prior to installation

Trailers chassis, fixing of the side walls

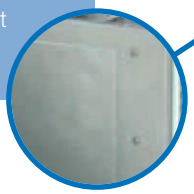
Applications of **HUCK®** fastening systems

Benefits:

- A simple and fast installation enabled to reduce assembly times by 75%
- Solid fasteners and vibration resistant, allowing fewer parts to be used and allows weight and cost savings
- High quality assembly and sustainability, requiring no maintenance, resulting in lower costs
- Guaranteed return on investment

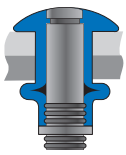


Panels: HUCK® fastening systems allow quick, easy and clean installation of pre-painted panels. A robust and tamperproof assembly is guaranteed



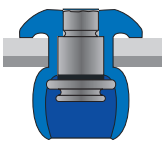
Lifting clamp: HUCK® fastening systems are resistant to vibrations, extend the life of lifting clamp, and offer assemblies that require no maintenance. Easy to install.

STRUCTURAL RIVET



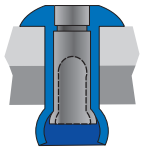
1. Magna-Bulb®

- Self locking structural rivet with 60° lock
- High tensile and shear strength
- High resistance to vibration and loosening
- The good distribution of the joining strengths allows the installation on materials of small thicknesses
- Breaking of the riveting stem is flush
- TIR Certificate



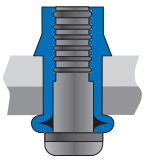
2. HuckLok™

- Self locking structural rivet
- Unique system of double internal pin locking for maximum assembly integrity and high resistance to fatigue
- High resistance to tension loss in the assembly caused by vibrations
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush



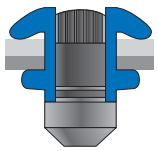
3. Magna-Lok®

- Structural rivet with internal pin locking mechanism
- High tensile and shear strength
- High resistance to vibration and loosening
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush
- TIR Certificate



4. BOM®

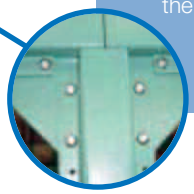
- Structural blind rivet in steel, high resistance
- Realise an efficient assembly



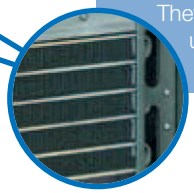
5. Auto-Bulb®

- Purpose design blind side shape for easy hole location
- Large diameter head and large bulge which distributes the load over a larger area

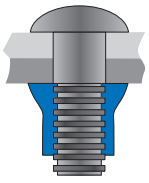
Ventilator: HUCK® fastening systems offer assemblies which require no maintenance and offer assemblies of high resistance to fatigue and vibrations. It's easy to install.



A group of building: the clamping force of the HUCK® fastening systems is high, which improves the integrity of the assembly without the need to tighten and retighten the torque. Easy installation for fast modular construction.

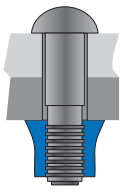


Radiator: assemblies realized with HUCK® fastening systems are resistant to vibrations and extremetemperatures. They require no maintenance. They are so resistant that you can use a smaller amount of rivets. Easy to install.



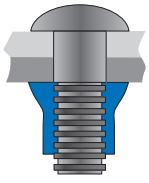
6. Magna-Grip®

- LockBolt, consistent and with a wide clamping range
- Good vibration resistance
- Wide clamping range, reduces the number of fasteners
- Breaking of the riveting stem is flush



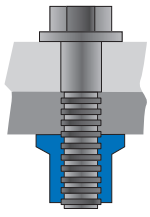
7. C50L®

- LockBolts for assemblies subject to very demanding conditions
- 8.8 grade
- High resistance to vibration
- Easy visual inspection of the installation quality



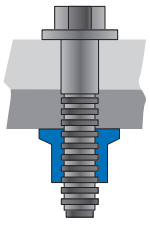
8. C6L/120L®

- LockBolt with high tensile strength vibration resistant
- Has 6 grooves in the joining area allowing to get a greater clamping range



9. Huck-Fit®

- LockBolts for assemblies subject to very demanding conditions with unique helical lock groove to increase the life of the joining
- Easy installation thanks to the support of the collar on the stem prior to installation
- Joints have a high resistance to vibration
- Can be unscrewed as a standard bolt with a monkey wrench
- 10.9 grade



10. Huck-Spin®

- Lockbolt without breaking of the riveting stem with unique helical lock groove to increase the life of the joint
- The "control process" ensures precise installation
- High resistance to tension loss in the assembly due to vibrations
- Can be unscrewed as a standard bolt with an monkey wrench
- 10.9 grade

Numerical index

Numerical index

Numerical index

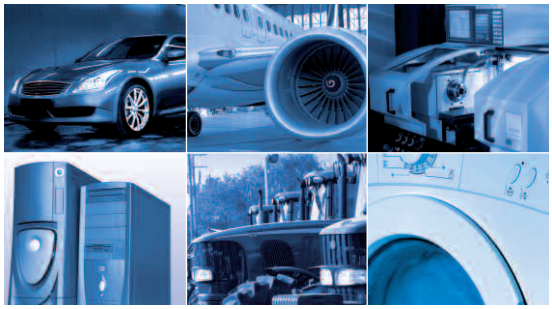
Numerical index

Numerical index

BÖLLHOFF, the specialist in assembly techniques

Whatever the industry, we have the solution to your fastening needs, including the following sectors:

- automotive - marine - aerospace
- electronic - electric - plastic
- construction - wood - furniture
- machine-tools, rail.



Böllhoff, industrial partner in more than 23 countries

Böllhoff has a worldwide presence, through its production centres and subsidiaries and a network of agents and distributors, an efficient international distribution channel, which specialises in more than 60,000 quality certified products.

Böllhoff, listens to your requests, searching for continuous innovation

To facilitate adaptation to rapid changes in production methods, Böllhoff designs standard and specific products and installation equipment adapted to the needs of its customers

Böllhoff, service and responsiveness

Böllhoff propose a wide range of services whose main objective is to optimise processes and to reduce costs.

Böllhoff, quality at all levels

Permanent controls and rigorous organisation allow us to maintain, ISO 9001, QS 9000 and ISO 14001 certifications among many others.

All our factories have quality systems.

Böllhoff International with companies in:

Argentina
Austria
Brazil
Canada
China
Czech Republic
France
Germany
Hungary
India
Italy
Japan
Mexico
Poland
Romania
Russia
Slovakia
South Korea
Spain
Switzerland
Thailand
Turkey
United Kingdom
USA

Apart from these 24 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.

Böllhoff Group
Please find your local contact on **www.boellhoff.com**
or contact us under **fasteningtechnology@boellhoff.com**