

OCEANUS



RIVQUICK® high-strength

High-strength blind rivets

BÖLLHOFF

RIVQUICK® high-strength blind rivets - for sheets and profiles under extreme stress

On the following pages we introduce to you our warehouse program of high-strength blind rivets including the corresponding assembly tools.

You are welcome to contact us for individual offers regarding dimensions and designs not included on the following pages as well regarding special designs.

Benefits of high-strength blind rivets

- High-strength joint
- Tight fit even for different drill hole diameters
- Bridging of several clamp areas
- Installation can be checked visually
- Vibration-resistant
- No sticking out mandrel on the setting head
- Benefits for storage and costs

Detailed information about our entire range of RIVQUICK® blind rivets in our catalogue 0720.

Application technology

In an environment where requirements are in a constant state of change, we stand by our customers with expert advice in the field of fastening technology. If nothing in our wide range of products meets your application needs, we bring in the expertise of our development department to work together with you to find an innovative solution.

Regardless of the material, production method and surface treatment, Böllhoff offers you a suitable alternative for any constructive possibility.



Laboratory

Both mechanical and physical tests as well as chemical material analyses take place in our own accredited laboratory, certified according to DIN EN ISO EIC 17025:2000 since 1999. The customer then also receives a summary of results and a conclusion.



Quality management

Superior product quality whilst protecting resources as much as possible is a matter of course for us. After all, precision is our business. We can carry out a quick and precise 100% check of our products using state-of-the-art camera technology.



Product range RIVQUICK® high-strength blind rivets

Content

	Material body / mandrel	Head shape	Ø	Page
RIVQUICK® Varibulb	steel / steel	flat head	4.8	4
RIVQUICK® Varibulb	stainless steel / stainless steel	flat head	4.8	4
RIVQUICK® Varibolt	steel / steel	flat head	4.8 – 6.4	6
RIVQUICK® Varibolt	steel / steel	countersunk head	4.8 – 6.4	6
RIVQUICK® Varibolt	stainless steel / stainless steel	flat head	4.8 – 6.4	6
RIVQUICK® Varilock	steel / steel	flat head	6.4	9
Hydraulic and pneumatic setting tools				11

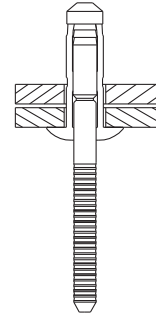
RIVQUICK® Varibulb

Break-stem rivets of high strength for particularly thin-walled components.

Your benefits

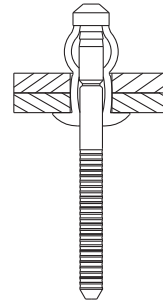
Properties	Benefits
Varibulb steel	Particularly good mechanical properties
Varibulb stainless steel	Particularly good corrosion resistance and good mechanical properties
Good filling of drill hole	High strengths against dynamic stress
	Compensation of hole offset
Tight locking of mandrel in the body	Particularly high strengths against dynamic stress
	Low-noise rivet joint and high safety when used in electronic components due to locked mandrel
Large closing head	High remaining clamping force
	Low deformation of components
	Optimal for joining thin-walled components
	High ultimate thread strength
Great selection of setting tools	High production flexibility

The setting



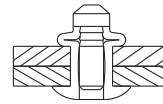
1 Before setting

The blind rivet is inserted in the drill hole.



2 During setting

The rivet body forms a defined closing head. The drill hole is filled.



3 After setting

The mandrel is torn off at a defined point when a certain force is applied. The rest of the mandrel is tightly locked in the rivet body.

Application fields



Heating and air-conditioning technology

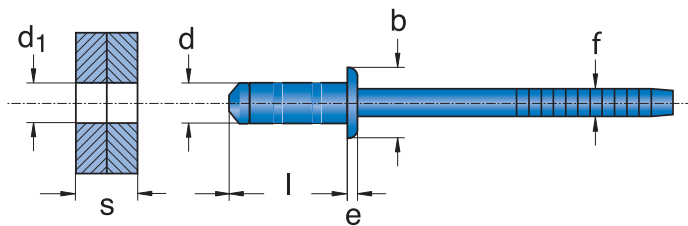
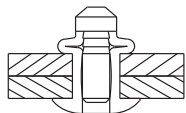


Foodprocessing industry

RIVQUICK® Varibulb



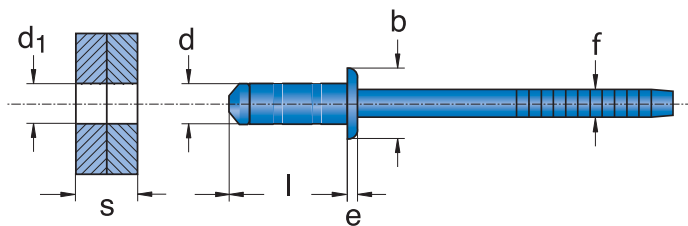
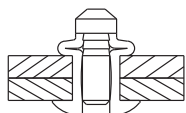
- Body: steel
- Mandrel: steel
- Head shape: flat head
- Surface treatment: zinc plated and passivated (chrome-free (VI))



Ø	d ₁	s	l max	d	b	e	f nom.	Order No.			
4.8	5.0±0.1	1.5 – 3.5	12.1	4.8 ^{+0.08} _{-0.15}	9.3±0.3	1.3±0.2	3.0	223 821 48121	3300 – 3600	3800	5000
		3.5 – 5.5	14.6					223 821 48146	3300 – 4200		4000



- Body: stainless steel
- Mandrel: stainless steel
- Head shape: flat head
- Surface treatment: none



Ø	d ₁	s	l max	d	b	e	f nom.	Order No.				
4.8	5.0±0.1	1.5 – 3.5	12.9	4.8 ^{+0.08} _{-0.15}	9.3±0.3	1.3±0.2	3.0	223 831 48129		5000	5000	
		3.5 – 5.5	15.5					223 831 48155			3900 – 5500	4000
		5.5 – 7.5	18.5					223 831 48180			4000	

Shear force (N) Tensile force (N) Packaging unit
Dimensions in mm.

Other dimensions and designs on request

The indications regarding shear and tensile force are guide values and depend on the respective application. We recommend production-oriented testing before every use.

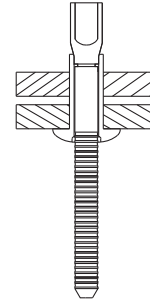
RIVQUICK® Varibolt

High-strength multigrip blind rivets of high tightness and with visible mandrel locking.

Your benefits

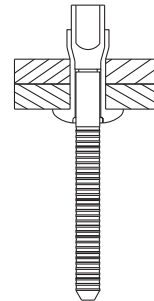
Properties	Benefits
Varibolt steel	Particularly good mechanical properties
Varibolt stainless steel	Particularly good corrosion resistance and good mechanical properties
Great clamp area	One rivet joint instead of several standard rivet joints
	Adaptation to great variations in component thickness
	Reduced rivet diversity. Therefore optimised logistics
Sealing function	High tightness of rivet joint ensured
Visible mandrel locking	Very easy visual quality check
Tight locking of mandrel in the body	Particularly high strengths against dynamic stress
	Low-noise rivet joint and high safety when used in electronic components due to locked mandrel
Very good filling of drill hole	Particularly high strengths against dynamic stress
	Compensation of hole offset
Insensitivity regarding joint gaps	Axially presses components with joint gaps very well against each other
Great selection of setting tools	High production flexibility

The setting



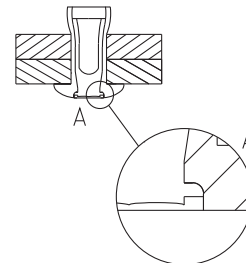
1 Before setting

The blind rivet is inserted in the drill hole.



2 During setting

The rivet body forms a defined closing head. The drill hole is filled.



3 After setting

The mandrel is torn off at a defined point when a certain force is applied. The rest of the mandrel is tightly locked in the rivet body.

Application fields



Vehicle construction

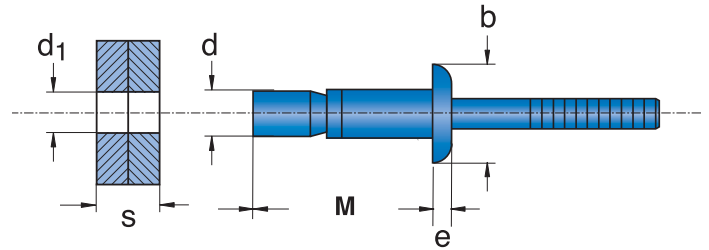
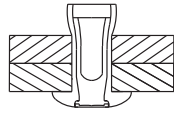


Scaffolding

RIVQUICK® Varibolt



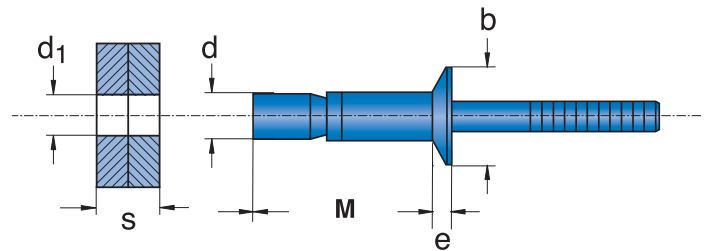
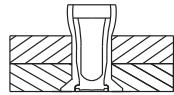
- Body: steel
- Mandrel: steel
- Head shape: flat head
- Surface treatment: zinc plated and passivated (chrome-free (VI))



Ø	d ₁	s	d	b	e	M max	Order No.			
4.8	5.0 ^{±0.1}	1.6 – 6.8	4.8 ^{+0.08} _{-0.15}	9.8	1.8	18.2	223 821 48100	6200	4800	4000
		1.6 – 11.1					223 821 48140			3000
6.4	6.8 ^{±0.1}	2.0 – 9.5	6.4 ^{+0.08} _{-0.15}	12.7	2.5	24.0	223 821 64140	11100	9500	2000
		2.0 – 15.9					223 821 64190			1500



- Body: steel
- Mandrel: steel
- Head shape: countersunk head
- Surface treatment: zinc plated and passivated (chrome-free (VI))



Ø	d ₁	s	d	b	e	M max	Order No.			
4.8	5.0 ^{±0.1}	3.2 – 8.4	4.8 ^{+0.08} _{-0.15}	8.5	1.8	21.0	223 822 48130	6200	4800	3000
		3.2 – 12.1					223 822 64160			2000
6.4	6.8 ^{±0.1}		6.4 ^{+0.08} _{-0.15}	10.0	2.0	27.0	223 822 64160	11100	9500	2000

Shear force (N) Tensile force (N) Packaging unit

Dimensions in mm.

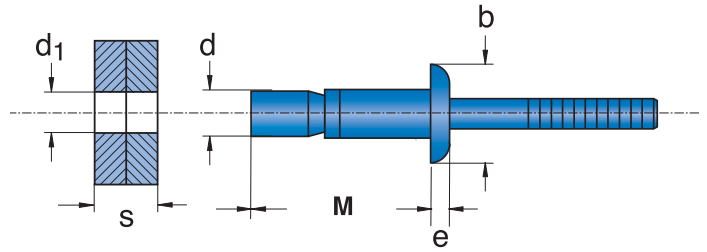
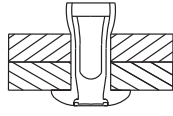
Other dimensions and designs on request

The indications regarding shear and tensile force are guide values and depend on the respective application. We recommend production-oriented testing before every use.

RIVQUICK® Varibolt



- Body: stainless steel
- Mandrel: stainless steel
- Head shape: flat head
- Surface treatment: none



Ø	d ₁	s	d	b	e	M max	Order No.			
4.8	5.0 ^{+0.1}	1.6 – 6.8	4.8 ^{+0.08} _{-0.15}	9.8	1.8	18.2	223 831 48100	6200	4800	4000
		1.6 – 11.1				24.4	223 831 48140			3000
6.4	6.8 ^{+0.1}	2.0 – 9.5	6.4 ^{+0.08} _{-0.15}	12.7	2.5	24.0	223 831 64140	11100	9500	2000
		2.0 – 16.6				33.0	223 831 64190			1500

Shear force (N) Tensile force (N) Packaging unit

Dimensions in mm.

Other dimensions and designs on request

The indications regarding shear and tensile force are guide values and depend on the respective application. We recommend production-oriented testing before every use.

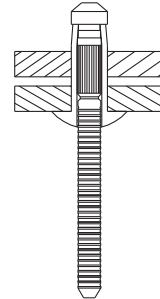
RIVQUICK® Varilock

High-strength blind rivets of very high tensile and shear strength with large closing head.

Your benefits

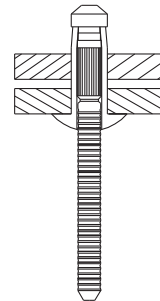
Properties	Benefits
Varilock steel	Particularly good mechanical properties
Large closing head	High remaining clamping force
	Low deformation of components
	Optimal for joining thin-walled components
	High ultimate thread strength
Visible mandrel locking	Particularly high strengths against dynamic stress
	Low-noise rivet joint and high safety when used in electronic components due to locked mandrel
Great selection of setting tools	High production flexibility

The setting



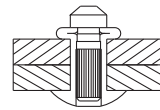
1 Before setting

The blind rivet is inserted in the drill hole.



2 During setting

The rivet body forms a defined closing head. The drill hole is filled.



3 After setting

The mandrel is torn off at a defined point when a certain force is applied. The rest of the mandrel is tightly locked in the rivet body.

Application fields



Ladder construction

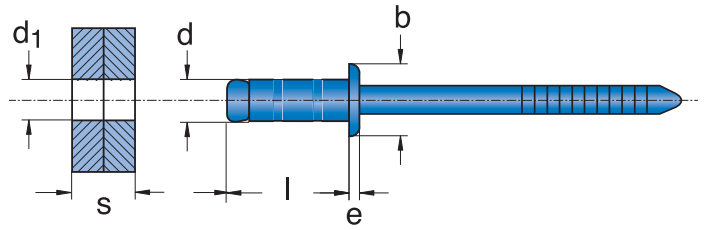


Vehicle seats

RIVQUICK® Varilock



- Body: steel
- Mandrel: steel
- Head shape: flat head
- Surface treatment: zinc plated and passivated (chrome-free (VI))



Ø	d ₁	s	l ⁺¹ _{-0.2}	d	b _{max}	e _{max}	Order No.	↔	↕	📦
6.4	6.8 ^{±0.1}	2.8 – 4.8	15.0	6.4 ^{+0.08} _{-0.15}	13.4	3.0	223 824 64150	7500	11500	2000
		3.4 – 5.3	15.6				223 824 64156			
		4.8 – 6.8	17.0				223 824 64170			
		6.8 – 8.8	19.0				223 824 64190			
		8.8 – 10.8	21.0				223 824 64210			
		10.8 – 12.8	23.0				223 824 64230			

↔ Shear force (N) ↕ Tensile force (N) 📦 Packaging unit

Dimensions in mm.

Other dimensions and designs on request

The indications regarding shear and tensile force are guide values and depend on the respective application. We recommend production-oriented testing before every use.

Hydraulic and pneumatic setting tools

RIVQUICK® T2

- **Weight:** 1600 g
- **Tool stroke:** 18 mm
- **Setting force:** 9 000 N at 5 bar
- Extraction of mandrel
- Removable collecting tray of mandrel
- Order No.: **2260 020 1000**
- **Range of application:**

Body material	Blind rivets Ø							
	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4
Aluminium	■	■	■	■	■	■	■	
Steel	■	■	■	■	■	■	■	■
Stainless steel	■	■	■	■	■	■		



Recommended for RIVQUICK® Varibult

RIVQUICK® T3

- **Weight:** 1900 g
- **Tool stroke:** 25 mm
- **Setting force:** 14 000 N at 5 bar
- Extraction of mandrel
- Removable collecting tray of mandrel
- Order No.: **2260 021 1000**
- **Range of application:**

Body material	Blind rivets Ø							
	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4
Aluminium					■	■	■	■
Steel					■	■	■	■
Stainless steel					■	■	■	■



Recommended for RIVQUICK® Varibolt

RIVQUICK® T4

- **Weight:** 2000 g
- **Tool stroke:** 19 mm
- **Setting force:** 20 000 N at 5 bar
- Extraction of mandrel
- Removable collecting tray of mandrel
- Order No.: **2260 022 1000**
- **Range of application:**

Body material	Blind rivets Ø							
	2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4
Aluminium					■	■	■	■
Steel					■	■	■	■
Stainless steel					■	■	■	■



Recommended for RIVQUICK® Varilock

■ Applicable for these diameters of blind rivets.

Spare parts and accessories

RIVQUICK® high-strength blind rivets	Threepart set of clamping jaw	2260 190 0015
RIVQUICK® Varibolt	Special mouthpiece for Varibolt Ø 4.8	2260 210 0901
	Special mouthpiece for Varibolt Ø 6.4	2260 210 0902

Böllhoff International with companies in:

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

Apart from these 22 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.

Subject to technical change.
Reprinting, even in extract form, only permitted with express consent.
Observe protective note according to DIN 34.

ÖCEANUS

海聚貿易有限公司
HAI JU TRADING CO., LTD.

TEL: +886-2-2511-8900

FAX: +886-2-2511-8902

WEB: www.oceanus.com.tw

E-MAIL: hai.ju@msa.hinet.net

