

Multi-grip, aluminum alloy breakstem fasteners with a long and reliable track record in a wide range of applications and industries.



Key features and benefits

- Multi-grip capability accommodates wide variations in material thickness
- One fastener can be used to replace several standard grip fasteners thus reduced fastener inventory and simpler stock control
- Good hole fill provides strong, vibration resistant joints
- Compensates for irregular, oversized, slotted or misaligned holes
- Can stop sheet movement in non-standard holes
- Retained stem avoids damage, electrical problems or rattling caused by loose stems
- Provides a large blind side bearing area against the rear sheet
- Spreads the tail bearing load/clamp load on the rear sheet making it ideal for use in thin sheet materials

Specifications

Sizes:

.118" – 1/4"
(3.0 mm – 6.4 mm)

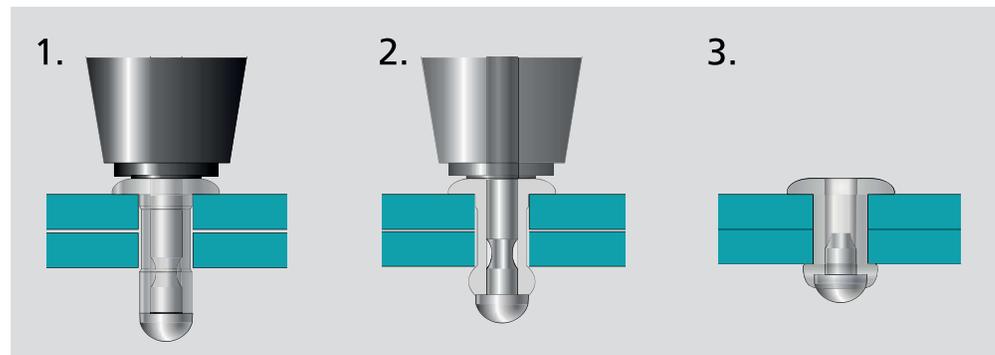
Materials:

Aluminum

Head Styles:

Dome, Large Flange,
Countersunk

Typical placing sequence



Please visit our website for fastener placing animations and technical data.

Assembly applications

- Automotive
- Commercial vehicles
- Domestic appliances
- Electronics
- Electrical equipment
- General light industrial
- Heating and ventilation

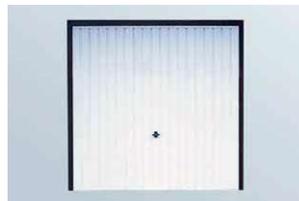
Garage doors



Domestic heating systems



Car chassis



Multi-grip, high strength steel and stainless steel break-stem fasteners.



Key features and benefits

- High shear and tensile strength provides strong, vibration resistant joints
- Stainless steel option provides high corrosion resistance and is ideal for applications requiring elevated temperatures
- Multi-grip capability accommodates wide variations in material thickness
- One fastener can be used to replace several standard grip fasteners thus reduced fastener inventory and simpler stock control
- Good hole fill compensates for irregular, oversized, slotted or misaligned holes and can stop movement in non-standard holes
- Retained stem avoids damage, electrical problems or rattling caused by loose stems
- Provides a large blind side bearing area against the rear sheet
- Spreads the tail bearing load/clamp load on the rear sheet making it ideal for use in thin sheet materials

Specifications

Sizes:

1/8" – 1/4"

(3.2 mm – 6.4 mm)

Materials:

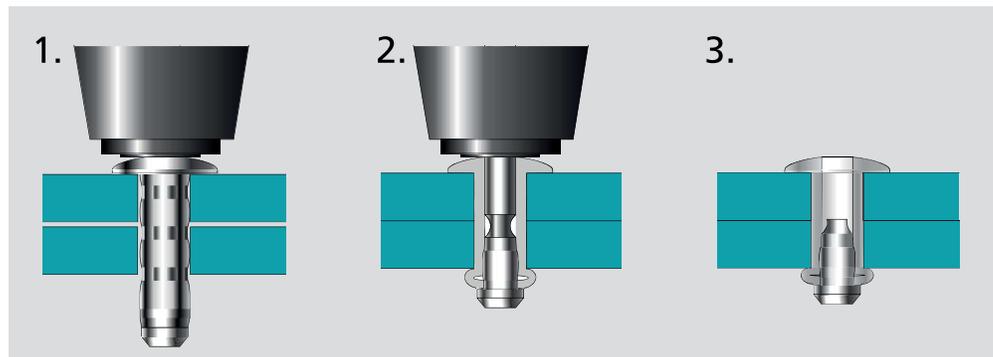
Steel, Stainless Steel

Head Styles:

Dome, Large Flange, Countersunk

Countersunk

Typical placing sequence



Please visit our website for fastener placing animations and technical data.

Assembly applications

- Automotive
- Commercial vehicles
- Domestic appliances
- Electronics
- Electrical equipment
- General light industrial
- Heating and ventilation

Snowmobile



Passenger air bag



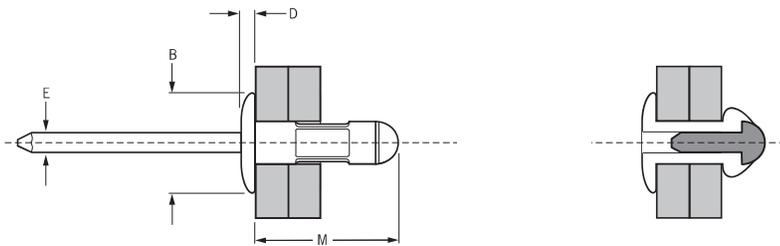
Roll-up security door





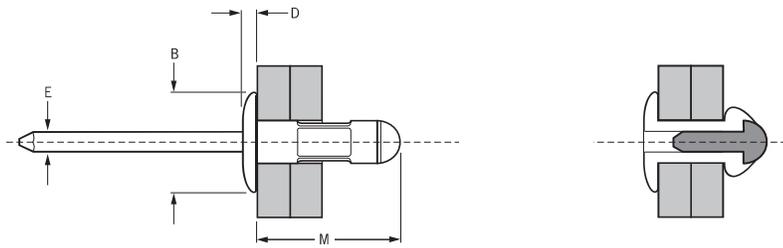
English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) Natural
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc coated	Revêtement zingué	Verzinkt	Zincato	Zincado

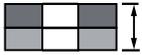
*: AA 5052, DIN 1725, AlMg2.5, Werkstoff 3.3523
 **: BS3111 Type 0, SAE 1015/1018/1022, DIN 1654, Cq15/Cq22



ø nom.					M max.	øB max.	D max.	øE max.			Part No.
	min.	max.	min.	max.							
.118" (3.0)	.031 (0.8)	.172 (4.3)	.122 (3.1)	.130 (3.3)	.360 (9.1)	.262 (6.7)	.051 (1.3)	.066 (1.7)	157 (0.70)	220 (0.98)	01661-05307
1/8" (3.2)	.031 (0.8)	.187 (4.8)	.128 (3.3)	.133 (4.2)	.410 (10.4)	.262 (6.7)	.051 (1.3)	.070 (1.8)	165 (0.73)	230 (1.02)	01661-00410
	.047 (1.2)	.250 (6.3)			.470 (12.0)						01661-00412
	.157 (4.0)	.312 (7.9)			.540 (13.6)						01661-00414
	.219 (5.5)	.375 (9.5)			.630 (16.0)						01661-00416
5/32" (4.0)	.020 (0.5)	.125 (3.2)	.161 (4.1)	.166 (5.0)	.370 (9.3)	.321 (8.2)	.061 (1.6)	.084 (2.2)	255 (1.13)	375 (1.67)	01661-00508
	.031 (0.8)	.187 (4.7)			.420 (10.7)						01661-00510
	.047 (1.2)	.250 (6.3)			.490 (12.5)						01661-00512
	.157 (4.0)	.375 (9.5)			.640 (16.2)						01661-00516
	.250 (6.4)	.500 (12.7)			.770 (19.6)						01661-00521

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)
 1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos



ø nom.					M max.	øB max.	D max.	øE max.	 lbf (kN) ¹⁾	 lbf (kN) ¹⁾	Part No.
	min.	max.	min.	max.							
3/16" (4.8)	.062 (1.6)	.250 (6.3)	.193 (4.9)	.198 (5.0)	.550 (13.9)	.396 (10.1)	.071 (1.8)	.112 (2.9)	345 (1.53)	525 (2.33)	01661-00613
	.187 (4.8)	.437 (11.1)			.740 (18.7)						01661-00619
	.187 (4.8)	.500 (12.7)			.800 (20.2)						01661-00621
	.500 (12.7)	.781 (19.8)			1.11 (28.2)						01661-00631
1/4" (6.4)	.060 (1.5)	.325 (8.3)	.261 (6.6)	.275 (6.9)	.660 (16.8)	.530 (13.5)	.105 (2.7)	.158 (4.0)	700 (3.1)	560 (2.50)	01610-04506 ²⁾

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos

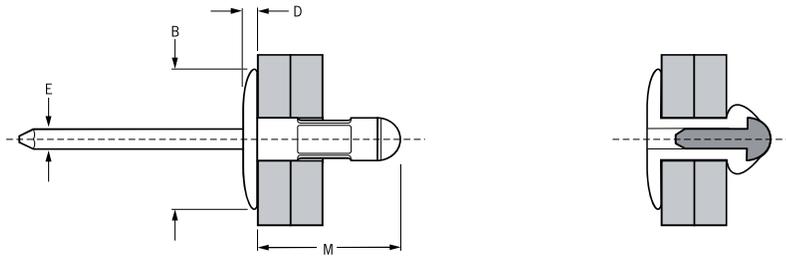
2) stem: zinc plated, clear trivalent passivated / tige: revêtement zingué, passivation claire trivalente / Dorn: verzinkt, klar chromatiert Cr6-frei / gambo: zincato, passivazione chiara trivalente / vástago: zincado, pasivado claro trivalente



English	Français	Deutsch	Italiano	Español
Large Flange	Tête large	Flachrundkopf extragroß	Testa larga	Cabeza ancha
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) Natural
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc coated	Revêtement zingué	Verzinkt	Zincato	Zincado

*: 1/8" + 5/32": Aluminum Alloy; 3/16": AA 5052, DIN 1725, AlMg2.5, Werkstoff 3.3523

** : 1/8" + 5/32": Carbon steel, zinc plated, clear passivated; 3/16": BS3111 Type 0, SAE 1015/1018/1022, DIN 1654, Cq15/Cq22



ø nom.	min. max.		min. max.		M max.	øB max.	D max.	øE max.	lb f (kN) ¹⁾	lb f (kN) ¹⁾	Part No.	
	min.	max.	min.	max.								
1/8" (3.2)	.031 (0.8)	.187 (4.8)	.131 (3.3)	.136 (3.4)	.410 (10.5)	.337 (8.6)	.045 (1.2)	.074 (1.9)	165 (0.73)	230 (1.02)	01641-00410	
	.062 (1.6)	.250 (6.4)			.470 (12.0)						01641-00412	
	.125 (3.2)	.312 (7.9)			.530 (13.5)						01641-00414	
	.187 (4.8)	.375 (9.5)			.590 (15.0)						01641-00416	
5/32" (4.0)	.125 (3.2)	.312 (7.9)	.161 (4.1)	.166 (4.2)	.550 (14.0)	.387 (9.9)	.058 (1.5)	.090 (2.3)	255 (1.13)	375 (1.67)	01641-00514	
3/16" (4.8)	.062 (1.6)	.250 (6.3)	.193 (4.9)	.199 (5.0)	.550 (13.9)	.635 (16.2)	.084 (2.2)	.112 (2.9)	345 (1.53)	472 (2.10)	01641-00613	
	.125 (3.2)	.366 (9.3)			.670 (17.0)						301 (1.34)	01641-00617
	.187 (4.8)	.437 (11.1)			.740 (18.7)						301 (1.34)	01641-00619
	.250 (6.4)	.500 (12.7)			.800 (20.2)						295 (1.31)	01641-00621
	.500 (12.7)	.781 (19.8)			1.110 (28.2)						320 (1.42)	01641-00631

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

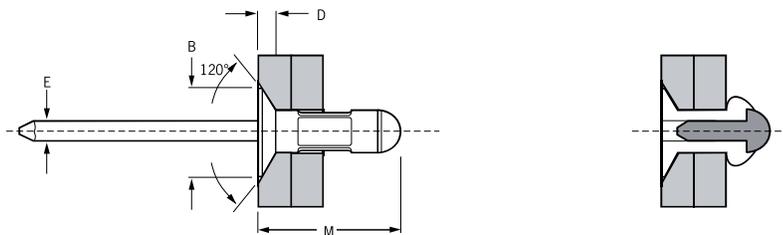
1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos

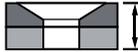
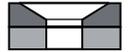


English	Français	Deutsch	Italiano	Español
120° Countersunk head	120° Tête fraisée	120° Senkkopf	120° Testa svasata	120° Cabeza avellanada
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) Natural
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc coated	Revêtement zingué	Verzinkt	Zincato	Zincado

*: AA 5052, DIN 1725, AlMg2.5, Werkstoff 3.3523

** : BS3111 Type 0, SAE 1015/1018/1022, DIN 1654, Cq15/Cq22



Ø nom.					M max.	ØB max.	D max.	ØE max.	 lbf (kN) ¹⁾	 lbf (kN) ¹⁾	Part No.
	min.	max.	min.	max.							
1/8" (3.2)	.093 (2.4)	.250 (6.3)	.128 (3.3)	.133 (3.4)	.480 (12.2)	.217 (5.6)	.050 (1.3)	.070 (1.8)	155 (0.69)	205 (0.91)	01604-00412
	.155 (4.0)	.312 (7.9)			.530 (13.4)				165 (0.73)	230 (1.02)	01604-00414
	.217 (5.5)	.375 (9.5)			.580 (14.8)						01604-00416
5/32" (4.0)	.109 (2.8)	.312 (7.9)	.161 (4.1)	.166 (4.2)	.560 (14.3)	.257 (6.6)	.052 (1.4)	.084 (2.2)	255 (1.13)	300 (1.33)	01604-00514
	.142 (3.6)	.346 (8.8)			.590 (15.1)						01604-00515
3/16" (4.8)	.125 (3.2)	.312 (7.9)	.193 (4.9)	.198 (5.0)	.610 (15.5)	.351 (9.0)	.069 (1.8)	.112 (2.9)	350 (1.55)	530 (2.35)	01604-00615
	.250 (6.3)	.500 (12.7)			.800 (20.4)				295 (1.31)		01604-00621

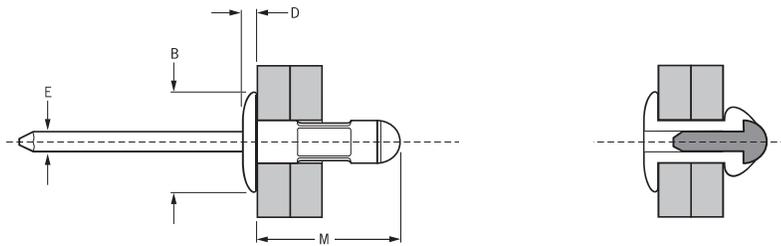
dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)
1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) Natural
Stem: Stainless steel** Natural	Tige: Inox** Brut	Dorn: Edelstahl** Blank	Gambo: Acciaio inox** Nessuna finitura	Vástago: Acero inoxidable** Natural

*: AA 5052, DIN 1725, AlMg2.5, Werkstoff 3.3523

** : ø 3.0 - 5/32": X5CrNi 18-10, Werkstoff 1.4301; ø 3/16": X3CrNiCu 18-9-4, Werkstoff 1.4567



ø nom.	min. max.		min. max.		M max.	øB max.	D max.	øE max.	lb _f (kN) ¹⁾	lb _f (kN) ¹⁾	Part No.	
	min.	max.	min.	max.								
.118" (3.0)	.031 (0.8)	.172 (4.3)	.122 (3.1)	.130 (3.3)	.360 (9.1)	.262 (6.7)	.051 (1.3)	.066 (1.7)	157 (0.70)	220 (0.98)	01663-05307	
1/8" (3.2)	.031 (0.8)	.187 (4.8)	.128 (3.3)	.133 (3.4)	.410 (10.4)	.262 (6.7)	.051 (1.3)	.070 (1.8)	165 (0.73)	230 (1.02)	01663-00410	
	.047 (1.2)	.250 (6.3)			.470 (12.0)						01663-00412	
	.157 (4.0)	.312 (7.9)			.540 (13.6)						01663-00414	
	.219 (5.5)	.375 (9.5)			.630 (16.0)						01663-00416	
5/32" (4.0)	.020 (0.5)	.125 (3.2)	.161 (4.1)	.166 (4.2)	.370 (9.3)	.321 (8.2)	.061 (1.6)	.084 (2.2)	255 (1.13)	375 (1.67)	01663-00508	
	.031 (0.8)	.187 (4.7)			.420 (10.7)						255 (1.13)	01663-00510
	.047 (1.2)	.250 (6.3)			.490 (12.5)						235 (1.04)	01663-00512
	.157 (4.0)	.375 (9.5)			.640 (16.2)						235 (1.04)	01663-00516
	.250 (6.4)	.500 (12.7)			.770 (19.6)						235 (1.04)	01663-00521
3/16" (4.8)	.062 (1.6)	.250 (6.3)	.193 (4.9)	.198 (5.0)	.550 (13.9)	.396 (10.1)	.071 (1.8)	.112 (2.9)	345 (1.53)	525 (2.33)	01663-00613	
	.187 (4.8)	.437 (11.1)			.740 (18.7)						295 (1.31)	01663-00619
	.187 (4.8)	.500 (12.7)			.800 (20.2)						295 (1.31)	01663-00621
	.500 (12.7)	.781 (19.8)			1.110 (28.2)						320 (1.42)	01663-00631

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

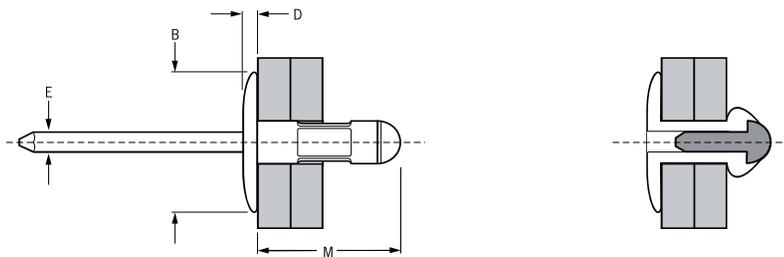
1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos



English	Français	Deutsch	Italiano	Español
Large Flange	Tête large	Flachrundkopf extragroß	Testa larga	Cabeza ancha
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) Natural
Stem: Stainless steel** Natural	Tige: Inox** Brut	Dorn: Edelstahl** Blank	Gambo: Acciaio inox** Nessuna finitura	Vástago: Acero inoxidable** Natural

*: AA 5052, DIN 1725, AlMg2.5, Werkstoff 3.3523

** : BS3111, 321S31, AISI 321, Werkstoff 1.4541



ø nom.					M max.	øB max.	D max.	øE max.	 lbf (kN) ¹⁾	 lbf (kN) ¹⁾	Part No.
	min.	max.	min.	max.							
3/16" (4.8)	.062 (1.6)	.250 (6.3)	.193 (4.9)	.199 (5.0)	.534 (13.6)	.637 (16.2)	.084 (2.2)	.112 (2.9)	315 (1.40)	450 (2.0)	01643-00613
	.250 (6.4)	.500 (12.7)			.774 (19.7)				270 (1.20)		01643-00621
	.500 (12.7)	.781 (19.8)			1.086 (27.6)				292 (1.30)		01643-00631

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

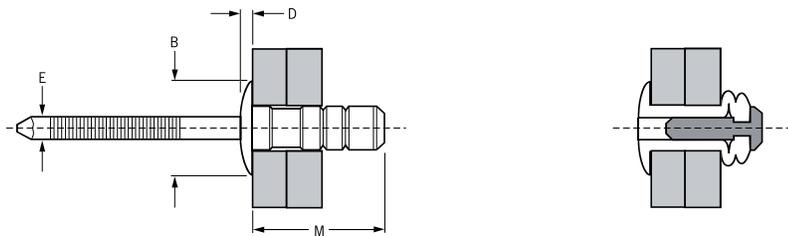
1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos



English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Body: Low carbon steel*	Corps: Acier bas carbone*	Hülse: Stahl*	Corpo: Acciaio a basso tenore di carbonio*	Cuerpo: Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado

*: BS3111 Type 0, SAE 1008, DIN 1654, QSt 34-3

** : BS3111 Type 0, SAE 1010/1015/1018/1022, DIN 17210, Cq10 / DIN 1654 Cq10/Cq15/Cq22



ø					M	øB	D	øE			Part No.
	nom.	min.	max.	min.							
1/8"	.039	.236	.129	.134	.570	.287	.037	.087	202	263	OBS01-00414
(3.2)	(1.0)	(6.0)	(3.3)	(3.4)	(14.5)	(7.3)	(1.0)	(2.2)	(0.90)	(1.17)	
5/32"	.079	.315	.161	.166	.630	.322	.052	.112	344	405	OBS01-00516
(4.0)	(2.0)	(8.0)	(4.1)	(4.2)	(16.0)	(8.2)	(1.4)	(2.9)	(1.53)	(1.80)	
3/16"	.060	.200	.192	.196	.480	.397	.061	.120	585	647	OBS01-00612
	(1.5)	(5.1)			(12.2)						
	.060	.250			.540						
	(1.5)	(6.3)			(13.8)						
(4.8)	.059	.354	(4.9)	(5.0)	.670	(10.1)	(1.6)	(3.1)	(2.60)	(2.88)	OBS01-00614
	(1.5)	(9.0)			(17.1)						OBS01-00618
(6.3)	.250	.500	(6.3)	(12.7)	.790	(20.1)					OBS01-00622
	(6.3)	(12.7)			(20.1)						
1/4"	.060	.300	.261	.275	.660	.530	.105	.158	700	800	01610-04844 ¹⁾
(6.4)	(1.5)	(7.6)	(6.6)	(6.9)	(16.8)	(13.5)	(2.7)	(4.0)	(3.11)	(3.56)	

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

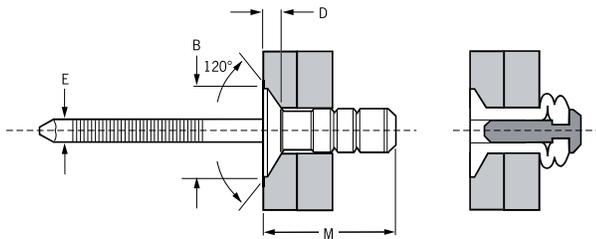
1) zinc plated, clear trivalent passivated / revêtement zingué, passivation claire trivalente / verzinkt, klar chromatiert Cr6-frei / zincato, passivazione chiara trivalente / zincado, pasivado claro trivalente

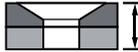
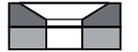


English	Français	Deutsch	Italiano	Español
120° Countersunk head	120° Tête fraisée	120° Senkkopf	120° Testa svasata	120° Cabeza avellanada
Body: Low carbon steel*	Corps: Acier bas carbone*	Hülse: Stahl*	Corpo: Acciaio a basso tenore di carbonio*	Cuerpo: Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado

*: BS3111 Type 0, SAE 1008, DIN 1654, QSt 34-3

** : BS3111 Type 0, SAE 1010/1015/1018/1022, DIN 17210, Cq10 / DIN 1654 Cq10/Cq15/Cq22



ø					M	øB	D	øE			Part No.
	nom.	min.	max.	min.							
1/8"	.039	.236	.129	.134	.551	.232	.039	.084	202	263	OBS04-00414
(3.2)	(1.0)	(6.00)	(3.3)	(3.4)	(14.0)	(5.9)	(1.0)	(2.2)	(0.90)	(1.17)	
3/16"	.093	.250	.192	.196	.540	.351	.055	.118	450	650	OBS04-00614
	(2.36)	(6.35)			(13.8)						OBS04-C0614
	.165	.250			.540						OBS04-00618
	(4.19)	(6.35)			(13.8)						
(4.8)	.093	.375	(4.9)	(5.0)	.670	(8.9)	(1.4)	(3.0)	(2.00)	(2.89)	OBS04-00622
	(2.36)	(9.52)			(17.1)						
	.250	.500			.790						
	(6.35)	(12.70)			(20.1)						

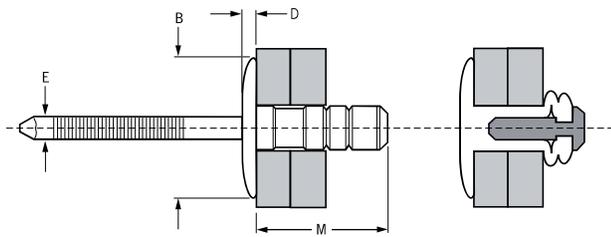
dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

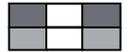


English	Français	Deutsch	Italiano	Español
Large Flange	Tête large	Flachrundkopf extragroß	Testa larga	Cabeza ancha
Body: Low carbon steel*	Corps: Acier bas carbone*	Hülse: Stahl*	Corpo: Acciaio a basso tenore di carbonio*	Cuerpo: Acero bajo en carbono*
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado
Stem: Low carbon steel**	Tige: Acier bas carbone**	Dorn: Stahl**	Gambo: Acciaio a basso tenore di carbonio**	Vástago: Acero bajo en carbono**
Zinc plated	Revêtement zingué	Verzinkt	Zincato	Zincado

*: BS3111 Type 0, SAE 1008, DIN 1654, QSt 34-3

** : BS3111 Type 0, SAE 1010/1015/1018/1022, DIN 17210, Cq10 / DIN 1654 Cq10/Cq15/Cq22



ø nom.					M max.	øB max.	D max.	øE	 lbf (kN) min.	 lbf (kN) min.	Part No.
	min.	max.	min.	max.							
3/16" (4.8)	.060 (1.50)	.250 (6.35)	.192 (4.9)	.196 (5.0)	.540 (13.8)	.637 (16.2)	.081 (2.1)	.118 (3.0)	585 (2.60)	647 (2.88)	OBE34-00614
	.060 (1.50)	.354 (9.00)			.670 (17.1)						OBE34-00618
	.250 (6.30)	.500 (12.70)			.790 (20.1)						OBE34-00622

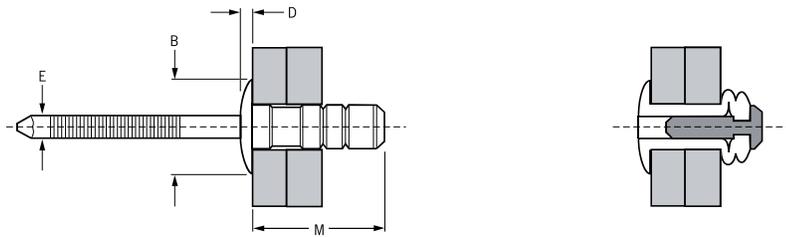
dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)

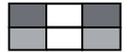


English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Body: Stainless steel* Polished	Corps: Inox* Poli	Hülse: Edelstahl* Blank	Corpo: Acciaio inox* Lucido	Cuerpo: Acero inoxidable* Pulido
Stem: Stainless steel** Natural	Tige: Inox** Brut	Dorn: Edelstahl** Unbehandelt	Gambo: Acciaio inox** Nessuna finitura	Vástago: Acero inoxidable** Natural

*: BS3111 394S17, Werkstoff 1.4567

** : BS3111 304S17, AISI 304, Werkstoff 1.4301 / BS3111 321S31, AISI 321, Werkstoff 1.4541



ø					M	øB	D	øE			Part No.
	nom.	min.	max.	min.							
1/8"	.039	.236	.129	.134	.570	.287	.037	.087	364	445	OBS11-00414
(3.2)	(1.0)	(6.0)	(3.3)	(3.4)	(14.5)	(7.3)	(1.0)	(2.2)	(1.62)	(1.98)	
5/32"	.079	.315	.161	.166	.630	.322	.052	.112	546	728	OBS11-00516
(4.0)	(2.0)	(8.0)	(4.1)	(4.2)	(16.0)	(8.2)	(1.4)	(2.9)	(2.43)	(3.24)	
3/16"	.059	.354	.192	.196	.670	.397	.061	.120	931	1012	OBS11-00618
(4.8)	(1.5)	(9.0)	(4.9)	(5.0)	(17.1)	(10.1)	(1.6)	(3.1)	(4.14)	(4.50)	

dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)