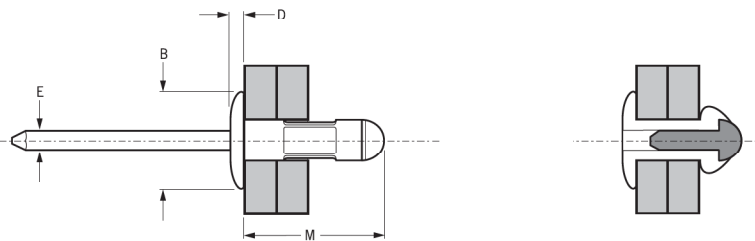








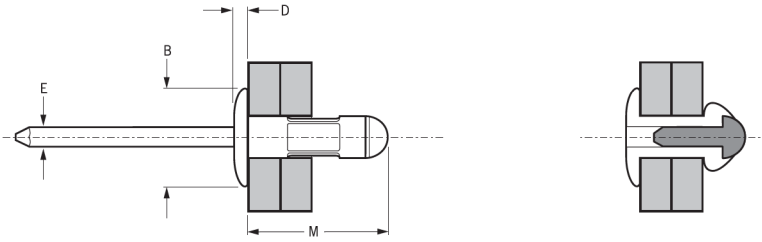
English	Français	Deutsch	Italiano	Español
Dome head	Tête plate	Flachrundkopf	Testa tonda	Cabeza alomada
Body: Aluminum alloy* (2.5 % Mg) Natural	Corps: Alliage d'aluminium* (2.5% Mg) Brut	Hülse: Aluminium* (2.5 % Mg) Blank	Corpo: Lega di alluminio* (2.5% Mg) Nessuna finitura	Cuerpo: Aluminio* (2.5% Mg) 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.	 lbf (kN) ¹⁾	 lbf (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)	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)				255 (1.13)		01661-00510
	.047 (1.2)	.250 (6.3)			.490 (12.5)				235 (1.04)		01661-00512
	.157 (4.0)	.375 (9.5)			.640 (16.2)				235 (1.04)		01661-00516
	.250 (6.4)	.500 (12.7)			.770 (19.6)				235 (1.04)		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.			Part No.		
	min.	max.	min.	max.								lbf (kN) ¹⁾	lbf (kN) ¹⁾
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)						295 (1.31)		01661-00619
	.187 (4.8)	.500 (12.7)			.800 (20.2)						295 (1.31)		01661-00621
	.500 (12.7)	.781 (19.8)			1.11 (28.2)						320 (1.42)		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)

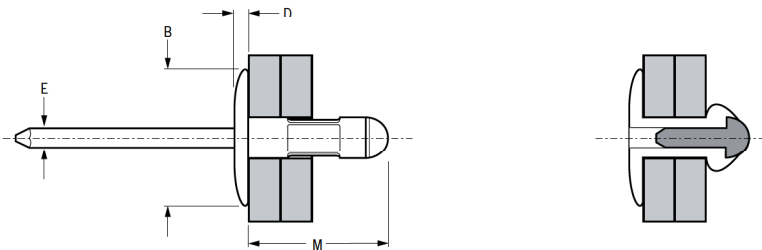
1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos





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": B53111 Type 0, SAE 1015/1018/1022, DIN 1654, Cq15/Cq22



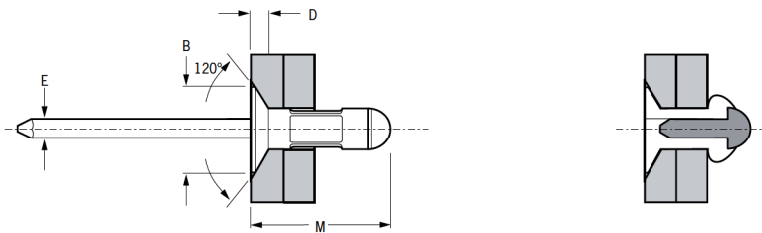
ø nom.					M max.	øB max.	D max.	øE max.	 lbf (kN) ¹⁾	 lbf (kN) ¹⁾	Part No.	
	min.	max.	min.	max.								
1/8" (3.2)	.031 (0.8)	.187 (4.8)	.131 (3.3)	.136 (3.4)	.410 (10.5)	.337 (8.6)	.045 (1.2)	.074 (1.9)	165 (0.73)	230 (1.02)	01641-00410	
	.062 (1.6)	.250 (6.4)			.470 (12.0)						01641-00412	
	.125 (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



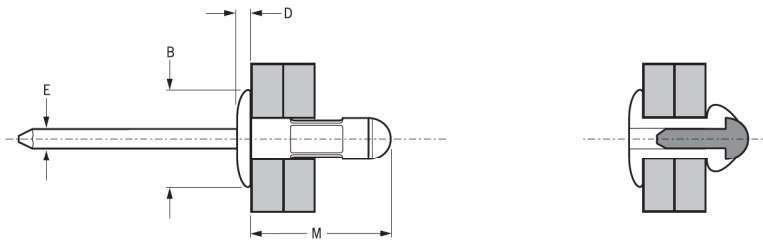
ø nom.					M max.	øB max.	D max.	øE max.	 lbf (kN) ¹⁾	 lbf (kN) ¹⁾	Part No.
	min.	max.	min.	max.							
1/8" (3.2)	.093 (2.4)	.250 (6.3)	.128 (3.3)	.133 (3.4)	.480 (12.2)	.217 (5.6)	.050 (1.3)	.070 (1.8)	155 (0.69)	205 (0.91)	01604-00412
	.155 (4.0)	.312 (7.9)			.530 (13.4)				165 (0.73)	230 (1.02)	01604-00414
	.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.					M max.	øB max.	D max.	øE max.	 lbf (kN) ¹⁾	 lbf (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)						01663-00510
	.047 (1.2)	.250 (6.3)			.490 (12.5)						01663-00512
	.157 (4.0)	.375 (9.5)			.640 (16.2)						01663-00516
	.250 (6.4)	.500 (12.7)			.770 (19.6)						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)						01663-00619
	.187 (4.8)	.500 (12.7)			.800 (20.2)						01663-00621
	.500 (12.7)	.781 (19.8)			1.110 (28.2)						01663-00631

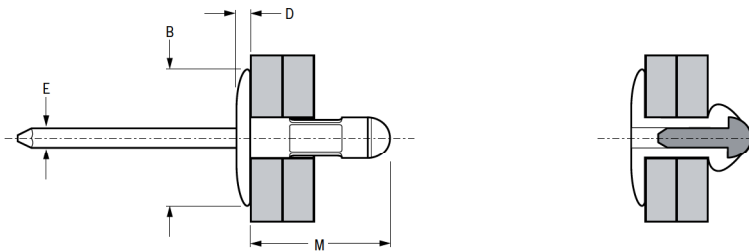
dimensions in inches and (mm) / en pouces et (millimètre) / alle Maße in Zoll und (mm) / in pollici e (millimetri) / en pulgadas y (milímetros)
 1) typical values / valeurs moyennes / typische Werte / Valori tipici / valores típicos







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