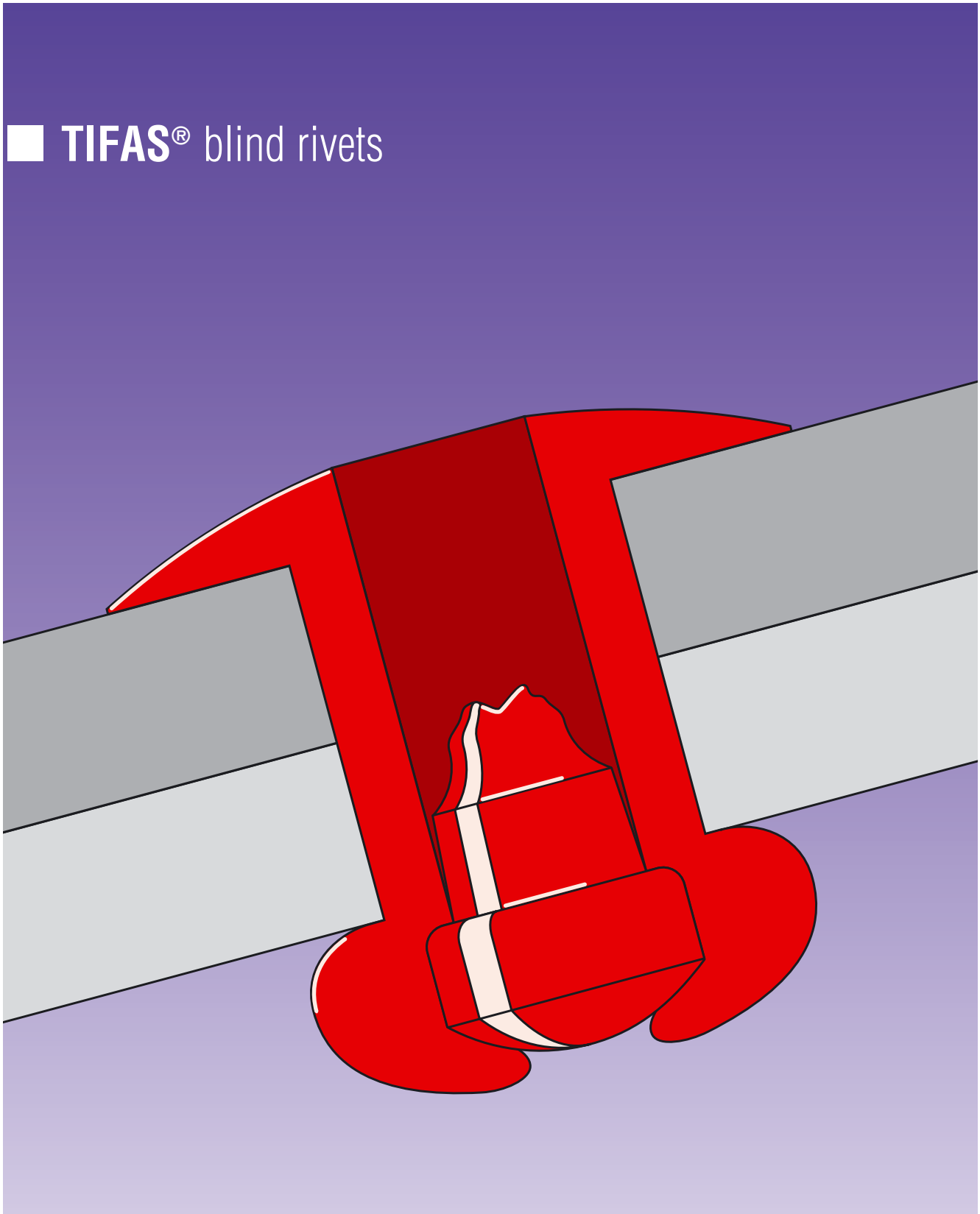
TIFAS® blind rivets



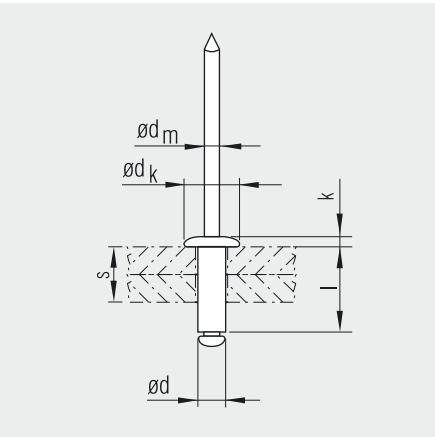
TITGEMEYER Tb1405GB(1011)1

Dome head

Material

Sleeve
Aluminium AlMg 3/3.5

Mandrel
Steel zinc



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
2.4	2.5	0.5 – 2.5	5.0	4.2 – 5.0	1.0	1.6	400	500	**424 100**
		1.5 – 3.5	6.0	4.2 – 5.0	1.0	1.6	400	500	**424 101**
		4.0 – 6.0	8.0	4.2 – 5.0	1.0	1.6	400	500	**424 102**
3.0	3.1	0.5 – 2.0	5.0	5.4 – 6.3	1.3	2.0	700	1000	**424 110**
		1.5 – 3.0	6.0	5.4 – 6.3	1.3	2.0	700	1000	**424 111**
		3.0 – 5.0	8.0	5.4 – 6.3	1.3	2.0	700	1000	**424 112**
		5.0 – 7.0	10.0	5.4 – 6.3	1.3	2.0	700	1000	**424 113**
		7.0 – 9.0	12.0	5.4 – 6.3	1.3	2.0	700	1000	**424 114**
3.2	3.3	1.0 – 2.5	6.0	5.8 – 6.7	1.3	2.0	900	1200	**424 121**
		2.5 – 4.5	8.0	5.8 – 6.7	1.3	2.0	900	1200	**424 122**
		4.5 – 6.5	10.0	5.8 – 6.7	1.3	2.0	900	1200	**424 123**
		6.5 – 8.5	12.0	5.8 – 6.7	1.3	2.0	900	1200	**424 124**
		8.5 – 10.5	14.0	5.8 – 6.7	1.3	2.0	900	1200	**424 125**
		10.5 – 12.5	16.0	5.8 – 6.7	1.3	2.0	900	1200	**424 126**
		12.5 – 14.5	18.0	5.8 – 6.7	1.3	2.0	900	1200	**424 127**
		17.0 – 21.0	25.0	5.8 – 6.7	1.3	2.0	900	1200	**424 129**
4.0	4.1	1.0 – 2.5	6.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 130**
		2.5 – 4.5	8.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 131**
		4.5 – 6.5	10.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 132**
		6.5 – 8.5	12.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 133**
		8.0 – 10.0	14.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 134**
		10.0 – 11.0	16.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 135**
		11.0 – 13.0	18.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 136**
		13.0 – 15.0	20.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 137**
		15.0 – 20.0	25.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 138**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.

Continue next page

Continued

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
4.8	4.9 – 5.0	1.0 – 2.5	7.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 141**
		2.5 – 4.5	9.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 142**
		4.0 – 6.0	10.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 143**
		6.0 – 8.0	12.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 140**
		8.0 – 10.0	14.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 144**
		9.0 – 11.0	16.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 145**
		11.0 – 13.0	18.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 146**
		13.0 – 15.0	20.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 147**
		15.0 – 16.0	22.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 148**
		16.0 – 19.0	25.0	8.3 – 10.1	2.0	3.0	2100	2800	**429 165**
		19.0 – 24.0	30.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 152**
		24.0 – 30.0	35.0	8.3 – 10.1	2.0	3.0	2100	2800	**424 153**
5.0	5.1 – 5.2	0.5 – 1.5	6.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 160**
		1.5 – 3.5	8.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 161**
		3.5 – 6.0	10.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 162**
		6.0 – 8.0	12.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 163**
		8.0 – 10.0	14.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 164**
		9.0 – 11.0	16.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 165**
		10.0 – 14.0	18.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 166**
		14.0 – 15.0	20.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 167**
		15.0 – 20.0	25.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 169**
		23.0 – 25.0	30.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 171**
		25.0 – 30.0	35.0	8.7 – 10.5	2.1	3.0	2200	2800	**424 173**
6.0	6.1	1.0 – 2.0	8.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 181**
		2.0 – 4.0	10.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 182**
		3.0 – 6.0	12.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 183**
		6.0 – 11.0	16.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 184**
		9.0 – 12.0	18.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 185**
		13.5 – 16.0	20.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 186**[2]
		12.0 – 16.0	22.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 187**
		20.0 – 24.0	27.0	10.8 – 12.6	2.5	3.4	3400	4600	**424 188**
6.4	6.5	2.0 – 4.0	10.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 192**
		3.0 – 5.0	12.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 193**
		3.0 – 6.0	13.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 194**
		6.0 – 9.0	16.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 195**
		9.0 – 12.0	19.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 196**
		12.0 – 18.0	25.0	11.6 – 13.4	2.7	3.9	3600	5600	**424 198**
8.0	8.0 – 8.1	4.0 – 9.5	15.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 110**[2]
		9.5 – 12.5	18.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 111**[2]
		12.5 – 16.5	22.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 112**[2]
		16.5 – 20.5	26.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 113**[2]
		20.5 – 24.5	30.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 114**[2]
		24.5 – 29.5	35.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 115**[2]
		29.5 – 34.5	40.0	12.5 – 14.3	2.2	4.1	6600	9600	**429 116**[2]

[1] *Minimum based on rivet failure*
[2] *Mandrel Aluminium AlMg 5*

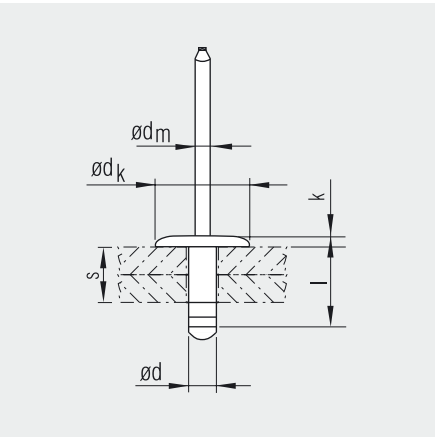
We reserve the right to amend specifications at any time.

Large dome head

Material

Sleeve
Aluminium AlMg 3/3.5

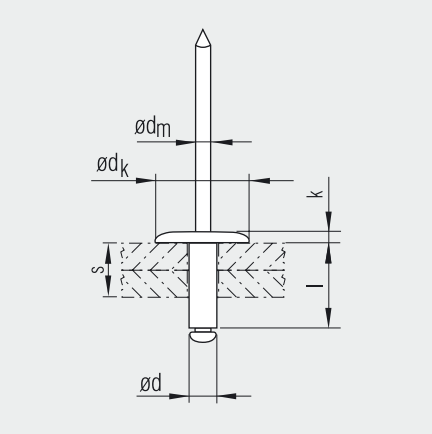
Mandrel
Steel zinc



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.2	3.3	5.0 – 7.0	10.0	9.7 – 10.3	1.3	2.0	700	1000	**426 123**
4.0	4.1	5.0 – 6.5	10.0	11.7 – 12.3	1.7	2.5	1200	1700	**426 132**
4.8	4.9 – 5.0	4.0 – 5.0	10.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 152**
		6.0 – 8.0	12.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 153**
		7.0 – 9.0	14.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 154**
		9.0 – 11.0	16.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 155**
		11.0 – 13.0	18.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 156**
		13.0 – 15.0	20.0	13.7 – 14.3	2.0	3.0	2100	2800	**426 157**
5.0	5.1	4.5 – 6.0	10.0	13.7 – 14.3	2.1	3.0	2200	2800	**426 162**
		8.5 – 12.0	16.0	13.7 – 14.3	2.1	3.0	2200	2800	**426 165**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.



Extra large dome head

Material

Sleeve
Aluminium AlMg 3/3.5

Mandrel
Steel zinc

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
4.8	4.9 – 5.0	10.5 – 14.0	18.0	15.5 – 17.0	2.0	3.0	2100	2800	**426 146**
		20.0 – 25.0	30.0	15.5 – 17.0	2.0	3.0	2100	2800	**426 151**
5.0	5.1 – 5.2	5.0 – 7.0	12.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 171**
		8.0 – 10.0	14.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 172**
		10.0 – 11.5	16.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 173**
		11.5 – 15.5	20.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 175**
		15.0 – 20.0	25.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 177**
		20.5 – 25.0	30.0	15.5 – 17.0	2.1	3.0	2200	2800	**426 179**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.

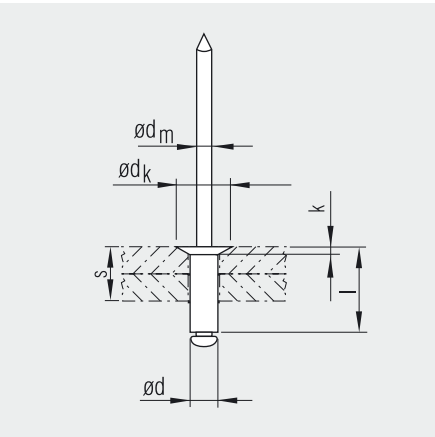
TIFAS® blind rivets

Countersunk head 120°

Material

Sleeve
Aluminium AlMg 3/3.5

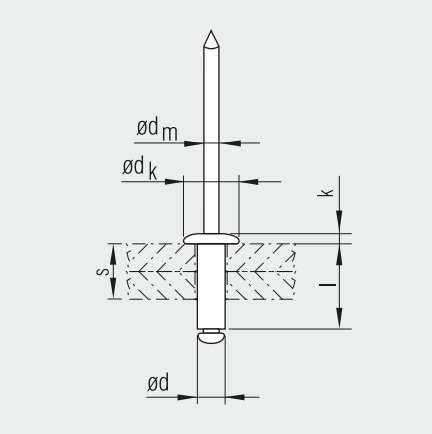
Mandrel
Steel zinc



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.0	3.1 – 3.2	2.0 – 3.5	6.5	5.4 – 6.3	1.3	2.0	550	850	**425 111**
4.0	4.1	0.5 – 2.0	6.0	6.9 – 8.4	1.7	2.5	1400	2000	**425 130**
		3.0 – 4.0	8.0	6.9 – 8.4	1.7	2.5	1400	2000	**425 131**
		5.0 – 6.0	10.0	6.9 – 8.4	1.7	2.5	1400	2000	**425 132**
		7.0 – 8.0	12.0	6.9 – 8.4	1.7	2.5	1400	2000	**425 133**
		8.0 – 10.0	14.0	6.9 – 8.4	1.7	2.5	1400	2800	**425 134**
4.8	4.9 – 5.0	6.0 – 8.0	12.0	8.3 – 10.1	2.0	3.0	2100	2800	**425 143**
		7.0 – 9.0	14.0	8.3 – 10.1	2.0	3.0	2100	2800	**425 144**
		10.0 – 12.0	16.0	8.3 – 10.1	2.0	3.0	2100	2800	**425 145**
5.0	5.1	3.0 – 4.5	8.0	8.7 – 10.5	2.1	3.0	2200	2800	**425 161**
		6.0 – 8.0	12.0	8.7 – 10.5	2.1	3.0	2200	2800	**425 163**
		12.5 – 16.0	20.0	8.7 – 10.5	2.1	3.0	2200	2800	**425 167**
		16.0 – 20.0	25.0	8.7 – 10.5	2.1	3.0	2200	2800	**425 169**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.



Dome head

Material

Sleeve
Aluminium AlMg 3/3.5

Mandrel
Stainless steel

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
4.0	4.1	1.0 – 3.0	7.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 230**
		3.0 – 4.5	8.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 231**
		5.0 – 6.5	10.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 232**
		6.5 – 8.5	12.0	6.9 – 8.4	1.7	2.5	1400	2000	**424 233**

[1] *Minimum based on rivet failure*

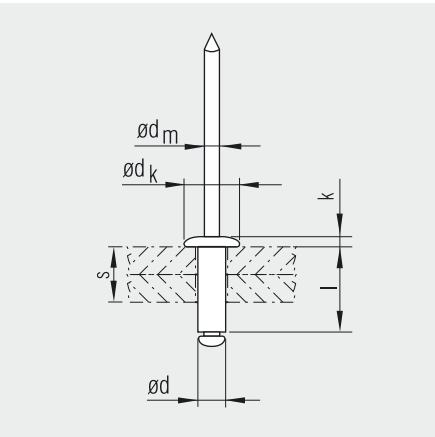
We reserve the right to amend specifications at any time.

Dome head

Material

Sleeve
Steel zinc, passivate

Mandrel
Steel zinc



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	Part No.
3.0	3.1	1.5 – 3.0	6.0	5.4 – 6.3	1.3	2.2	1100	1400	**424 010**
		3.0 – 5.0	8.0	5.4 – 6.3	1.3	2.2	1100	1400	**424 011**
		5.0 – 7.0	10.0	5.4 – 6.3	1.3	2.2	1100	1400	**424 012**
		7.0 – 9.0	12.0	5.4 – 6.3	1.3	2.2	1100	1400	**424 013**
3.2	3.3	1.0 – 2.5	6.0	5.8 – 6.7	1.3	2.2	1300	1600	**424 020**
		2.5 – 4.5	8.0	5.8 – 6.7	1.3	2.2	1300	1600	**424 021**
		4.5 – 6.5	10.0	5.8 – 6.7	1.3	2.2	1300	1600	**424 022**
		6.5 – 8.5	12.0	5.8 – 6.7	1.3	2.2	1300	1600	**424 023**
		8.5 – 10.5	14.0	5.8 – 6.7	1.3	2.2	1300	1600	**424 024**
4.0	4.1	1.0 – 2.5	6.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 030**
		2.5 – 4.5	8.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 031**
		4.5 – 6.5	10.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 032**
		6.5 – 8.5	12.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 033**
		8.0 – 10.0	14.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 034**
		10.0 – 11.0	16.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 035**
		17.0 – 20.0	25.0	6.9 – 8.4	1.7	2.8	2000	2700	**424 039**
4.8	4.9 – 5.0	0.5 – 1.5	6.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 050**
		1.5 – 3.5	8.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 051**
		3.5 – 6.0	10.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 049**
		6.0 – 8.0	12.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 053**
		8.0 – 10.0	14.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 054**
		9.0 – 11.0	16.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 055**
		16.0 – 19.0	25.0	8.3 – 10.1	2.0	3.5	3300	4700	**424 057**
5.0	5.1 – 5.2	– 2.0	6.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 060**
		2.0 – 3.5	8.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 061**
		3.5 – 6.0	10.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 062**
		6.0 – 8.0	12.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 063**
		8.0 – 10.0	14.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 064**
		9.5 – 11.0	16.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 065**
		11.0 – 13.0	18.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 066**
		13.0 – 15.0	20.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 067**
		15.0 – 20.0	25.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 069**
		20.0 – 25.0	30.0	8.7 – 10.5	2.1	3.5	3400	4700	**424 070**

[1] *Minimum based on rivet failure*

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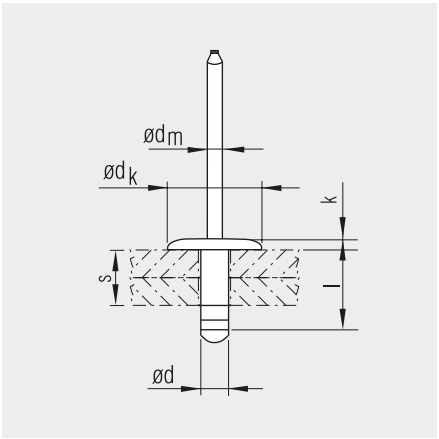
Continue next page

Continued

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
6.0	6.1	2.5 – 4.5	10.0	10.8 – 12.6	2.5	3.5	4400	5900	**424 082**
		3.0 – 6.0	12.0	10.8 – 12.6	2.5	3.5	4400	5900	**424 083**
		6.0 – 9.0	15.0	10.8 – 12.6	2.5	3.5	4400	5900	**424 084**
		9.0 – 12.0	18.0	10.8 – 12.6	2.5	3.5	4400	5900	**424 086**
6.4	6.5	3.0 – 6.0	12.0	11.6 – 13.4	2.7	4.0	4900	7000	**424 092**
		5.0 – 8.0	14.0	11.6 – 13.4	2.7	4.0	4900	7000	**424 093**
		7.0 – 10.0	17.0	11.6 – 13.4	2.7	4.0	4900	7000	**424 094**
		10.0 – 14.0	21.0	11.6 – 13.4	2.7	4.0	4900	7000	**424 095**
		15.0 – 18.0	26.0	11.6 – 13.4	2.7	4.0	4900	7000	**424 096**

[1] *Minimum based on rivet failure*



Large dome head

Material

Sleeve
Steel zinc, passivate

Mandrel
Steel zinc

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
4.8	4.9 – 5.0	1.0 – 6.0	11.0	13.7 – 14.3	2.0	3.5	3300	4700	**426 053**
		6.0 – 9.5	14.5	13.7 – 14.3	2.0	3.5	3300	4700	**426 054**
		9.5 – 12.5	17.5	13.7 – 14.3	2.0	3.5	3300	4700	**426 056**

[1] *Minimum based on rivet failure*

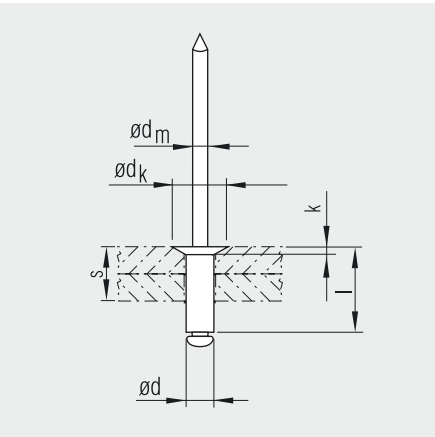
We reserve the right to amend specifications at any time.

Countersunk head 120°

Material

Sleeve
Steel zinc, passivate

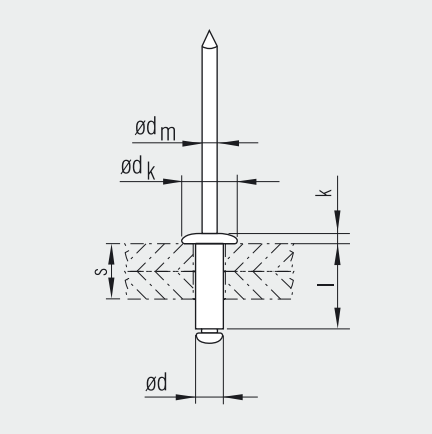
Mandrel
Steel zinc



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.2	3.3	6.0 – 8.0	11.0	5.8 – 6.7	1.3	2.2	1300	1600	**425 022**
4.0	4.1	1.0 – 2.5	6.0	6.9 – 8.4	1.7	2.8	2000	2700	**425 030**
		4.0 – 6.0	10.0	6.9 – 8.4	1.7	2.8	2000	2700	**425 032**
		6.0 – 8.0	12.0	6.9 – 8.4	1.7	2.8	2000	2700	**425 033**
4.8	4.9 – 5.0	4.0 – 5.0	10.0	8.3 – 10.1	2.0	3.5	3300	4700	**425 042**
		5.0 – 7.0	12.0	8.3 – 10.1	2.0	3.5	3300	4700	**425 043**
		8.0 – 12.0	16.0	8.3 – 10.1	2.0	3.5	3300	4700	**425 045**
		11.0 – 13.0	18.0	8.3 – 10.1	2.0	3.5	3300	4700	**425 046**
		11.0 – 15.0	20.7	8.3 – 10.1	2.0	3.5	3300	4700	**425 047**
5.0	5.1	11.0 – 13.0	18.0	8.7 – 10.5	2.1	3.5	3400	4700	**425 066**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.



Dome head

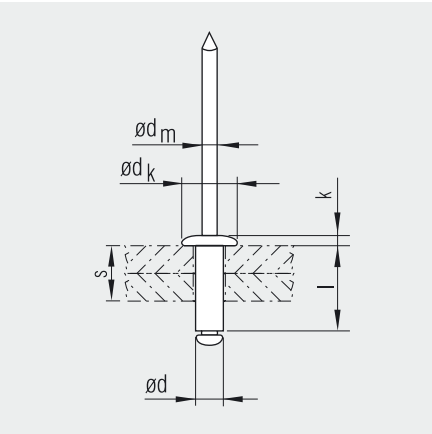
Material

Sleeve
Copper/nickel

Mandrel
Steel zinc

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
5.0	5.1	16.0 – 21.0	25.0	8.7 – 10.5	2.1	3.5	3700	5500	**424 469**

[1] *Minimum based on rivet failure*



Dome head

Material

Sleeve
Copper/nickel

Mandrel
Stainless steel AISI 304

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
4.0	4.1	8.5 – 12.0	16.0	6.9 – 8.4	1.7	2.8	2000	3400	**424 535**

[1] *Minimum based on rivet failure*

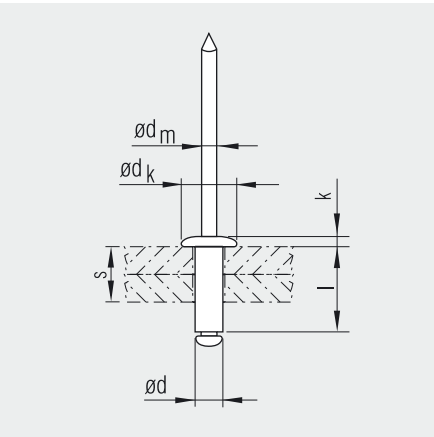
We reserve the right to amend specifications at any time.

Dome head
with grooved mandrel

Material

Sleeve
Stainless steel A2 (1.4301)

Mandrel
Stainless steel A2 (1.4301)



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.0	3.1	1.0 – 3.0	6.0	6.5	1.0	1.9	1600	2000	**427 110 001**
		3.0 – 5.0	8.0	6.5	1.0	1.9	1600	2000	**427 111 001**
		5.0 – 7.0	10.0	6.5	1.0	1.9	1600	2000	**427 112 001**
		7.0 – 9.0	12.0	6.5	1.0	1.9	1600	2000	**427 113 001**
		9.0 – 12.0	15.0	6.5	1.0	1.9	1600	2000	**427 114 001**
3.2	3.3	0.5 – 2.0	4.0	6.5	1.0	2.0	1800	2500	**427 120 001**
		1.0 – 3.0	6.0	6.5	1.0	2.0	1800	2500	**427 121 001**
		3.0 – 5.0	8.0	6.5	1.0	2.0	1800	2500	**427 122 001**
		5.0 – 7.0	10.0	6.5	1.0	2.0	1800	2500	**427 123 001**
		7.0 – 9.0	12.0	6.5	1.0	2.0	1800	2500	**427 124 001**
		9.0 – 12.0	15.0	6.5	1.0	2.0	1800	2500	**427 125 001**
		12.0 – 14.0	18.0	6.5	1.0	2.0	1800	2500	**427 126 001**
4.0	4.1	1.0 – 2.5	6.0	8.0	1.3	2.5	3100	3800	**427 129 001**
		2.5 – 4.5	8.0	8.0	1.3	2.5	3100	3800	**427 131 001**
		4.5 – 6.5	10.0	8.0	1.3	2.5	3100	3800	**427 132 001**
		6.5 – 9.5	13.0	8.0	1.3	2.5	3100	3800	**427 133 001**
		9.5 – 12.0	16.0	8.0	1.3	2.5	3100	3800	**427 136 001**
		12.0 – 14.0	18.0	8.0	1.3	2.5	3100	3800	**427 137 001**
		14.0 – 16.0	20.0	8.0	1.3	2.5	3100	3800	**427 138 001**
4.8	4.9	1.5 – 4.0	8.0	9.5	1.4	2.9	4500	6000	**427 139 001**
		4.0 – 6.0	10.0	9.5	1.4	2.9	4500	6000	**427 140 001**
		6.0 – 8.0	12.0	9.5	1.4	2.9	4500	6000	**427 141 001**
		8.0 – 9.5	14.0	9.5	1.4	2.9	4500	6000	**427 192 001**
		9.5 – 11.0	16.0	9.5	1.4	2.9	4500	6000	**427 143 001**
		11.0 – 13.0	18.0	9.5	1.4	2.9	4500	6000	**427 194 001**
		11.0 – 15.0	20.0	9.5	1.4	2.9	4500	6000	**427 145 001**
		17.0 – 20.0	25.0	9.5	1.4	2.9	4500	6000	**427 146 001**
		18.0 – 22.0	27.0	9.5	1.4	2.9	4500	6000	**427 147 001**
		21.0 – 25.0	30.0	9.5	1.4	2.9	4500	6000	**427 148 001**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.

Continue next page

Continued

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
5.0	5.1	2.0 – 4.0	8.0	9.5	1.4	2.9	5000	6500	**427 149 001**
		4.0 – 6.0	10.0	9.5	1.4	2.9	5000	6500	**427 150 001**
		6.0 – 8.0	12.0	9.5	1.4	2.9	5000	6500	**427 151 001**
		8.0 – 11.0	16.0	9.5	1.4	2.9	5000	6500	**427 152 001**
6.4	6.5	4.0 – 6.0	12.0	13.0	2.2	3.9	6500	8850	**427 153 001**
		6.0 – 9.0	15.0	13.0	2.2	3.9	6500	8850	**427 154 001**
		9.0 – 13.0	18.0	13.0	2.2	3.9	6500	8850	**427 155 001**
		13.0 – 16.0	20.0	13.0	2.2	3.9	6500	8850	**427 156 001**
		16.0 – 20.0	25.0	13.0	2.2	3.9	6500	8850	**427 157 001**

[1] *Minimum based on rivet failure*

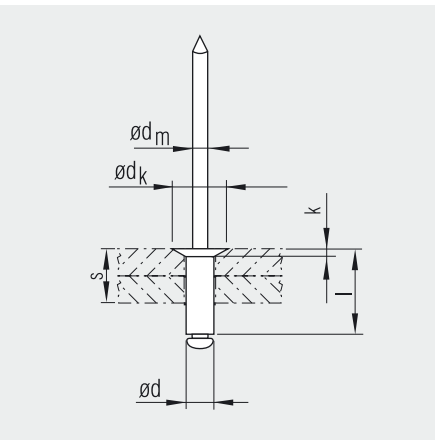
We reserve the right to amend specifications at any time.

Countersunk head
with grooved mandrel

Material

Sleeve
Stainless steel A2 (1.4301)

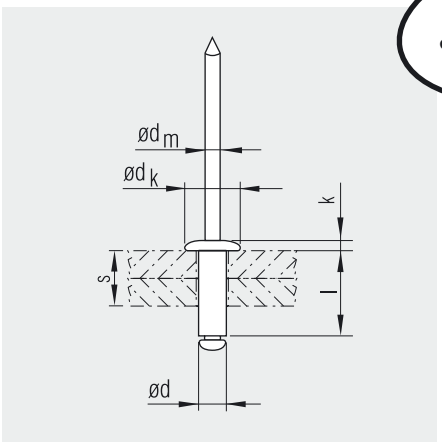
Mandrel
Stainless steel A2 (1.4301)



Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l +1.0 -0.2 [mm]	Head ø d_k [mm]	Head Height k max [mm]	Mandrel ø d_m max [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.2	3.3	1.0 – 3.0	6.0	6.0	0.8	1.9	1800	2500	**427 170 001**
		3.0 – 5.0	8.0	6.0	0.8	1.9	1800	2500	**427 171 001**
		5.0 – 7.0	10.0	6.0	0.8	1.9	1800	2500	**427 172 001**
		7.0 – 9.0	12.0	6.0	0.8	1.9	1800	2500	**427 173 001**
4.0	4.1	1.0 – 2.5	6.0	7.5	1.0	2.5	3100	3800	**427 174 001**
		2.5 – 4.5	8.0	7.5	1.0	2.5	3100	3800	**427 175 001**
		4.5 – 6.5	10.0	7.5	1.0	2.5	3100	3800	**427 176 001**
		6.5 – 8.5	12.0	7.5	1.0	2.5	3100	3800	**427 177 001**
4.8	4.9	1.5 – 4.0	8.0	9.0	1.2	3.0	4500	6000	**427 178 001**
		4.0 – 6.0	10.0	9.0	1.2	3.0	4500	6000	**427 179 001**
		6.0 – 8.0	12.0	9.0	1.2	3.0	4500	6000	**427 180 001**
		8.0 – 10.0	15.0	9.0	1.2	3.0	4500	6000	**427 181 001**
		10.0 – 13.0	18.0	9.0	1.2	3.0	4500	6000	**427 182 001**
		11.0 – 15.0	21.0	9.0	1.2	3.0	4500	6000	**427 183 001**
		15.0 – 20.0	25.0	9.0	1.2	3.0	4500	6000	**427 184 001**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.



Dome head
with grooved mandrel

Material

Sleeve
Stainless steel A4 (1.4404)

Mandrel
Stainless steel A4 (1.4401)

Nominal size-ø d [mm]	Hole-ø [mm]	Grip range s [mm]	Sleeve length l *+1.0 -0.2* [mm]	Head ø d_k [mm]	Head Height k *max* [mm]	Mandrel ø d_m *max* [mm]	Strength[1] nominal Shear [N]	Strength[1] nominal Tensile [N]	**Part No.**
3.0	3.1	1.5 – 2.5	6.0	6.5	1.0	1.9	1600	2000	**427 200 001**
		2.5 – 4.5	8.0	6.5	1.0	1.9	1600	2000	**427 201 001**
		4.5 – 6.5	10.0	6.5	1.0	1.9	1600	2000	**427 202 001**
3.2	3.3	1.5 – 2.5	6.0	6.5	1.0	2.0	1800	2500	**427 210 001**
		2.5 – 4.5	8.0	6.5	1.0	2.0	1800	2500	**427 211 001**
		4.5 – 6.5	10.0	6.5	1.0	2.0	1800	2500	**427 212 001**
		6.5 – 8.5	12.0	6.5	1.0	2.0	1800	2500	**427 213 001**
4.0	4.1	– 2	6.0	8.0	1.3	2.5	3100	3800	**427 220 001**
		2.0 – 4.0	8.0	8.0	1.3	2.5	3100	3800	**427 221 001**
		4.0 – 6.0	10.0	8.0	1.3	2.5	3100	3800	**427 222 001**
		7.0 – 9.0	13.0	8.0	1.3	2.5	3100	3800	**427 223 001**
		10.0 – 12.0	16.0	8.0	1.3	2.5	3100	3800	**427 224 001**
4.8	4.9	1.5 – 3.0	8.0	9.5	1.4	2.9	4500	6000	**427 042 001**
		3.0 – 5.0	10.0	9.5	1.4	2.9	4500	6000	**427 231 001**
		5.0 – 7.0	12.0	9.5	1.4	2.9	4500	6000	**427 232 001**
		7.0 – 9.0	14.0	9.5	1.4	2.9	4500	6000	**427 233 001**
		9.0 – 11.0	16.0	9.5	1.4	2.9	4500	6000	**427 234 001**
		11.0 – 13.0	18.0	9.5	1.4	2.9	4500	6000	**427 235 001**

[1] *Minimum based on rivet failure*

We reserve the right to amend specifications at any time.

NOTES