

# S13 Metric Parallel Bolt Coupler, Plain, Worldwide Design



## ZERTIFIZIERUNGEN



## MERKMALE

Provides continuity between reinforcing bar and ISO® 965 metric all-thread rod or bolts

May be used to anchor load-bearing equipment to foundations, columns or walls

Machined from non-weldable grades of material, but can be tack welded

## SPEZIFIKATIONEN

|                           |                                        |
|---------------------------|----------------------------------------|
| <b>Oberfläche:</b>        | Blank                                  |
| <b>Material:</b>          | Stahl                                  |
| <b>Auslegungsversion:</b> | Weltweit (global verfügbares Material) |

Table 1/2

| Katalognummer | Bewehrungsstabgröße, metrisch | Größe Armierung, USA | Größe Armierung, Kanada | Sechskant-Breite (W) | Durchmesser (Ø) | Länge (L) |
|---------------|-------------------------------|----------------------|-------------------------|----------------------|-----------------|-----------|
| EL10S13N      | 10 mm                         | #3                   |                         | 17 mm                |                 | 53mm      |

| Katalognummer | Bewehrungssta<br>bgröße,<br>metrisch | Größe<br>Armierung,USA | Größe<br>Armierung,<br>Kanada | Sechskant-<br>Breite (W) | Durchmesser<br>(Ø) | Länge (L) |
|---------------|--------------------------------------|------------------------|-------------------------------|--------------------------|--------------------|-----------|
| EL12S13N      | 12 mm                                | #4                     | 10M                           | 22 mm                    |                    | 58mm      |
| EL14S13N      | 14 mm                                |                        |                               | 27 mm                    |                    | 63mm      |
| EL16S13N      | 16 mm                                | #5                     | 15M                           | 27 mm                    |                    | 68mm      |
| EL18S13N      | 18 mm                                |                        |                               |                          | 35 mm              | 75mm      |
| EL20S13AN     | 20 mm                                | #6                     | 20M                           |                          | 35 mm              | 83mm      |
| EL20S13BN     | 20 mm                                | #6                     | 20M                           |                          | 35 mm              | 81mm      |
| EL20S13N      | 20 mm                                | #6                     | 20M                           |                          | 35 mm              | 98mm      |
| EL22S13N      | 22 mm                                | #7                     |                               |                          | 40 mm              | 104mm     |
| EL12S13AN     | 12 mm                                | #4                     | 10M                           |                          | 45 mm              | 86mm      |
| EL25S13BN     | 25 mm                                | #8                     | 25M                           |                          | 45 mm              | 85mm      |
| EL25S13AN     | 25 mm                                | #8                     | 25M                           |                          | 45 mm              | 103mm     |
| EL25S13N      | 25 mm                                | #8                     | 25M                           |                          | 45 mm              | 110mm     |
| EL28S13N      | 28 mm                                | #9                     | 30M                           |                          | 50 mm              | 115mm     |
| EL32S13AN     | 32 mm                                | #10                    |                               |                          | 55 mm              | 115mm     |
| EL40S13CN     | 40 mm                                |                        |                               |                          | 65 mm              | 127mm     |
| EL32S13N      | 32 mm                                | #10                    |                               |                          | 55 mm              | 125mm     |
| EL34S13N      | 34 mm                                |                        |                               |                          | 55 mm              | 134mm     |
| EL30S13N      | 30 mm                                |                        |                               |                          | 55 mm              | 128mm     |

| Katalognummer | Bewehrungssta<br>bgröße,<br>metrisch | Größe<br>Armierung,USA | Größe<br>Armierung,<br>Kanada | Sechskant-<br>Breite (W) | Durchmesser<br>(Ø) | Länge (L) |
|---------------|--------------------------------------|------------------------|-------------------------------|--------------------------|--------------------|-----------|
| EL40S13BN     | 40 mm                                |                        |                               |                          | 65 mm              | 133mm     |
| EL36S13N      | 36 mm                                | #11                    | 35M                           |                          | 65 mm              | 134mm     |
| EL38S13N      | 38 mm                                | #12                    |                               |                          | 65 mm              | 139mm     |
| EL40S13N      | 40 mm                                |                        |                               |                          | 65 mm              | 143mm     |
| EL40S13AN     | 40 mm                                |                        |                               |                          | 65 mm              | 146mm     |
| EL50TS13N     | 50 mm                                |                        |                               |                          | 85 mm              | 171mm     |

Table 2/2

| Katalognummer | A     | Einführtiefe<br>(BD) | Gewindegröße<br>(TS) | Gewindetiefe<br>(TD) | Stückgewicht | Zertifizierungen                                                                  |
|---------------|-------|----------------------|----------------------|----------------------|--------------|-----------------------------------------------------------------------------------|
| EL10S13N      | 28 mm | 18mm                 | M12                  | 14mm                 | 0.07 kg      | DIBt, AFCAB,<br>nVent LENTON<br>EPD - Product<br>Specific, ITB,<br>TZUS           |
| EL12S13N      | 33 mm | 19mm                 | M16                  | 19mm                 | 0.12 kg      | nVent LENTON<br>EPD - Product<br>Specific, ITB,<br>DIBt, CARES,<br>TZUS, AFCAB    |
| EL14S13N      | 35 mm | 21mm                 | M18                  | 21mm                 | 0.12 kg      | AFCAB, CARES,<br>DIBt, TZUS,<br>nVent LENTON<br>EPD - Product<br>Specific, ITB    |
| EL16S13N      | 37 mm | 24mm                 | M20                  | 23mm                 | 0.21 kg      | AFCAB, ITB,<br>CARES, DIBt,<br>TZUS, nVent<br>LENTON EPD -<br>Product<br>Specific |
| EL18S13N      | 39 mm | 29mm                 | M22                  | 25mm                 | 0.4 kg       | nVent LENTON<br>EPD - Product<br>Specific, ITB,<br>TZUS                           |

| Katalognummer | A     | Einführtiefe (BD) | Gewindegröße (TS) | Gewindetiefe (TD) | Stückgewicht | Zertifizierungen                                                   |
|---------------|-------|-------------------|-------------------|-------------------|--------------|--------------------------------------------------------------------|
| EL20S13AN     | 39 mm | 35mm              | M22               | 25mm              | 0.43 kg      | nVent LENTON EPD - Product Specific                                |
| EL20S13BN     | 37 mm | 35mm              | M20               | 23mm              | 0.44 kg      | nVent LENTON EPD - Product Specific                                |
| EL20S13N      | 55 mm | 35mm              | M24               | 27mm              | 0.48 kg      | nVent LENTON EPD - Product Specific, ITB, CARES, AFCAB, TZUS, DIBt |
| EL22S13N      | 58 mm | 37mm              | M27               | 31mm              | 0.67 kg      | TZUS, ITB, nVent LENTON EPD - Product Specific                     |
| EL12S13AN     | 61 mm | 19mm              | M30               | 33mm              | 1.02 kg      | nVent LENTON EPD - Product Specific                                |
| EL25S13BN     | 37 mm | 40mm              | M20               | 24mm              | 0.8 kg       | nVent LENTON EPD - Product Specific                                |
| EL25S13AN     | 55 mm | 40mm              | M24               | 27mm              | 0.9 kg       | nVent LENTON EPD - Product Specific                                |
| EL25S13N      | 61 mm | 40mm              | M30               | 33mm              | 0.9 kg       | AFCAB, ITB, CARES, TZUS, DIBt, nVent LENTON EPD - Product Specific |
| EL28S13N      | 64 mm | 42mm              | M33               | 37mm              | 1.16 kg      | DIBt, TZUS, nVent LENTON EPD - Product Specific, ITB               |
| EL32S13AN     | 61 mm | 45mm              | M30               | 33mm              | 1.54 kg      | nVent LENTON EPD - Product Specific                                |
| EL40S13CN     | 61 mm | 57mm              | M30               | 33mm              | 2.44 kg      | nVent LENTON EPD - Product Specific                                |

| Katalognummer | A     | Einführtiefe (BD) | Gewindegröße (TS) | Gewindetiefe (TD) | Stückgewicht | Zertifizierungen                                                   |
|---------------|-------|-------------------|-------------------|-------------------|--------------|--------------------------------------------------------------------|
| EL32S13N      | 70 mm | 45mm              | M39               | 43mm              | 1.42 kg      | CARES, DIBt, nVent LENTON EPD - Product Specific, AFCAB, ITB, TZUS |
| EL34S13N      | 70 mm | 55mm              | M39               | 43mm              | 1.52 kg      | nVent LENTON EPD - Product Specific                                |
| EL30S13N      | 67 mm | 52mm              | M36               | 40mm              | 1.62 kg      | nVent LENTON EPD - Product Specific                                |
| EL40S13BN     | 67 mm | 57mm              | M36               | 40mm              | 2.41 kg      | nVent LENTON EPD - Product Specific                                |
| EL36S13N      | 73 mm | 52mm              | M42               | 46mm              | 2.34 kg      | nVent LENTON EPD - Product Specific, TZUS                          |
| EL38S13N      | 77 mm | 53mm              | M45               | 49mm              | 2.26 kg      | nVent LENTON EPD - Product Specific                                |
| EL40S13N      | 77 mm | 57mm              | M45               | 49mm              | 2.28 kg      | AFCAB, DIBt, nVent LENTON EPD - Product Specific, TZUS, ITB, CARES |
| EL40S13AN     | 80 mm | 57mm              | M48               | 52mm              | 2.18 kg      | nVent LENTON EPD - Product Specific                                |
| EL50TS13N     | 88 mm | 70mm              | M56               | 60mm              | 4.83 kg      | CARES, nVent LENTON EPD - Product Specific                         |

## ZUSÄTZLICHE PRODUKTDDETAILS

Bar dimensions and weights listed may vary by region. Coupler sizes not shown may be available by special order. Contact your nVent LENTON representative for more information.

Coupler supplied without bolt.

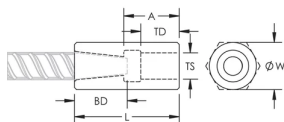
Bolt may be replaced by threaded rod of same class/grade.

All calculations based on a minimum bolt engagement equal to Thread Depth (TD).

System Capacity based on bolt to coupler connection. For rebar to coupler connection, refer to applicable building codes and approvals or contact your nVent LENTON representative.

| Bolt-to-Coupler Capacity (kN) |           |           |           |            |            |
|-------------------------------|-----------|-----------|-----------|------------|------------|
| Part Number                   | Grade 4.8 | Grade 5.8 | Grade 8.8 | Grade 10.9 | Grade 12.9 |
| EL10S13N                      | 33.7      | 42.1      | 67.4      | 67.7       | 67.7       |
| EL12S13AN                     | 224.2     | 280.3     | 448.5     | 526.3      | 526.3      |
| EL12S13N                      | 62.7      | 78.3      | 109.8     | 109.8      | 109.8      |
| EL14S13N                      | 77.0      | 96.2      | 154.0     | 192.5      | 193.4      |
| EL16S13N                      | 97.9      | 122.4     | 162.0     | 162.0      | 162.0      |
| EL18S13N                      | 121.4     | 151.7     | 242.7     | 303.4      | 364.1      |
| EL20S13AN                     | 121.4     | 151.7     | 242.7     | 303.4      | 356.8      |
| EL20S13BN                     | 97.9      | 122.4     | 195.8     | 244.8      | 289.4      |
| EL20S13N                      | 141.0     | 176.3     | 282.0     | 332.3      | 332.3      |
| EL22S13N                      | 183.8     | 229.7     | 367.5     | 449.9      | 449.9      |
| EL25S13AN                     | 141.0     | 176.3     | 282.0     | 352.5      | 422.9      |
| EL25S13BN                     | 97.9      | 122.4     | 195.8     | 244.8      | 293.8      |
| EL25S13N                      | 224.2     | 280.3     | 448.5     | 560.5      | 560.5      |
| EL28S13N                      | 277.4     | 346.8     | 554.8     | 693.6      | 728.0      |
| EL30S13N                      | 326.7     | 408.4     | 653.4     | 816.7      | 890.7      |
| EL32S13AN                     | 224.2     | 280.3     | 448.5     | 560.6      | 672.7      |
| EL32S13N                      | 390.3     | 487.9     | 780.6     | 783.8      | 783.8      |
| EL34S13N                      | 390.3     | 487.9     | 780.6     | 783.8      | 783.8      |
| EL36S13N                      | 448.4     | 560.5     | 896.7     | 1120.9     | 1197.1     |
| EL38S13N                      | 522.4     | 653.0     | 1044.8    | 1054.8     | 1054.8     |
| EL40S13AN                     | 589.3     | 736.6     | 1178.5    | 1312.4     | 1312.4     |
| EL40S13BN                     | 326.7     | 408.4     | 653.4     | 816.7      | 980.1      |
| EL40S13CN                     | 224.2     | 280.3     | 448.5     | 560.6      | 672.7      |
| EL40S13M33N                   | 522.4     | 653.0     | 1044.8    | 1054.8     | 1054.8     |
| EL40S13N                      | 522.4     | 653.0     | 1044.8    | 1054.8     | 1054.8     |
| EL50TS13M33N                  | 812.0     | 1015.0    | 1624.0    | 2030.0     | 2168.3     |
| EL50TS13N                     | 812.0     | 1015.0    | 1624.0    | 2030.0     | 2168.3     |

## DIAGRAMME



## WARNUNG

nVent-Produkte müssen in Übereinstimmung mit den Produktinformationsblättern und dem Schulungsmaterial von nVent installiert und verwendet werden. Informationsblätter sind verfügbar unter [www.nVent.com](http://www.nVent.com) sowie bei Ihrem nVent-Kundendienstvertreter. Unsachgemäße Installation, Missbrauch, Fehlanwendung oder andere Handlungen im Widerspruch zu den Anweisungen und Warnungen von nVent können zu Fehlfunktionen, Anlagenschäden, schwerer Körperverletzung sowie

zum Tod führen und/oder haben die Annullierung der Garantie zur Folge.

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