nVent LENTON

We connect and protect

S13 Metric Parallel Bolt Coupler, Plain, Worldwide Design

CERTIFICATIONS

FEATURES

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

SPECIFICATIONS

Finish: Plain

Material: Steel

Design Version: Worldwide (Globally Available Materials)

Table 1/2

Catalog Number	Rebar Size, Metric	Rebar Size, US	Rebar Size, Canada	Hex Width (W)	Diameter (Ø)	Length (L)
EL10S13N	10 mm	#3		17 mm		53mm

CatalogNumber	Rebar Size, Metric	Rebar Size, US	Rebar Size, Canada	Hex Width (W)	Diameter (Ø)	Length (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

CatalogNumber	Rebar Size, Metric	Rebar Size, US	Rebar Size, Canada	Hex Width (W)	Diameter (Ø)	Length (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

Catalog Number	A	Bar Depth (BD)	Thread Size (TS)	Thread Depth (TD)	Unit Weight	Certifications
EL10S13N	28 mm	18mm	M12	14mm	0.07 kg	TZUS, nVent LENTON EPD - Product Specific, ITB, DIBt, AFCAB
EL12S13N	33 mm	19mm	M16	19mm	0.12 kg	DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific, ITB
EL14S13N	35 mm	21mm	M18	21mm	0.12 kg	DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific, ITB
EL16S13N	37 mm	24mm	M20	23mm	0.21 kg	DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific, ITB
EL18S13N	39 mm	29mm	M22	25mm	0.4 kg	TZUS, nVent LENTON EPD - Product Specific, ITB
EL20S13AN	39 mm	35mm	M22	25mm	0.43 kg	nVent LENTON EPD - Product Specific

CatalogNumber	A	Bar Depth (BD)	Thread Size (TS)	Thread Depth (TD)	Unit Weight	Certifications
EL20S13BN	37 mm	35mm	M20	23mm	0.44 kg	nVent LENTON EPD - Product Specific
EL20S13N	55 mm	35mm	M24	27mm	0.48 kg	ITB, DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific
EL22S13N	58 mm	37mm	M27	31mm	0.67 kg	ITB, TZUS, 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	ITB, DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific
EL28S13N	64 mm	42mm	M33	37mm	1.16 kg	ITB, DIBt, TZUS, nVent LENTON EPD - Product Specific
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
EL32S13N	70 mm	45mm	M39	43mm	1.42 kg	ITB, DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific

CatalogNumber	A	Bar Depth (BD)	Thread Size (TS)	Thread Depth (TD)	Unit Weight	Certifications
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	TZUS, nVent LENTON EPD - Product Specific
EL38S13N	77 mm	53mm	M45	49mm	2.26 kg	nVent LENTON EPD - Product Specific
EL40S13N	77 mm	57mm	M45	49mm	2.28 kg	ITB, DIBt, AFCAB, CARES, TZUS, nVent LENTON EPD - Product Specific
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

Designed to Meet: AASHTO;ABNT NBR 8548:1984;ACI 318 Type 1 (125% Specified Yield);ACI 318 Type 2 (Specified Tensile);ACI 349;ACI 359;AS3600

ADDITIONAL PRODUCT DETAILS

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.

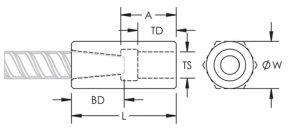
Bolt may be replaced by threaded rod of same class/grade.

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

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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