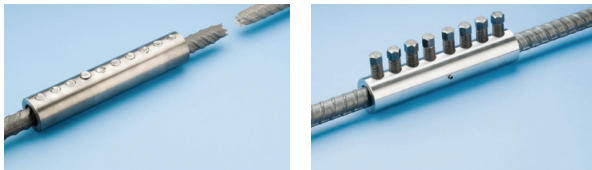


## NVENT LENTON LOCK B-SERIES

### MECHANICAL REINFORCING BAR SPLICING SYSTEM



#### FEATURES

- Meets or exceeds major international building codes and Department of Transportation requirements
- No bar-end preparation required; uses standard reinforcing bar (rebar)
- Is smaller than other bolted splices currently available
- Works in repair, bent bar, retrofit, precast closure pour and new construction applications
- Provides superior fatigue performance
- Works with a variety of international bar grades
- Installs quickly and easily using simple hand tools — does not require special skilled labor
- Allows for simple visual inspection
- Works as a one-step transition/reducer

Patent no. 7,107,735 / 7,093,402.

Additional patents in other countries.

The Lock coupler features patented gripping technology that helps provide for the development of full reinforcing bar (rebar) strength and improved overall structural integrity in tension, compression, stress-reversal and dynamic applications. Lock, an in-situ reinforcing bar splice, is ideal for new construction, repair or retrofit applications. This innovative mechanical bar splice is designed for use in column splicing, bridge applications, piling, splicing to protruding dowels cast in concrete, closure pours, beams, chimney construction and other demanding splicing applications.

Lock couplers allow for easy and simple field installation since no bar-end preparation, sawing or swaging is necessary. The couplers can be installed with just a standard wrench or an impact wrench depending on coupler size. The bolt heads will shear off when proper installation tightness has been reached, which allows for complete visual inspection.

Lock is available in epoxy and mechanical galvanized coatings and works as a one-step transition on ASTM® (in-lb.), Canadian and metric reinforcing bar (rebar).

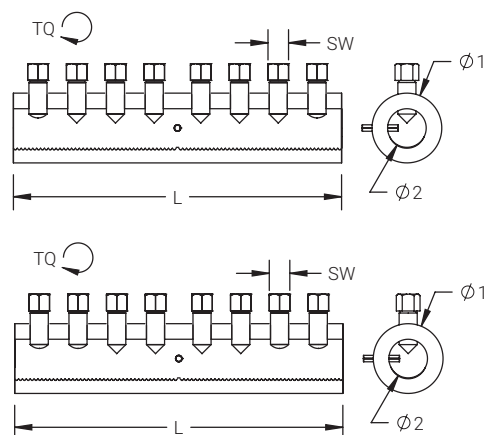
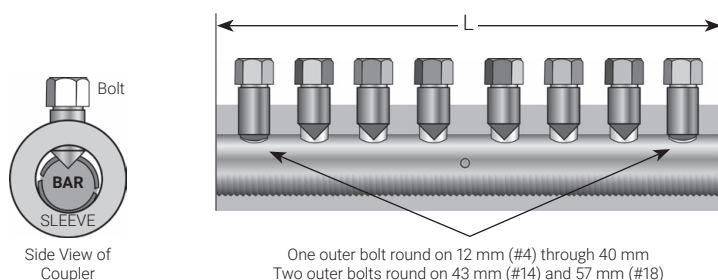
Lock B-Series couplers are designed to meet or exceed major international building codes and Department of Transportation requirements, including:

AASHTO	ACI 359	Eurocode 2	NF A 35-020-1
ABNT NBR 8548:1984	AS3600	IBC Type 1 (125% Specified Yield)	NF EN 1992-1-1
ACI 318 Type 1 (125% Specified Yield)	BS EN 1992-1-1	IBC Type 2 (Specified Ultimate)	ÖNORM EN 1992-1-1
ACI 318 Type 2 (Specified Ultimate)	BS EN 1992-2	ISO 15835	Sellafield Ltd. Std. ES_0_3110
ACI 349	CAN/CSA - N287.2/.3/.4	NEN EN 1992-1-1	US Army Corps of Engineers
	DIN EN 1992-1-1		



### SIMPLE 1-2-3 INSTALLATION:

1. Insert the Lock coupler over reinforcing bar 1.
2. Tighten bolts from the center to the end to secure onto the first reinforcing bar.
3. Repeat steps 1 & 2 with the second reinforcing bar on the other side of the coupler.



Part Number	Bar Size Designation			Ø1 Outside Diameter (a)		Ø2 Inside Diameter		Length (L)		Socket Size (SW)		Number of Bolts	Number of Round Bolts	TQ Average Bolt Torque		Unit Weight (a)	
	Metric (mm)	US	Canada	(mm)	(")	(mm)	(")	(mm)	(")	(mm)	(")			(N-m)	(ft-lb)	(kg)	(lb)
LL12B1	12	#4	10M	29	1.25	15	0.59	127	5.0	13	1/2	6	2	205	150	0.57	1.3
LL16B1	14, 16	#5	15M	35	1.38	19	0.75	159	6.3	13	1/2	6	2	205	150	0.92	2.0
LL20B1	18, 20	#6	20M	44	1.75	24	0.94	191	7.5	13	1/2	8	2	205	150	1.68	3.7
LL22B1	22	#7	–	48	1.88	28	1.10	222	8.7	16	5/8	8	2	340	250	2.28	5.0
LL25B1	25	#8	25M	54	2.13	30	1.18	254	10.0	16	5/8	8	2	475	350	3.37	7.4
LL28B1	28, 30	#9	30M	60	2.38	34	1.34	287	11.3	16	5/8	10	2	475	350	4.56	10.1
LL32B1	32	#10	–	65	2.50	38	1.50	323	12.7	21	13/16	8	2	680	500	5.92	13.0
LL36B1	34, 36	#11	35M	72	2.75	43	1.69	358	14.1	21	13/16	10	2	750	550	7.79	17.2
LL40B1	38, 40	–	–	80	3.25	47	1.85	400	15.7	21	13/16	12	2	790	580	10.88	24.0
LL43B1	43	#14	45M	89	3.50	53	2.09	523	20.6	25	1	14	4	1,300	960	17.03	37.5
LL57B1	57	#18	55M	117	4.50	67	2.64	662	26.1	25	1	18	4	1,300	960	38.97	85.9

(a) Bar diameters and weights may vary by region.

#### NOTES

- \* Works as one-step transition. Contact nVent for additional transition compatibility.
- Dimensions shown in chart are typical. Bolt length may vary after the bolt heads are sheared off.
- When using air impact wrench check the air pressure, torque rating and air flow requirements before starting installation.
- It is recommended to use an impact wrench rated 2x the bolt torque. Contact nVent for additional tool recommendations.
- Bolt heads are not required to be removed if the appropriate bolt torque is achieved.
- Refer to complete installation instructions provided with the product or available at [nVent.com/LENTON](http://nVent.com/LENTON) before commencing installation.



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**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 [nVent.com/LENTON](http://nVent.com/LENTON) 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/or death, and void your warranty.

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