

nVent LENTON Lock B1MG and S1MG Series

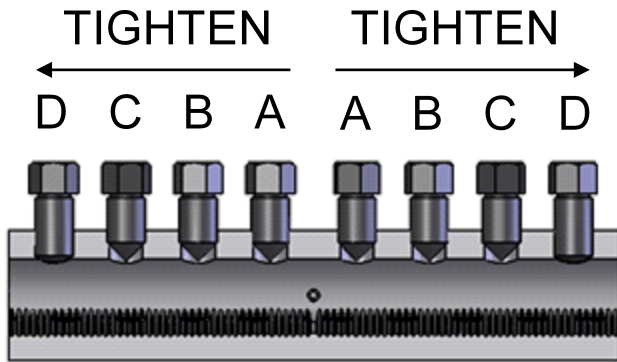


Figure 1a- B1 - Assembly cross section

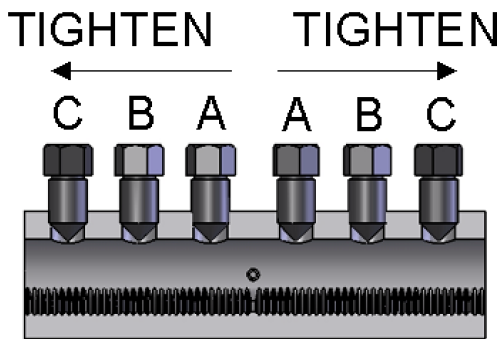


Figure 1b- S1 - Assembly cross section

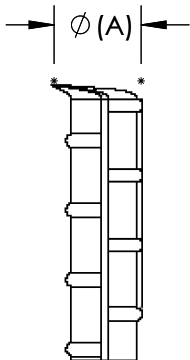


Figure 2
Maximum Shear Lip

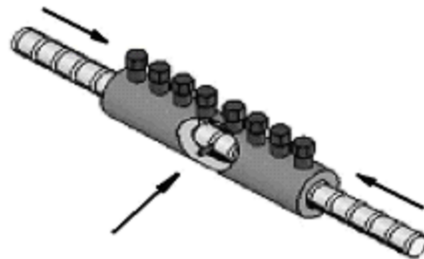


Figure 3
Solid contact between bar and stop pin as shown.

B1 Series:

Step 1: Read all instructions and procedures before commencing splicing. Ensure the nVent LENTON Lock coupler is sized properly for the bars being spliced and per project plans. Product should arrive with bolts configured as shown in Figure 1a. One round point bolt should be on each end for B1 series couplers.

S1 Series:

Step 1: Read all instructions and procedures before commencing splicing. Ensure the nVent LENTON Lock coupler is sized properly for the bars being spliced and per project plans. Product should arrive with bolts configured as shown in Figure 1b. All bolts should be pointed for S1 series couplers.

Step 2: Ensure the rebar is free of any excessive dirt, concrete slurry, rust, etc. which may affect product performance. Ensure maximum rebar lip does not exceed limits set in Figure 2. Excessive shear lip interferes with rebar installation.

Step 3: Insert rebar into nVent LENTON Lock coupler until contact is made with the center stop pin as shown in Figure 3. Rebar must be flush against center stop pin.

Rebar Size	Maximum Rebar Shear Lip Diameter (A)	
	in	mm
10 or 12 (#4)	0.57	14.5
14 or 16 (#5)	0.73	18.5
18 or 20 (#6)	0.93	23.5
22 (#7)	1.08	27.5
25 (#8)	1.16	29.4
28 or 30 (#9)	1.32	33.5
32 (#10)	1.48	37.5
34 or 36 (#11)	1.67	42.5

When using an air impact wrench it is recommended to use a wrench with double the torque rating identified. Impact sockets should always be used when using an impact wrench. Additionally, check the air pressure and air flow requirements prior to installation.

WARNING:

1. nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at www.nVent.com and from your nVent customer service representative.
2. nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. 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.

The customer is responsible for:

- a. Conformance to all governing codes.
- b. The integrity of structures to which the products are attached, including their capability of safely accepting the loads imposed, as evaluated by a qualified engineer.
- c. Using appropriate industry standard hardware as noted above.

SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

nVent, nVent CADDY, nVent ERICO Cadweld, nVent ERICO Critec, nVent ERICO, nVent ERIFLEX, and nVent LENTON are registered trademarks of nVent or its global affiliates. All other trademarks are the property of their respective owners. nVent reserves the right to change specifications without prior notice.

Table 1. Torque values

Pre-Torque is not required for these sizes.

Rebar Designation				Coupler	Socket Size		Average Torque to Shear Bolts		Number of Bolts
In-lb	Metric	Canada	Soft Metric		in	mm	ft-lb	N-m	
#4	12	10M	13	LL12B1MG	1/2	13	110	150	6
				LL12S1MG	1/2	13	110	150	4
#5	16	15M	16	LL16B1MG	1/2	13	110	150	6
				LL16S1MG	1/2	13	110	150	4
#6	20	20M	19	LL20B1MG	1/2	13	110	150	8
				LL20S1MG	1/2	13	110	150	6
#7	22	-	22	LL22B1MG	5/8	16	180	250	8
				LL22S1MG	5/8	16	180	250	6
#8	25	25M	25	LL25B1MG	5/8	16	250	340	8
				LL25S1MG	5/8	16	250	340	6
#9	28	30M	29	LL28B1MG	5/8	16	250	340	10
				LL28S1MG	5/8	16	250	340	8
#10	32	-	32	LL32B1MG	13/16	21	400	550	8
				LL32S1MG	13/16	21	400	550	6
#11	36	35M	36	LL36B1MG	13/16	21	450	610	10
				LL36S1MG	13/16	21	450	610	8

If bolt head does not shear, the installer should verify the appropriate torque was met (see Table 1). If a minimum cover must be maintained, the head can be cut off after the proper torque has been applied.

If during installation the bolt strips, as defined by a loss of resistance to the applied torque, stop the installation immediately. Remove the un-sheared damaged bolt. Contact nVent for Technical Support.

Repeat procedure for other end of the sleeve.

Transition Splices: nVent LENTON Lock is designed for use as a one-step transition/reducer splice on all types of rebar. Contact nVent for details.

Closure Pour Splices: Refer to instruction sheet PDF113 for details. Additional copies of instructions and application information are available at www.nVent.com