

GCC SERIES - GALVANIZED COMPRESSION COUPLING

APPLICATIONS:

- Typically used in cold water applications.
- Not suitable for steam service, or in any combustible gas application, including but not limited too; natural gas, liquid propane, or kerosene.
- Not suitable for petroleum products.
- Couplings are rated for above ground or underground application.

FEATURES:

- Galvanized finish for additional corrosion resistance.
- Retainer cup holds the gasket in place and concentrates compression where it is needed the most.
- Protected gasket extends life and provides electrical continuity between the pipe and the coupling.

SPECIFICATIONS:

- Materials conform to ANSI/ASTM A197
- Works on any rigid pipe with IPS (Iron Pipe Size) outside diameter (i.e. Schedule 40, 80, 160 in Carbon Steel [Black/Galvanized], PVC, Red Brass)

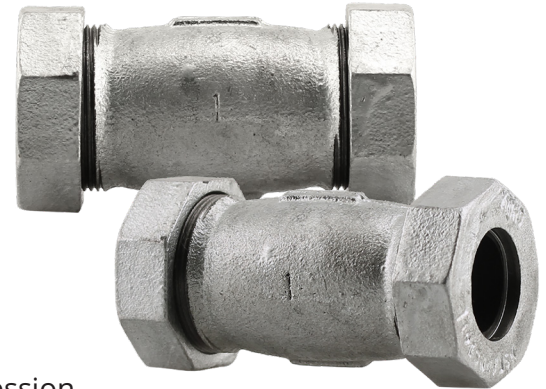
CERTIFICATION:

- NSF/ANSI Standard 372 Certified (Drinking Water System Components - Lead Content)

RATINGS:

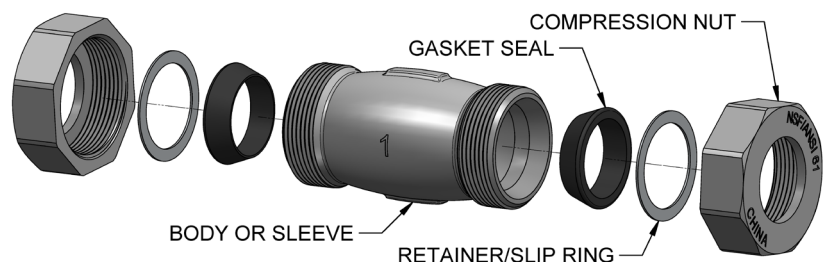
- Maximum pressure rating: 150 PSI
- Maximum temperature rating: 210 °F (99 °C)

NOTE: These ratings apply only when couplings are properly end blocked / anchored.



MATERIAL LIST	
Element	Percent of Composition
Cupola Malleable Iron (ASTM A197)	
Iron (Fe)	≥ 94.0
Carbon (C)	2.9-3.1
Silicone (Si)	1.35-1.6
Manganese (Mn)	0.4-0.6
Phosphorous (P)	<0.1
Sulfur (S)	<0.2
Galvanized Zinc Coating (ASTM A153)	
Zinc (Zn)	≥ 98.0
Iron (Fe)	≤ 0.4
Lead (Pb)	≤ 0.03

COMPONENT MATERIAL LIST	
Part Name	Material
Gasket Seal	Nitrile Butadiene Rubber (NBR)
Retainer/ Slip Ring	Galvanized Carbon Steel
Body (or Sleeve) and Compression Nut	Galvanized Malleable Iron



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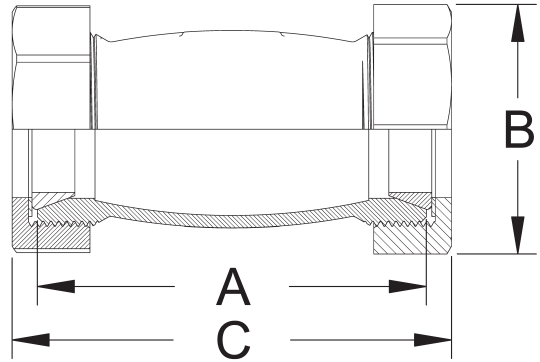
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BII-GCC-0825(1599M)V3



GCC-10



DIMENSIONS										
Part No.	Size	Pipe O.D.	A		B		C		Weight	
	IPS	in	in	mm	in	mm	in	mm	lb	kg
GCC-05	1/2"	0.840	3.350	85.09	1.850	46.99	3.850	97.79	0.829	0.376
GCC-07	3/4"	1.050	3.690	93.73	2.110	53.59	4.180	106.17	1.206	0.547
GCC-10	1"	1.315	3.950	100.33	2.530	64.26	4.350	110.49	1.680	0.762
GCC-12	1-1/4"	1.660	4.125	104.78	2.680	68.07	4.620	117.35	1.850	0.839
GCC-15	1-1/2"	1.900	4.375	111.13	3.080	78.23	4.840	122.94	2.579	1.170
GCC-20	2"	2.375	4.560	115.82	3.820	97.03	5.130	130.30	4.138	1.877

For more information on installation,
adjustment, repair & operation, visit
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INSTALLATION INSTRUCTIONS

WARNING: Galvanized compression couplings do not restrain against axial / lateral pipe movement. Proper end blocking (anchoring) is required to prevent pipe blowout. Failure to end block / anchor, or improper end blocking / anchoring, can result in dangerous pipe content escape, property damage, serious injury or death. There is less tendency for pipe blowout in underground applications. Please read the installation guide in its entirety prior to installation.



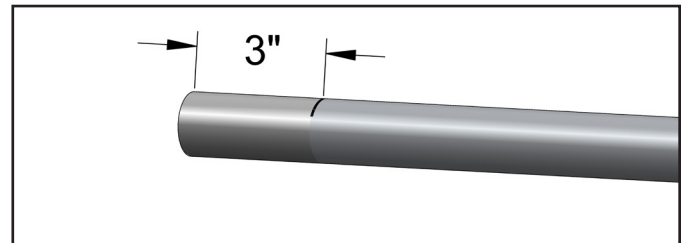
MATERIALS AND TOOLS REQUIRED:

- Marker
- Soap or Suitable Lubricant
- 2 Adjustable Wrenches, or 2 wrenches appropriate size to coupling

Step #1

Ensure the pipe is clean and free of debris and cut ends have been deburred. For future use, place a reference mark on each pipe a minimum of 3" from the end (1a). This will ensure that the coupling is properly centered over the opening between the pipe ends.

1a

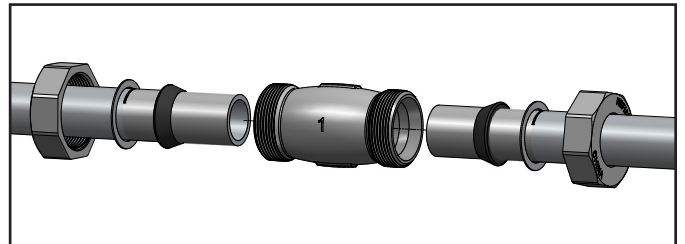


*NOTE: On conducting type compression couplings (protected gaskets), the pipe should be cleaned to bare metal to ensure electrical conductivity.

Step #2

Loosen the compression nuts until the gasket seals are free.

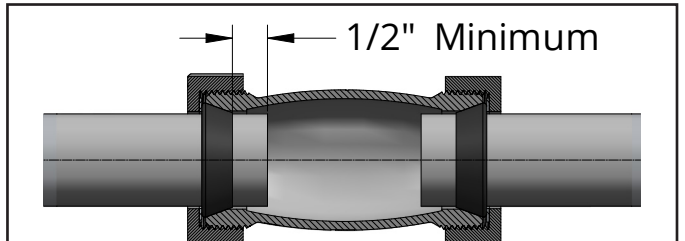
4a



Step #3

Lubricate the gasket seals and pipe ends with water, soap solution or silicone lubricant. Do not use petroleum based lubricants.

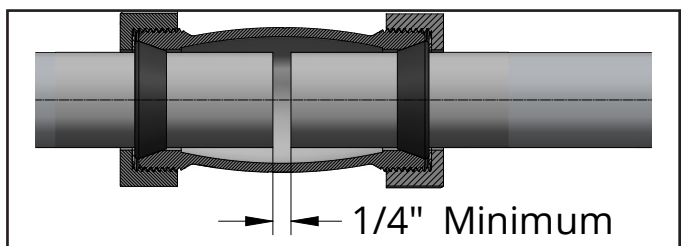
4b



Step #4

Slide one compression nut, retainer/slip ring, and gasket seal over the end of one pipe in that order, and push them down the pipe at least the length of the sleeve. Repeat on opposite end of the cut pipe (4a). Slide Body or Sleeve onto one of the pipes, then pull it back over the other pipe so the coupling is centered on the gap between the pipes.

4c



Pipe ends must be a minimum of 1/2" past the tip of the gasket to provide an adequate seal (4b). A gap of 1/4" between pipe ends is recommended (4c).

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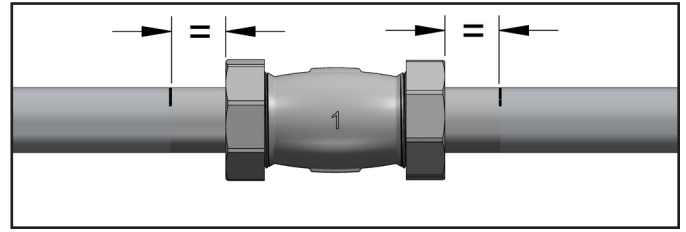
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Step #5

Work one gasket seal toward the coupling until it seats inside the sleeve, squarely and firmly. Slide the retainer ring and nut up in place and hand tighten. Repeat this step for the gasket, retainer ring, and nut on the other side.

*NOTE: Before beginning the final tightening process, ensure the coupling is centered over the gap between the two pipes. Take care to leave the same distance on each side from the edge of the nut to the reference marks made in Step #1 (5a).

5a

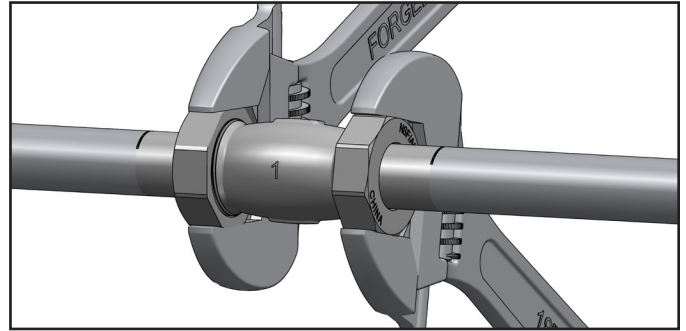


Step #6

Once both nuts are hand tightened, using two wrenches tighten the nuts (6a).

Tighten the nuts sufficiently to prevent leakage. The table below provides recommended torque and wrench sizes. When tightening, ensure the nuts are being rotated. DO NOT rotate the sleeve while tightening the compression nuts. Monitor the connection for leaks. If there is any leakage, tighten the nuts in small increments until the leak stops.

6a



RECOMMENDED TORQUE		
Nominal Pipe Size	Torque (ft. lbs)	Wrench Size (in)
1/2"	70	14
3/4"	85	18
1"	100	18
1-1/4"	120	24
1-1/2"	130	24
2"	140	24
Torque (ft. lbs.) = $\frac{(\text{wrench length in inches}) \times (\text{force on end of wrench in lbs})}{12 \text{ (inches per ft)}}$		

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