



CAMBRIDGE COUPLING - *IT'S UNIVERSAL*



CAMBRIDGE BRASS INC.

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www.cambridgebrass.com

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CAMBRIDGE COUPLING

Dimensional Range:

- The Cambridge Couplings have a range of up to 0.400". That is more than 3/8" range from the minimum to maximum pipe size accommodated
- The greatest range of all couplings currently available
- Ranges of each coupling overlap slightly to accommodate different scenarios
- See table for specific sizing

Types of pipe materials:

- Copper
- Polyethylene
- PVC
- Lead
- Polybutylene
- PEX
- Steel (Galvanized, stainless, iron)
- Virtually any type of waterworks pipe materials are acceptable
- Make sure to use appropriate range for the pipe OD
- Recommended to use stainless inserts to reinforce all flexible plastic materials

Materials used in Coupling:

- All materials are NSF 61 approved for drinking water and meet US Public Law 111-380 (Bill S.3874), as well as NSF 61-G, NSF-61-G, NSF 372 and State No Lead Laws
- Body and nut are made of NO-LEAD Waterworks Brass (B89833), for strength and durability
- Gripper sub assembly:
 - Gripper body is made of a high performance, water resistant polymer that has the right combination of flexibility and stiffness
 - Stainless steel teeth provide restraint and electrical conductivity
 - Rubber seals are made of NSF grade EPDM

Ease of use:

- Make a clean straight cut on the pipe
- Tighten the connection before installing the tube so that the rubber seal is slightly larger than the pipe
- Insert the pipe to the appropriate depth (marked on body)
- Tighten on to pipe using standard wrenches until the nut can not be turned any further with reasonable force (recommended to meet or exceed 100 ft lbs)

Pipe Options:

Copper (CTS)
PE or PEX
Steel (IPS)
PE (IPS)
PVC (IPS)
PE-SIDR (PE)
Lead



119NL-U2U2

Copper (CTS)
PE or PEX
Steel (IPS)
PE (IPS)
PVC (IPS)
PE-SIDR (PE)
Lead

Current Sizes Available:

Cambridge Coupling x Cambridge Connection	Cambridge Coupling x Female Iron Pipe (FIP)	Cambridge Coupling x Male Iron Pipe (MIP)
119NL-U2U2	117NL-U2F3	117NL-U2M3
119NL-U2U3	117NL-U3F3	117NL-U3M3
119NL-U3U3	117NL-U4F4	117NL-U4M4
119NL-U3U4	117NL-U5F4	117NL-U5M4
119NL-U4U4		
119NL-U4U5		
119NL-U5U5		



117NL-U2F3

In Development:

Cambridge Coupling x Cambridge Connection	Cambridge Coupling x Female Iron Pipe (FIP)	Cambridge Coupling x Male Iron Pipe (MIP)
119NL-U5U6	117NL-U5F6	117NL-U5M6
119NL-U6U6	117NL-U6F6	117NL-U6M6
119NL-U6U7	117NL-U7F7	117NL-U7M7
119NL-U7U7		



117NL-U2M3

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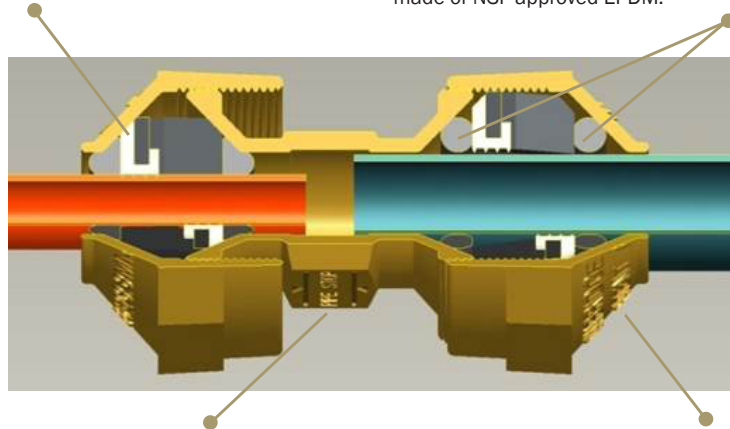
Design features:

- 300 PSI working pressure rating! Same as other water works couplings
- The connection is shipped ready to use, simply insert the pipe and tighten
- Once tightened onto pipe, the teeth will penetrate the outer surface of the pipe and provide restraint
- The gripper body will form to the pipe OD and be in full contact and support the pipe around its entire circumference
- The rubber seals conform to the pipe diameter, providing high pressure sealing of the waterway as well as preventing contaminants and soil from entering the gripper area
- The gripper sub-assembly is symmetrical, and therefore works in either direction regardless of the orientation
- The gripper sub-assembly is a snug fit in the nut preventing loss of the gripper and seals in trench
- The stainless steel teeth provide electrical continuity from metallic pipes to the coupling body, eliminating the need for trace wires when metallic pipes are used
- Accommodates pipes that are slightly oval or slightly deformed, saving time and materials in some sizing situations

Pipe OD Range Per Size				
	Min. Inches	Max. Inches	Min. (mm)	Max. (mm)
U2	0.600	0.900	15.3	22.8
U3	0.735	1.135	18.6	28.8
U4	1.000	1.400	25.4	35.6
U5	1.300	1.700	33.0	43.2
U6	1.600	2.000	40.6	50.8
U7	1.969	2.381	50.0	60.5

Two rows of Stainless Steel gripping teeth are on each grip ring in alternating positions to provide restraint of the pipe, and electrical continuity to the coupling body (for metallic pipes).

The seal moves down the angled surface to accommodate the different sizes of pipe. The inner seal holds the pressure (300 PSI), while the outer seal keeps dirt and contaminants out of the fitting. Seals are made of NSF approved EPDM.



Pipes are inserted to the indicator markings on the body.

Size ranges are clearly marked in inches and millimeters on the outside of the nut

Additional Information

- Every component is made of NSF-61 approved materials, and meets the low lead guidelines regardless of whether it is in contact with water.
- Wide wrench flats make it easy to use common everyday tools to tighten the connections
- The coupling body and nuts are made of quality waterworks C89833 NO-LEAD brass. NO LEAD. NO WORRIES®
- Engineered to last a life time

Pipe Material	Nominal Pipe Size							
	Insert	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"
Copper (CTS)	Not Required	U2	U2, U3	U2, U3	U3, U4	U4, U5	U5, U6	U7
Polybutylene, Polyethylene, PET, PEX SDR9 (CTS)	Series 86	U2	U2, U3	U2, U3	U3, U4	U4, U5	U5, U6	U7
Galvanized Steel (IPS)	Not Required	U2, U3	-	U3, U4	U4, U5	U5, U6	U6	U7
Polyethylene SDR9, SDR11, SDR17 (IPS)	Series 88, 89, 94	-	-	U3, U4	U4, U5	U5, U6	U6	U7
PVC (IPS)	Not Required	U2, U3	-	U3, U4	U4, U5	U5, U6	U6	U7
Polybutylene, Polyethylene PET, PEX, SIDR7 (PE)	Series 87	U2, U3	-	U3, U4	U4, U5	U6	U7	N/A
Lead Pipe - Strong (S or A)	Not Required	U2, U3	U3, U4	U4	U5	U6	U7	N/A
Lead Pipe - Extra Strong (XS or AA)	Not Required	U2, U3	U3, U4	U4	U5	U6	U7	N/A
Lead Pipe - Double Extra Strong (XXS or AAA)	Not Required	U3	U4	U4, U5	U5	U6	U7	N/A

Installation Instructions



1. CUT PIPE TO LENGTH:

Make a clean cut, square to the pipe using an appropriate cutter (roll cutter or shears are preferred.)

2. INSERTION LENGTH:

Put the fitting beside the pipe and note the length of the pipe to be inserted (use your thumb or marker as a guide.)

3. INSERT THE PIPE:

Insert the pipe to the depth noted. (You may wish to tighten the nut to make the rubber close to the pipe diameter before insertion.

4. TIGHTEN THE NUT:

Using standard wrenches, tighten the nut to seal and grip the pipe.

5. COMPLETION:

Continue to tighten until the nut will not move with reasonable force.

Cambridge Brass Lifetime Warranty

Cambridge Brass, Inc., 140 Orion Place, Cambridge, Ontario warrants to the installing purchaser that products manufactured by Cambridge Brass are free from defects in material and/or workmanship for the lifetime of the product.*

Effective with products produced March 1st, 2005 or thereafter Cambridge Brass will, at its option, repair or replace any part which proves to be defective in material and/or workmanship during the warranty period under approved installation, water and service conditions and use.

If Cambridge Brass concludes that the returned part was manufactured by Cambridge Brass and is, in fact, defective, then Cambridge brass will honor the warranty stated herein. LABOUR CHARGES AND/OR DAMAGED INCURRED IN INSTALLATION, REPAIR OR REPLACEMENT AS WELL AS CONSEQUENTIAL, SPECIAL, INDIRECT OR PUNITIVE DAMAGES CONNECTED THEREWITH ARE EXCLUDED AND WILL NOT BE PAID BY CAMBRIDGE BRASS.

This warranty is void in the event of any damage to the product due to uses other than those for which the product has been designed & promoted, abuse, neglect, accident, improper installation, any use other than the instructions furnished by Cambridge Brass or use of replacement parts other than genuine Cambridge parts.

The Lifetime Warranty terms described herein do not apply to plug (key) style valves or to any moving plastic parts such as check valves.

Cambridge Brass does warrant these parts for 5 years per the other terms of this Lifetime warranty.

This is the complete and exclusive warranty made by Cambridge Brass.

Cambridge Brass does not make any other warranty of any kind, including any implied warranties.

*assumes a 40 year product life span.



CAMBRIDGE BRASS INC.

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