

The 'Cambridge' Coupling

"It's Universal!"



Design features:

- 300 PSI working pressure rating! Same as our 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 the 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

	Inches		Millimeters	
	Min.	Max.	Min.	Max.
U2	0.600"	0.900"	15.3mm	22.8mm
U3	0.735"	1.135"	18.6mm	28.8mm
U4	1.000"	1.400"	25.4mm	35.6mm
U5	1.300"	1.700"	33.0mm	43.2mm
U6	1.600"	2.000"	40.6mm	50.8mm
U7	1.969"	2.381"	50.0mm	60.5mm

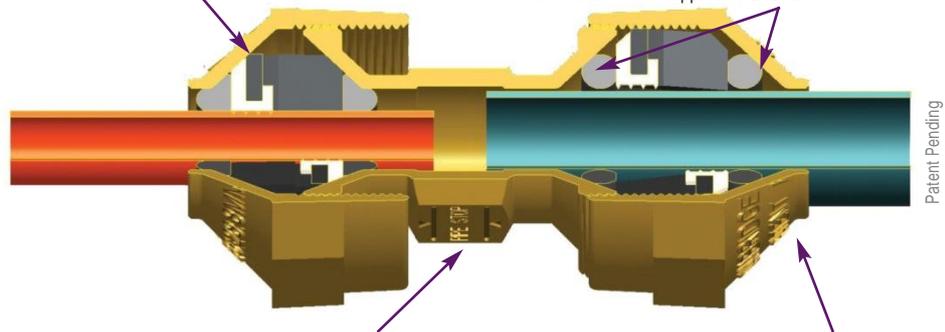
U3 and U4 are currently available, other sizes in development.

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 lifetime.

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 (300PSI), 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.

Pipe Material	Insert	Nominal Pipe Size							
		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 88,89,84	-	-	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 SDR7(PE)	Series 87	U2,U3	-	U3,U4	U4,U5	U6	U7	*	
Lead Pipe - Strong (S or A)	Not Required	U2,U3	U3,U4	U4	U5	U6	U7	*	
Lead Pipe - Extra Strong (XS or AA)	Not Required	U2,U3	U3,U4	U4	U5	U6	U7	*	
Lead Pipe - Double Extra Strong (XXS or AAA)	Not Required	U3	U4	U4,U5	U5	U6	U7	*	

Note: 119NL-U3U3, 119NL-U3U4 and 119NL-U4U4 currently available. Other sizes are in development. Note: * denotes N/A, - denotes pipe size does not exist.

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
- Polybutylene
- PEX
- PVC
- Steel (Galvanized, stainless, iron)
- Lead
- Virtually any type of waterworks pipe materials are acceptable.
- Make sure to use the 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 372 and State No Lead Laws
- Body and nut are made of NO- LEAD Waterworks Brass (C89833), 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 onto pipe using standard wrenches until the nut cannot be turned any further with reasonable force (recommended to meet or exceed 100 ft lbs)



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.

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INC

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