



METER  
VALVES

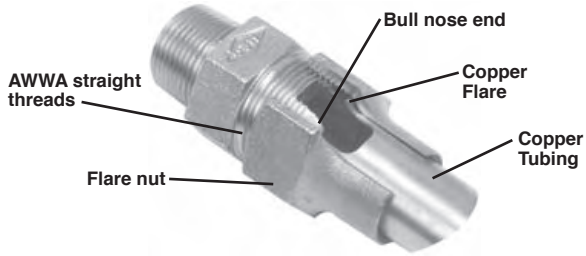


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A.Y. McDONALD MFG. CO.  
WATER SERVICE PRODUCTS

## Flare



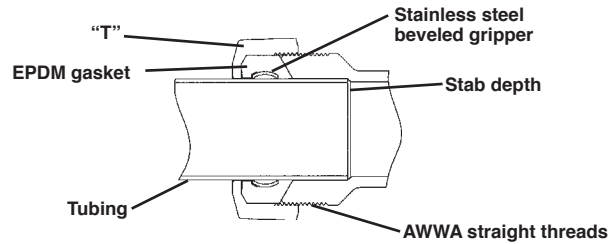
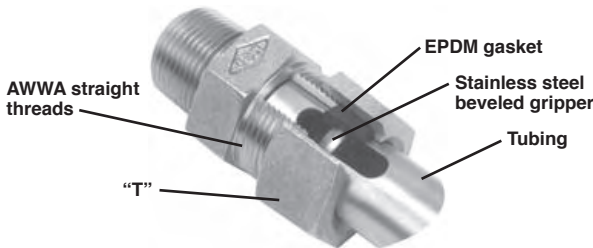
- A. Remove the flare nut from the valve or fitting and slip it onto the copper tubing.
- B. Flare the end of the copper tubing making sure the O.D. of the flare extends out to the threads in the flare nut.
- C. Screw the flare nut with tubing back onto the matching bull nose end of the valve or fitting and securely wrench tighten.
- D. The flared portion of the copper tubing acts as a watertight (over 300 PSIG) gasket and also is locked between the nut and coupling giving high pull-out resistance.

Design for use above or below ground with cold potable water.

Manufactured to AWWA C800 Standard

## T and TA Compression

Copper tube, CTS PE ("T") is stabbed thru nut to stab depth. The "T" nut is tightened to the required torque, which compresses the EPDM gasket and stainless steel beveled gripper, which creates a water-tight seal and pull-out strength.



A. Insert tubing through the "T" compression nut and into the machined socket of the valve or fitting.\*

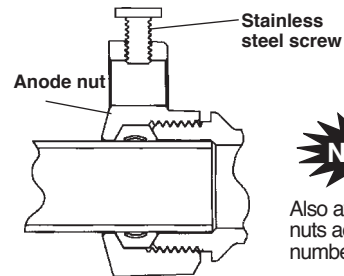
B. Wrench tighten the "T" compression nut securely onto the valve or fitting. This will:

1. Provide a water-tight (over 300 PSIG) seal by compressing both edges of the EPDM gasket around the tubing and;
2. Compress the stainless steel beveled gripper providing high pull-out resistance.
3. Tighten the T Coupling onto the valve or fitting finger tight, then wrench tighten 2-3 more complete turns.

**DO NOT OVERTIGHTEN.**

**NOTE:** "T" Compression and Mac-Pak nuts have the same threads and are interchangeable.

**NOTE:** Tube/Fitting may rotate because compression gasket is lubricated to prevent binding while tightening. Fitting will hold well over 300 PSIG if tightened per instructions.



Also available on Flare nuts add "A" to model number ie 4701=4701A

For the electrical anode nut feature add "A" to the Model No.: **4701TA**

Tighten to the following minimum torques:

### Copper Tube and CTS-PE "T" Compression\*

3/4"	.....50 ft-lbs
1"	.....55 ft-lbs
1 1/4"	.....65 ft-lbs
1 1/2"	.....85 ft-lbs
2"	.....100 ft-lbs

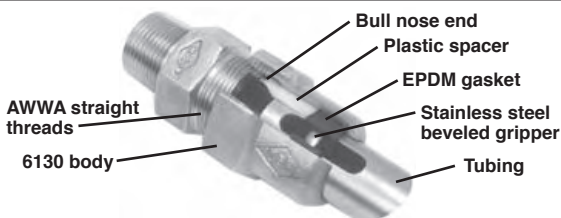
### "TA" Anode Compression Assembly

Copper tube is stabbed thru nut to stab depth. The "TA" nut is tightened to the required torque, which compresses the EPDM gasket and stainless steel beveled gripper, which creates a water-tight seal and pull-out strength. A copper wire that leads to a zinc anode is locked into the compression nut via the stainless steel screw.

Design for use above or below ground with cold potable water.

Manufactured to AWWA C800 Standard

## 6130 Compression



The 6130 Compression Coupling converts any 3/4" or 1" flared joint into a tube size compression joint.

- A. Remove the flare nut from the valve or fitting and replace with the 6130 Coupling.
  - B. Squarely cut the end of the copper or polyethylene tubing and insert it into the 6130 Coupling until the tubing bottoms out.\*
  - C. Tighten the 6130 Coupling onto the valve or fitting fingertight, then wrench tighten 2-3 more complete turns.
- DO NOT OVERTIGHTEN.**

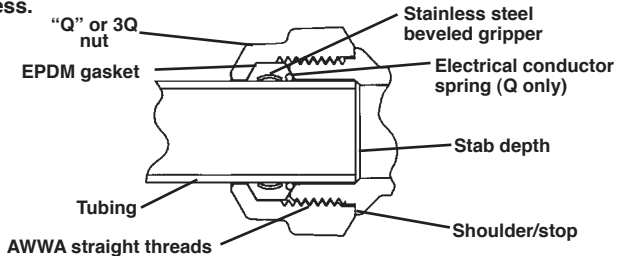
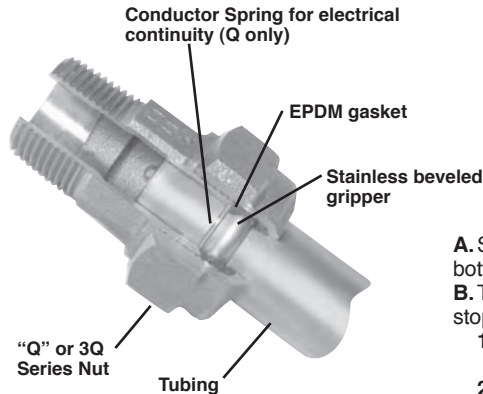
Design for use above or below ground with cold potable water.

Manufactured to AWWA C800 Standard

\*Also acceptable for use with 250# PSI polybutylene tubing. **NOTE:** Materials meet or exceed A.W.W.A. standard C-800. Insert stiffeners are **required** on all flexible plastic connections. See page 6.

## McQuik Compression - Q and 3Q Series

Copper tube, CTS PE(Q) or PEP(3Q) is stabbed through the nut to stab depth. The "Q" or "3Q" nut is tightened to the stop/shoulder on the body, which compresses the EPDM gasket and stainless steel beveled gripper, which creates a water-tight seal and pull-out strength. The electrical conductor spring makes positive contact between the copper tubing and the brass nut/fitting. When using with CTS PE, the electrical conductor spring becomes purposeless.



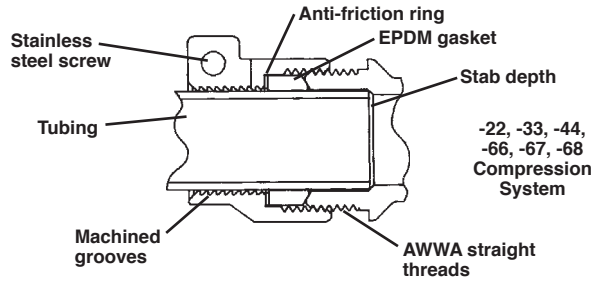
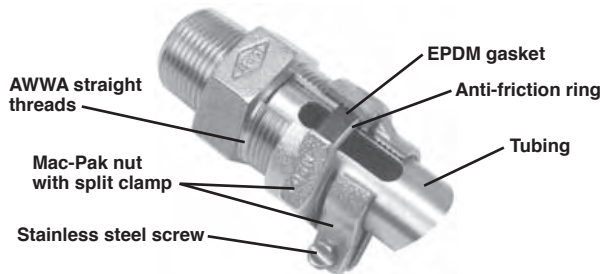
- A. Stab tube\* through the "Q" Series nut and into the socket of the valve or fitting until it bottoms out (three part unions may or may not have an internal stop).
- B. Tighten the McQuik "Q" Series nut to the stop. The end face of the nut is to contact the stop face of the body. This will:
  1. Provide a water-tight over 300 PSIG seal by compressing both edges of the EPDM gasket around the tubing and;
  2. Compress the stainless steel beveled gripper providing high pull-out resistance.

**NOTE:** Tube/Fitting may rotate because compression gasket is lubricated to prevent binding while tightening. Fitting will hold well over 300 PSIG if tightened per instructions. Design for use above or below ground with cold potable water. Manufactured to AWWA C800 Standard

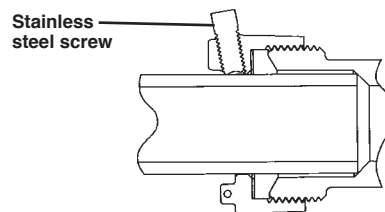
## Mac-Pak Compression - 22, 33, 44, 55, 66, 67 and 68 Compression

Copper tube or CTS PE ("22"), PEP ("33"), PVC (-44), IP (-55), strong lead (-66), extra strong lead (-67) or double extra strong lead (-68) is stabbed thru nut to stab depth. The nut is tightened to the required torque, which compresses the EPDM gasket, which creates a water-tight seal. The stainless steel screw is tightened to the required torque, for pull-out strength.

Iron pipe (-55) is stabbed thru nut to stab depth. The nut is tightened to the required torque, which compresses the EPDM gasket, which creates a water-tight seal. The stainless steel screw or screws are tightened to the required torque, for pull-out strength.



-22, -33, -44, -66, -67, -68  
Compression System



IP-55  
Compression System

- A. Insert tubing or plastic pipe through the nut into the machined socket in the valve or fitting.\*
- B. Wrench tighten the Mac-Pak nut securely onto the valve or fitting compressing the EPDM seal around the pipe or tubing, creating a water-tight seal over 300 PSIG.
- C. Secure the split clamp onto the pipe or tubing by tightening the stainless steel bolt on the side of the clamp. Machined grooves in the split clamp provide additional gripping and electrical continuity.
- D. Mac-Pak couplings are coded as follows:  
 22 SERIES - Tube size copper or P.E.\* -- CTS  
 33 SERIES - Pipe size P.E.\* -- IPS or PEP  
 44 SERIES - P.V.C. -- PVC  
 55 SERIES - Steel pipe -- IP  
  
 66 SERIES - Strong lead pipe -- S  
 67 SERIES - Extra strong lead pipe -- XS  
 68 SERIES - Extra, extra strong lead pipe -- XXS

Tighten to the following minimum torques:

### "22", "33", "44", "55" Compression

<b>For nut:</b>	1/2" ..... 20 ft-lbs	1" ..... 30 ft-lbs	1 1/2" ..... 40 ft-lbs
	3/4" ..... 25 ft-lbs	1 1/4" ..... 35 ft-lbs	2" ..... 45 ft-lbs

<b>For clamp</b>	1/2" ... 70-80 in-lbs	1" ..... 90-100 in-lbs	1 1/2" 160-180 in-lbs
<b>side screw:</b>	3/4" ... 80-90 in-lbs	1 1/4" 120-140 in-lbs	2" ..... 200-220 in-lbs

### Lead Mac-Pak Comp. "66", "67", "68" Compression

<b>For nut:</b>	1/2" ..... 25 ft-lbs	1" ..... 40 ft-lbs	1 1/2" ..... 50 ft-lbs
	5/8" ..... 30 ft-lbs	1 1/4" ..... 45 ft-lbs	2" ..... 55 ft-lbs
	3/4" ..... 35 ft-lbs		

<b>For clamp</b>	1/2" ... 70-80 in-lbs	1" ..... 90-100 in-lbs	1 1/2" 160-180 in-lbs
<b>side screw:</b>	5/8" ... 75-85 in-lbs	1 1/4" 120-140 in-lbs	2" ..... 160-180 in-lbs
	3/4" ... 80-90 in-lbs		

Design for use above or below ground with cold potable water.

Manufactured to AWWA C800 Standard

\*Also acceptable for use with 250# PSI polybutylene tubing. NOTE: Materials meet or exceed A.W.W.A. standard C-800. Insert stiffeners are required on all flexible plastic connections. See page 6.

Types of Pipe/Tubing for use with A.Y. McDonald Fittings (Outside Diameters listed)

NOMINAL SIZE	TYPE K or L COPPER TUBE	POLYETHYLENE ASTM D2737 SDR 9 TUBE SIZE	PEX TUBING ASTM F876 SDR 9 CSA B137.5	POLYBUTYLENE ASTM D2666 SDR 9 TUBE SIZE CLASS 250	POLYBUTYLENE or POLYETHYLENE ASTM D2239 SDR 7 PIPE SIZE	PVC ASTM D1785	STEEL PIPE	POLYETHYLENE SDR 9 OD CONTROLLED PIPE SIZE	LEAD PIPE		
									STRONG S or A	EXTRA STRONG XS or AA	DOUBLE EXTRA STRONG XXS or AAA
1/2"	.622 .628	A .621 .629	A .621 .629	A .625 .633	B .79 .85	.836 .844	.836 .844	B .783 .813	.861 .891	.997 1.027	
5/8"								1.004 1.034	1.122 1.152		
3/4"	.872 .878	.871 .879	.871 .879	.875 .883	1.045 1.110 (1.089)	1.046 1.054	1.046 1.054	1.046 1.054	1.197 1.227	1.321 1.351	
1"	1.121 1.129	1.120 1.130	1.120 1.130	1.125 1.135	1.329 1.399 (1.384)	1.310 1.320	1.310 1.320	1.310 1.320	1.477 1.507	1.581 1.611	
1 1/4"	1.371 1.379	1.370 1.380	1.370 1.380	1.375 1.385	1.754 1.832 (1.804)	1.655 1.665	1.655 1.665	1.655 1.665	1.750 1.780	1.874 1.904	1 1/2" -44
1 1/2"	1.621 1.630	1.619 1.631	1.619 1.631	1.625 1.637	2.050 2.141 (2.109)	1.894 1.906	1.894 1.906	1.894 1.906	2.061 2.091	2.257 2.287	2" -22
2"	2.120 2.130	2.119 2.131	2.119 2.131	2.125 2.137	2.637 2.742 (2.709)	2.369 2.381	2.369 2.381	2.369 2.381	2.736 2.766	2.993 3.023	B
Type of A.Y. Fitting	-22, Q or T C	-22*, Q* or T* C	-22*, Q* or T* C	-22*, Q* or T* C	-33* or 3Q* E	-44 D	-55 D	-44*	-66	-67	-68

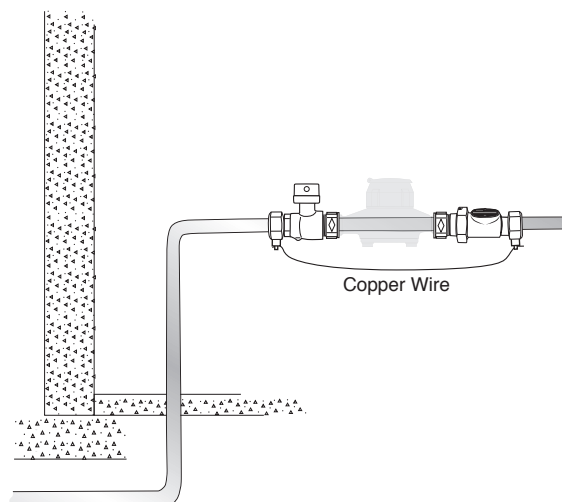
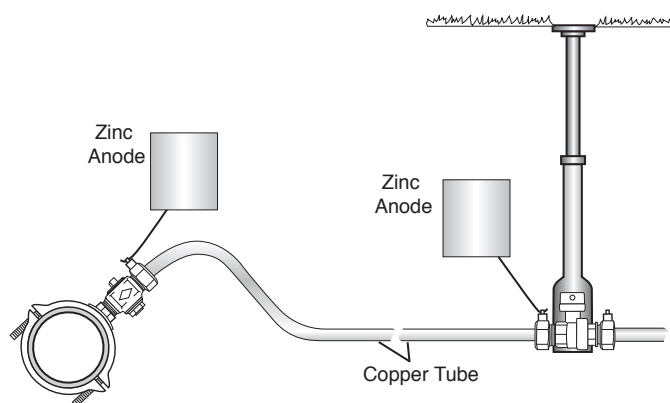
■ Shaded areas indicate where lead pipe may have to be shaved to fit compression end shown.

- A • Need insert not available from A.Y. McDonald Mfg. Co.
- B • No fitting from A.Y. McDonald Mfg. Co. available.
- C • T and Q not available for 1/2" size.
- D • -Insert stiffener not required
- E • -3Q only available in 3/4" and 1" sizes.
- () • Maximum pipe O.D. that will work with A.Y. McDonald fittings.

\*Insert Stiffeners required on all flexible plastic connections

# Anode Services

# Electrical Continuity



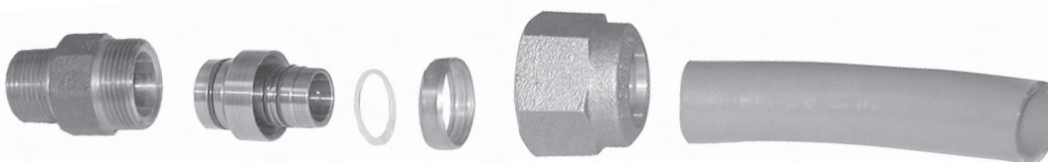
## Sacrificial anode

In cathodic protection, a metal anode that is more reactive to the corrosive environment of the system to be protected is electrically linked to the protected system, and partially corrodes or dissolves, which protects the metal of the system it is connected to. As an example, a ductile watermain may be protected by a zinc sacrificial anode, which will dissolve and prevent the main from being corroded. Sacrificial anodes are particularly needed for systems where a static charge is generated by the action of flowing liquids, such as water pipelines.

Galvanic corrosion, often misnamed "electrolysis," is one common form of corrosion in watermain environments. It occurs when two (or more) dissimilar metals are brought into electrical contact. When a galvanic couple forms, one of the metals in the couple becomes the **anode** and corrodes faster than it would all by itself, while the other becomes the **cathode** and corrodes slower than it would alone. Either (or both) metals in the couple may or may not corrode by itself (themselves) in wet soil saturated wet soil. When contact with a dissimilar metal is made, however, the self-corrosion rates will change: corrosion of the anode will accelerate; corrosion of the cathode will decelerate or even stop.

For a zinc anode to provide any protection, it must be in electrical contact with the metal being protected. The conductivity of the water is not adequate. We need low-resistance, metal-to-metal contact-either by mounting the zinc directly to the metal being protected or by connecting the two with a wire. A hanging anode can provide protection if it is connected by a wire to the metal being protected.

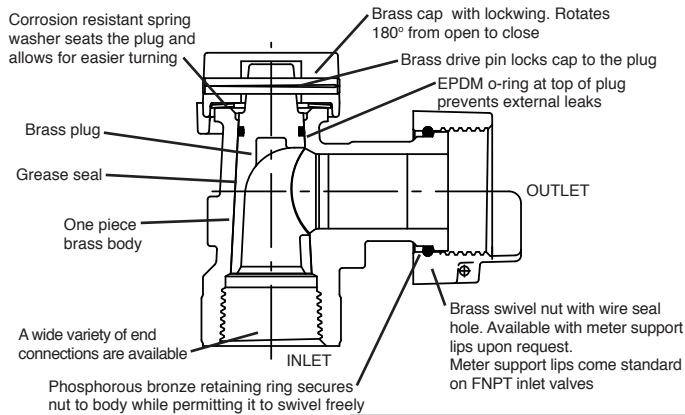
Any Q Series connection can be changed to a **C903 Connection**. Replace the "Q" in the model number with a "K." 3/4" or 1" only.



## Meter Valves General Information

### Plug Angle Valve

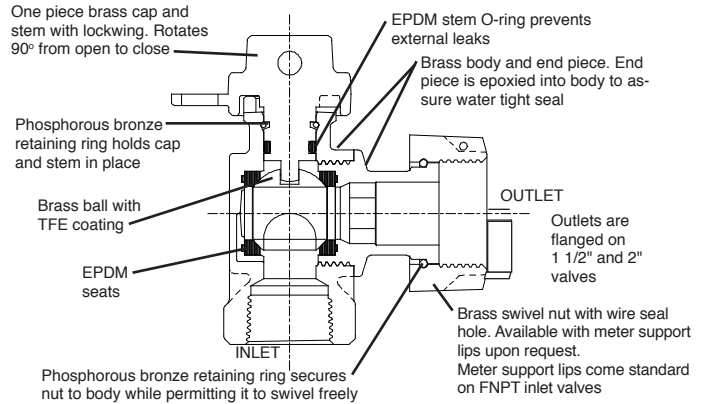
Maximum Pressure Rating = 100 PSIG Water



Available with FNPT threads, Flare or Compression inlets

### Ball Angle Valve

Maximum Pressure Rating = 300 PSIG Water



All McDonald Valves are inspected repeatedly during the manufacturing process, then each valve is pressure-tested air under water.

## Codes and Descriptions of Tubing and Pipe which are used with A. Y. McDonald Compression Couplings

**Copper Tube - CTS - (Copper Tube Size)** - the outside diameter is closely controlled by the manufacturer per ASTM specifications.

**Polyethylene or Polybutylene Tube - CTS - (Copper Tube Size)** - ASTM D2737 SDR 9 or ASTM D2666 SDR 9 - flexible plastic tubing has the same outside diameter as corresponding sizes of copper tube and requires an insert stiffener to support the inside diameter of the tube.

**McDonald Mac-Pak (-22), T-Series and McQuik (Q-Series)** compression assemblies are all designed to fit copper tube and copper tube sized polyethylene or polybutylene. The Mac-Pak (-22) compression nuts are stamped with **CTS**. Copper tube size T & Q Series compression nuts have no markings.

**Polyethylene Pipe - PEP - (PolyEthylene or Polybutylene Pipe)** - ASTM D2239 SDR 7 or ASTM D2662 SDR 7 - flexible plastic pipe Inside Diameter controlled. Requires an insert stiffener to support the inside diameter of the tube.

**McDonald Mac-Pak (-33), and McQuik (-3Q-Series)** compression assemblies are both designed to fit polyethylene or polybutylene pipe. These compression nuts are stamped with **PEP**.

**Polyvinyl Chloride - PVC - (PolyVinyl Chloride)** - rigid plastic pipe that has the same outside diameter as corresponding sizes of standard iron pipe.

**McDonald Mac-Pak (-44)** compression assemblies are designed to fit polyvinyl chloride. These compression nuts are stamped with **PVC**.

**Iron Pipe - IP - (Iron Pipe)** - rigid iron pipe in which the outside diameter is closely controlled by the manufacturer per ASTM specifications.

**McDonald Mac-Pak (-55)** compression assemblies are designed to fit iron pipe. These compression nuts are stamped with **IP**.

**C903 - PE-AL-PE - (PolyEthylene-ALuminum-PolyEthylene)** - flexible composite pipe that is manufactured and third party certified to ASTM F-1282. This compression assembly can be made from any 3/4" or 1" available in the "Q" series and is designated by replacing the "Q" in the model number with a "K".

McDonald "K" series compression nuts are designed to fit C903 pipe and are marked **C903**.

**MNPT** - Male National Pipe Thread

**FNPT** - Female National Pipe Thread

**FNPSMT** - Female National Pipe Straight Meter Thread

**MNPSMT** - Male National Pipe Straight Meter Thread

Meter Size	5/8	5/8 x 3/4	3/4	1	1 1/2	2
<b>A-Meter Threads</b>	3/4"	1"	1"	1 1/4"	Oval Flange	Oval Flange
<b>B-Laying Length</b>	7 1/2"	7 1/2"	9"	10 3/4"	13"	17"
<b>A.Y. McDonald Spacing*</b>	7 13/16"	7 13/16"	9 5/16"	11 3/32"	13 3/8"	17 3/8"

\*Allows for meter and two gaskets.

## Insert Stiffeners - Insert Stiffeners required on all flexible plastic connections

**6131T · PLASTIC**  
For copper tube size polyethylene  
ASTM D2737 SDR 9 - CTS



Sizes: 3/4", 1"

\*Also acceptable for use with 250 PSI polybutylene tubing. ASTM D2666, SDR 9, CTS.

**6133T · STAINLESS STEEL**  
For copper tube size polyethylene  
ASTM D2737 SDR 9 - CTS



Sizes: 3/4", 1", 1 1/4", 1 1/2", 2"

**6136 · STAINLESS STEEL**  
For ID Controlled PEP  
ASTM D2239 SDR 7



Sizes: 3/4", 1", 1 1/4", 1 1/2", 2"

**6137 · STAINLESS STEEL**  
For OD controlled PEP SDR9  
ASTM D3035



Sizes: 2"

Materials meet or exceed A.W.W.A. standard C-800

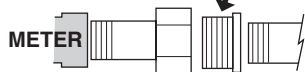
**NEW**

# Meter Couplings

## Straight



For use with  
1 1/2" & 2"  
straight meter  
couplings to  
facilitate tapped  
meter removal



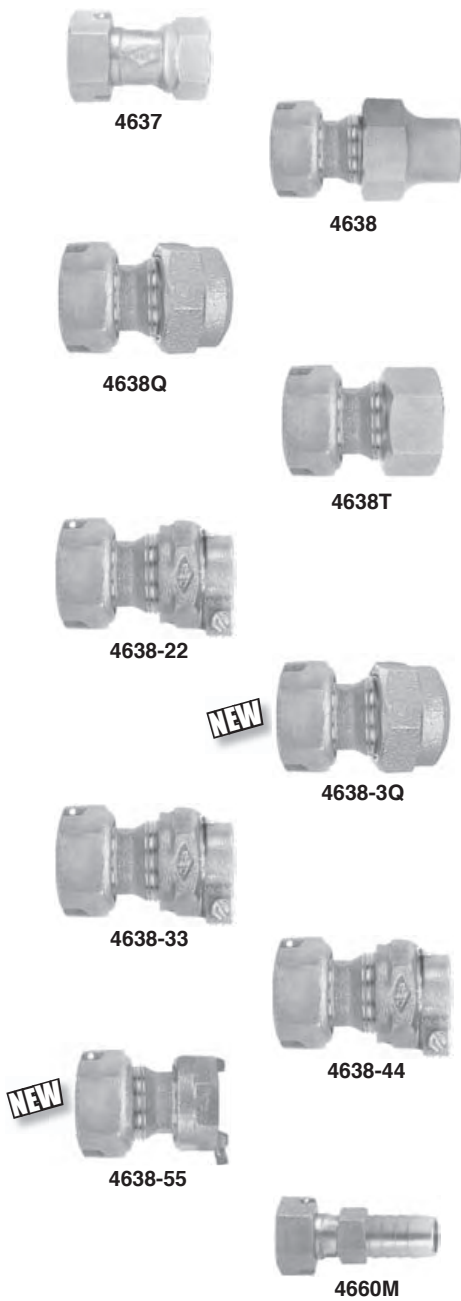
MODEL	DESCRIPTION	LENGTH	METER SIZE	END CONNECTION
4619 5/8	Adapter	1 15/16	5/8	3/4 MNPT
4619 3/4	Adapter	1 15/16	5/8x3/4 or 3/4	3/4 MNPT
4619 1	Adapter	2 1/4	1	1 MNPT
NEW 4619 1 1/2	Adapter	2	1 1/2	1 1/2 MNPT
NEW 4619 2	Adapter	3	2	2 MNPT
NEW 4619F	Coupling nut	1 5/8	5/8x3/4 or 3/4 Meter Spud	3/4 FNPT
4620 5/8	Ribbed tail piece	2 3/8	5/8	1/2 MNPT
4620 5/8x3/4	Ribbed tail piece	2 3/16	5/8	3/4 MNPT
NEW 4620HEX 5/8	Hex Driving Key for 4620H	4	5/8x3/4 or 3/4	--
NEW 4620H 3/4 x 1 7/16	Tail piece w/internal driving hex	1 7/16	5/8x3/4 or 3/4	3/4 MNPT
NEW 4620H 3/4 x 1 1/2	Tail piece w/internal driving hex	1 1/2	5/8x3/4 or 3/4	3/4 MNPT
NEW 4620H 3/4 x 1 5/8	Tail piece w/internal driving hex	1 5/8	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 2	Ribbed tail piece	2	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 2 1/4	Ribbed tail piece	2 1/4	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 1/2	Ribbed tail piece	2 3/8	5/8x3/4 or 3/4	1/2 MNPT
4620 3/4	Ribbed tail piece	2 1/2	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 1	Ribbed tail piece	2 1/2	5/8x3/4 or 3/4	1 MNPT
4620 3/4 x 2 3/4	Ribbed tail piece	2 3/4	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 3	Ribbed tail piece	3	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 8 1/2	Cast w/wrench flats	8 1/2	5/8x3/4 or 3/4	3/4 MNPT
4620 3/4 x 12	Cast w/wrench flats	12	5/8x3/4 or 3/4	3/4 MNPT
NEW 4620 1 x 3/4 x 1.75	Ribbed tail piece	1 3/4	1	3/4 MNPT
4620 1	Ribbed tail piece	2 5/8	1	1 MNPT
NEW 4620 1 x 8 1/2	Cast w/wrench flats	8 1/2	1	1 MNPT
NEW 4620 1 x 12	Case w/wrench flats	12	1	1 MNPT
NEW 4620HEX 13/16	Hex Driving Key for 4628H	4	1	--
4620 1 1/2	Ribbed tail piece	2 3/4	1 1/2	1 1/2 MNPT
4620 2	Ribbed tail piece	3	2	2 MNPT
4620BB 1 1/2	Meter Coupling Bushing	1 1/2	2 MNPSMT	1 1/2 FNPT
4620BB 2	Meter Coupling Bushing	1 3/4	2 1/2 MNPSMT	2 FNPT
NEW 4620MM 3/4	Coupling	2 1/4	5/8x3/4 or 3/4	5/8x3/4 or 3/4
4622 5/8	Ribbed tail piece▼	2 3/8	5/8	1/2 MNPT
4622 3/4	Ribbed tail piece▼	2 1/2	5/8x3/4 or 3/4	3/4 MNPT
4622 1	Ribbed tail piece▼	2 5/8	1	1 MNPT
4624 5/8	Machined tail piece▼	2 3/8	5/8	1/2 MNPT
4624 3/4	Machined tail piece▼	2 1/2	5/8x3/4 or 3/4	3/4 MNPT
4624 3/4 x 2	Machined tail piece▼	2	5/8x3/4 or 3/4	3/4 MNPT
4624 3/4 x 1 13/16	Machined tail piece▼	1 13/16	5/8x3/4 or 3/4	3/4 MNPT
4624 3/4 x 2 11/16	Machined tail piece▼	2 11/16	5/8x3/4 or 3/4	3/4 MNPT
4624 1	Machined tail piece▼	2 5/8	1	1 MNPT
4624 1 x 2	Machined tail piece▼	2	1	1 MNPT
4624 1 x 1 13/16	Machined tail piece▼	1 13/16	1	1 MNPT
4624 1 x 2 11/16	Machined tail piece▼	2 11/16	1	1 MNPT
4626 5/8	Machined tail piece	2 3/8	5/8	1/2 MNPT
4626 3/4	Machined tail piece	2 1/2	5/8x3/4 or 3/4	3/4 MNPT
4626 1	Machined tail piece	2 5/8	1	1 MNPT
4628 5/8 x 2	Machined tail piece	2	5/8	1/2 MNPT
4628 3/4 x 2	Machined tail piece	2	5/8x3/4 or 3/4	3/4 MNPT
NEW 4628H 1 x 1 1/2	Tail piece w/Internal driving hex	1 1/2	1	1 MNPT
4628 1 x 2	Machined tail piece	2	1	1 MNPT
NEW 4628H 1 x 2	Tail piece w/Internal driving hex	2	1	1 MNPT

- All couplings with nuts drilled for wire seal, **except** where indicated by ▼
- Swivel nuts have internal straight threads per AWWA C700 and come with a wire seal hole.
- EPDM rubber washers are supplied standard. Leather Gaskets sold separately.

SEE PAGE 8 FOR MORE METER COUPLINGS

## Meter Couplings

### Straight Meter Coupling



MODEL	SWIVEL NUT / METER SIZE	END CONNECTION
4637 3/4	5/8x3/4 or 3/4	3/4 FNPT
4637 1	1	1 FNPT
4638 3/4	5/8x3/4 or 3/4	3/4 Flare
4638 1	1	1 Flare
4638Q 3/4◆	5/8x3/4 or 3/4	3/4 "Q" CTS Comp.*
<b>NEW</b> 4638Q 3/4 x 1◆	5/8x3/4 or 3/4	1 "Q" CTS Comp.*
<b>NEW</b> 4638Q 3/4 x 1 1/4	5/8x3/4 or 3/4	1 1/4 "Q" CTS Comp.*
<b>NEW</b> 4638Q 1 x 1 1/4	1	1 1/4 "Q" CTS Comp.*
4638T 3/4	5/8x3/4 or 3/4	3/4 "T" CTS Comp.*
4638T 3/4 x 1	5/8x3/4 or 3/4	1 "T" CTS Comp.*
<b>NEW</b> 4638T 3/4 x 1 1/4	5/8x3/4 or 3/4	1 1/4 "T" CTS Comp.*
4638T 1	1	1 "T" CTS Comp.*
<b>NEW</b> 4638T 1 x 1 1/4	1	1 1/4 "T" CTS Comp.*
4638-22 3/4	5/8x3/4 or 3/4	3/4 "22" CTS Comp.*
4638-22 3/4 x 1	5/8x3/4 or 3/4	1 "22" CTS Comp.*
<b>NEW</b> 4638-22 3/4 x 1 1/4	5/8x3/4 or 3/4	1 1/4 "22" CTS Comp.*
4638-22 1	1	1 "22" CTS Comp.*
<b>NEW</b> 4638-22 1 x 1 1/4	1	1 1/4 "22" CTS Comp.*
<b>NEW</b> 4638-3Q 3/4x1	5/8x3/4 or 3/4	1 "3Q" PEP Comp.*
<b>NEW</b> 4638-3Q 1	1	1 "3Q" PEP Comp.*
4638-33 3/4	5/8x3/4 or 3/4	3/4 "33" PEP Comp.*
<b>NEW</b> 4638-33 3/4 x 1	5/8x3/4 or 3/4	1 "33" PEP Comp.*
<b>NEW</b> 4638-33 1	1	1 "33" PEP Comp.*
4638-44 3/4	5/8x3/4 or 3/4	3/4 "44" PVC Comp.
<b>NEW</b> 4638-44 3/4 x 1	5/8x3/4 or 3/4	3/4 "44" PVC Comp.
<b>NEW</b> 4638-44 1	1	1 "44" PVC Comp.
<b>NEW</b> 4638-55 3/4	5/8x3/4 or 3/4	3/4 "55" IP Comp.
<b>NEW</b> 4638-55 3/4 x 1	5/8x3/4 or 3/4	1 "55" IP Comp.
<b>NEW</b> 4638-55 1	1	1 "55" IP Comp.
4660M 3/4x1	5/8x3/4 or 3/4	1 PEP Barbed

◆ For C903 connection, replace "Q" in model number with "K". 3/4" and 1" only.

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

•Swivel nuts have internal straight threads per AWWA C700 and come with a wire seal hole.

•EPDM rubber washers are supplied standard. Leather Gaskets sold separately.

•For couplings with meter saddle nut, Contact Factory.

■ Meter Couplings

■ 90° Angle Meter Couplings



MODEL	SWIVEL NUT / METER SIZE	END CONNECTION
4621 5/8	5/8	1/2 MNPT
4621 3/4 x 1/2	5/8x3/4 or 3/4	1/2 MNPT
4621 3/4	5/8x3/4 or 3/4	3/4 MNPT
4621 1	1	1 MNPT
4623 5/8▼	5/8	1/2 MNPT
4623 3/4▼	5/8x3/4 or 3/4	3/4 MNPT
4623 1▼	1	1 MNPT
4632 5/8	5/8	3/4 FNPT
4632 3/4	5/8x3/4 or 3/4	3/4 FNPT
NEW 4632 3/4 x 1	5/8x3/4 or 3/4	1 FNPT
4632 1	1	1 FNPT

MODEL	END CONNECTION	SWIVEL NUT / METER SIZE
4783S 5/8	3/4 Flare	5/8
4783S 3/4	3/4 Flare	5/8x3/4 or 3/4
4783S 1	1 Flare	1
NEW 4783SQ 3/4◆	3/4 "Q" CTS Comp.*	5/8x3/4 or 3/4
4783SQ 3/4 x 1◆	1 "Q" CTS Comp.*	5/8x3/4 or 3/4
4783ST 5/8	3/4 "T" CTS Comp.*	5/8
4783ST 3/4	3/4 "T" CTS Comp.*	5/8x3/4 or 3/4
4783ST 1	1 "T" CTS Comp.*	1
NEW 4783ST 3/4 x 1	1 "T" CTS Comp.*	5/8x3/4 or 3/4
4783S-22 5/8	3/4 "22" CTS Comp.*	5/8
4783S-22 3/4	3/4 "22" CTS Comp.*	5/8x3/4 or 3/4
4783S-22 1	1 "22" CTS Comp.*	1
NEW 4783S-22 3/4 x 1	1 "22" CTS Comp.*	5/8x3/4 or 3/4
NEW 4783S-3Q 3/4 x 1	1 "3Q" PEP Comp.*	5/8x3/4 or 3/4
NEW 4783S-33 3/4 x 1	1 "33" PEP Comp.*	5/8x3/4 or 3/4

All couplings with nuts drilled for wire seal, **except** where indicated by ▼  
 ◆ For C903 connection, replace "Q" in model number with "K". 3/4" and 1" only.

- \*Insert stiffeners are **required** on all flexible plastic connections, see page 6.
- Swivel nuts have internal straight threads per AWWA C700 and come with a wire seal hole.
- EPDM rubber washers are supplied standard. Leather Gaskets sold separately.

## Angle Valves • Plug Style 100 PSI • Lockwing

For 5/8, 5/8 x 3/4, 3/4 or 1 Meters

ORDER METER VALVES BY  
MODEL NUMBER AND  
VALVE SIZE

### MODEL NUMBER



**4604**



**4602**



**4602T**

Valve Size	END CONNECTION	SWIVEL NUT / METER SIZE	FNPT x SWIVEL NUT	FLARE x SWIVEL NUT	T CTS Comp* x SWIVEL NUT
3/4" x 5/8"	3/4"	5/8	<b>NEW</b> ●	<b>NEW</b> ●	<b>NEW</b> ●
1" x 5/8"	1"	5/8	<b>NEW</b> ●	<b>NEW</b> ●	<b>NEW</b> ●
3/4"	3/4"	5/8x3/4 or 3/4	●	●	●
1" x 3/4"	1"	5/8x3/4 or 3/4	<b>NEW</b> ●	●	●
1"	1"	1	●	●	●
1 1/4" x 1"	1 1/4"	1	●		●

### MODEL NUMBER



**4602Q**◆



**4602-22**



**4602-3Q**

Valve Size	END CONNECTION	SWIVEL NUT / METER SIZE	Q CTS Comp* x SWIVEL NUT	22 CTS Comp* x SWIVEL NUT	3Q PEP Comp* x SWIVEL NUT
3/4" x 5/8"	3/4"	5/8	<b>NEW</b> ●	<b>NEW</b> ●	<b>NEW</b> ●
1" x 5/8"	1"	5/8	<b>NEW</b> ●	<b>NEW</b> ●	
3/4"	3/4"	5/8x3/4 or 3/4	<b>NEW</b> ●	●	●
1" x 3/4"	1"	5/8x3/4 or 3/4	<b>NEW</b> ●	●	
1"	1"	1	●	●	●
1 1/4" x 1"	1 1/4"	1		●	

### MODEL NUMBER



**4602-33**



**4602-44**



**4602-55**

Valve Size	END CONNECTION	SWIVEL NUT / METER SIZE	33 PEP Comp* x SWIVEL NUT	44 PVC Comp x SWIVEL NUT	55 IP Comp x SWIVEL NUT
3/4" x 5/8"	3/4"	5/8	<b>NEW</b> ●	<b>NEW</b> ●	<b>NEW</b> ●
3/4"	3/4"	5/8x3/4 or 3/4	●	●	●
1"	1"	1	●	●	●

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.

- Above angle valves are available with various end connections in place of meter nut. See Curb Stop Section.
- EPDM rubber washers are supplied standard. Leather gaskets sold separately.
- Meter nuts less saddle standard on all but FNPT connection valves. To order swivel nuts with saddle, contact factory.
- Swivel nuts have internal straight threads per AWWA C700 and come standard with a wire seal hole.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.

**Full Port Angle Valves • Ball Style 300 PSI • Lockwing**

For 5/8, 5/8 x 3/4, 3/4, or 1 Meters  
(For Angle Valves for  
1 1/2 or 2 meters, see page 20)

ORDER METER VALVES BY  
MODEL NUMBER AND VALVE SIZE



Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	FNPT x SWIVEL NUT	FLARE x SWIVEL NUT	T CTS Comp* x SWIVEL NUT
3/4" x 3/4" x 5/8"	3/4"	3/4"	5/8	NEW ●	NEW ●	NEW ●
1" x 3/4" x 5/8"	1"	3/4"	5/8	NEW ●	NEW ●	NEW ●
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●	●
1" x 3/4" x 3/4"	1"	3/4"	5/8x3/4 or 3/4	●	●	●
1 1/4" x 3/4" x 3/4"	1 1/4"	3/4"	5/8x3/4 or 3/4	●	●	●
1"	1"	1"	1	●	●	●



Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	Q CTS Comp* x SWIVEL NUT	22 CTS Comp* x SWIVEL NUT	3Q PEP Comp* x SWIVEL NUT
3/4" x 3/4" x 5/8"	3/4"	3/4"	5/8	NEW ●	NEW ●	
1" x 3/4" x 5/8"	1"	3/4"	5/8	NEW ●	NEW ●	
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●	
1" x 3/4" x 3/4"	1"	3/4"	5/8x3/4 or 3/4	●	●	●
1 1/4" x 3/4" x 3/4"	1 1/4"	3/4"	5/8x3/4 or 3/4	●	●	
1 1/4" x 1" x 1"	1 1/4"	1"	1	●	●	
1"	1"	1"	1	●	●	●
3/4" x 1" x 1"	3/4"	1"	1			NEW ●



Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	33 PEP Comp* SWIVEL NUT	44 PVC Comp x SWIVEL NUT	55 IP Comp x SWIVEL NUT
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●	●
1" x 3/4" x 3/4"	1"	3/4"	5/8x3/4 or 3/4	●	●	●
1"	1"	1"	1	●	●	●

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.

- To lock valves in open or closed position, add "WW" to end of model number i.e., (4604B = 4604WWB)
- Above angle valves are available with various end connections in place of meter nut. See Curb Stop Section.
- Less check ball valves available (360° turn). Contact factory.
- EPDM rubber washers are supplied standard. Leather gaskets sold separately.
- Meter nuts less saddle standard on all but FNPT connection valves. To order swivel nuts with saddle, contact factory.
- Swivel nuts have internal straight threads per AWWA C700 and come standard with a wire seal hole.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.
- 6120 or 6120B handles are optional-see page 16.

## Standard Port Angle Valves • Ball Style 300 PSI • Lockwing

For 5/8, 5/8 x 3/4, 3/4, or 1 Meters

ORDER METER VALVES BY  
MODEL NUMBER AND  
VALVE SIZE



**4644B**



**4642B**



**4642BT**

**MODEL NUMBER**

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	FNPT x SWIVEL NUT	FLARE x SWIVEL NUT	T CTS Comp* x SWIVEL NUT
5/8"	3/4"	5/8"	5/8	●	●	●
1" x 5/8"	1"	5/8"	5/8		●	●
3/4"	3/4"	5/8"	5/8x3/4 or 3/4	●	●	●
1 x 3/4"	1"	5/8"	5/8x3/4 or 3/4		●	●
1"	1"	3/4"	1	●	●	●
1¼" x 1"	1¼"	3/4"	1			●



**MODEL NUMBER**

**4642BQ**



**4642B-22**



**4642B-3Q**

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	Q CTS Comp* x SWIVEL NUT	22 CTS Comp* x SWIVEL NUT	3Q PEP Comp* x SWIVEL NUT
5/8"	3/4"	5/8"	5/8	<b>NEW</b> ●	●	
1" x 5/8"	1"	5/8"	5/8	●	●	
3/4"	3/4"	5/8"	5/8x3/4 or 3/4	●	●	●
1 x 3/4"	1"	5/8"	5/8x3/4 or 3/4	●	●	
1"	1"	3/4"	1	●	●	●
1¼" x 1"	1¼"	3/4"	1	<b>NEW</b> ●	●	



**MODEL NUMBER**

**4642B-33**



**4642B-44**



**4642B-55**

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	33 PEP SWIVEL NUT	44 PVC Comp x SWIVEL NUT	55 IP Comp x SWIVEL NUT
5/8"	3/4"	5/8"	5/8	●	●	●
3/4"	3/4"	5/8"	5/8x3/4 or 3/4	●	●	●
1"	1"	3/4"	1	●	●	●

\* Insert stiffeners are **required** on all flexible plastic connections, see page 6.

◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.

- To lock valves in open or closed position, add "WW" to end of model number i.e., (4604B = 4604WWB)
- Above angle valves are available with various end connections in place of meter nut. See Curb Stop Section.
- Less check ball valves available (360° turn). Contact factory.
- EPDM rubber washers are supplied standard. Leather gaskets sold separately.
- Meter nuts less saddle standard on all but FNPT connection valves. To order swivel nuts with saddle, contact factory.
- Swivel nuts have internal straight threads per AWWA C700 and come standard with a wire seal hole.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.
- 6120 or 6120B handles are optional-see page 16.

# Inline Dual Cartridge Check Valves • 11 Series



11-3JC 33 or 11-3JC 43



11-3JG 33 or 11-3JG 43



11-3JQ 33 or 11-3JQ 43



11-3JF 33 or 11-3JF 43

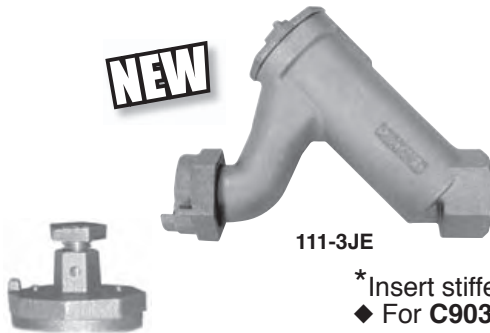


11-3JM 33 or 11-3JM 43  
or 11-3JB 44

## Inlet - Meter Swivel Nut

MODEL	SWIVEL NUT / METER SIZE	END CONNECTION
11-3JF 33	5/8	3/4" FNPT union
11-3JM 33	5/8	3/4" MNPT union
11-3JQ 33◆	5/8	3/4" "Q" CTS comp. union*
11-3JG 33	5/8	3/4" "T" CTS comp. union*
11-3JC 33	5/8	3/4" "22" CTS comp. union*
11-3JF 43	5/8x3/4 or 3/4	3/4" FNPT union
11-3JM 43	5/8x3/4 or 3/4	3/4" MNPT union
11-3JQ 43◆	5/8x3/4 or 3/4	3/4" "Q" CTS comp. union*
11-3JG 43	5/8x3/4 or 3/4	3/4" "T" CTS comp. union*
11-3JC 43	5/8x3/4 or 3/4	3/4" "22" CTS comp union*
11-3JB 44	5/8x3/4 or 3/4	1" MNPSMT
<b>NEW</b> 11-4JF 54	1	1" FNPT union
<b>NEW</b> 11-4JM 54	1	1" MNPT union
<b>NEW</b> 11-4JB 55	1	1 1/4" MNPSMT union

Designed and tested to ANSI/ASSE 1024 and CSA B64.6 requirements.



**NEW**

111-3JE

For tapped cap with pentagon drain, replace "-" in model number with "W" IE: 111-3JE 33 = 111W3JE 33

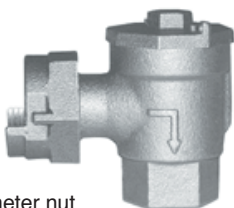
## Inlet - Meter Swivel Nut Inline Accessible

MODEL	SWIVEL NUT / METER SIZE	SIZE/OUTLET
<b>NEW</b> 111-3JE 33	5/8	3/4" FNPT
<b>NEW</b> 111-3JP 33	5/8	3/4" MNPT
<b>NEW</b> 111-3JE 43	5/8x3/4 or 3/4	3/4 FNPT

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.  
◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.  
**For ordering information and a complete listing of A.Y. McDonald Mfg. Co. Dual Check Valves, please refer to our Dual Check brochure.**  
Designed and tested to ANSI/ASSE 1024 and CSA B64.6 requirements.

# Angle Single Check Valves • 02 Series

## Top Accessible



For meter nut without saddle, change H to J in Model #.



For tapped cap with pentagon drain, replace "-" in model number with "W" IE: 02-3HE 33 = 02W3HE 33

## Inlet - Meter Swivel Nut with support lip

MODEL	SWIVEL NUT / METER SIZE	END CONNECTION
<b>NEW</b> 02-3HE 33	5/8	3/4" FNPT
<b>NEW</b> 02-3HQ 33	5/8	3/4" "Q" CTS COMP
<b>NEW</b> 02-3HT 33	5/8	3/4" "T" CTS COMP
<b>NEW</b> 02-3H2 33	5/8	3/4" "22" CTS COMP
<b>NEW</b> 02-3HE 43	5/8x3/4 or 3/4	3/4" FNPT
<b>NEW</b> 02-3HQ 43	5/8x3/4 or 3/4	3/4" "Q" CTS COMP
<b>NEW</b> 02-3HT 43	5/8x3/4 or 3/4	3/4" "T" CTS COMP
<b>NEW</b> 02-3H2 43	5/8x3/4 or 3/4	3/4" "22" CTS COMP
<b>NEW</b> 02-4HE 54	1	1" FNPT
<b>NEW</b> 02-4HQ 54	1	1" "Q" CTS COMP
<b>NEW</b> 02-4HR 54	1	1" FLARE
<b>NEW</b> 02-4HT 54	1	1" "T" CTS COMP
<b>NEW</b> 02-4H2 54	1	1" "22" CTS COMP

Angle Dual Cartridge Check Valves • 12 Series

Top Accessible



Inlet - Meter Swivel Nut with support lip

MODEL	SWIVEL NUT / METER SIZE	END CONNECTION
12-3HE 33	5/8	3/4" FNPT
12-3HE 43	5/8x3/4 or 3/4	3/4" FNPT
▶ 12-3HE 54	1	1" FNPT
12-4HE 54	1	1" FNPT
12-3HR 33	5/8	3/4" copper flare
12-3HR 43	5/8x3/4 or 3/4	3/4" copper flare
▶ 12-3HR 54	1	1" copper flare
12-4HR 54	1	1" copper flare
12-3HT 33	5/8	3/4" "T" CTS compression*
12-3HT 43	5/8x3/4 or 3/4	3/4" "T" CTS compression*
▶ 12-3HT 54	1	1" "T" CTS compression*
12-4HT 54	1	1" "T" CTS compression*
12-4HQ 54◆	1	1" "Q" CTS compression*
12-3H2 33	5/8	3/4" "22" CTS compression*
12-3H2 43	5/8x3/4 or 3/4	3/4" "22" CTS compression*
▶ 12-3H2 54	1	1" "22" CTS compression*
12-4H2 54	1	1" "22" CTS compression*

- \*Insert stiffeners are **required** on all flexible plastic connections, see page 6.
- ◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.
- ▶ Reduced port.
- For meter swivel nut **without support lip**, change the "H" in the model number to "J."

For tapped cap with pentagon drain, replace "-" in model number with "W"

Designed and tested to ANSI/ASSE 1024 and CSA B64.6 requirements.

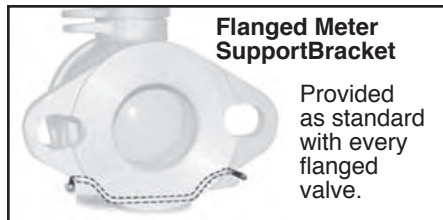
Flanged Angle Dual Check Valves

Top Accessible



Inlet - Meter flange

MODEL	METER FLANGE	END CONNECTION
12-7DE 66	1 1/2	1 1/2" FNPT threads
12-7DE 77	2	2" FNPT threads



Flanged Meter Support Bracket

Provided as standard with every flanged valve.



Optional cap with 1", 1 1/2" or 2" FNPT tap

For FNPT tapped cap for inline testing, change "-" in model number as indicated.

**C** for 1"  
**F** for 1 1/2"  
**G** for 2"

IE: 12-7DE 77 = 12G7DE 77

Designed and tested to ANSI/ASSE 1024 and CSA B64.6 requirements.

■ 1 1/2" & 2" Oval Meter Flanges



	MODEL / SIZE	END CONNECTION	OVAL METER FLANGE
	610F 1 1/2"	1 1/2" FNPT	1 1/2"
<b>NEW</b>	610F 1 1/2" X .81	1 1/2" FNPT	1 1/2"
	610F 2"	2" FNPT	2"
<b>NEW</b>	610FD 2"	2" FNPT Dual drilled bolt holes	1 1/2" or 2"
<b>NEW</b>	610FN 1 1/2"	1 1/2" FNPT	1 1/2"
<b>NEW</b>	610FN 2"	2" FNPT Bulk packed 10 per less gaskets	2"
<b>NEW</b>	610FKIT 1 1/2"	1 1/2" FNPT Complete Kit	1 1/2"
<b>NEW</b>	610FKIT 2"	2" FNPT Complete Kit	2"
	610M 1 1/2"	1 1/2" MNPT	1 1/2"
	610M 2"x 2 1/8"	1 1/2" MNPT x 2 1/8 Long	2"
	610M 2"x 1 15/16"	2" MNPT x 1 15/16 Long	2"
<b>NEW</b>	610MD 2" x 2 1/8"	2" MNPT x 2 1/8 Long	1 1/2" or 2"
<b>NEW</b>	610MD 2" x 1 15/16"	2" MNPT x 1 15/16 Long Dual Drilled Bolt Hole	1 1/2" or 2"
<b>NEW</b>	610A-55 1 1/2"	1 1/2" Adjustable MNPT	1 1/2"
<b>NEW</b>	610A-55 2"	2" Adjustable MNPT	2"
	610S 1 1/2"	1 1/2" Sweat Connection	1 1/2"
	610S 2"	2" Sweat Connection	2"
<b>NEW</b>	610SD 2"	2" Sweat Connection Dual drilled bolt holes	1 1/2" or 2"
<b>NEW</b>	610Q 1 1/2"	1 1/2" "Q" CTS comp	1 1/2"
<b>NEW</b>	610Q 2"	2" "Q" CTS comp	2"
<b>NEW</b>	610T 1 1/2"	1 1/2" "T" CTS comp	1 1/2"
<b>NEW</b>	610T 2"	2" "T" CTS comp	2"
<b>NEW</b>	610-22 1 1/2"	1 1/2" "22" CTS comp	1 1/2"
<b>NEW</b>	610-22 2"	2" "22" CTS comp	2"
<b>NEW</b>	610-44 1 1/2"	1 1/2" "44" PVC comp	1 1/2"
<b>NEW</b>	610-44 2"	2" "44" PVC comp	2"
<b>NEW</b>	610-55 1 1/2"	1 1/2" "55" IP comp	1 1/2"
<b>NEW</b>	610-55 1 1/2" X .81	1 1/2" "55" IP comp	1 1/2"
<b>NEW</b>	610-55 2"	2" "55" IP comp	2"
	611-44 2"	2" "44" PVC compression	2" MNPT w/gasket
	611-55 2"	2" "55" IP compression	2" MNPT w/gasket

- All 610 models 2" drilled for 2" meter only, and are tapped per ANSI B1.20.1.
- Drop in gasket included with Model 610 except where noted.
- Support bracket not included.
- x .81 diameter equals diameter of bolt holes, standard hole size on 1 1/2" flange is .72 diameter.

## Accessories

### Ball Valve Handles

**6120**  
**Stainless Steel Handle**  
 For all McDonald Ball Valves  
 Order by valve size:  
 5/8", 3/4" & 1", 1 1/2" & 2"

**6120D**  
**Stainless Steel Handle**  
 Same as above, except with hole drilled in handle.

**6120B**  
**Brass Ball Valve Handle**  
 For all McDonald Ball Valves  
 Order by valve size: 5/8", 3/4" & 1"

**6120BS**  
**Brass Ball Valve Handle**  
 For all McDonald Ball Valves  
 Order by valve size: 1 1/2" & 2"

**6120BRW**  
**Brass Ball Valve Handle**  
 Reclaimed water  
 Order by valve size: 3/4" & 1"

**NEW**  
**6120BSRW**  
**Brass Ball Valve Handle**  
 Reclaimed water  
 Order by valve size: 1 1/2" & 2"

**FH**  
**Fixed Handle**  
 To order add "FH" to model number  
**Example: 6101MFH** (shown above)  
 Must be assembled by factory  
 Available on all 3/4", 1", 1 1/2" and 2" non-lockwing ball valves

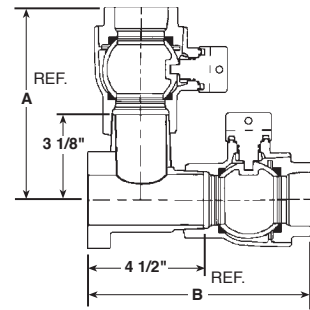
**NEW**  
**6121 1 1/2" & 2"**  
**Flanged Meter Support Bracket**

### Meter Test Tee Test 1 1/2" and 2" meters while in line

- For new installations or for retrofitting existing installations
- Completely assembled



MODEL	DESCRIPTION	FLANGE SIZE	METER SIZE
20-HT 1 1/2	Tee with two 6101 ball valves	1 1/2"	1 1/2"
20-HT 2	Tee with two 6101 ball valves	2"	2"



- Valves available with or without lockwings.
- 6120 or 6120B handles are optional-see above.
- Other end connections available, contact factory.

SIZE	A	B
1 1/2	7 5/16"	8 5/8"
2"	7 13/16"	9 1/16"

### Gaskets



Model No.	18-G1	18-G1F	18-G1L	18-G2	18-G2F	18-G2L
<b>Meteral Type</b>	Rubber	Fiber	Waxed Leather	Rubber	Fiber	Waxed Leather
<b>Meter Size</b>	5/8	5/8	5/8	5/8x3/4 or 3/4	5/8x3/4 or 3/4	5/8x3/4 or 3/4
<b>Thickness</b>	1/8"	1/16"	1/8"	1/8"	1/16"	1/8"

Model No.	18-G4	18-G4F	18-G4L
<b>Meteral Type</b>	Rubber	Fiber	Waxed Leather
<b>Meter Size</b>	1	1	1
<b>Thickness</b>	1/8"	1/16"	1/8"



#### Drop In Gasket

Model No.	18-G6	18-G7
<b>Description</b>	Flange Rubber	Flange Rubber
<b>Meter Size</b>	1 1/2	2
<b>Thickness</b>	1/8"	1/8"

#### Round Rubber Gasket



Model No.	4620G 1 1/2"	4620G 2"
<b>Description</b>	Round Rubber	Round Rubber
<b>Meter Size</b>	1 1/2	2
<b>Thickness</b>	1/8"	1/8"



#### Nut & Bolt Assy

**6121NB 1 1/2 & 2**  
 Contains 2 each 5/8"-11-2 1/2 zinc plated bolts and 2 ea 5/8-11 zinc plated nuts.

## Accessories

### Meter Bushings - Changes thread size only



**10J12** - Converts 5/8" meter to 5/8" x 3/4" meter  
2 pieces required per meter



**10J45** - Converts 1" meter to 1 1/4" meter  
2 pieces required per meter

### Meter Adapters - Changes thread size and laying length



**10J13** - Converts 5/8" meter to 3/4" meter  
2 pieces required per meter  
(3/4 male meter thread x 5/8 female meter thread)



**10J14** - Converts 5/8" meter to 1" meter  
2 pieces required per meter  
(1 male meter thread x 5/8 female meter thread)



**10J23** - Converts 5/8" x 3/4" meter to 3/4" meter  
1 piece required per meter  
(3/4 male meter thread x 3/4 female meter thread)



**10J24** - Converts 5/8" x 3/4" meter to 1" meter  
2 pieces required per meter  
(1" male meter thread x 5/8x3/4 female meter thread)



**10J34** - Converts 3/4" meter to 1" meter  
2 pieces required per meter  
(1" male meter thread x 3/4 female meter thread)



**10J46** - Converts 1" meter to 1 1/2" flanged meter size and length  
2 pieces required per meter



**10J47** - Converts 1" meter to 2" flanged meter size and length  
2 pieces required per meter



**10J67** - Converts 1 1/2" flanged meter to 2" flanged meter size and length  
2 pieces required per meter



**10J67DH** - Converts 2" flanged meter with 15 1/4" lay length to standard 17" lay length meter 1.875 wide (Bolts & nuts Sold Separately). 1 piece required.

**NEW**

### Flanged 1/4 Bends



4783FT



4783FF

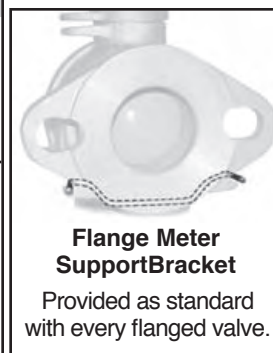


4783F-22



4783F

MODEL	OUTLET SIZE/STYLE	FLANGE SIZE	METER SIZE
4783FT 1 1/2	1 1/2" Tube Comp.*	1 1/2"	1 1/2
4783F-22 1 1/2	1 1/2" Tube Comp.*	1 1/2"	1 1/2
4783FF 1 1/2	1 1/2" FNPT	1 1/2"	1 1/2
4783FQ 1 1/2	1 1/2" Tube Comp.*	1 1/2"	1 1/2
4783F 2	2" Flare	1 1/2" or 2"	1 1/2 or 2
4783FT 2	2" Tube Comp.*	1 1/2" or 2"	1 1/2 or 2
4783F-22 2	2" Tube Comp.*	1 1/2" or 2"	1 1/2 or 2
4783F-44 2	2" PVC Comp.	1 1/2" or 2"	1 1/2 or 2
4783FF 2	2" FNPT	1 1/2" or 2"	1 1/2 or 2
4783FQ 2	2" Tube Comp.*	1 1/2" or 2"	1 1/2 or 2



**Flange Meter Support Bracket**

Provided as standard with every flanged valve.

- \* Insert stiffeners are **required** on all flexible plastic connections, see page 6.
- Stainless steel meter support brackets furnished with all flanged valves.
- 2" flange has slotted holes to accommodate 1 1/2 meters.
- Rubber "drop in" gaskets are furnished with flanged valves.
- Meter flanges are faced and drilled per AWWA C700 (oval flange).

## Straight Valves • Ball Style 300 PSI

For 5/8, 5/8 x 3/4, 3/4, or 1 Meters  
(For Straight Valves for  
1 1/2 or 2 meters, see page 20)

ORDER METER VALVES BY  
MODEL NUMBER AND VALVE SIZE



**6101M** Flathead  
**6101MW** Lockwing



**6107MW** Lockwing



**6100M** Flathead  
**6100MW** Lockwing

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	FNPT x SWIVEL NUT		MNPT x METER SWIVEL NUT		FLARE x SWIVEL NUT	
				Flathead	Lockwing	Lockwing	Lockwing	Flathead	Lockwing
1/2" x 5/8" x 5/8"	1/2"	5/8"	5/8		●				
3/4" x 5/8" x 5/8"	3/4"	5/8"	5/8	●	●	NEW ●		●	
3/4 x 3/4" x 5/8"	3/4"	3/4"	5/8		● NEW				● NEW
1 x 3/4" x 5/8"	1"	3/4"	5/8		● NEW				● NEW
3/4" x 5/8" x 3/4"	3/4"	5/8"	5/8x3/4 or 3/4	●	●	NEW ●		●	●
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●			●	●
1 x 3/4" x 3/4"	1"	3/4"	5/8x3/4 or 3/4	●	●			●	●
1 x 3/4" x 1"	1"	3/4"	1	●	●			●	●
1"	1"	1"	1	●	●			●	●
1 1/4" x 1" x 1"	1 1/4"	1"	1		● NEW			●	



**6100MT** Flathead  
**6100MWT** Lockwing



**6100MQ** Flathead  
**6100MWQ** Lockwing



**6100M-22** Flathead  
**6100MW-22** Lockwing

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	T CTS Comp x SWIVEL NUT		Q CTS Comp x SWIVEL NUT		22 CTS Comp x SWIVEL NUT	
				Flathead	Lockwing	Lockwing	Lockwing	Flathead	Lockwing
3/4" x 5/8" x 5/8"	3/4"	5/8"	5/8	●	●		● NEW	●	●
3/4 x 3/4" x 5/8"	3/4"	3/4"	5/8		● NEW		● NEW		● NEW
1 x 3/4" x 5/8"	1"	3/4"	5/8		● NEW		● NEW		● NEW
3/4" x 5/8" x 3/4"	3/4"	5/8"	5/8x3/4 or 3/4	●	●	NEW ●	●	●	●
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●		●	●	●
1 x 3/4" x 3/4"	1"	3/4"	5/8x3/4 or 3/4	●	●	NEW ●	●	●	●
1 x 3/4" x 1"	1"	3/4"	1	●	●	NEW ●	●	●	●
1"	1"	1"	1	●	●		●	●	●
1 1/4" x 1" x 1"	1 1/4"	1"	1	●	●		●	●	●



**6100M-3Q** Flathead  
**6100MW-3Q** Lockwing



**6100M-33** Flathead  
**6100MW-33** Lockwing

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	3Q PEP Comp x SWIVEL NUT		33 PEP Comp x SWIVEL NUT	
				Flathead	Lockwing	Flathead	Lockwing
3/4 x 3/4" x 5/8"	3/4"	3/4"	5/8				● NEW
3/4" x 5/8" x 3/4"	3/4"	5/8"	5/8x3/4 or 3/4		●		●
3/4"	3/4"	3/4"	5/8x3/4 or 3/4		●	●	●
1"	1"	1"	1	●		●	● NEW

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.

- To lock valves in open or closed position, add "WW" to end of model number i.e., (4604B = 4604WWB)
- Less check ball valves available (360° turn). Contact factory.
- For special lengths, Contact factory.
- EPDM rubber washers are supplied standard. Leather gaskets sold separately.
- Meter nuts less saddle standard on all but FNPT connection valves. To order swivel nuts with saddle, contact factory.
- Swivel nuts have internal straight threads per AWWA C700 and come standard with a wire seal hole.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.
- 6120 or 6120B handles are optional-see page 16.

**■ Straight Valves • Ball Style 300 PSI**

For 5/8, 5/8 x 3/4, 3/4, or 1 Meters  
 (For Straight Valves for  
 1 1/2 or 2 meters, see page 20)

ORDER METER VALVES BY  
 MODEL NUMBER AND VALVE SIZE



**6100M-44** Flathead  
**6100MW-44** Lockwing



**6100M-55** Flathead  
**6100MW-55** Lockwing

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	44 PVC Comp x SWIVEL NUT		55 IP Comp x SWIVEL NUT	
				Flathead	Lockwing	Flathead	Lockwing
3/4 x 3/4" x 5/8"	3/4"	3/4"	5/8		● <b>NEW</b>		● <b>NEW</b>
3/4" x 5/8" x 3/4"	3/4"	5/8"	5/8x3/4 or 3/4		●		●
3/4"	3/4"	3/4"	5/8x3/4 or 3/4	●	●	●	●
1"	1"	1"	1	●		●	

**NEW**



**6104M**



**6104MT**



**6104MQ**



**6104M-22**

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	FLARE x METER SWIVEL NUT Flathead	T CTS Comp x METER SWIVEL NUT Flathead	Q CTS Comp x METER SWIVEL NUT Flathead	22 CTS Comp x METER SWIVEL NUT Flathead
1 1/4 x 1" x 1"	1 1/4"	1"	1	●	●	●	●

**NEW**



**6104M-33**



**6104M-44**



**6104M-55**

Valve Size	END CONNECTION	BALL SIZE	SWIVEL NUT / METER SIZE	33 CTS Comp x METER SWIVEL NUT Flathead	44 PVC Comp x METER SWIVEL NUT Flathead	55 IP Comp x METER SWIVEL NUT Flathead
1"	1"	1"	1	●	●	●

•Other end connections and sizes available, contact factory.

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

◆ For **C903 connection**, replace "Q" in model number with "K". 3/4" and 1" only.

- To lock valves in open or closed position, add "WW" to end of model number i.e., (4604B = 4604WWB)
- Less check ball valves available (360° turn). Contact factory.
- For special lengths, Contact factory.
- EPDM rubber washers are supplied standard. Leather gaskets sold separately.
- Meter nuts less saddle standard on all but FNPT connection valves. To order swivel nuts with saddle, contact factory.
- Swivel nuts have internal straight threads per AWWA C700 and come standard with a wire seal hole.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.
- 6120 or 6120B handles are optional-see page 16.

# Meter Valves

## Oval Flanged Valves • Ball Style 300 PSI • Lockwing

### Angle

For 1 1/2 or 2 Meters

ORDER METER VALVES BY MODEL NUMBER AND VALVE SIZE



**MODEL NUMBER**  
4604B



4602B



4602BT



4602BQ

Valve Size	END CONN.	BALL	OVAL FLANGE	FNPT x FLANGE	FLARE x FLANGE	T CTS Comp* x FLANGE	Q CTS Comp* x FLANGE
1 1/2"	1 1/2"	1 1/2"	1 1/2"	●	●	●	●
2"	2"	2"	1 1/2" or 2"	●	●	●	●



**Flange Meter Support Bracket**  
Provided as standard with every flanged valve.



**MODEL NUMBER**  
4602B-22



4602B-44



**NEW**

4602B-55

Valve Size	END CONN.	BALL	OVAL FLANGE	22 CTS Comp* x FLANGE	44 PVC Comp* x FLANGE	55 IPS Comp x FLANGE
1 1/2"	1 1/2"	1 1/2"	1 1/2"	●	●	●
2"	2"	2"	1 1/2" or 2"	●	●	●

### Straight



**MODEL NUMBER**  
6101M Flathead  
6101MW Lockwing



6107MW Lockwing



6100M Flathead  
6100MW Lockwing

Valve Size	END CONNECTION	BALL	OVAL FLANGE	FNPT x FLANGE		MNPT x FLANGE		FLARE x FLANGE	
				Flathead	Lockwing	Flathead	Lockwing	Flathead	Lockwing
1 1/2"	1 1/2"	1 1/2"	1 1/2"	●	●	●	●	●	●
2"	2"	2"	1 1/2" or 2"	●	●	●	●	●	●



**MODEL NUMBER**  
6100MT Flathead  
6100MWT Lockwing



6100MQ Flathead  
6100MQW Lockwing



6100M-22 Flathead  
6100MW-22 Lockwing

Valve Size	END CONNECTION	BALL	OVAL FLANGE	T CTS Comp* x FLANGE		Q CTS Comp* x FLANGE		22 CTS Comp x FLANGE	
				Flathead	Lockwing	Flathead	Lockwing	Flathead	Lockwing
1 1/2"	1 1/2"	1 1/2"	1 1/2"	●	●	●	●	●	●
2"	2"	2"	1 1/2" or 2"	●	●	●	●	●	●



**MODEL NUMBER**  
6100M-33 Flathead  
6100MW-33 Lockwing



6100M-44 Flathead  
6100MW-44 Lockwing



6100M-55 Lockwing

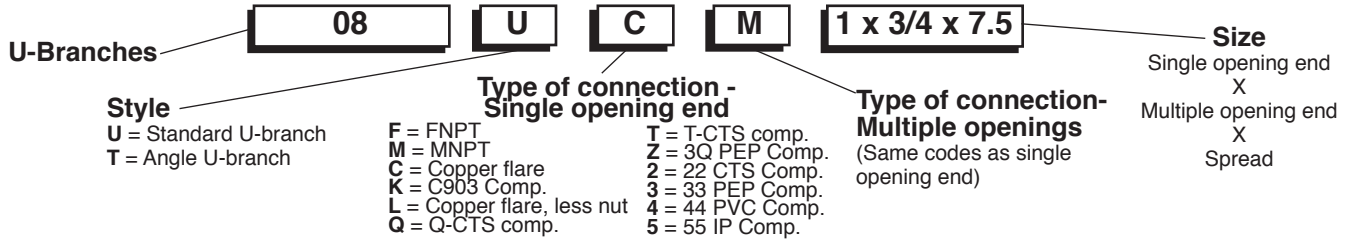
Valve Size	END CONNECTION	BALL	OVAL FLANGE	33 PEP Comp x FLANGE		44 PVC Comp x FLANGE		55 IP Comp x FLANGE	
				Flathead	Lockwing	Flathead	Lockwing	Flathead	Lockwing
1 1/2"	1 1/2"	1 1/2"	1 1/2"	●	●	●	●	●	●
2"	2"	2"	1 1/2" or 2"	●	●	●	●	●	●

- \* Insert stiffeners are **required** on all flexible plastic connections, see page 6.
- 2" Flange has slotted holes to accommodate 1 1/2 or 2 meters.
- Stainless steel meter support brackets are furnished with all flanged valves.
- Less check ball valves available (360° turn). Contact factory.
- EPDM Rubber "drop in" gaskets are furnished with flanged valves.
- For special lengths, contact factory.

- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped) or **RWT** (tagged). Contact factory.
- 6120 or 6120B handles are optional-see page 16.
- Meter flanges are faced and drilled per AWWA C700 (oval flange).

# U-Branches and U-Branch Assemblies

To order U-Branches: Model No. 08UCM 1 x 3/4 x 7.5 means:



## Standard U-Branches



08UCM



08UFM



08UTM



08U2M

	MODEL	INLET	OUTLETS	SPREAD
<b>NEW</b>	08UFF 1 x 1 x 18	1" FNPT	1" FNPT	18"
	08UFM 1 x 3/4 x 6.5	1" FNPT	3/4" MNPT	6 1/2"
	08UFM 1 x 3/4 x 7.5	1" FNPT	3/4" MNPT	7 1/2"
	08UFM 1 x 3/4 x 14	1" FNPT	3/4" MNPT	14"
	08UFM 1 x 1 x 7.5	1" FNPT	1" MNPT	7 1/2"
	08UFM 1 x 1 x 14	1" FNPT	1" MNPT	14"
<b>NEW</b>	08UFM 1 x 1 x 18	1" FNPT	1" MNPT	18"
	08UMM 1 x 3/4 x 7.5	1" MNPT	3/4" MNPT	7 1/2"
	08UMM 1 x 3/4 x 14	1" MNPT	3/4" MNPT	14"
	08UMM 1 x 1 x 7.5"	1" MNPT	1" MNPT	7 1/2"
<b>NEW</b>	08UMM 1 x 1 x 18	1" MNPT	1" MNPT	18"
	08UMM↔ 1 1/2 x 1 x 12	1 1/2" MNPT	1" MNPT	12"
	08UCM 1 x 3/4 x 6.5	1" Flare	3/4" MNPT	6 1/2"
	08UCM 1 x 3/4 x 7.5	1" Flare	3/4" MNPT	7 1/2"
	08UCM 1 x 3/4 x 14	1" Flare	3/4" MNPT	14"
	08UCM 1 x 1 x 7.5	1" Flare	1" MNPT	7 1/2"
<b>NEW</b>	08UCM 1 x 1 x 18	1" Flare	1" MNPT	18"
	08UTM 1 x 3/4 x 6.5	1" T CTS Comp.*	3/4" MNPT	6 1/2"
	08UTM 1 x 3/4 x 7.5	1" T CTS Comp.*	3/4" MNPT	7 1/2"
	08UTM 1 x 3/4 x 14	1" T CTS Comp.*	3/4" MNPT	14"
	08UTM 1 x 1 x 7.5	1" T CTS Comp.*	1" MNPT	7 1/2"
	08UTM 1 x 1 x 18	1" T CTS Comp.*	1" MNPT	18"
<b>NEW</b>	08UTM 1 1/2 x 3/4 x 7.5	1 1/2" T CTS Comp.*	3/4" MNPT	7 1/2"
	08UTM↔ 1 1/2 x 1 x 9	1 1/2" T CTS Comp.*	1" MNPT	9"
	08UQM 1 x 3/4 x 7.5	1" Q CTS Comp.*	3/4" MNPT	7 1/2"
	08UQM 1 x 3/4 x 14	1" Q CTS Comp.*	3/4" MNPT	14"
	08UQM 1 x 1 x 7.5	1" Q CTS Comp.*	1" MNPT	7 1/2"
	08UQM 1 x 1 x 18	1" Q CTS Comp.*	1" MNPT	18"
<b>NEW</b>	08UQM 1 1/2 x 3/4 x 7.5	1 1/2" Q CTS Comp.*	3/4" MNPT	7 1/2"
	08U2M 1 x 3/4 x 6.5	1" 22 CTS Comp.*	3/4" MNPT	6 1/2"
	08U2M 1 x 3/4 x 7.5	1" 22 CTS Comp.*	3/4" MNPT	7 1/2"
	08U2M 1 x 3/4 x 14	1" 22 CTS Comp.*	3/4" MNPT	14"
	08U2M 1 x 1 x 7.5	1" 22 CTS Comp.*	1" MNPT	7 1/2"
	08U2M 1 x 1 x 18	1" 22 CTS Comp.*	1" MNPT	18"
<b>NEW</b>	08U2M 1 1/2 x 3/4 x 7.5	1 1/2" 22 CTS Comp.*	3/4" MNPT	7 1/2"
	08U2M↔ 1 1/2 x 1 x 9	1 1/2" 22 CTS Comp.*	1" MNPT	9"
<b>NEW</b>	08UZM 1 x 3/4 x 7.5	1" 3Q PEP Comp.	3/4" MNPT	7 1/2"
	08U3M 1 x 3/4 x 7.5	1" 33 PEP Comp.*	3/4" MNPT	7 1/2"
	08U4M 1 x 3/4 x 7.5	1" -44 PVC Comp.	3/4" MNPT	7 1/2"
<b>NEW</b>	08U4M 1 1/2 x 3/4 x 7.5	1" -44 PVC Comp.	3/4" MNPT	7 1/2"
	08U5M 1 x 3/4 x 7.5	1" -55 IP Comp.	3/4" MNPT	7 1/2"
<b>NEW</b>	08U5M 1 1/2 x 3/4 x 7.5	1" -55 IP Comp.	3/4" MNPT	7 1/2"

## Angle U-Branches

Inlet 90° Angle to Outlet



08TTM

	MODEL	INLET	OUTLETS	SPREAD
	08TCM 1 x 3/4 x 6.5	1" Flare	3/4" MNPT	6 1/2"
	08TFM 1 x 3/4 x 6.5	1" FNPT	3/4" MNPT	6 1/2"
	08TTM 1 x 3/4 x 6.5	1" T CTS Comp.*	3/4" MNPT	6 1/2"
	08T2M 1 x 3/4 x 6.5	1" 22 CTS Comp.*	3/4" MNPT	6 1/2"
	08TMM↔ 1 1/2 x 1 x 12	1 1/2" MNPT	1" MNPT	12"

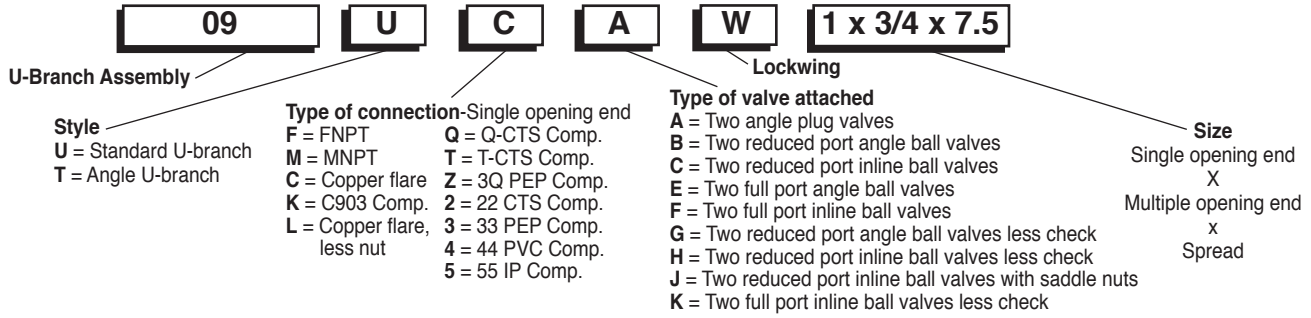
↔ Assembled with copper tube.

\*Insert stiffeners are **required** on all flexible plastic connections, see page 6.

## U-Branches and U-Branch Assemblies

### U-Branch Assemblies with Valves

■ To order U-Branch Assemblies: Model No. 09UCAW 1 x 3/4 x 7.5 means:



MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
<b>09T2AW</b>	1" x 3/4 x 6.5	1" 22 CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09TFBW</b>	1" x 3/4 x 6.5	1" FNPT	4644B 3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09TFEW</b>	1" x 3/4 x 6.5	1" FNPT	4604B 3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09TTEW</b>	1" x 3/4 x 6.5	1" T CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09T2BW</b>	1" x 3/4 x 6.5	1" 22 CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4 6 1/2"



MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
<b>09UFF</b>	1" x 3/4 x 7.5	1" FNPT	6101M 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UFAW</b>	1" x 3/4 x 7.5	1" FNPT	4604 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UFAW</b>	1" x 3/4 x 14	1" FNPT	4604 3/4"	5/8x3/4 or 3/4 14"
<b>09UFBW</b>	1" x 3/4 x 7.5	1" FNPT	4644B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UFCW</b>	1" x 3/4 x 6.5	1" FNPT	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09UFFW</b>	1" x 3/4 x 7.5	1" FNPT	6101MW 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UFJW</b>	1" x 3/4 x 6.5	1" FNPT	6101MWS 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 6 1/2"



MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
<b>09UMGW</b>	1" x 3/4 x 7.5	1" MNPT	4654B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UCAW</b>	1" x 3/4 x 7.5	1" Flare	4604 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UCBW</b>	1" x 5/8 x 7.5	1" Flare	4644B 5/8"	5/8 7 1/2"
<b>09UCBW</b>	1" x 3/4 x 7.5	1" Flare	4644B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UCEW</b>	1" x 3/4 x 7.5	1" Flare	4604B 3/4"	5/8x3/4 or 3/4 7 1/2"



MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
<b>09UTAW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTBW</b>	1" x 3/4 x 6.5	1" T CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09UTBW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTBW</b>	1 1/2 x 3/4 x 7.5	1 1/2" T CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTCW</b>	1" x 3/4 x 6.5	1" T CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 6 1/2"
<b>09UTCW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTEW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTGW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	4654B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UTHW</b>	1" x 3/4 x 7.5	1" T CTS Comp.*	6111MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 7 1/2"

Many other combinations available - contact factory

MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
<b>09UQAW</b>	1" x 3/4 x 7.5	1" Q CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UQCW</b>	1" x 3/4 x 7.5	1" Q CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UQEW</b>	1" x 3/4 x 7.5	1" Q CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4 7 1/2"
<b>09UQFW</b>	1" x 3/4 x 7.5	1" Q CTS Comp.*	6101MW 3/4"	5/8x3/4 or 3/4 7 1/2"

See page 23 for more U-Branch Assemblies

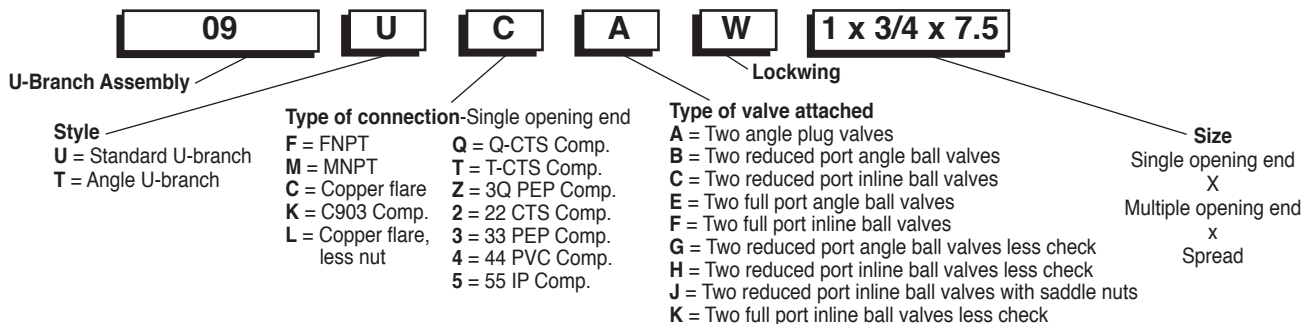
\*Insert stiffeners are required on all flexible plastic connections, see page 6.

- For assemblies with yoke valves, see Iron Yoke catalog section. Example: 09UFCW 1x02x7.5
- For assembled handles, contact factory.
- For reclaimed water, at end of Model Number add RWP (pin stamped). Contact factory.

# U-Branches and U-Branch Assemblies

## U-Branch Assemblies with Valves

To order U-Branch Assemblies: Model No. 09UCAW 1 x 3/4 x 7.5 means:



MODEL	INLET	VALVE OUTLETS	SWIVEL NUT / METER SIZE	SPREAD
09U2AW 1 x 3/4 x 6.5	1" -22 CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4	6 1/2"
09U2AW 1 x 3/4 x 7.5	1" -22 CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2AW 1 x 3/4 x 14	1" -22 CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4	14"
09U2AW 1 1/2 x 3/4 x 7.5	1 1/2" -22 CTS Comp.*	4604 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2BW 1 x 5/8 x 7.5	1" -22 CTS Comp.*	4644B 5/8"	5/8	7 1/2"
09U2BW 1 x 3/4 x 6.5	1" -22 CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4	6 1/2"
09U2BW 1 x 3/4 x 7.5	1" -22 CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2BW 1 1/2 x 3/4 x 7.5	1 1/2" -22 CTS Comp.*	4644B 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2C 1 x 3/4 x 6.5	1" -22 CTS Comp.*	6101M 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	6 1/2"
09U2CW 1 x 3/4 x 7.5	1" -22 CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	7 1/2"
09U2CW 1 x 3/4 x 6.5	1" -22 CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	6 1/2"
09U2CW 1 1/2 x 3/4 x 7.5	1 1/2" -22 CTS Comp.*	6101MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	7 1/2"
09U2CWF 1 x 3/4 x 7.5	1" -22 CTS Comp.*	6101W 3/4"x5/8"x3/4"	3/4 FNPT	7 1/2"
09U2EW 1x 3/4 x 7.5	1" -22 CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2EW 1x 3/4 x 14	1" -22 CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4	14"
09U2EW 1 1/2 x 3/4 x 7.5	1" -22 CTS Comp.*	4604B 3/4"	5/8x3/4 or 3/4	7 1/2"
09U2FWF 1 x 3/4 x 7.5	1" -22 CTS Comp.	6101W 3/4"	3/4 FNPT	7 1/2"
09U2GW 1 x 5/8 x 6.5	1" -22 CTS Comp.*	4654B 5/8"	5/8	6 1/2"
09U2HW 1 x 3/4 x 7.5	1" -22 CTS Comp.*	6111MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	7 1/2"
09U2HW 1 x 3/4 x 6.5	1" -22 CTS Comp.*	6111MW 3/4"x5/8"x3/4"	5/8x3/4 or 3/4	6 1/2"
09UZAW 1 x 3/4 x 7.5	1" 3Q PEP Comp.*	4604 3/4"	5/8x3/4 or 3/4	7 1/2"
09U3AW 1 x 3/4 x 7.5	1" 33 PEP Comp.*	4604 3/4"	5/8x3/4 or 3/4	7 1/2"
09U3BW 1 x 3/4 x 7.5	1" 33 PEP Comp.*	4644B 3/4"	5/8x3/4 or 3/4	7 1/2"
09U4EW 1 x 3/4 x 7.5	1" -44 PVC Comp.*	4604B 3/4"	5/8x3/4 or 3/4	7 1/2"

Many other combinations available - contact factory

- \*Insert stiffeners are **required** on all flexible plastic connections, see page 6.
- For assemblies with **yoke valves**, see **Iron Yoke** catalog section. Example: **09UFCW 1x02x7.5**
- For assembled handles, contact factory.
- For **reclaimed water**, at end of Model Number add **RWP** (pin stamped), or **RWT** (tag). Contact factory.