Effective Date: <u>01-01-2025</u> **Section G: Brass Service Materials** Inline Valves <u>G 1</u> G 2 Straight Couplings Meter Setters (5/8" X 3/4" Meter) <u>G 3</u> G 3.1 Meter Setters (1" Meter) G 3.2 Meter Setters (1 1/2"& 2" Meter) Dual Service U-Branch (5/8" X 3/4" Meter) G 4 <u>G 5</u> **Compound Meters** <u>G 6</u> High Resolution Encoder **G** 7 Migratable Endpoint G 8 Corporation Stops



G 1 - INLINE VALVES:

Effective Date: <u>01-01-2025</u>

SPECIFICATION/ MATERIAL:

Compression type brass fittings & accessories with external gripping devices shall meet or exceed the performance specifications of:

- Manufactured in compliance with ANSI/AWWA C800 (latest revision).
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL".
- Connection stop shall have compression nut and gasket service line connections.
- Size of corporation stop shall match that of service line
- Stainless steel insert stiffeners



• 316 Stainless Steel

Gasket:

EPDM

Connections:

• CTS x FIP



MANUFACTURER:

- McDonald: 76102 22 (5/8", 3/4", 1", 1.5", 2")
- Ford: B41-343-NL (3/4")
- Ford: B-41-444-NL (1")
- Ford: B41-777-NL (1.5")
- Ford: B41-777-NL (2")



G 2 - STRAIGHT COUPLINGS:

Effective Date: 01-01-2025

SPECIFICATION/ MATERIAL:

Meter couplings shall meet or exceed the performance specifications of:

- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL".
- Manufactured in compliance with ANSI/AWWA C800 (latest revision).
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Stainless steel insert stiffeners.

Set Screw:

• 316 Stainless Steel

Gasket:

• EPDM

Connections:

• CTS x MIP



MANUFACTURER:

- McDonald: 74753-22 (3/4" X 1") and (1" X 1")
- Ford: C-84-34-NL (3/4" X 1")
- McDonald: 74753-44 (2")
- Ford: C-84-77-NL (2")
- Ford: C-84-44-NL (1" X 1")



G 3 - METER SETTERS (5/8" X 3/4" METER):

Effective Date: 01-01-2025

SPECIFICATION:

Meter setters shall meet or exceed the performance specifications of:

- Castings shall be made of ASTM Standards 862 (85-5-5-5) brass.
- Applicable parts of AWWA C800.

MATERIAL:

Body:

ASTM Standards B-62 Brass.

Riser:

Copper.

Seal & O-rings:

· EPDM rubber.

Trim:

Brass.

Solder:

· Lead-free.

DESIGN:

- Ball type curb stop valve design.
- · Valve shall have padlock wings.
- Shall have swivel meter saddle nut connections for 5/8" X 3/4" water meters

CONNECTIONS:

- Both top inlet and outlet sides shall be metersaddle
 nut
- Single Service: DIP Swivel Inlet and Outlet
- Dual Service: DIP Swivel Inlet and Outlet

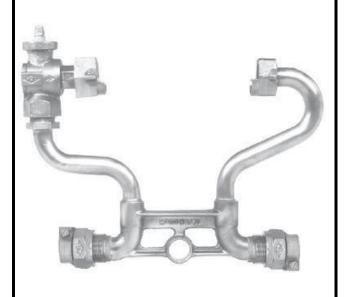
SIZES:

- Meter size: Five-eighths X three-quarter inch (5/8" x 3/4").
- Setter height: Seven inch (7").

INCLUDED AND DELIVERED WITH SETTERS:

• Two (1/8") thick EPDM rubber meter gaskets.





MANUFACTURER:

Single Meter:

McDonald: 720-207WWDD 33Ford: VBB72-7W-11-33-NL

Dual Meter:

McDonald: 720-207WWDD 33Ford: VBB72-7W-11-33-NL



G 3.1 - METER SETTERS (1" METER):

Effective Date: 01-01-2025

SPECIFICATION:

Meter setters shall meet or exceed the performance specifications of:

- Castings shall be made of ASTM Standards 862 (85-5-5-5) brass.
- Applicable parts of AWWA C800.

MATERIAL:

Body:

ASTM Standards B-62 Brass.

Riser:

Copper.

Seal & O-rings:

• EPDM rubber.

Trim:

Brass.

Solder:

· Lead-free.

DESIGN:

- Ball type curb stop valve design.
- Valve shall have padlock wings.
- Shall have swivel meter saddle nut connections for 1" water meters.

CONNECTIONS:

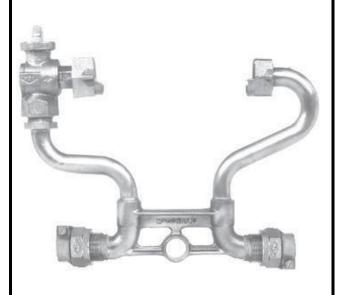
- Both bottom inlet and outlet sides shall be 1" DP swivel.
- Both top inlet and outlet sides shall be meter saddle nut.

SIZES:

- Meter size: One inch (1").
- Setter height: Seven inch (10").

INCLUDED AND DELIVERED WITH SETTERS:

• Two (1/8") thick EPDM rubber meter gaskets.



MANUFACTURER:

Single Service:

- McDonald: 720-410WWDD 44
- Ford: VBB74-10W-11-44-NL



G 3.2 - METER SETTERS (1 1/2"& 2" METER):

Effective Date: 01-01-2025

SPECIFICATION:

Meter setters shall meet or exceed the performance specifications of:

- Castings shall be made of ASTM Standards 862 (85-5-5-5) brass.
- Applicable parts of AWWA C800.

MATERIAL:

Body:

• ASTM Standards B-62 Brass.

Riser:

Copper.

Seal & O-rings:

· EPDM rubber.

Trim:

Brass.

Solder:

· Lead-free.

DESIGN:

- Ball type curb stop valve design.
- Valve shall have padlock wings.
- Shall have swivel meter saddle nut connections for 1 1/2" and 2" water meters.

CONNECTIONS:

- · Both bottom inlet and outlet sides shall be FIP.
- Both top inlet and outlet sides shall be meter saddle nut.

SIZES:

• 1-1/2" and 2" water meters.

INCLUDED AND DELIVERED WITH SETTERS:

• Two (1/8") thick EPDM rubber meter gaskets.

RESTRICTIONS:

Use of this product is limited to:

• Single Service Meter



MANUFACTURER:

- McDonald: 720R612WWFF 665 (1-1/2")
- McDonald: 720R712WWFF 775 (2")
- Ford: VBB76-12HB-11-66-NL (1-1/2")
- Ford: VBB77- 12HB-11-77-N (2")



G 4 - Dual Service U-Branch (5/8" X 3/4" METER):

Effective Date: 01-01-2025

SPECIFICATION/ MATERIAL:

U-Branch fittings shall meet or exceed the performance specifications of:

- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Certified to NSF/ANSI 61 and NSF/ANSI 372

CONNECTIONS:

• 3/4" MIP Inlet X (2) 3/4" MIP Outlets

DESIGN:

• One (1") inch tailpiece must be machined inside and outside.

INCLUDE:

- One tail piece
- One meter nut



MANUFACTURER:

- Ford: U88-33-NL
- OPEN

RESTRICTIONS:

Use of this product is limited to:

• 5/8" x 3/4" Dual Meter



G 5 - Compound Meters (3", 4" and 6"):

Effective Date: 01-01-2025

SPECIFICATION/ MATERIAL:

Large meters shall meet or exceed the following performance specifications:

- · Lead-free bronze alloy
- AWWA Standard C700
- NSF/ANSI Standards 61 and 372
- 316 stainless steel hardware
- EPDM gasket

SIZE:

Compound meters and strainers shall conform to the following lay lengths:

- 3" Compound meter with strainer 24"
- 4" Compound meter with strainer 29"
- 6" Compound meter with strainer 33"

LOW FLOW REGISTRATION:

- 3" .25 gpm
- 4" .375 gpm
- 6" .375 gpm

DESIGN:

- Meters and encoders must be compatible with Badger Meter AMR/AMI systems
- TORX tamper resistant seal screw

INCLUDE:

- · Test plug
- Bronze Plate Strainer



MANUFACTURER:

Badger Meter



G 6 - High Resolution Encoder:

Effective Date: 01-01-2025

SPECIFICATION/ MATERIAL:

High resolution encoders shall meet or exceed the following performance specifications:

- Provide connectivity with Badger Meter ORION AMR/AMI endpoints.
- Eight-dial resolution to AMR/AMI endpoints.
- Eight-dial mechanical odometer wheel stack.
- Thermoplastic shroud assembly.
- Signal Type: 3-wire synchronous for AMR/AMI solutions (red=clock/power, black=ground, green=data)
- Unit of Measure shall be gallons

DESIGN:

INCLUDE:

- 25' pre-sized wire harness.
- Factory potted with Nicor in-line connector allowing connectivity to an endpoint without need for a field splice.

OPERATING TEMPERATURE:

• -40°F - 140°F



MANUFACTURER:

Badger Meter

RESTRICTIONS:

• Shall be installed with compound meters



G 7 – Migratable Endpoint:

Effective Date: 01-01-2025

SPECIFICATION/ MATERIAL:

Migratable endpoints shall meet or exceed the following performance specifications:

- 90 days of hourly historical interval meter data within the nonvolatile memory.
- □ Compatibility with High Resolution Encoder (HRE)
- ☐ Two-way communication

INCLUDE:

☐ Factory potted with Nicor In-line connector



MANUFACTURER:

• Badger Meter

RESTRICTIONS:

• Shall be installed with compound meters.



G8 - Corporation Stops

Effective Date: <u>01-01-2025</u>

SPECIFICATION:

Corporation Stops for copper or plastic tubing (CTS) shall meet or exceed the specifications of:

Brass

- AWWA Standard C800
- ASTM B584, ASTM B62, ASTM B584
- UNS C89833, UNS C83600



REQUIREMENTS:

- Size 1"
- Molded EPDM rubber seat with reinforcing rings supporting ball
- Dual EPDM O-rings in stem
- AWWA/CC taper thread
- Flare copper outlet threads
- 300 PSI working pressure
- Stainless steel clamp screw

MANUFACTURER:

- BALLCORP Part# FB1000-4-NL
- OPEN

