

Pawtucket Water Supply Board

SPECIFICATIONS FOR

WATER MAIN AND SERVICE MATERIALS

Materials approved for use on water main installations and appurtenant services, as directed by the Water Supply Board:

- PIPE:** **Type:** Ductile Iron, AWWA C151, American Manufacture
Thickness Class: 52, AWWA C150
Joint Type: Push-On Joints, AWWA C111
Gasket: Rubber, AWWA C111
Interior Surface: Cement-mortar lining, double thickness, with bituminous material seal coat, AWWA C104
Exterior Surface: Asphaltic coating approx. 1-mil thick, AWWA C151
- RESTRAINED JOINT PIPE:** **Type:** Ductile Iron, AWWA C151, American Manufacture
Thickness Class: 54, AWWA C150
Joint Type: Restrained Push-On Joints, AWWA C111
(TR-Flex, as manufactured by U.S. Pipe & Foundry Co.)
Gasket: Rubber, AWWA C111
Interior Surface: Cement-mortar lining, double thickness, with bituminous material seal coat, AWWA C104
Exterior Surface: Asphaltic coating approx. 1-mil thick, AWWA C151
- PIPE FITTINGS:** **Type:** Ductile Iron, AWWA C153
Pressure Rating: 350 psi
Joint Type: Mechanical Joints, AWWA C111
Gasket: Rubber, AWWA C111
Interior Surface: Cement-mortar lining, double thickness, with bituminous material seal coat, AWWA C104
Exterior Surface: Asphaltic coating approx. 1-mil thick, AWWA C151
- PIPE JOINT RESTRAINT:** MEGALUG thrust restraint wedge, as manufactured by EBAA Iron, Inc. of Eastland, TX, or approved equal
- TAPPING SLEEVES:** **4" thru 10",** Mueller H-615 Mechanical Joint, or approved equal.
12" and larger, Smith-Blair Model 664, AWWA C223, stainless steel body with stainless steel (Type 304) nuts and bolts or approved equal.
- TAPPING VALVES:** **2" thru 12",** Mueller T-2360-16, AWWA C509
16" thru 24", Mueller H-667, AWWA C500,
OPEN RIGHT, Flanged x Mech. Joint, or approved equal
- GATE VALVES:** **4" thru 12",** Mueller A-2360-20, AWWA C509, OPEN RIGHT,
Mechanical Joint, or approved equal.

INSERTION VALVES: 4" thru 12", EZ Valve as manufactured by Advanced Valve Technologies, LLC, AWWA C509 for material specifications, OPEN RIGHT, or approved equal.

BUTTERFLY VALVES: 16" and larger, Mueller B-3211-20, AWWA C504, OPEN RIGHT, Mechanical Joint, Class 150B or approved equal.

VALVE BOXES: 5-1/4", Telescope Type, with cover marked "WATER".

HYDRANTS: Mueller Super Centurion A-423, AWWA C502, ULFM approved, OPEN LEFT, 5'6" bury, Paint 2 coats approved Chrome Yellow, **NO SUBSTITUTION.**

SERVICE PIPE: 1" or 2" Type "K" Copper, AWWA C800.

CORPORATION STOPS: 1" or 2" Mueller B-25008 Ball Valve, AWWA C800, or approved equal.

CURB STOPS: 1" or 2" Mueller B-25209 Ball Valve, AWWA C800, or approved equal.

CURB BOXES: Erie Type, w/lid & plug, Range 4'6" to 5'6" Mueller H-10334, 33" rod, or approved equal.

PIPE COUPLINGS: Cast, bolted straight and transition; Smith-Blair No. 441, epoxy coated with stainless steel hardware, AWWA C219, or approved equal.

RESTRAINED COUPLINGS: Series 3800 MEGA-COUPLING, as manufactured by EBAA Iron, Inc. of Eastland, TX, AWWA C219 or approved equal.

AIR RELEASE: Mueller H-10284 (with a copper riser tube) or approved equal (to include TWO: 1" IPT to 1" type "K" copper fittings).

BLOW-OFF: 2" Gil Industries Aquarius Blow-Off System with a 2" stop & drain valve, 2" copper riser pipe to the length required, as manufactured by Gil Industries Inc. of Pensacola Florida, or approved equal, installed with a 5-1/4", telescope type valve box with cover marked "WATER".

**ABOVE GROUND
METER VAULT:** The vault shall be an insulated heated enclosure of aluminum construction and shall comply with ASSE 1060, Class I. The vault interior dimensions shall be appropriately sized by the manufacturer based on interior piping items. The enclosure must be capable of maintaining a minimum temperature of 40⁰ F (4⁰C) and shall be supported by a concrete pad in accordance with the manufacturer's recommendations. It shall be manufactured by Hot Box or an approved equal. Vaults located in open areas such as public parks, playgrounds or ballfields shall be enclosed by a 6-foot high chain link fence and locking gate in accordance with RIDOT Standard 31.2.