

Section A: PipeEffective Date: 01-01-2026[A 1 PVC Pipe - Schedule 40](#)[A 2 PVC Pipe - Schedule 80](#)[A 3 Polyethylene Service Tubing](#)[A 3.1 Polyethylene 2" Potable Water Main Tubing](#)[A 3.2 High Density Polyethylene Pipe \(HDPE\)](#)[A 4 PVC Pipe \(2" & 3" SDR-21\)](#)[A 5 PVC Pipe \(AWWA C – 900\) – Potable Water \(4" thru 24"\)](#)[A 5.1 PVC Pipe \(AWWA C – 900\) – Sewer \(4" thru 24"\)](#)[A 5.2 PVC Pipe Restrained Joint Pipe & Couplings \(AWWA C – 900\) \(4" thru 16"\)](#)[A 5.3 PVC Pipe Fusible \(AWWA C-900\) - Potable Water \(4" thru 24"\)](#)[A 5.3.1 PVC Pipe Fusible \(AWWA C-900\) - Sewer Force Main \(4" thru 24"\)](#)[A 6 Ductile Iron Pipe/ Push-On Joint/ Class 350 \(3" thru 36"\)](#)[A 6.1 Ductile Iron Pipe/ Flanged Joint/ Class 53](#)[A 6.2 Ductile Iron Pipe/ Restrained Push-On Joint/ TR Flex Joint \(3" thru 36"\)](#)[A 6.3 Ductile Iron Pipe/ Restrained Push-On Joint/ Flex- Ring Joint \(3" thru 48"\)](#)[A 7 Stainless Steel Pipe](#)[A 8 Galvanized Pipe \(Temporary\)](#)

A 1 – PVC PIPE - SCHEDULE 40:

Effective Date: 01-01-2026

MATERIAL / SPECIFICATION:

Schedule 40 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1785, dimensional requirements, minimum burst and sustained pressure requirements, maximum operating pressure, and test procedures for determining pipe quality with respect to workmanship and materials.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or “NSF-pw”.
- ASTM D1784, manufactured from compounds with Cell Classification 12454B (Type 1, Grade 1 material).

CONNECTIONS:

- Plain end X plain end.
- Plain end X solvent weld bell.

DIMENSIONS:

- 20’ standard joint length.



MANUFACTURER:

- CHARLOTTE PIPE AND FOUNDRY
- COLONIAL
- DIAMOND PLASTICS
- FREEDOM PLASTICS
- NAPCO
- NATIONAL PIPE & PLASTICS
- JM EAGLE
- IPEX
- PIPELIFE

Use of this product is limited to:

- Sewer service laterals (DWV)
- 2” Water blow offs

A 2 – PVC PIPE - SCHEDULE 80:

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

Schedule 80 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1785, dimensional requirements, minimum burst and sustained pressure requirements, maximum operating pressure, and test procedures for determining pipe quality with respect to workmanship and materials.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or “NSF-pw”.
- ASTM D1784, manufactured from compounds with Cell Classification 12454B (Type 1, Grade 1 material).

CONNECTION:

- Plain end X plain end
- Plain end X solvent weld bell

DIMENSIONS:

- 20’ standard joint length

SIZES:

- 3/4”
- 1”
- 1-1/2”
- 2”



MANUFACTURER:

- CHEMTROL
- CHARLOTTE PIPE AND FOUNDRY
- COLONIAL
- ESLON THERMOPLASTICS
- FREEDOM PLASTICS
- NATIONAL PIPE AND PLASTICS
- WORLD OF PLASTICS, INC.
- JM EAGLE
- IPEX
- NORTH AMERICAN PIPE
- PIPELIFE

RESTRICTIONS:

- Pump station chemical feed applications downstream from backflow preventer.

A 3 – POLYETHYLENE SERVICE TUBING:

Effective Date: 01-01-2026

SPECIFICATION/ MATERIAL:

PE-3608 High Density Polyethylene, HDPE, tubing shall meet or exceed the performance specifications of:

- PE-3608 Resin listed in Plastic Pipe Institute TR4 Cell classification per ASTM Standards D3350 = 345444 or 345464.
- ASTM Standards D2737 dimensional standard, Copper Tubing Size, CTS, controlled outside diameter.
- AWWA C901
- MFG. Shall be listed with the Plastic Pipe Institute as meeting the recipe and mixing requirements for pipe in this classification.

POTABLE WATER REQUIREMENT:

- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or “NSF-pw”.

PRESSURE RATING:

- 200-psi. operating pressure @ 73.4 F

COLOR-CODED:

- Solid blue or blue stripe: potable water
- Solid green or green stripe: sewer

DIMENSIONS:

- Copper tubing size, C.T.S. O.D. controlled
- DR-9

SIZES:

- 1"
- 1.5"
- 2"



RESTRICTIONS:

Use of this product is limited to:

- Water service lines 1" or 2"
- LPS service lines 1.5" or 2"

MANUFACTURER:

- DURA-LINE PW TUBING
- ADS
- CHARTER PLASTICS
- ENDOT

A 3.1 – POLYETHYLENE 2” POTABLE WATER MAIN TUBING:

Effective Date: 01-01-2026

SPECIFICATION/ MATERIAL:

PE-3608 High Density Polyethylene, HDPE, tubing shall meet or exceed the performance specifications of:

- PE-3608 Resin listed in Plastic Pipe Institute TR4 Cell classification per ASTM Standards D3350 = 345444 or 345464E.
- ASTM Standards D3035 dimensional standard, Iron Pipe Size, IPS, controlled outside diameter.
- AWWA C901
- MFG. Shall be listed with the Plastic Pipe Institute as meeting the recipe and mixing requirements for pipe in this classification.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or “NSFpw”.

PRESSURE RATING:

- 200-psi. operating pressure @ 73.4 F

COLOR-CODED:

- Blue - potable water
- Black with minimum of three (3) evenly spaced blue stripes - potable water

DIMENSIONS:

- Iron pipe size, I.P.S. O.D. controlled
- DR-9

SIZES:

- 2”



MANUFACTURER:

- CHARTER PLASTICS/BLUE STRIPE PIPE
- ENDOPURE/ BLUE WITH CLEAR CORE
- LAMSON VYLON/ PRESSURE FLEX WATER
- ADS

RESTRICTIONS:

Use of this product is limited to:

- 2” potable water mains

A 3.2 – HIGH DENSITY POLYETHYLENE PIPE (HDPE) 4”-36”:

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

PE-4710 High Density Polyethylene, HDPE, pipe shall meet or exceed the performance specifications of:

- PE-4710 Resin listed in Plastic Pipe Institute TR4.
- Cell classification per ASTM D3350 = 345444C or 345464C for black OR 345444E or 345464E for non-black & color.
- ASTM F 714, minimum wall values.
- AWWA C906.
- MFG. Shall be listed with the Plastic Pipe Institute as meeting the recipe and mixing requirements for pipe in this classification.

POTABLE WATER REQUIREMENTS:

- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or "NSF-pw".

COLOR– CODED:

- Blue - potable water.
- Green - sanitary sewer/ force main.

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-11, DR-13.5

PRESSURE RATING:

- 200-psi. operating pressure @ 73.4 F for DR-11.
- 160-psi. operating pressure @ 73.4 F for DR-13.5

JOINING RESTRICTIONS:

- Compression type connections are not acceptable in new installations.
- Pipe joints shall be butt fusion.
- No electro fusion coupling joints will be accepted.
- Flange or mechanical joint adapters shall be used for pipe and fitting transitions.

RESTRICTIONS:

- DR-13.5 considered for mains 6” and larger when hydraulic or availability restrictions apply. Submittal to and approval by CFPWA required.

FIRE MAIN PRESSURE RATING & REQUIREMENTS:

- Dimension Ratio (DR) DR-11, pressure class 200 for fire mains.
- Factory Mutual Approved (FM) pipe.



MANUFACTURER:

- CHARTER PLASTICS/ STRIPE PIPE
- CP CHEMICAL
- PERFORMANCE PIPE DRISCOPEX
- FLYING W PLASTICS
- JM EAGLE PE PIPE
- LAMSON VYLON/ PRESSURE FLEX WATER
- RINKER MATERIALS– POLY PIPE
- WL PLASTICS

A 4 – PVC Pipe (2" and 3" SDR 21):

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

2" and 3" SDR 21 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D2241 or latest revision thereof.
- ASTM D1784, manufactured from compounds with cell classification 12454B.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or "NSF-pw".
- Push-on integral bell type supplied with elastomeric gaskets installed.
- Joints per ASTM D3139 testing requirements.
- Gaskets per ASTM F477.
- Pipe shall be clean and ends shall be tarped during shipment.
- Standard Dimension Ratio (SDR) 21.
- No solvent-cement weld pipe or fittings will be accepted.

PRESSURE RATING:

- 200 psi. at 23 Degrees C (73.4 Degrees F)

COLOR-CODED:

- Blue - potable water

DIMENSIONS:

- Iron pipe size (IPS) Outside diameter controlled
- 20' and 21' standard joint length



MANUFACTURER:

- CHARLOTTE PIPE AND FOUNDRY
- DIAMOND PLASTICS
- FREEDOM PLASTICS
- JM EAGLE
- WESTLAKE PIPE & FITTINGS
- NATIONAL PIPE & PLASTICS
- PIPELIFE

RESTRICTIONS:

Use of this product limited to:

- 2" Water Mains
- 3" Sewer Force Mains

A 5 – PVC PIPE (AWWA C-900) - POTABLE WATER (4" THRU 24"):

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

AWWA C-900 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1784, manufactured from compounds with cell classification 12454A or 12454B.
- Push-on integral bell type joints per ASTM D3139 testing requirements, supplied with elastomeric gaskets installed.
- Gaskets per ASTM F477.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or "NSF-pw".
- Pipe shall be clean and ends shall be tarped during shipment.
- No solvent-cement weld pipe or fittings will be accepted.
- Affidavit of compliance to this specification shall be available upon request.

COLOR- CODED:

- Blue - potable water

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-18, DR-14
- 20' standard joint length

PRESSURE RATING:

- 235-psi. operating pressure @ 73 F for DR-18.
- 305-psi. operating pressure @ 73 F for DR-14.

FIRE MAIN PRESSURE RATING & REQUIREMENTS:

- Dimension Ratio (DR) 14, pressure class 200 for fire mains.
- Factory Mutual Approved (FM) and Underwriter Laboratory Listed (UL) as noted by (UL/FM) required on DR 14 pipe.
- No solvent-cement weld pipe or fittings will be accepted.



MANUFACTURER:

- DIAMOND PLASTICS
- FREEDOM PLASTICS
- JM EAGLE/ BLUE BRUTE
- WESTLAKE PIPE & FITTINGS
- NATIONAL PIPE & PLASTICS
- PIPELIFE

RESTRICTIONS:

- DR-14 is a design option for special installations. CFPUA approval required.

A 5.1 – PVC PIPE (AWWA C-900) - SEWER (4” THRU 24”):

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

AWWA C-900 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1784, manufactured from compounds with cell classification 12454A or 12454B.
- Push-on integral bell type joints per ASTM D3139 testing requirements, supplied with elastomeric gaskets installed.
- Gaskets per ASTM F477
- Pigment stabilizers and ultraviolet inhibitors shall be used to prevent fading for a period of six (6) months after delivery.
- Pipe shall be clean and ends shall be tarped during shipment.
- No solvent-cement weld pipe or fittings will be accepted.
- Affidavit of compliance to this specification shall be available upon request.

COLOR- CODED:

- Green - sanitary sewer

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-18, DR-14
- 20’ standard joint length
- Shorter joints acceptable for sewer only

PRESSURE RATING:

- 235-psi. operating pressure @ 73 F for DR-18.
- 305-psi. operating pressure @ 73 F for DR-14.

RESTRICTIONS:

- DR-14 is a design option for special installations. CFPUA approval required.



MANUFACTURER:

- DIAMOND PLASTICS
- FREEDOM PLASTICS
- JM EAGLE/ BLUE BRUTE
- WESTLAKE PIPE & FITTINGS
- NATIONAL PIPE & PLASTICS
- PIPELIFE

**A 5.2 – PVC PIPE RESTRAINED JOINT PIPE & COUPLINGS (AWWA C-900)
(4” THRU 16”):**

Effective Date: 01-01-2026

MATERIAL / SPECIFICATION:

AWWA C-900, Pipe shall meet or exceed the performance specifications of:

- ASTM D1784, manufactured from compounds with cell classification 12454A or 12454B.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 14, 61 or “NSF-pw” for all blue pipe (potable water installation).
- Joined using separate couplings that have built in sealing gaskets (O-rings) and restraining grooves.
- Shall be joined using high-strength flexible plastic splines inserted into mating precision-machine grooves, which align when the pipe is fully inserted, providing a full 3600 restraint with evenly distributed loading.
- Joints per ASTM D3139 testing requirements.
- Gaskets per ASTM F477.
- Pipe shall be clean and ends shall be tarped during shipment.
- No solvent-cement weld pipe or fittings will be accepted.
- Affidavit of compliance to this specification shall be available upon request.

COLOR– CODED:

- Blue– potable water
- Green– sanitary sewer/ force main

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-18, DR-14.
- 20’ standard joint length.

PRESSURE RATING:

- 235-psi. operating pressure @ 73 F for DR-18.
- 305-psi. operating pressure @ 73 F for DR-14.

RESTRICTIONS:

- Only for low profile carrier pipes inside casings with prior approval by CFPUA.
- DR-14 is a design option for special installations. CFPUA approval required.



MANUFACTURER:

- CERTAINTEED– CERTA-LOK
- JM EAGLE LOC 900
- DIAMOND LOK-21

A 5.3 – PVC PIPE FUSIBLE (AWWA C-900) - POTABLE WATER (4” THRU 24”): Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:
 Fusible AWWA C-900 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1784, manufactured from compounds with cell classification 12454.
- Manufacture shall be listed with the Plastic Pipe Institute (PPI) as meeting the recipe and mixing requirements for pipe in this classification.
- Extruded with a unique formulation, for fusible pipe, that meets all requirements of PPI TR-2 “PPI PVC Range Composition Listing of Qualified Ingredients”.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 61 or NSF-pw.
- Pipe shall be clean and ends shall be tarpied during shipment.
- Pipe shall be extruded with plain ends. The end shall be square to the pipe and free of any bevel or chamfer.
- Fusible pipe shall be joined per the manufacture’s recommendation.
- Installation shall not exceed manufacture’s bending radius and safe pulling force.
- No solvent-cement weld pipe or fittings will be accepted.
- Affidavit of compliance to this specification shall be available upon request.

COLOR– CODED:

- Blue - potable water

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-18 DR-14
- 20’, 30’ or 40’ standard joint length.

PRESSURE RATING:

- 235-psi. operating pressure @ 73 F for DR-18.
- 305-psi. operating pressure @ 73 F for DR-14.



MANUFACTURER:

- UNDERGROUND SOLUTIONS

RESTRICTIONS:

- DR-14 is a design option for special installations. CFPWA approval required.

A 5.3.1 – PVC PIPE FUSIBLE (AWWA C-900) - SEWER FORCE MAIN (4” THRU 24”):

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

Fusible AWWA C-900 Polyvinyl Chloride, PVC, Pipe shall meet or exceed the performance specifications of:

- ASTM D1784, manufactured from compounds with cell classification 12454.
- Manufacture shall be listed with the Plastic Pipe Institute (PPI) as meeting the recipe and mixing requirements for pipe in this classification.
- Extruded with a unique formulation, for fusible pipe, that meets all requirements of PPI TR-2 “PPI PVC Range Composition Listing of Qualified Ingredients”.
- Pipe shall be clean and ends shall be tarped during shipment.
- Pipe shall be extruded with plain ends. The end shall be square to the pipe and free of any bevel of chamfer.
- Fusible pipe shall be joined per the manufacture’s recommendation.
- Installation shall not exceed manufacture’s bending radius and safe pulling force.
- No solvent-cement weld pipe or fittings will be accepted.
- Affidavit of compliance to this specification shall be available upon request.

COLOR– CODED:

- Green - sewer force main

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- DR-14, DR-18
- 20’, 30’ or 40’ standard joint length.

PRESSURE RATING:

- 235-psi. operating pressure @ 73 F for DR-18.
- 305-psi. operating pressure @ 73 F for DR-14.

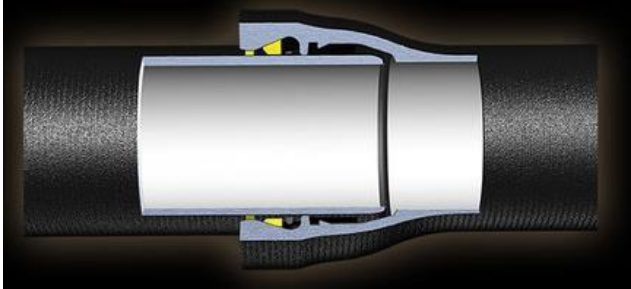
RESTRICTIONS:

- DR-14 is a design option for special installations. CFPUA approval required.



MANUFACTURER:

- UNDERGROUND SOLUTIONS

<p>A 6 – DUCTILE IRON PIPE/ PUSH-ON JOINT/ CLASS 350 (3” THRU 36”):</p>		<p>Effective Date: <u>01-01-2026</u></p>
<p><u>MATERIAL/ SPECIFICATION:</u></p> <ul style="list-style-type: none"> • Pipe shall conform with AWWA C151 (ANSIA21.51). • Gaskets shall be furnished in accordance with AWWA C111 (ANSI– A21.11). • Pipe supplied must have ISO 9001 or later certification, or poured in a foundry located in the U.S.A. • Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 61. • Factory Mutual Approved (FM) and Underwriter Laboratory Listed (UL) as noted by (UL/FM) for sizes four (4”) thru twelve (12”) inch. • Affidavit of compliance to this specification shall be available upon request. <p><u>DIMENSIONS:</u></p> <ul style="list-style-type: none"> • 18’ or 20’ standard joint length. <p><u>PRESSURE RATING:</u></p> <ul style="list-style-type: none"> • Class 350- psi. for sizes 4” thru 24” pipe. • Class 250- psi for sizes 30” thru 36” pipe. 	<p><u>COATING & LINING:</u></p> <p>Potable Water:</p> <ul style="list-style-type: none"> • Interior - AWWA C104 (ANSI-A21.4). <p>Sanitary Sewers and Force Mains:</p> <ul style="list-style-type: none"> • Interior - Coated (factory applied) or approved equal with an amine cured novolac epoxy, containing at least 20% by volume of ceramic quartz pigment “PROTECTO 401” or “PERMOX CTF” (40 mils nominal) or polyamine ceramic epoxy containing at least 20% by volume ceramic hollow microspheres “tnemec series 431 permashield pl” (40 mils nominal). • The inside of the bell socket including a portion of the gasket cavity and a portion of the pipe barrel are also coated with the above products (6” mils nominal, 10 maximum). 	
<p><u>RESTRICTIONS:</u></p> <ul style="list-style-type: none"> • 3” to be used for sewer force mains only 	<p><u>MANUFACTURER:</u></p> <ul style="list-style-type: none"> • AMERICAN CAST IRON– FASTITE • McWANE, INC.– TYTON • US PIPE & FOUNDRY– TYTON 	

A 6.1 – DUCTILE IRON PIPE/ FLANGE JOINT/ MINIMUM CLASS 53:

Effective Date: 01-01-2026

MATERIAL / SPECIFICATION:

Flange pipe shall meet or exceed the performance specifications of:

- Pipe shall conform with AWWA C151 (ANSIA21.51).
- Flanges shall conform to the chemical and physical properties specified for ductile iron fittings in ANSI/AWWA C 110/A21.10.
- Shall conform to AWWA C115 (ANSI-A21.15) flange pipe and fitting joints.
- Shall be drilled and faced to conform with ANSI B16.1 Class 125 flanges.

GASKETS SHALL BE RING OR FULL-FACE TYPE AND PRODUCED FROM ONE OF THE FOLLOWING MATERIALS:

- EPDM (Ethylene Propylene Diene Monomer)
- Nitrile Buna-N (NBR) (Acrylonitrile Butadiene)
- Viton; Fluorel (FKM) (Fluorocarbon)
- Pipe supplied must have ISO 9001 or later certification, or poured in a foundry located in the U.S.A.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 61.
- Affidavit of compliance to this specification shall be available upon request.

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- 18’ or 20’ standard joint length or as specified for project.

PRESSURE RATING:

- Class 250-psi. for sizes 4” thru 24” pipe.

RESTRICTIONS:

- Flange pipe is for use in inside buildings, above ground outside, or inside underground vault or manhole service applications.

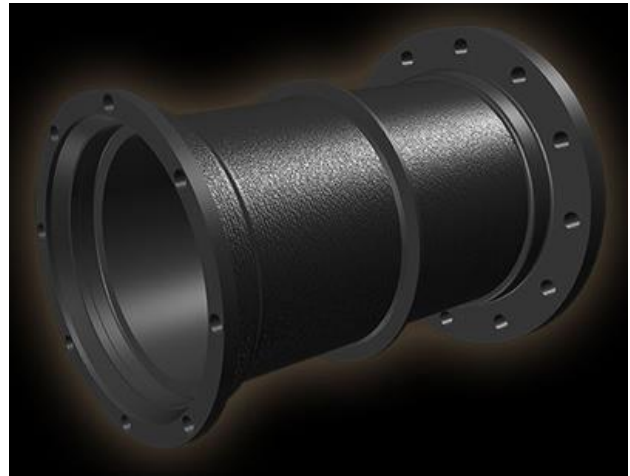
COATING & LINING:

Potable Water:

- Interior - AWWA C104 (ANSI-A21.4).

Sanitary Sewers and Force Mains:

- Interior - Coated (factory applied) or approved equal with an amine cured novolac epoxy, containing at least 20% by volume of ceramic quartz pigment “PROTECTO 401” or “PERMOX CTF” (40 mils nominal) or polyamine ceramic epoxy containing at least 20% by volume ceramic hollow microspheres “TNEMEC SERIES 431 PERMA-SHIELD PL” (40 mils nominal).



MANUFACTURER:

- AMERICAN CAST IRON
- McWANE, INC.
- US PIPE & FOUNDRY

A 6.2 – DUCTILE IRON PIPE/ RESTRAINED PUSH-ON JOINT (3” THRU 48”):

Effective Date: 01-01-2026

MATERIAL / SPECIFICATION:

Restrained pipe shall meet or exceed the performance specifications of:

- Shall conform with AWWA C150 (ANSI–A21.50) thicknesses and strength.
- Shall conform with AWWA C151 (ANSI-A21.51).
- Gaskets shall be furnished in accordance with AWWA C111 (ANSI–A21.11).
- Shall use a standard size Tyton gasket.
- Shall use ductile iron locking segments, inserted through a slot (or slots) in the bell face, to provide a positive axial lock between the bell interior surface and a retainer weldment on the spigot end of the pipe.
- Pipe supplied must have ISO 9001 or later certification, or poured in a foundry located in the U.S.A.
- Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 61.
- Factory Mutual Approved (FM) and Underwriter Laboratory Listed (UL) as noted by (UL/FM) for sizes four (4”) thru twelve (12”) inch.
- Affidavit of compliance to this specification shall be available upon request.

PRESSURE RATING:

- Class 350-psi. for sizes 4” thru 24” pipe.
- Class 250-psi. for sizes 30” thru 36” pipe.

DIMENSIONS:

- Ductile iron pipe size O.D., D.I.P.S.
- 18’ or 20’ standard joint length.

RESTRICTIONS:

- 3” to be used for sewer force mains only

COATING & LINING:

Potable Water:

- Interior - AWWA C104 (ANSI-A21.4).

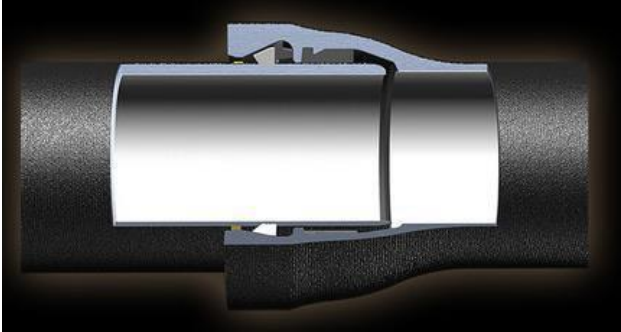
Sanitary Sewers and Force Mains:

- Interior - Coated (factory applied) or approved equal with an amine cured novolac epoxy, containing at least 20% by volume of ceramic quartz pigment “PROTECTO 401” or “PERMOX CTF” (40 mils nominal) or polyamine ceramic epoxy containing at least 20% by volume ceramic hollow microspheres “TNEMEC SERIES 431 PERMA-SHIELD PL” (40 mils nominal).



MANUFACTURER:

- US PIPE & FOUNDRY– HDSS
- McWANE, INC.– TR FLEX
- AMERICAN CAST IRON - FLEX - RING

A 6.3 – DUCTILE IRON PIPE/ RESTRAINED PUSH-ON JOINT/FLEX– RING JOINT (3” THRU 48”):		Effective Date: <u>01-01-2026</u>
<p><u>MATERIAL / SPECIFICATION:</u> Restrained pipe shall meet or exceed the performance specifications of:</p> <ul style="list-style-type: none"> • Shall conform with AWWA C150 (ANSI–A21.50) thicknesses and strength. • Shall conform with AWWA C151 (ANSI-A21.51). • Gaskets shall be furnished in accordance with AWWA C111 (ANSI-A21.11). • Shall use a standard size Fastite gasket. • Pipe supplied must have ISO 9001 or later certification, or poured in a foundry located in the U.S.A. • Shall comply with and be labeled as approved by the National Sanitation Foundation (NSF) for use in potable water lines meeting NSF 61. • Factory Mutual Approved (FM) and Underwriter Laboratory Listed (UL) as noted by (UL/FM) for sizes four (4”) thru twelve (12”) inch. • Affidavit of compliance to this specification shall be available upon request. <p><u>PRESSURE RATING:</u></p> <ul style="list-style-type: none"> • Class 350-psi. for sizes 4” thru 24” pipe. • Class 250-psi. for sizes 30” thru 36” pipe. <p><u>DIMENSIONS:</u></p> <ul style="list-style-type: none"> • Ductile iron pipe size O.D., D.I.P.S. • 18’ or 20’ standard joint length. <p><u>ADDITIONAL INFORMATION:</u></p> <ul style="list-style-type: none"> • Standard Flex-Ring segments are yellow. • Field Flex-Ring segments are black. 	<p><u>COATING & LINING:</u> Potable Water:</p> <ul style="list-style-type: none"> • Interior - AWWA C104 (ANSI-A21.4), cement mortar lining and asphaltic coating. <p>Sanitary Sewers and Force Mains:</p> <ul style="list-style-type: none"> • Interior - Coated (factory applied) or approved equal with an amine cured novolac epoxy, containing at least 20% by volume of ceramic quartz pigment “PROTECTO 401” or “PERMOX CTF” (40 mils nominal) or polyamine ceramic epoxy containing at least 20% by volume ceramic hollow microspheres “TNEMEC SERIES 431 PERMA-SHIELD PL” (40 mils nominal). 	
<p><u>RESTRICTIONS:</u></p> <ul style="list-style-type: none"> • 3” to be used for sewer force mains only 	<p><u>MANUFACTURER:</u></p> <ul style="list-style-type: none"> • AMERICAN CAST IRON– FLEX-RING 	

A 7 – STAINLESS STEEL PIPE:

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

- Schedule 40, 316 stainless steel pipe.
- Specifications shall conform to ANSI/ASME 36.19.

CONNECTIONS:

- Pipe shall have NPT threads on both ends and a coupling on one end making a full joint, mipt X fipt. As required on detail drawings.

DIMENSIONS:

- 21' standard joint length.



MANUFACTURER:

- OPEN

RESTRICTIONS:

- This material is required for air/vacuum release valve piping or other special uses as noted on detail drawings.

A 8 – GALVANIZED PIPE (TEMPORARY):

Effective Date: 01-01-2026

MATERIAL/ SPECIFICATION:

- Schedule 40, galvanized steel pipe.
- Specifications shall conform to ASTM A-53 grade-A or latest revision thereof.

CONNECTIONS:

- Pipe shall have NPT threads on both ends and a coupling on one end making a full joint, mipt X fipt.

DIMENSIONS:

- 21' standard joint length.



MANUFACTURER:

- OPEN

RESTRICTIONS:

- This material is only used for temporary sampling and flushing points during pipeline construction.
- Galvanized pipe is not acceptable for any other use.