

NewAge Epoxy Catalog



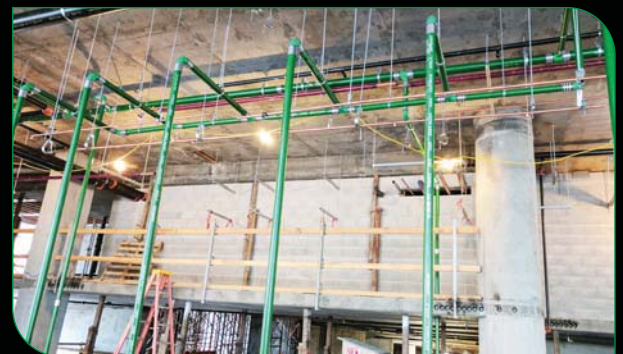
Inert, Strong, Durable Soil Pipe

For the life of the building.

NewAge Casting
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NewAge Epoxy

Corrosion Protection in DWV



APPLICATIONS

MEDICAL FACILITIES

Hospitals, Trauma Centers, Laboratories,
Dialysis Clinics, Research Facilities

ENHANCED DWV

Kitchens, Bars, Drink Machines, Grease Interceptors,
Waterless Urinals, High Efficiency, Casinos

DESTRUCTIVE ELEMENTS & ENVIRONMENTS

Maritime, Corrosive Soils, Rainwater, Boiler Rooms, etc.
Sustainable Buildings with waste volumes flowing from
20% to 50% less

HIGH OCCUPANCY STRUCTURES

High Rises, Malls, Shopping Centers, Schools, Colleges,
Universities, Arenas, Stadiums, Theatres, Convention
Centers, Office Complexes

ASSISTED LIVING CENTERS

Convalescent Homes, MOBs

COST

A cost effective alternative to plastic, acid waste,
glass pipe, duriron, & stainless steel.
We offer a solution to existing pipe materials, sizes,
& specifications.

EPOXY COATING TESTING

- 1 - Salt Spray
- 2 - Chemical
- 3 - High temperature waste testing
- 4 - Temperature cycling testing

INSTALLATION

Standard installation practices

PRODUCTS

No Hub from 1-1/2" to 15"
Couplings
Service Weight from 1-1/2" to 15"
SV Gaskets

SPECIFICATION & STANDARDS

ASTM - A888
CISPI 301
ASTM 1277 & 1540 - Regular & Extra HD Couplings
EN 877 Coating Specification & Testing
ASTM - A74
ASTM - C564



WELCOME TO THE NEWAGE
QUALITY YOU CAN COUNT ON

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Please contact us for specific documentation requests for any NewAge Casting Products.



New Age Epoxy: Corrosion Protection in DWV

In January 2012, NewAge Casting introduced our epoxy coated cast iron soil pipe system to the United States construction market. This came after years of research, product development and planning.

NewAge epoxy coated soil pipe has been proven with rough installations across the United States to withstand temperatures to 250°F, hundreds of corrosive chemicals, it has a coefficient of friction that will create optimal flow, will not degrade over time and can handle auguring in the rare event that clogging occurs. Best of all, it installs like other cast iron and comes in all sizes of both NH and SV.

The plumbing engineering community across the United States is designing and sizing DWV systems in exactly the same manner as they were prior to 1992. The main difference is that urinals, lavatories, shower valves, floor-sinks, water closets and most other rough- and finished plumbing valves are flowing 40-80% less water than they were prior to the Energy Policy Act of 1992 which mandated maximum flow volume for valves such as water closets having a maximum flow of 1.6gpm. Prior to 1992, water closets typically would flow 3.5-5gpf.

As a result, waste is remaining in DWV piping systems longer and corrosive flows are more concentrated. With waste remaining in the DWV systems longer, organic decay results in corrosive gases such as methane and hydrogen sulfide. Because of this, the entire surface area, including the vent lines of the cast iron soil pipe internal wall is being attacked with corrosives.

NewAge epoxy coated cast iron soil pipe has been installed and re-piped in major casinos, dormitories, food processing plants, schools, university buildings, breweries, high-rises, restaurants, low-flow buildings, wineries, hospitals, airports, distilleries, yacht clubs, parking structures, chemical and pharmaceutical plants, wastewater treatment plants, parking garages, maritime applications and all other commercial construction applications.

NewAge is committed to bringing the very best and latest technology to the cast iron soil pipe industry and we are diligently working on bringing additional products to the market. To get more information, please contact your NewAge representative for a detailed presentation.

NewAge Epoxy Specifications

STANDARDS

- A. General:** Piping shall meet one of the latest editions of the following standards
- Cast Iron Pipe, Hubless: ASTM A888 or CISPI 301
 - Cast Iron Couplings, Hubless: ASTM C1277, ASTM C1540 or CISPI 310
 - Cast Iron Pipe, Hub and Spigot: ASTM A74
 - Cast Iron Pipe, Hub and Spigot Gaskets: ASTM C564
- B. Cast Iron Soil Pipe Markings:** All cast iron soil pipe shall be clearly marked with the manufacturer's name, country of origin, registered trademark of manufacturing site, eight-digit date code, pipe diameter and length, relevant ASTM standard and registered trademark of the third party certifier. Third party certifier shall be IAPMO, ICC-ES, UL or other organization that is accredited by ANSI.
- C. Material Test Reports:** Suppliers of cast iron soil pipe shall be able to supply material tests reports in accordance with the relevant ASTM standard and shall include testing and analysis on: radioactivity, dimensional characteristics, tensile strength and chemical/metallurgical content. Suppliers shall also supply MSDS sheets on all coatings.
- D. Cast Iron Soil Pipe Specification:** Interior of cast iron soil pipe shall be bored for smoothness prior to the application of coatings. All coatings shall be sprayed on for consistent coverage.
- E. Cast Iron Soil Pipe Type:** All DWV and storm drainage shall be epoxy coated cast iron soil pipe. Epoxy coated cast iron soil pipe shall be tested for corrosion resistance from 2pH to 12pH, high temperature resistance to 250°F, salt spray resistance, flame resistance and temperature cycling. Epoxy coated cast iron soil pipe shall have a two part epoxy sprayed on coating interior thickness of 5 mils and exterior thickness of 2.5 mils. All epoxy coated cast iron fittings shall have a 5 mil thickness on interior and exterior. Epoxy coated cast iron soil pipe shall have a 10 year warranty.
- F. Couplings:** Heavy duty couplings with 80 in-lbs required to torque the bolts with EPDM seals shall be used.
- G. Epoxy Touch Up:** In corrosive situations, a NewAge epoxy tape up shall be applied to all cut edges where raw alloy is exposed. No cure time is necessary with the epoxy tape.
- H.** All cast iron soil pipe shall be installed per the manufacturer's instructions.

NewAge Specifics and Information

Sanitary and Storm Drain, Waste, and Vent Piping:

I. General

The epoxy coated cast iron soil pipe shall be installed above or below ground and is intended for DWV systems in commercial buildings.

II. Components

- a. Epoxy coated hubless cast iron soil pipe and fittings.
- b. Shielded EPDM Extra Heavy Duty (XH) couplings for hubless cast iron soil pipe and fittings.

III. Applicable Codes and Standards

- a. Epoxy coated hubless cast iron soil pipe and fittings shall conform to ASTM A-888, most current revision, through an accredited third party organization that complies with ISO/IEC Guide 65 requirements.
- b. All epoxy coated hubless cast iron soil pipe shall be hydro tested at 5psi.
- c. EPDM extra heavy duty couplings for hubless cast iron soil pipe and fittings shall conform to ASTM C1540, excluding gasket material.
- d. Heavy duty shielded couplings shall be 301 stainless steel with 5/16" hex head screws and shall have a torque rating of 80 in-lb. Heavy Duty shielded couplings shall have four bands for 1 1/2"-4" diameter couplings and six bands for 5"-15" diameter couplings.
- e. All couplings shall have a Ethylene-Propylene-Diene-Monomer (EPDM) based interior rubber sleeve.

IV. Epoxy Coating

- a. General: Epoxy coating on all hubless cast iron soil pipe and fittings shall be composed of two part epoxy resin with pigment and fillers. The epoxy shall have excellent resistance to water and alkali. The smooth surface shall result in a coefficient of friction of 130 Hazen-Williams or less.



b. Coating Parameters:

Description	Interior	Exterior
Surface Preparation	Rust, dust, oil, grease and loosely adhering deposits shall be removed	
Dry Thickness	4.7-5.1 mil for pipe and fittings	1.9-2.4 mil for pipes and 4.7-5.1 mil for fittings
Color	Yellow Ochre	Green

c. Coating Properties:

Description	Interior and Exterior Counting
Chemical Resistance	Shall be exposed to a 2pH solution for 30 days at 73° F and a 12 pH solution for 30 days at 73° F. Interior shall be rinsed to remove any chemical residue and immediately inspected for any wear, loss of epoxy material and leakage.
Adhesion	Interior Coating is Level 1 as per EN ISO 2409 and Exterior Coating is Level 2 as EN ISO 2409
Salt Spray Resistance	Shall be exposed to concentrated salt water solution for at least 350 hours then rinsed to remove any salt residue and immediately inspected for any chipping, flaking or blistering.
Temperature Cycling Resistance	Shall have 1500 cycles of flowing water from 50°F to 203°F, rinsed and cut lengthwise and immediately inspected for rust and blistering.



Flame Resistance	Sample coating shall be subjected to a 0.775 BTU/in event for two minutes with no flames being formed and no damage to the surface.
Compatibility With Other Coatings	Epoxy shall be compatible with paints normally used on metallic surfaces.
Hot Water Resistance	Epoxy coated samples shall be immersed in a 203°F water bath for 24 hours and internal surface is immediately inspected for any blistering which shall not exceed dimension 3, class 3 in accordance with ISO 4628-2.
Combustibility and Use in Return Air Plenum	ASTM E84: Cast iron soil pipe is defined as non-combustible and is recommended for return air plenum installations.



CHEMICAL RESISTANCE CHART

The NewAge Epoxy Cast Iron Soil Pipe System offers several advantages over plastic systems while providing similar chemical resistance for many applications. Owners recognize NewAge Cast Iron Soil Pipe System’s chemical resistant qualities coupled with strength, minimal expansion, non combustible, noise reducing better buckling resistance and being recyclable as advantages over competing plastic systems.

- NewAge Epoxy Cast Iron Soil Pipe System has almost no deflection making it easier to install and support
- NewAge Epoxy Cast Iron Soil Pipe System does not require expansion joints
- NewAge Epoxy Cast Iron Soil Pipe System is non-combustible with minimal fire stopping required

Please note that the Chemical Resistance Chart is intended for drainage systems only.

The information below has been assembled from sources that are to be reliable. The Coating used in the NewAge Epoxy CISP System is manufactured by others, and NewAge has limited control over the installer and the installation conditions under which the system is being used.

Acetaldehyde
 Acetamide
 Acrylonitrile Adipic Acid
 Aluminum Chloride
 Aluminum Sulphate
 Ammonia Liquid
 Ammonium Bifluoride
 Ammonium Carbonate
 Ammonium Chloride
 Ammonium Hydroxide
 Ammonium Nitrate
 Ammonium Persulfate, (Up to 10%)
 Ammonium Phosphate, Mono-Di-Tri
 Ammonium Sulfate
 Amyl Acetate
 Amyl Chloride
 Aniline Oil
 Animal Fats
 Animal Oil,
 Antimony Trichloride

Arochlor 1248
 Aromatic Solvents
 Arsenic Acid, (up to 75%)
 ASTM Oil #1
 ASTM Oil #2
 ASTM Oil #3
 Barium Carbonate
 Barium Chloride
 Barium Cyanide
 Barium Hydroxide
 Barium Nitrate Beer
 Beet Sugar Liquors
 Benzaldehyde
 Benzoic Acid
 Benzyl Alcohol
 Black Liquor, (Sodium Bisulfite)
 Black Sulphate Liquor
 Butyl Alcohol (Butanol)
 Butylene
 Calcium Bisulfate





CHEMICAL RESISTANCE CHART

- Calcium Bisulfide
- Calcium Bisulfite
- Calcium Carbonate
- Calcium Chlorate
- Calcium Chloride
- Calcium Hydroxide, (Lime)
- Calcium Hypochlorite
- Calcium Sulfate
- Cane Sugar Liquors
- Carbon Bisulfide
- Carbon Dioxide, Wet
- Carbon Monoxide
- Carbon Tetrachloride
- Castor Oil
- Caustic Potash
- Chlorine, Water
- Chlorobenzene
- Cider
- Citric Acid
- Coconut Oil
- Cod Liver Oil
- Copper Chloride
- Copper Nitrate
- Copper Sulfate
- Corn Oil
- Cotton Seed
- Creosote (Wood or Coal Tar)
- Cyclohexane
- Deionized Water
- Developing Solutions
- Diacetone Alcohol
- Diesel Oil
- Diethylamine
- Diethylene Glycol
- Diphenyl Oxides
- Dipropylene Glycol
- Dowtherm SR1
- Epsom Salts, (MgSo4)
- Ethanolamine
- Ethyl Alcohol (Ethanol)
- Ethyl Chloride
- Ethyl Dichloride
- Ethyl Sulfate
- Ethylene Oxide
- Fatty Acids
- Ferric Chloride, (Up to 15%)
- Ferric Chloride, Saturated
- Ferric Nitrate
- Ferric Sulfate
- Ferrous Ammonium Sulfate, (To 30%)
- Ferrous Chloride
- Ferrous Sulfate
- Ferrous Sulfate, Saturated
- Formaldehyde, Cold
- Fructose
- Fruit Juices
- Fuel Oil
- Furan
- Gasoline, Leaded
- Gasoline, Unleaded
- Gasoline, Aviation
- Gasoline, Sour
- Gasoline, Motor
- Glue
- Glycerin
- Glycerol
- Glycolic Acid
- Grease E
- Heptane
- Hexyl Alcohol
- Hydraulic Oil, (Petroleum Base)
- Hydrazine
- Hydrochloric Acid, (Up to 36%, 75°F)
- Hydrochloric Acid, (Up to 36%, 158°F)





CHEMICAL RESISTANCE CHART

Hydrocyanic Acid
Hydrogen Peroxide, (Up to 90%)
Hydrogen Sulfide, Wet
Inks
Iodoform
Iso-Octane, (100°F Max E)
Isopropyl Acetate
Isopropyl Alcohol (Isopropanol)
Jet Fuel, (JP-3, JP-4, JP-5, JP-6)
Kerosene
Lacquers, (and Solvents)
Latex, (1% Styrene and Butadiene)
Lead Acetate
Lead Sulfamate
Lime Bleach
Lime and H₂O
Linseed Oil E
Lubricating Oils, (Petroleum)
Lubricating Oil, Refined (Petroleum)
Lubricating Oil, (Up to 180°F)
Lubricating Oil, (180 F to 200°F)
Magnesium Carbonate
Magnesium Chloride
Magnesium Hydroxide
Magnesium Nitrate
Magnesium Oxide
Magnesium Sulfate
Maleic Acid
Maleic Anhydride
Melamine Resins
Mercuric Chloride
Mercuric Cyanide
Mercury
Mesityl Oxide
Methane
Methyl Chloride
Methyl Cyclopentane
Methyl Ethyl Ketone
Methyl Isobutyl Carbinol
Methyl Methacrylate
Methylene Chloride
Milk Mineral Oils
Molasses, Crude
Molasses, Edible
Naptha
Napthalene
Nickel Chloride
Nickel Sulfate
Nitric Acid, (Up to 10%, 75°F)
Octyl Alcohol
Oil, Motor
Oil, Petroleum Refined
Oleic Acid
Olive Oil E
Oxalic Acid
Paints & Solvents
Palm Oil
Paraffin
Pentane
Picric Acid
Pine Oil
Potassium Bicarbonate
Potassium Bromide
Potassium Carbonate
Potassium Chlorate
Potassium Chloride
Potassium Cupro Cyanide
Potassium Cyanide
Potassium Ferrocyanide
Potassium Nitrate
Potassium Permanganate, (Saturated to 10%)
Potassium Permanganate, (Saturated 10-25%)
Potassium Sulfate
Propyl Alcohol (Propanol)



CHEMICAL RESISTANCE CHART

Propyl Bromide	Stannous Chloride, (Up to 15%)
Pyridine	Stoddard Solvent
Rosin Oil	Styrene
Sea Water	Sucrose Solutions
Secondary Butyl Alcohol	Sugar, Liquid
Selenic Acid	Sulfate, Black Liquor
Shellac	Sulfate, Green Liquor
Silicone Fluids	Sulfate, White Liquor
Silver Nitrate	Sulfite Liquors
Silver Plating Solution	Sulfur Dioxide, Dry
Soap Solutions	Sulfur Dioxide, Liquid
Soda (<i>high fructose corn syrup, sugar and artificially sweetened</i>)	Sulfur Trioxide, Dry
Sodium Acetate	Sulfuric Acid, (Up to 25%, 150°F Max.)
Sodium Bicarbonate	Sulfurous Acid
Sodium Bisulfate	Tannic Acid, (All Conc., 150°F Max.)
Sodium Bisulfite	Tanning Liquors, (50G Dichromate Sol.)
Sodium Borate	Tartaric Acid
Sodium Chlorate	Tetrahydrofuran
Sodium Chloride	Tomato Juice
Sodium Chromate	Trichloroethane
Sodium Cyanide	Triethylamine
Sodium Fluoride	Varnish
Sodium Metaphosphate	Vegetable Oils
Sodium Nitrate	Vinegar
Sodium Perborate	Water, (Up to 120°F)
Sodium Peroxide	Water, (120 F to 200°F)
Sodium Silicate	Water, (250°F)
Sodium Sulphate	Water, Acid, Mine (Oxidizing & Non-Oxidizing)
Sodium Sulphide	Water, Deionized, (Up to 150°F)
Sodium Sulfite Solutions, (Up to 20%)	Water, Sewage, (Up to 120°F)
Sodium Tetraborate	Whiskey & Wines
Sodium Thiosulfate	White Liquor Wood Oil
Soybean Oil	Xylene
Stannic Chloride	Xylol, (160°F Max.)
	Zinc Chloride, to 50%

1. Objectives

- To offer the most economical, easy to install and complete excessive corrosive waste system.
- To provide building owners with a cost effective and lasting solution.
- For NewAge epoxy waste system to last beyond the life of the building.

2. Approach

Utilizing our core product, NewAge Epoxy Waste System, with our enhanced coating to resist the corrosive environments that flow through today's waste systems. NewAge epoxy waste system conforms to ASTM A888, ASTM A74 and CISPI 301 standards for hub & hubless cast iron soil pipe and fittings and utilizes the EN877 standard for coating and testing.

3. Coating Process

The coating process begins with the boring of the interior surface of the pipe to achieve better flow characteristics by reducing the friction loss throughout the system. Following boring, each length of pipe is hydrostatically pressure tested at 5psi to verify the integrity of the pipe.

The pipe interior coating process utilizes a two-component epoxy system that is applied to a minimum 5 mil. thickness. Both interior and exterior coatings demonstrate superior pipe adhesion. The fittings are powder coated on the interior and exterior to a minimum 5 mil. thickness utilizing a fusion bonding epoxy process.

4. Excessive Corrosive Environments

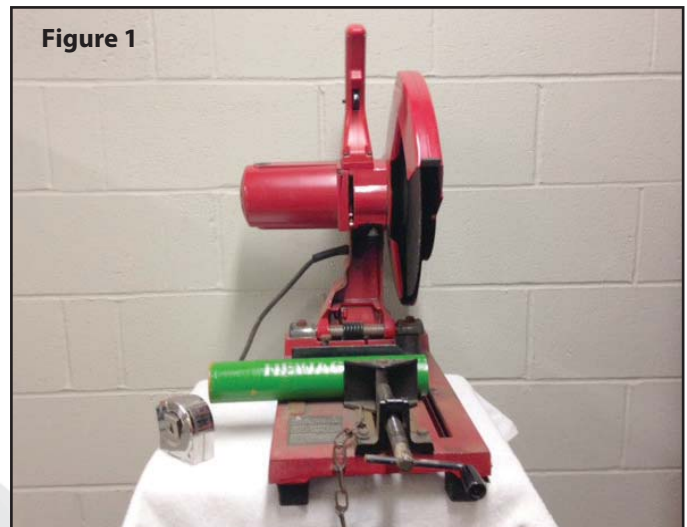
Where an excessive corrosive environment is encountered, measured as an acidity level less than or equal to 4.4 pH or an alkali level greater than or equal to 7.1 pH, NewAge epoxy waste system is recommended for installation with the touch-up protection.

Additional care in the cutting, end protecting and installation will provide a long lasting system.

5. Pipe Cutting

Note: NewAge epoxy waste system is available in standard 10 ft. lengths. These can be cut to length by a licensed plumbing contractor.

- 5.1. For a clean, square cut, a cut-off saw is the recommended cutting method. (See Figure 1)

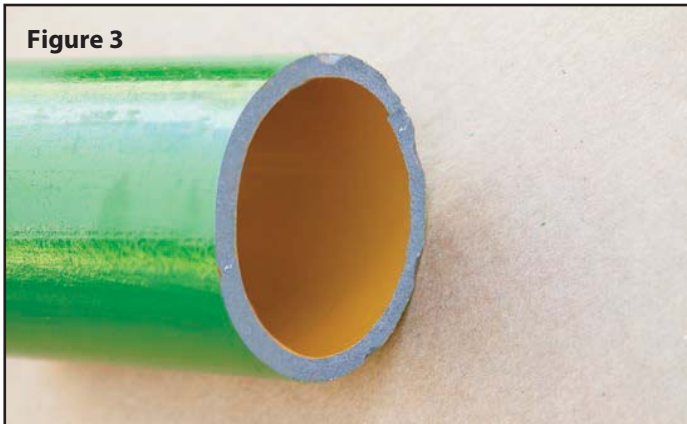


- 5.2. For a fast cuts performed in the field, a snap-cutter is acceptable. (See Figure 2)



6. Protect the Cut Pipe End

6.1. Inspect and confirm the newly cut pipe is square and free from cracks or defects. (See Figure 3)



6.2. Using a isopropyl alcohol or approved solvent and clean cloth, remove all grease, oil, and foreign debris from the interior and exterior pipe surface to be coated must be clean.

Optional Pipe End Protection

In standard DWV systems, end protection is not a requirement in the installation procedures.

Required Pipe End Protection

In all excessive corrosive waste system environments, the pipe ends must be protected. Protect the cut pipe end exposed iron using the NewAge epoxy tape.

Application:

Cut edge protection for NewAge epoxy coated cast iron soil pipe systems

Materials:

Butyl rubber with polypropylene fleece

Temperatures:

Storage: 41 °F— 77 °F

In use temperature range: -22 °F— 212 °F

7. Installation:

7.1 After cutting the pipe, clean the surfaces with a cloth and alcohol so they are dry and free of dust and grease. (See Figure 4).



7.2 Cut epoxy tape to the length corresponding to the chart below (Chart 1 and Figure 5).



Chart 1

Pipe Size	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	15"
Tape Length	5 1/4"	6 7/8"	10 3/8"	13 5/8"	16 1/2"	19 3/4"	25 7/8"	33 1/2"	41 1/8"	51 1/2"

7.3 Warm the tape slightly, e.g. on a radiator or an alternative heat source. Lift off the separating foil (See Figure 6).



7.4 Lay the sticky side of the epoxy tape onto the outside of the cut pipe, approx. 3/4" from the edge (See Figure 7).



7.5 Draw the epoxy tape around the pipe with slight and uniform tension, to a slight overlapping. If there is a gap, loosen both sides separately and draw the tape with higher tension until it overlaps (See Figure 8).



7.6 Fold the tape from the outside to the inside and press it tightly to the inside surface. The inside of the tape must fit without tension (See Figures 9 & 10).





Figure 11



Figure 12

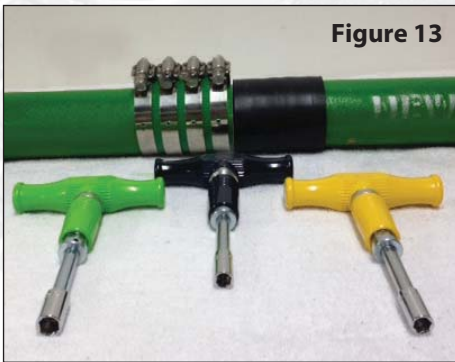


Figure 13

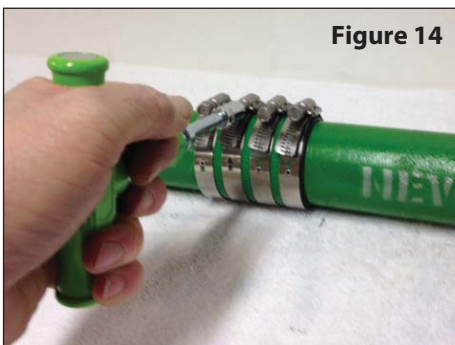


Figure 14

8. Heavy Duty & Extra Heavy Duty Shielded Coupling Installation

Important: NewAge Casting strongly recommends that its cast iron pipe and fittings only be joined with shielded Heavy duty couplings that are manufactured in accordance with ASTM C1540. Gaskets are made from 100% EPDM rubber when installed in an excessively corrosive environment.

8.1. Follow these guidelines for joining NewAge heavy duty and extra heavy duty couplings to no-hub pipe and fittings in accordance with standard industry practice.

Note: Each city, state or region may have governing codes, engineering requirements, and local practices of the plumbing trade that must be followed.

8.2. A correctly calibrated torque wrench or power tool set at 80 inch-lb should always be used.

8.3. Use of unapproved tool voids warranty. If power tools are used, they must be calibrated to 80 inch-lb.

8.4. Inspect cut pipe for squareness and defects. Remove foreign debris from pipe interior and exterior.

8.5. Loosen the shielded coupling screws and separate from the rubber gasket (See Figure 11).

8.6. Place rubber gasket onto the end of one piece of pipe/fitting until the internal molded shoulder sits firmly against the end of the pipe (See Figure 12).

8.7. Insert the second piece of pipe/fitting into gasket, firmly placing both ends against the centerstop of the gasket (See Figure 13).

8.8. Ensure that the pipe/fittings to be joined are aligned. Slide and center loose coupling over the gasket so that the gasket is completely covered.

8.9. Tighten the shield using the appropriate torque sequence (as defined below) to 80 inch-lb. (See Figure 14).

8.9.1. For sizes 1-1/2" to 4", tighten inner clamp 2 and 3 alternately in 20 inch-lb increments until the recommended 80 inch-lb is reached. Then tighten outside clamp 1 and 4 alternately in 20 inch-lb increments until the recommended 80 inch-lb is reached (See Figure 15).

8.9.2. For sizes 5", 6", 8", 10", 12" and 15" tighten the inner clamps 3 and 4 alternately in 20 inch-lb increments until the recommended 80 inch-lb is reached. Then tighten middle clamp 2 and 5 alternately in 20 inch-lb increments until the recommended 80 inch-lb is reached. Then tighten outside clamps 1 and 6 alternately in 20 inch-lb increments until the recommended 80 inch-lb is reached (See Figure 16).

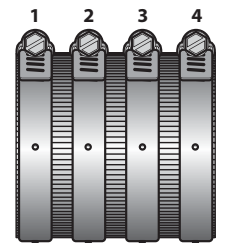


Figure 15

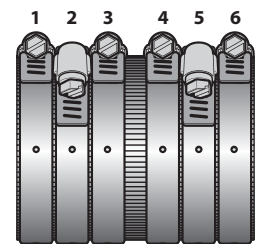


Figure 16

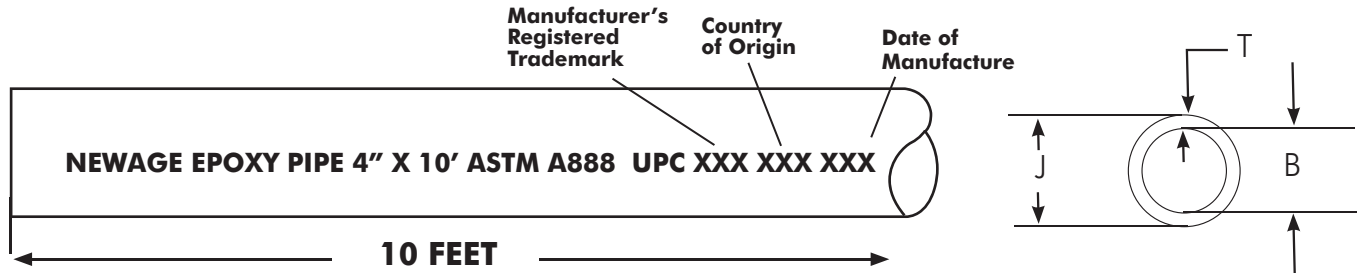
9. Hub and Spigot Installation

Note: Gasket and lead/oakum joints are both acceptable.

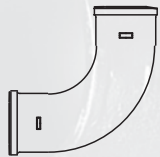
9.1. Complete all steps in Section 6 and make the joint connection per industry standard.



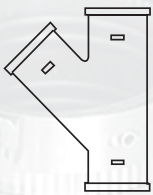
NEWAGE EPOXY SUBMITTAL



NO-HUB PIPE 10 FEET				
NOM	B	J	T	
SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	NOM.	MIN.
1 1/2	1.50 ± 0.09	1.90 ± 0.06	0.16	0.13
2	1.96 ± 0.09	2.35 ± 0.09	0.16	0.13
3	2.96 ± 0.09	3.35 ± 0.09	0.16	0.13
4	3.94 ± 0.09	4.38 ± 0.09	0.19	0.15
5	4.94 ± 0.09	5.30 ± 0.09	0.19	0.15
6	5.94 ± 0.09	6.30 ± 0.09	0.19	0.15
8	7.94 ± 0.13	8.38 ± 0.09	0.23	0.17
10	10.00 ± 0.13	10.56 ± 0.09	0.28	0.22
12	11.94 ± 0.13	12.50 ± 0.13	0.28	0.22
15	15.11 ± 0.13	15.83 ± 0.13	0.36	0.30

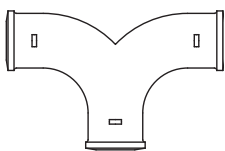


Quarter Bend

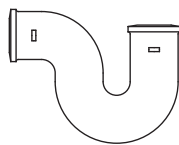


Wye

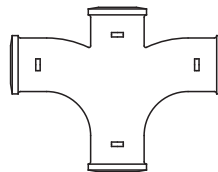
- Certified to conform to ASTM A 888, most recent revision, Standard Specification for Hubless Cast Iron Soil Pipe and Fittings.
- Certified to conform to CISPI 301 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings.
- Foundries are **ISO9001** CERTIFIED
- NewAge Soil Pipe Products No-Hub Cast Iron Soil Pipe and Fittings certified by –
UPC
IPC
- Two part epoxy spray on coating shall have 5 mil minimum interior thickness for superior adhesion, chemical (acidic and alkali) resistance, durability, fire resistance, heat resistance and superior flow characteristics.
- Two part epoxy is tested to be non reactive from 2pH – 12pH. The epoxy coating will not sag, cold flow or become soft. The two part epoxy resists cavitation and cathodic disbondment.



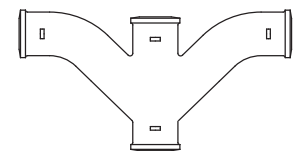
Double Quarter Bend



**P-Trap
w/1/2" Primer Tap**



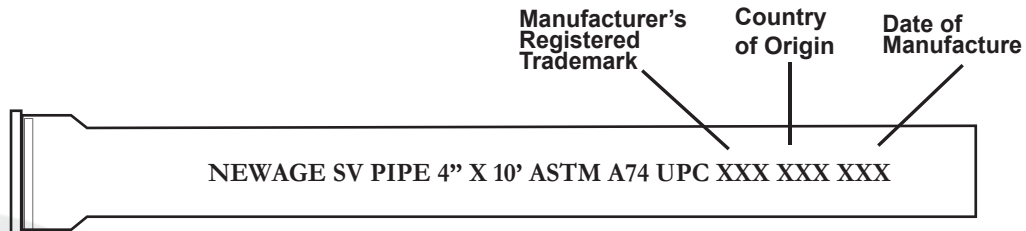
San Cross



**Double Combination
Wye & 1/8" Bend**



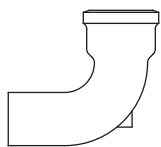
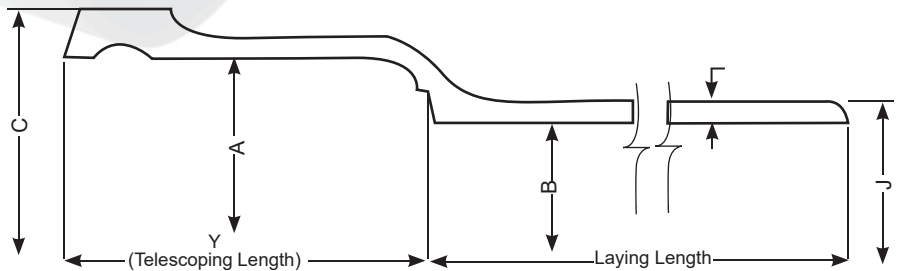
CAST IRON HUB AND SPIGOT SOIL PIPE AND FITTING SUBMITTAL



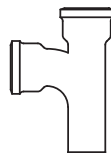
NOM SIZE.	INSIDE DIAMETER HUB		INSIDE DIAMETER BARREL		C	OUTSIDE DIA. OF BARREL		THICKNESS OF BARREL		TELESCOPING LENGTH	
	A	B	B	C		J	T-NOM	T-MIN	Y	Y	
2	2.94	±0.06	1.96	±0.09	3.62	2.30	±0.09	0.17	0.14	2.50	±0.06
3	3.94	+0.09 -0.06	2.96	±0.09	4.68	3.30	±0.09	0.17	0.14	2.75	±0.06
4	4.94	+0.09 -0.06	3.94	±0.09	5.68	4.30	±0.09	0.18	0.15	3.00	±0.06
5	5.94	+0.09 -0.06	4.94	±0.09	6.68	5.30	±0.09	0.18	0.15	3.00	±0.06
6	6.94	+0.09 -0.06	5.94	±0.09	7.68	6.30	±0.09	0.18	0.15	3.00	±0.06
8	9.25	±0.13	7.94	±0.13	10.13	8.38	±0.13	0.23	0.17	3.50	±0.13
10	11.38	±0.13	9.94	±0.13	12.44	10.50	±0.13	0.28	0.22	3.50	±0.13
12	13.50	±0.13	11.94	±0.19	14.56	12.50	±0.19	0.28	0.22	4.25	±0.19
15	16.95	±0.13	15.16	±0.19	18.11	15.88	±0.19	0.36	0.30	4.25	±0.19

- Certified to conform to ASTM A74, most recent revision, Standard Specification for Cast Iron Soil Pipe and Fittings.
- NewAge Casting Service weight joints are joined by lead and oakum or compression gasket which conform to ASTM C564.
- Foundries are **ISO9001** CERTIFIED
- NewAge Soil Pipe Products No-Hub Cast Iron Soil Pipe and Fittings certified by -
UPC

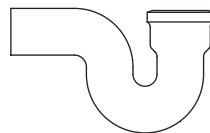
ICC-ES-PMC
IPC



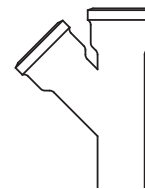
Short Sweep Bend - 90°



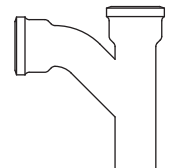
Sanitary Tee



P-Trap



Wye

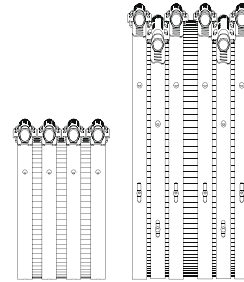


Combination WYE and 1/8 Bend

NEWAGE EXTRA HEAVY DUTY COUPLINGS SUBMITTAL

Certifications & Standards

- Meets ASTM C 1540
- Meets ASTM C 564
- Meets CSA B 602
- Products are IAPMO and CSA Listed



Material Specification

Screw Type 305 AISI Stainless steel 3/8"

Shield Type 304 AISI Stainless steel, corrugated. Shield thickness 008"

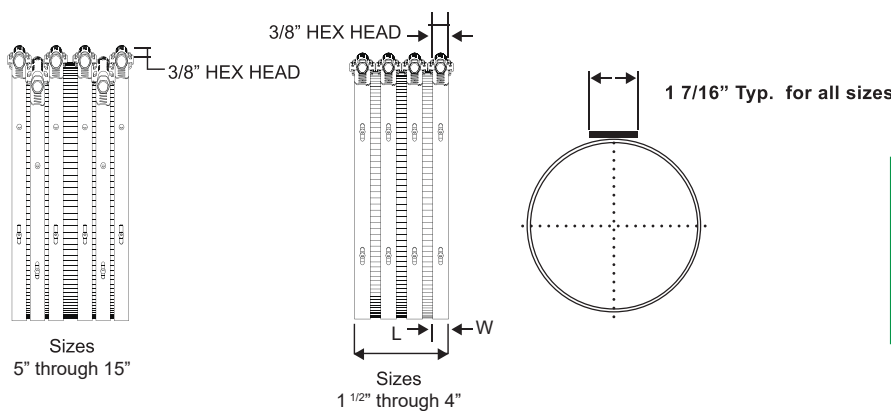
Bands Type 304 AISI Stainless steel

Gasket Primary Elastomeric Polymer is Neoprene to meet ASTM C564

Screw housing Type 304 AISI stainless steel

Technical Specification

The NewAge Extra Heavy (XH) Duty Couplings compliment the NewAge Cast Iron Soil Pipe System. The NewAge XH Couplings are manufactured and tested to meet and exceed the ASTM C1540 standard. The gasket is made from properly vulcanized virgin elastomeric compound, where the primary material is polychloroprene (neoprene). The gasket is a one piece design tested to meet the physical requirements of ASTM C564. The corrugated shield is made from Type 304 stainless steel and provides a sturdy design which is to be installed with a pre-set torque wrench calibrated at 80 inch-pounds to accommodate the 3/8" hex head screws, four (1-1/2" through 4") and six (5" through 15") respectively. The stainless steel bands are of 3/4" wide with 304 stainless steel screw housing provides sealing torque. The couplings are tested to ASTM C1540 and are listed with IAPMO.

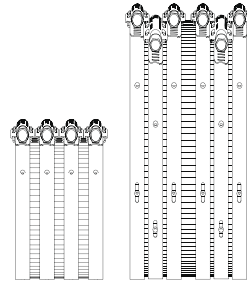


Size	Width	No. of Bands	Torque
1 1/2" - 4"	3.0"	4	80 in-lbs
5" & 6"	4.0"	6	80 in-lbs
8" & 10"	4.0"	6	80 in-lbs
12" & 15"	5.5"	6	80 in-lbs

NEWAGE EPDM EXTRA HEAVY DUTY COUPLINGS SUBMITTAL

Certifications & Standards

- Meets ASTM C 1540 excluding gasket material
- Meets CSA B 602
- Products are IAPMO and CSA Listed



Material Specification

Screw Type 305 AISI Stainless steel 3/8"

Shield Type 304 AISI Stainless steel, corrugated. Shield thickness 008"

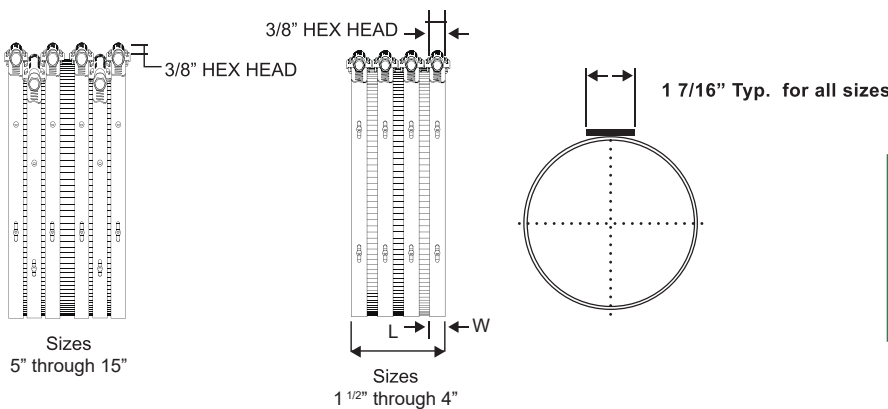
Bands Type 304 AISI Stainless steel

Gasket Primary Elastomeric Polymer is EPDM

Screw housing Type 304 AISI stainless steel

Technical Specification

The NewAge EPDM Extra Heavy (XH) Duty Couplings compliment the NewAge Epoxy System. The NewAge EPDM XH Couplings are manufactured and tested to meet and exceed the ASTM C1540 excluding the gasket material portion of the standard. The gasket is made from ethylene propylene diene monomer and is a gasket of one piece design tested to meet the physical requirements of ASTM C564. The corrugated shield is made from Type 304 stainless steel and provides a sturdy design which is to be installed w/ a pre-set torque wrench calibrated at 80 inch-pounds to accommodate the 3/8" hex head screws, four (1-1/2" through 4") and six (5" through 15") respectively. The stainless steel bands of 3/4" width with 304 stainless steel screw housing provides sealing torque. The couplings are tested to ASTM C1540.



Size	Width	No. of Bands	Torque
1 1/2" - 4"	3.0"	4	80 in-lbs
5" & 6"	4.0"	6	80 in-lbs
8" & 10"	4.0"	6	80 in-lbs
12" & 15"	5.5"	6	80 in-lbs

NEW AGE MULTI-SEAL COMPRESSION GASKET SUBMITTAL

DESCRIPTION:

Newage multi-seal is a one piece compression gasket. It is used for joining hub and spigot cast iron soil pipe and fitting made according to ASTM A74.

GASKET SPECIFICATION:

Newage multi-seal gaskets conform strictly to ASTM Standard C 564, most recent revision.

JOINT CHARACTERISTICS:

Gasket joints maintain seal to 5 degrees maximum joint deflection or when subjected to vibration, seismic tremors, expansion, contraction, external or internal test pressure.

BRACING:

To prevent movement, horizontal pipe and fittings 5" and larger should be suitably braced by the use of blocks, rods or other suitable methods at every branch or change of direction.

TEST:

For best results, test one floor (ten feet) at the time. If more than one floor at a time is tested, the system should be properly restrained; all bends, changes of directions, and end of runs should be restrained.

Gasket Material:

NewAge Multi-Seal Gasket are made of Neoprene as the sole elastomer. The physical characteristics of the Neoprene ensure that the gasket will not decay or deteriorate from contact with effluents in the pipe or chemical in the soil or air around the pipe.

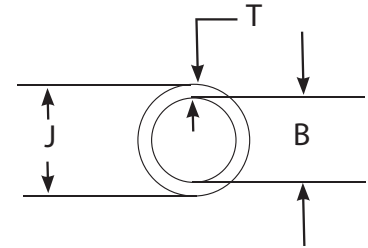
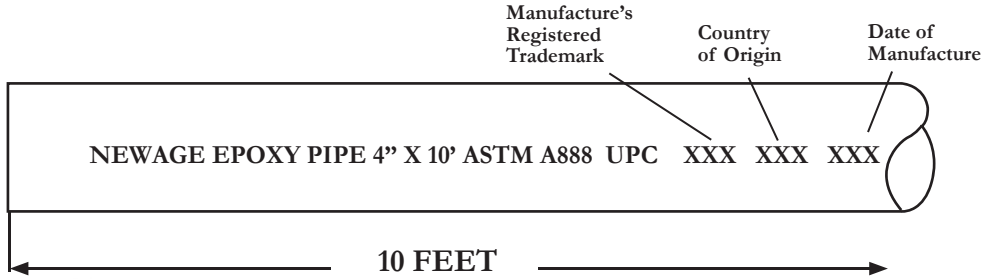
SV MULTI-SEAL GASKETS			
SIZE	UNIT WT	CARTON QTY	CARTON WT
2"	0.27	150	40
3"	0.39	75	29
4"	0.50	60	30
5"	0.77	30	23
6"	0.87	30	26
8"	1.70	20	34
10"	2.50	10	25
12"	3.10	10	31
15"	4.60	5	23

PHYSICAL PROPERTIES		
PROPERTY	PERFORMANCE REQUIRED	ASTM TEST METHOD
Hardness Shore A	60 + 5	D2240
Elongation, min, percent	300	D412
Tensile strength, min, psi	1500	D412
Tear Resistance, min, lbf/in.	150	D624
Compression set, max, percent	25	D395
Heat aging, 96h at 158° ± 2° F		D573
Hardness, increase, max	10	-
Loss in Tensile strength, max, %	15	-
Loss in elongation, max, %	20	-
Water Absorption:		D471
Weight increase, max, %	20	-
Ozone Resistance	No Cracks	D1149



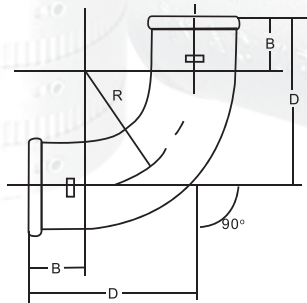
How to Specify:
 All 2"-6" hub and spigot cast iron soil pipe and fittings shall conform to ASTM A74; joints shall be made by compression gaskets that conform to ASTM C564

NEWAGE EPOXY CATALOG



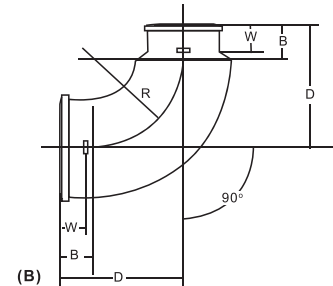
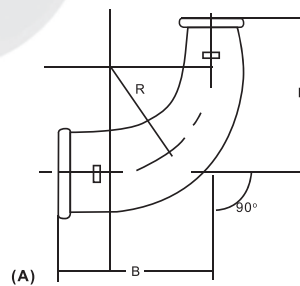
NO - HUB PIPE 10 FOOT

SIZE	B	J	NOM T	MIN	WEIGHT
1 1/2	1.50	1.90	0.16	0.13	28.4
2	1.96	2.35	0.16	0.13	36.3
3	2.96	3.35	0.16	0.13	52.1
4	3.94	4.38	0.19	0.15	77.2
5	4.94	5.30	0.19	0.15	95.6
6	5.94	6.30	0.19	0.15	113.5
8	7.94	8.38	0.23	0.17	181.9
10	10.00	10.56	0.28	0.22	275.0
12	11.94	12.50	0.28	0.22	350.0
15	15.11	15.83	0.36	0.30	542.0



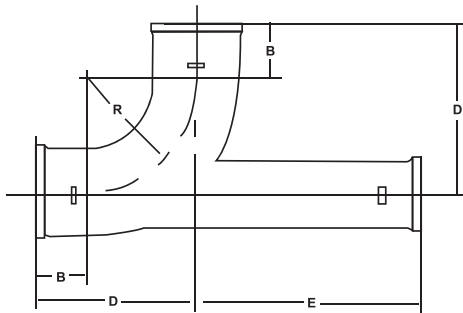
1/4 BEND

SIZE	B	D	R
1 1/2	1 1/2	4 1/4	2 3/4
2	1 1/2	4 1/2	3
3	1 1/2	5	3 1/2
4	1 1/2	5 1/2	4
5	2	6 1/2	4 1/2
6	2	7	5
8	2 1/2	8 1/2	6



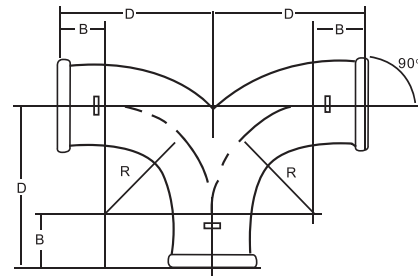
REDUCING 1/4 BEND

SIZE	B	D	R	W
4 x 3	1 1/2	5 1/2	3 1/2	1 1/8
4 x 3	1 1/2	5 1/2	4	1 1/8



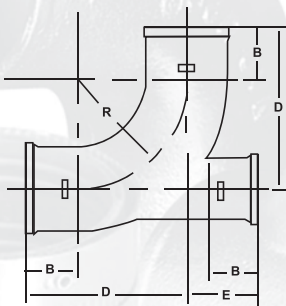
1/4 BEND WITH HEEL OPENING EXTENDED

SIZE	B	D	E	R
3x2	1 1/2	5	10 1/2	3 1/2
4x2	1 1/2	5 1/2	11 5/8	4



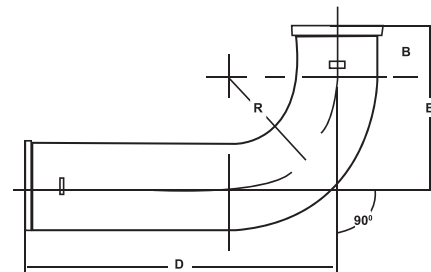
DOUBLE 1/4 BEND

PART #	SIZE	B	D	R
220402	2	1 1/2	4 1/2	3
220404	3	1 1/2	5	3 1/2
220406	4	1 1/2	5 1/2	4



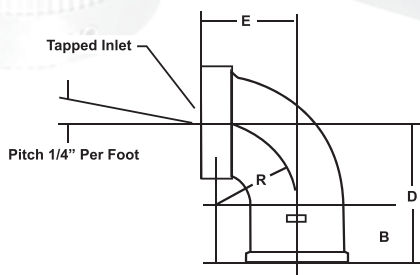
1/4 BEND WITH HEEL OPENING

SIZE	B	D	E	R
3 x 2	1 1/2	5	2 7/8	3 1/2
4 x 2	1 1/2	5 1/2	3 1/4	4



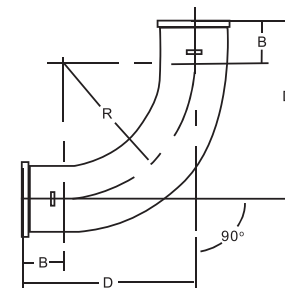
LONG 1/4 BEND

PART #	SIZE	B	D	E	R
0425	2 x 18	1 1/2	18	4 1/2	3



TAPPED 1/4 BEND

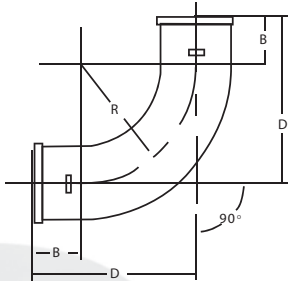
SIZE	B	D	E	R	TAP
1 1/2 x 1 1/4	1 1/2	3	2	1 3/4	1 1/4
1 1/2 x 1 1/2	1 1/2	3	2	1 3/4	1 1/2
2 x 1 1/2	1 1/2	3 1/4	2 1/4	1 3/4	1 1/2
2 x 2	1 1/2	3 1/4	2 1/4	1 3/4	2



LONG SWEEP (1/4 BEND)

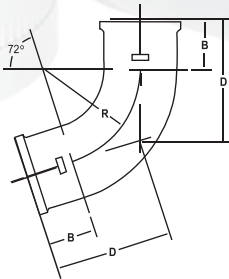
SIZE	B	D	R
1 1/2	1 1/2	9 1/4	7 3/4
2	1 1/2	9 1/2	8
3	1 1/2	10	8 1/2
4	1 1/2	10 1/2	9
5	2	11 1/2	9 1/2
6	2	12	10





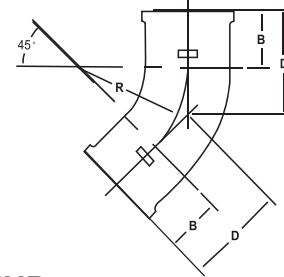
SHORT SWEEP (1/4 BEND)

SIZE	B	D	R
2	1 1/2	6 1/2	5
3	1 1/2	7	5 1/2
4	1 1/2	7 1/2	6
5	2	8 1/2	6 1/2
6	2	9	7
8	2 1/2	10 1/2	8
10	3	12	9
12	3 1/2	13 1/2	10
15	3 1/2	14 1/2	11 1/2



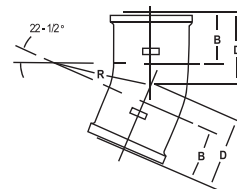
1/5 BEND

SIZE	B	D	R
2	1 1/2	3 11/16	3
3	1 1/2	4 1/16	3 1/2
4	1 1/2	4 7/16	4



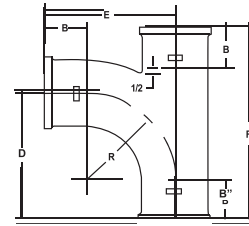
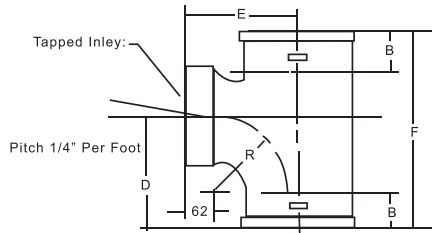
1/8 BEND

SIZE	B	D	R
1 1/2	1 1/2	2 5/8	2 3/4
2	1 1/2	2 3/4	3
3	1 1/2	3	3 1/2
4	1 1/2	3 1/8	4
5	2	3 7/8	4 1/2
6	2	4 1/16	5
8	2 1/2	5	6
10	3	5 15/16	7
12	3 1/4	6 9/16	8
15	3 1/4	7 3/16	9 1/2



1/16 BEND

SIZE	B	D	R
1 1/2	1 1/2	2 1/8	2 3/4
2	1 1/2	2 1/8	3
3	1 1/2	2 1/4	3 1/2
4	1 1/2	2 5/16	4
5	2	2 7/8	4 1/2
6	2	3	5
8	2 1/2	3 3/4	6

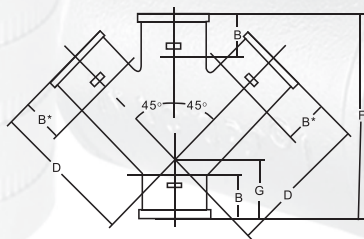


SANITARY TAP TEE

SIZE	B	D	E	F	R	TAP
1 1/2 x 1 1/4	1 1/2	3 1/4	2 9/16	5 11/16	1 3/4	1 1/4
1 1/2 x 1 1/2	1 1/2	3 1/4	2 9/16	5 11/16	1 3/4	1 1/2
2 x 1 1/4	1 1/2	3 1/4	2 13/16	5 11/16	1 3/4	1 1/4
2 x 1 1/2	1 1/2	3 1/4	2 13/16	5 11/16	1 3/4	1 1/2
2 x 2	1 1/2	3 3/4	3 1/16	6 3/8	2 1/4	2
3 x 1 1/2	1 1/2	3 1/4	3 5/16	5 11/16	1 3/4	1 1/2
3 x 2	1 1/2	3 3/4	3 9/16	6 3/8	2 1/4	2
3 x 3	1 1/2	4 7/8	4 3/16	8	3 1/2	3
4 x 1 1/2	1 1/2	3 1/4	3 13/16	5 11/16	1 3/4	1 1/2
4 x 2	1 1/2	3 3/4	4 1/16	6 3/8	2 1/4	2

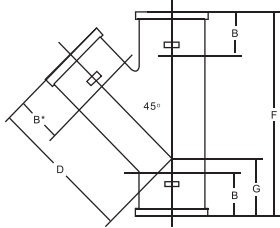
SANITARY TEE

SIZE	B	B''	D	E	F	R
1 1/2	1 1/2	1 1/2	4 1/4	4 1/4	6 1/2	2 3/4
2 x 1 1/2	1 1/2	1 1/2	4 1/4	4 1/2	6 5/8	2 3/4
2	1 1/2	1 1/2	4 1/2	4 1/2	6 7/8	3
3 x 1 1/2	1 1/2	1 1/2	4 1/4	5	6 1/2	2 3/4
3 x 2	1 1/2	1 1/2	4 1/2	5	6 7/8	3
3	1 1/2	1 1/2	5	5	8	3 1/2
4 x 2	1 1/2	1 1/2	4 1/2	5 1/2	6 7/8	3
4 x 3	1 1/2	1 1/2	5	5 1/2	8	3 1/2
4	1 1/2	1 1/2	5 1/2	5 1/2	9 1/8	4
5 x 2	2	1 1/2	5	6 1/2	8 1/2	3
5 x 3	2	1 1/2	5 1/2	6	9 5/16	3 1/2
5 x 4	2	1 1/2	6	6	10 13/32	4
5	2	2	6 1/2	6 1/2	11 7/16	4 1/2
6 x 2	2	1 1/2	5	6 1/2	8 3/16	3
6 x 4	2	1 1/2	6	6 1/2	10 11/16	4
6 x 5	2	2	6 1/2	7	11 1/2	4 1/2
6	2	2	7	7	12 1/2	5
6 x 3	2	1 1/2	5 1/2	6 1/2	9 3/16	3 1/2
8 x 3	2 1/2	1 1/2	6	7 1/2	10 3/8	3 1/2
8 x 4	2 1/2	1 1/2	6 1/2	7 1/2	11 1/2	4
8 x 5	2 1/2	2	7	8	12 1/2	4 1/2
8 x 6	2 1/2	2	7 1/2	8	13 1/2	5
8	2 1/2	2 1/2	8 1/2	8 1/2	15 1/2	6



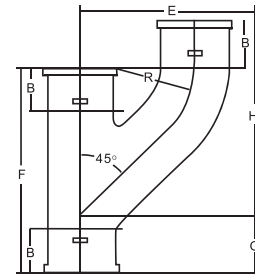
DOUBLE WYE

SIZE	B	B*	D	F	G
2	1 1/2	1 1/2	4 5/8	6 5/8	2
3 x 2	1 1/2	1 1/2	5 5/16	6 5/8	1 1/2
3	1 1/2	1 1/2	5 3/4	8	2 1/4
4 x 2	1 1/2	1 1/2	6	6 5/8	1
4 x 3	1 1/2	1 1/2	6 1/2	8	1 11/16
4	1 1/2	1 1/2	7 1/16	9 1/2	2 7/16
6 x 4	2	1 1/2	9 1/4	11 3/16	1 15/16
6	2	2	10 3/4	14 1/16	3 5/16
8 x 6	2 1/2	2 3/4	11 13/16	14 13/16	2 5/16
8	2 1/2	3 1/4	13 3/8	17 1/8	3 3/4



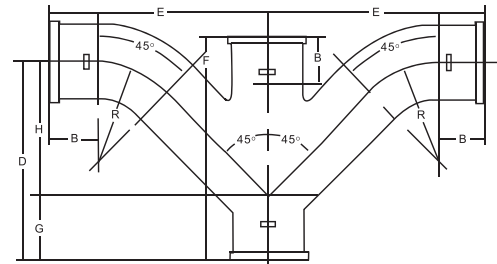
WYE

SIZE	B	B*	D	F	G
1 1/2	1 1/2	1 1/2	4	6	2
2	1 1/2	1 1/2	4 5/8	6 5/8	2
3 x 2	1 1/2	1 1/2	5 5/16	6 5/8	1 1/2
3	1 1/2	1 1/2	5 3/4	8	2 1/4
4 x 2	1 1/2	1 1/2	6	6 5/8	1
4 x 3	1 1/2	1 1/2	6 1/2	8	1 11/16
4	1 1/2	1 1/2	7 1/16	9 1/2	2 7/16
5 x 2	2	1 1/2	7 1/2	8 1/16	15/16
5 x 3	2	1 1/2	8	9 11/16	1 11/16
5 x 4	2	1 1/2	8 1/2	11 3/16	2 7/16
5	2	2	9 1/2	12 5/8	3 1/8
6 x 2	2	1 1/2	8 1/4	8 5/16	1/2
6 x 3	2	1 1/2	8 3/4	9 3/4	1 1/4
6 x 4	2	1 1/2	9 1/4	11 3/16	1 15/16
6 x 5	2	2	10 1/4	12 1/2	2 9/16
6	2	2	10 3/4	14 1/16	3 5/16
8 x 2	2 1/2	2 1/4	9 3/8	8 1/2	9/16
8 x 3	2 1/2	2 1/4	9 13/16	9 15/16	1/8
8 x 4	2 1/2	2 1/4	10 3/8	11 7/16	15/16
8 x 5	2 1/2	2 3/4	11 3/8	12 13/16	1 5/8
8 x 6	2 1/2	2 3/4	11 13/16	14 3/16	2 5/16
8	2 1/2	3 1/4	13 3/8	17 1/8	3 3/4
10 x 4	3	2 1/2	11 11/16	12 5/8	3/4
10 x 6	3	2	13 1/8	15 7/16	2 3/16
10 x 8	3	2 1/2	14 11/16	18 3/8	3 5/8
10	3	3	16 1/2	21 1/2	5 1/6
12	3 1/4	3 1/4	19 3/4	25 1/2	5 3/4
15	3 1/4	3 1/4	23 1/4	30	6 3/4



UPRIGHT WYE

SIZE	B	E	F	G	H	R
2	1 1/2	5 1/2	7	2	8 1/4	3
3 x 2	1 1/2	5 1/2	7	1 1/2	8 3/16	3
3	1 1/2	5 1/2	8 3/8	2 3/16	8 7/16	3 1/2
4 x 2	1 1/2	5 1/2	7	1	8 1/4	3
4 x 3	1 1/2	5 1/2	8 3/8	1 11/16	8 7/16	3 1/2
4	1 1/2	6	9 3/4	2 7/16	9 1/8	4



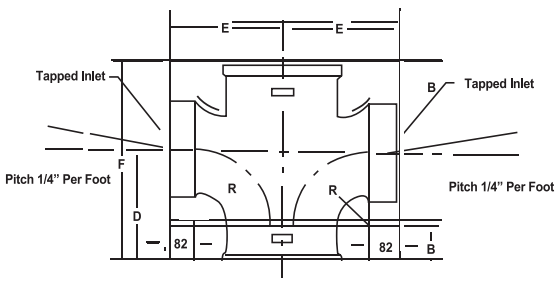
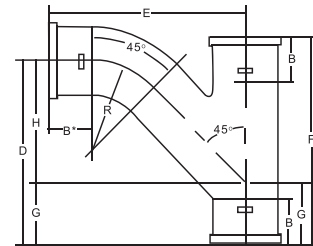
DOUBLE COMBINATION WYE AND 1/8 BEND

SIZE	B	D	E	F	G	H	R
2	1 1/2	5 3/8	6 1/8	6 5/8	2	3 3/8	3
3 x 2	1 1/2	5 1/2	6 3/4	6 5/8	1 1/2	4	3
3	1 1/2	7 5/16	8	8	2 1/4	5 1/16	3 1/2
4 x 2	1 1/2	5 1/2	7 1/4	6 5/8	1	4 1/2	3
4 x 3	1 1/2	7 1/4	8 1/2	8	1 1/16	5 9/14	3 1/2
4	1 1/2	9 1/4	10	9 1/2	2 7/16	6 13/16	4



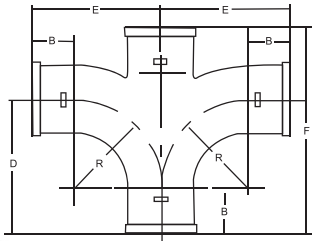
COMBINATION WYE AND 1/8 BEND

SIZE	B	B*	D	E	F	G	H	R
1 1/2	1 1/2	1 1/2	4 3/4	5 3/8	6	2	2 3/4	2 3/4
2 x 1 1/2	1 1/2	1 1/2	5 7/8	6 1/8	6	2	3	3
2	1 1/2	1 1/2	5 3/8	6 1/8	6 5/8	2	3 3/8	3
3 x 2	1 1/2	1 1/2	5 1/2	6 3/4	6 5/8	1 1/2	4	3
3	1 1/2	1 1/2	7 5/16	8	8	2 1/4	5 1/16	3 1/2
4 x 2	1 1/2	1 1/2	5 1/2	7 1/4	6 5/8	1	4 1/2	3
4 x 3	1 1/2	1 1/2	7 1/4	8 1/2	8	1 11/16	5 9/16	3 1/2
4	1 1/2	1 1/2	9 1/4	10	9 1/2	2 7/16	6 13/16	4
5 x 2	2	1 1/2	5 15/16	7 3/4	8 1/16	15/16	5	3
5 x 3	2	1 1/2	7 3/4	9	9 11/16	1 11/16	6 1/16	3 1/2
5 x 4	2	1 1/2	9 3/4	10 1/2	11 3/16	2 7/16	7 5/16	4
5	2	2	11 3/4	12 1/2	12 5/8	3 1/8	8 5/8	4 1/2
6 x 2	2	1 1/2	6	8 1/4	8 5/16	1/2	5 1/2	3
6 x 3	2	1 1/2	7 13/16	9 1/2	9 3/4	1 1/4	6 9/16	3 1/2
6 x 4	2	1 1/2	9 3/4	11	11 3/16	1 15/16	7 13/16	4
6 x 5	2	2	14 11/16	13	12 1/2	2 9/16	9 1/8	4 1/2
6	2	2	13 5/8	14 3/8	14 1/16	3 5/16	10 5/16	5
8 x 4	2 1/2	1 1/2	9 7/16	11 5/16	11 3/16	7/8	8 9/16	4
8 x 5	2 1/2	2	10 15/16	12 13/16	11 3/16	7/8	8 9/16	4
6 x 6	2 1/2	2	12	13 3/8	13 15/16	2 1/4	9 3/4	5
8	2 1/2	1 1/2	14 3/4	15 9/15	16 15/16	3 3/4	11	6



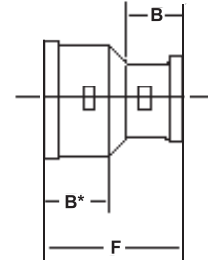
SANITARY TAP CROSS

SIZE	B	D	E	F	R	TAP
1 1/2 x 1 1/2	1 1/2	3 1/4	2 9/16	5 11/16	1 3/4	1 1/2
2 x 1 1/4	1 1/2	3 1/4	2 13/16	5 11/16	1 3/4	1 1/4
2 x 1 1/2	1 1/2	3 1/4	2 13/16	5 11/16	1 3/4	1 1/2
2 x 2	1 1/2	3 3/4	3 1/16	6 3/8	2 1/4	2
3 x 1 1/2	1 1/2	3 1/4	3 5/16	5 11/16	1 3/4	1 1/2
3 x 2	1 1/2	3 3/4	3 9/16	6 3/8	2 1/4	2
4 x 1 1/2	1 1/2	3 1/4	3 13/16	5 11/16	1 3/4	1 1/2



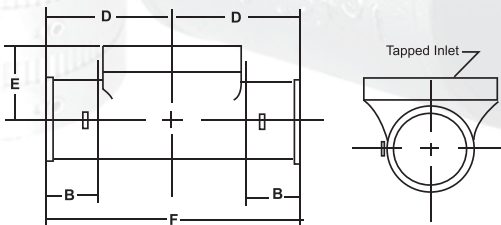
SANITARY CROSS

SIZE	B	D	E	F	R
1 1/2	1 1/2	4 1/4	4 1/4	6 1/2	2 3/4
2	1 1/2	4 1/2	4 1/2	6 7/8	3
3 x 2	1 1/2	4 1/2	5	6 7/8	3
3	1 1/2	5	5	8	3 1/2
4 x 2	1 1/2	4 1/2	5 1/2	6 7/8	3
4 x 3	1 1/2	5	5 1/2	8	3 1/2
4	1 1/2	5 1/2	5 1/2	9 1/8	4
6 x 4	2	6	6 1/2	10 1/16	4
6	2	7	10 1/16	7	5
8 x 4	2 1/2	7 1/2	11 1/2	6 1/2	4



SHORT INCREASER REDUCER

SIZE	B	B*	F
2 x 1 1/2	1 1/2	1 1/2	3 5/8
3 x 2	1 1/2	1 1/2	3 5/8
4 x 2	1 1/2	1 1/2	3 5/8
4 x 3	1 1/2	1 1/2	3 5/8
5 x 2	1 1/2	2	4
5 x 3	1 1/2	2	4
5 x 4	1 1/2	2	4
6 x 2	1 1/2	2	4
6 x 3	1 1/2	2	4
6 x 4	1 1/2	2	4
6 x 5	2	2	4 1/2
8 x 2	1 1/2	2	4 1/2
8 x 3	1 1/2	2	4 1/2
8 x 4	1 1/2	2	4 1/2
8 x 5	2	2	5
8 x 6	2	2	5
10 x 4	1 1/2	3	5 1/2
10 x 6	2	3	6
10 x 8	2	3	6
12 x 4	1 1/2	3 1/4	6 1/2
12 x 6	2	3 1/4	6 1/2
12 x 8	2 1/2	3 1/4	7
12 x 10	3	3 1/4	7 1/2
15 x 4	1 1/2	3 1/4	7
15 x 6	2	3 1/4	7
15 x 8	2 1/2	3 1/4	7
15 x 10	3	3 1/4	7 1/2
15 x 12	3 1/4	3 1/4	7 3/4



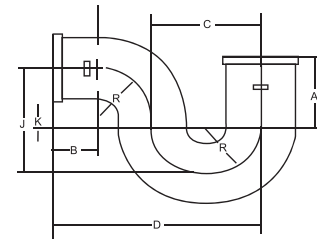
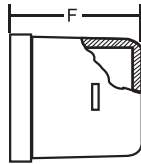
TEST TEE

SIZE	B	D	E	F	TAP
2	1 1/2	3 3/16	2	6 3/8	2
3	1 1/2	3 7/8	2 11/16	7 3/4	3
4	1 1/2	4 7/16	3	8 7/8	4
5	2	5 3/4	4 1/2	11 1/2	5
6	2	6 1/4	5	12 1/2	6
8	8	7 5/8	6	15 1/4	8
10	4	10	6 1/2	20	10



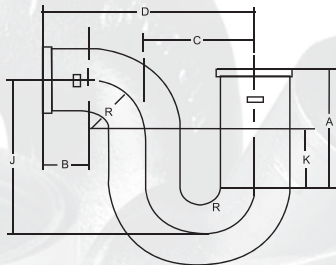
BLIND PLUG

SIZE	F
1 1/2	1 3/4
2	1 3/4
3	1 3/4
4	1 3/4
6	1 3/4
8	2 1/4
10	3
12	3 1/2
15	3 1/2



P-TRAP

SIZE	A	B	C	D	J	K
2	2	1 1/2	4	7 1/2	4	0
3	3 1/4	1 1/2	5	9	5 1/2	1/2
4	4	1 1/2	6	10 1/2	6 1/2	1/2



DEEP SEAL P-TRAP

SIZE	A	B	C	D	J	K	R
2	5	1 1/2	4	7 1/2	7	3	2
3	4 1/2	1 1/2	5	9	7	2	2 1/2
4	5	1 1/2	6	10 1/2	8	2	3

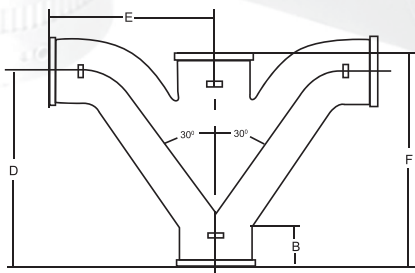
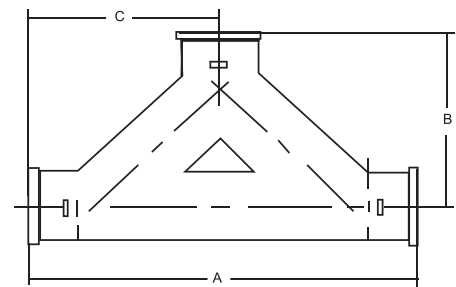


FIGURE FIVE (COMB)

SIZE	B	D	E	F
2	1 1/2	6 1/2	5	8
3x2x3x3	1 1/2	8 7/8	6 9/16	9 1/4
3	1 1/2	8 7/8	6 9/16	10 1/8
4x2x4x4	1 1/2	10 1/4	7 3/4	11 1/2
4	1 1/2	10 1/4	7 3/4	12



TWO WAY BAFFLE CLEANOUT

SIZE	A	B	C
3 x 3 x 4	15	9	7 1/2
4 x 3 x 4	19 1/2	9 1/2	9 1/8
4 x 4 x 4	18 3/4	9 1/2	9 1/8

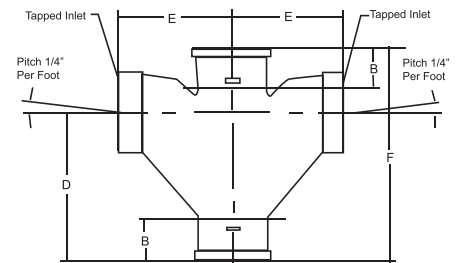
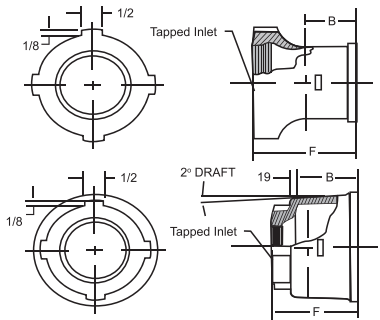


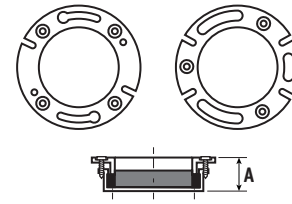
FIGURE ONE (TAP CROSS)

SIZE	B	C	D	E	F	TAP
2 x 1 1/2	1 1/2	2 1/8	4 7/8	3 3/16	7	1 1/2



TAP ADAPTER/FERRULE

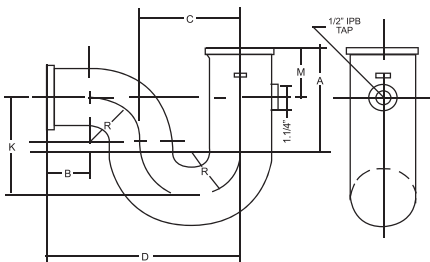
SIZE	B	F	TAP
2 x 1 1/2"	1 1/2	2 3/16	1 1/2
2	1 1/2	2 5/8	2



NEOPRENE GASKET

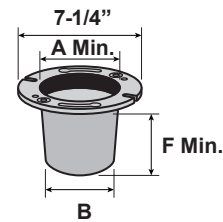
CLOSET FLANGE MECHANICAL

SIZE	A	WEIGHT
4 x 2	2	5.6



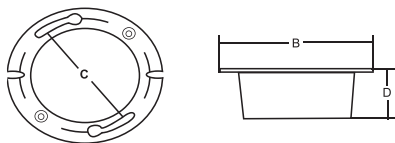
P - T W/ 1/2" PRIMER TAP

SIZE	A	B	C	D	J	K	R	M
2	2	1 1/2	4	7 1/2	4	0	2	2
3	3 1/4	1 1/2	5	9	5 1/2	1/2	2 1/2	2
4	4	1 1/2	6	10 1/2	6 1/2	1/2	3	2



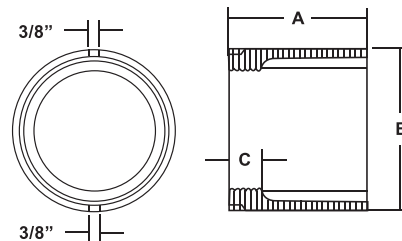
CLOSET FLANGE RISER

SIZE	A	B	F	WEIGHT
4 x 2	4	3	3-1/2	4



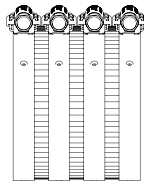
CLOSET FLANGES

SIZE	B	D	C
4 x 2	7 1/4	2	6 1/4
4 x 3	7 1/4	3	6 1/4
4 x 4	7 1/4	4	6 1/4

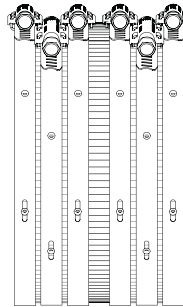


CLEANOUT FERRULE (I.B.C.O.)

SIZE	A	B	TAP
2	2 3/16	2 3/8	1 1/2
3	2 3/16	3 3/8	2 1/2
4	2 3/16	4 7/16	3 1/2
6	4 1/2	6 5/16	5



Size 1 1/2" - 4"



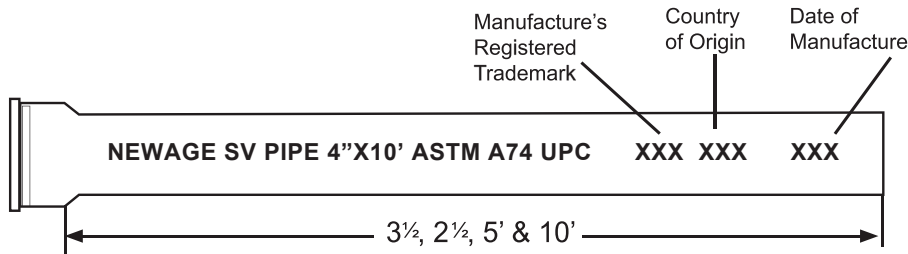
Size 5" - 15"

**EXTRA HEAVY DUTY
STAINLESS STEEL COUPLING**

SIZE	ITEM CODE	# OF BANDS PER COUPLING	INSTALLATION TORQUE (in. lbs.)
1 1/2	XHDC150	4	80
2	XHDC200	4	80
3	XHDC300	4	80
4	XHDC400	4	80
5	XHDC500	6	80
6	XHDC600	6	80
8	XHDC800	6	80
10	XHDC1000	6	80
12	XHDC1200	6	80
15	XHDC1500	6	80

**EPDM EXTRA HEAVY DUTY
STAINLESS STEEL COUPLING**

SIZE	ITEM CODE	# OF BANDS PER COUPLING	INSTALLATION TORQUE (in. lbs.)
1 1/2	EXHDC150	4	80
2	EXHDC200	4	80
3	EXHDC300	4	80
4	EXHDC400	4	80
5	EXHDC500	6	80
6	EXHDC600	6	80
8	EXHDC800	6	80
10	EXHDC1000	6	80
12	EXHDC1200	6	80
15	EXHDC1500	6	80



SINGLE HUB 3.5 FT PIPE

PART #	SIZE	Piece per Bundle	WEIGHT
SVP02S35	2 x 3.5	56	15.00
SVP03S35	3 x 3.5	40	23.00
SVP04S35	4 x 3.5	27	30.00
SVP05S35	5 x 3.5	21	39.00
SVP06S35	6 x 3.5	18	45.00
SVP08S35	8 x 3.5	10	72.00
SVP10S35	10 x 3.5	6	106.00
SVP12S35	12 x 3.5	6	135.00
SVP15S35	15 x 3.5	2	184.00

SINGLE HUB 10 FT PIPE

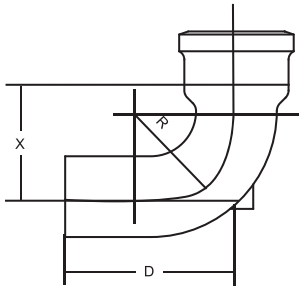
PART #	SIZE	Piece per Bundle	WEIGHT
SVP02S10	2 x 10	64	35.00
SVP03S10	3 x 10	33	52.00
SVP04S10	4 x 10	27	76.00
SVP05S10	5 x 10	21	97.00
SVP06S10	6 x 10	18	128.00
SVP08S10	8 x 10	10	190.00
SVP10S10	10 x 10	6	270.00
SVP12S10	12 x 10	6	325.00
SVP15S10	15 x 10	2	465.00

SINGLE HUB 5 FT PIPE

PART #	SIZE	Piece per Bundle	WEIGHT
SVP02S05	2 x 5	64	22.48
SVP03S05	3 x 5	33	31.83
SVP04S05	4 x 5	27	44.80
SVP05S05	5 x 5	21	57.60
SVP06S05	6 x 5	18	69.16
SVP08S05	8 x 5	10	101.01
SVP10S05	10 x 5	6	150.87
SVP12S05	12 x 5	6	185.72
SVP15S05	15 x 5	2	287.48

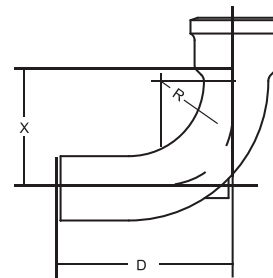
DOUBLE HUB 2.5 FT PIPE

PART #	SIZE	Piece per Bundle	WEIGHT
SVP02D25	2 x 2.5	60	22.00
SVP03D25	3 x 2.5	TBA	31.83
SVP04D25	4 x 2.5	27	44.80



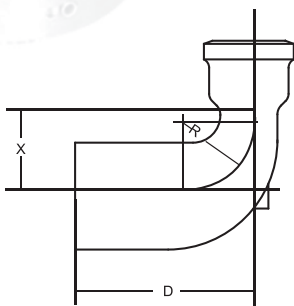
1/4 BEND* 90°

PART #	SIZE	D	R	X
SVFO4B20	2	6	3	3 1/4
SVFO4B30	3	7	3 1/2	4
SVFO4B40	4	8	4	4
SVFO4B50	5	8 1/2	4 1/2	5
SVFO4B60	6	9	5	5 1/2
SVFO4B80	8	11 1/2	6	6 5/8
SVFO4B100	10	12 1/2	7	7 5/8
SVFO4B120	12	15	8	8 3/4
SVFO4B150	15	16 1/2	9 1/2	10 1/4



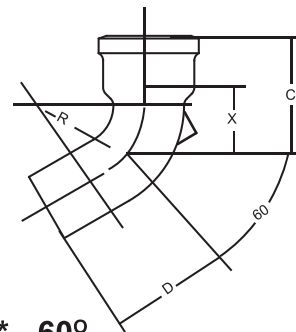
SHORT SWEEP BEND* - 90°

PART #	SIZE	D	R	X
SVFSSB20	2	8	5	5 1/4
SVFSSB30	3	9	5 1/2	6
SVFSSB40	4	10	6	6 1/2
SVFSSB50	5	10 1/2	6 1/2	7
SVFSSB60	6	11	7	7 1/2
SVFSSB80	8	13 1/2	8	8 5/8
SVFSSB100	10	14 1/2	9	9 5/8
SVFSSB120	12	17	10	10 3/4



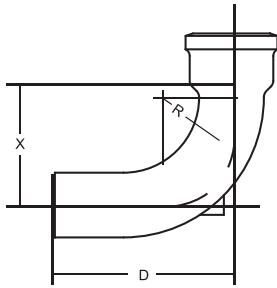
REDUCING* 1/4 BEND * - 90°

PART #	SIZE	D	R	X
SVF04B420	4 x 2	7	3 1/4	3 3/4



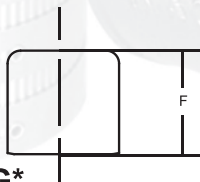
1/6 BEND* - 60°

PART #	SIZE	C	D	R	X
SVF06B20	2	4 1/2	4 3/4	3	2
SVF06B30	3	5 1/4	5 1/2	3 1/2	2 1/2
SVF06B40	4	5 13/16	6 5/16	4	2 13/16
SVF06B50	5	6 1/8	6 5/8	4 1/2	3 1/8
SVF06B60	6	6 3/8	6 7/8	5	3 3/8
SVF06B80	8	7 5/8	9	6	4 1/8
SVF06B10	10	8 3/16	9 9/16	7	4 11/16



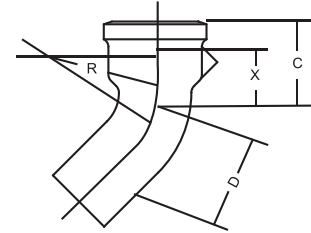
LONG SWEEP BEND* - 90°

PART #	SIZE	D	R	X
SVFLSB20	2	11	8	8 1/4
SVFLSB30	3	12	8 1/2	9
SVFLSB40	4	13	9	9 1/2
SVFLSB50	5	13 1/2	9 1/2	10
SVFLSB60	6	14	10	10 1/2
SVFLSB80	8	16 1/2	11	11 5/8
SVFLSB100	10	17 1/2	12	12 5/8
SVFLSB120	12	20	13	13 3/4
SVFLSB150	15	21 1/2	14 1/2	15 1/4



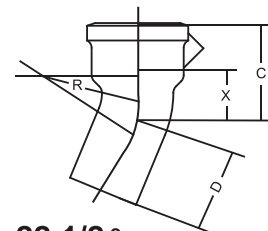
BLIND PLUG*

PART #	SIZE	F
SVFPLG20	2	3 1/2
SVFPLG30	3	3 3/4
SVFPLG40	4	4
SVFPLG50	5	4
SVFPLG60	6	4
SVFPLG80	8	4 1/2
SVFPLG100	10	4 1/2
SVFPLG120	12	5 1/4
SVFPLG150	15	5 1/4



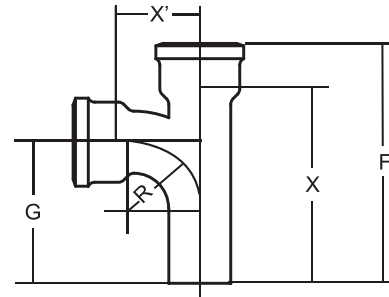
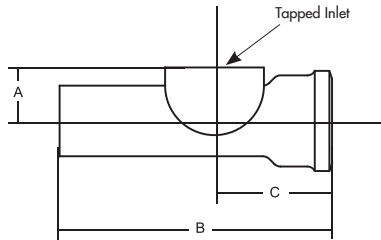
1/8 BEND* - 45°

PART #	SIZE	C	D	R	X
SVFO8B20	2	4	4 1/4	3	1 1/2
SVFO8B30	3	4 1/16	4 15/16	3 1/2	1 15/16
SVFO8B40	4	5 3/16	5 11/16	4	2 3/16
SVFO8B50	5	5 3/8	5 7/8	4 1/2	2 3/8
SVFO8B60	6	5 9/16	6 1/16	5	2 9/16
SVFO8B80	8	6 5/8	8	6	3 1/8
SVFO8B100	10	7	8 3/8	7	3 1/2
SVFO8B120	12	8 5/16	10 5/16	8	4 1/16
SVFO8B150	15	8 15/16	10 5/16	9 1/2	4 11/16



1/16 BEND* - 22 1/2°

PART #	SIZE	C	D	R	X
SVF16B20	2	3 3/8	3 5/8	3	7/8
SVF16B30	3	3 15/16	4 3/16	3 1/2	1 3/16
SVF16B40	4	4 5/16	4 13/16	4	1 5/16
SVF16B50	5	4 3/8	4 7/8	4 1/2	1 3/8
SVF16B60	6	4 1/2	5	5	1 1/2
SVF16B80	8	5 5/16	6 11/16	6	1 13/16
SVF16B100	10	5 1/2	6 7/8	7	2
SVF16B120	12	6 5/8	8 7/8	8	2 3/8
SVF16B150	15	6 7/8	8 7/8	9 1/2	2 5/8

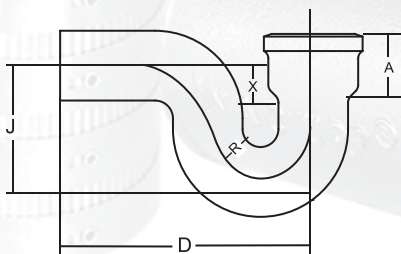


TEST TEE W/OUT BRASS PLUG*

PART #	SIZE	A	B	C	TAP
SVFTTE20	2	2	10 3/8	4 1/4	2
SVFTTE30	3	2 11/16	12 3/4	5 1/2	3
SVFTTE40	4	3	13 7/8	6	4
SVFTTE50	5	4 1/2	15	7 1/8	5
SVFTTE60	6	5	16	7 1/8	6
SVFTTE80	8	6	20 1/2	9 1/2	8
SVFTTE100	10	6 1/2	20 1/2	9 7/8	10

SANITARY TEE*

PART #	SIZE	F	G	R	X	X'
SVFSTE20	2	10 1/2	6 1/4	2 1/2	8	2 3/4
SVFSTE32	3 x 2	11 3/4	7	3	9	4
SVFSTE30	3	12 3/4	7 1/2	3 1/2	10	4
SVFSTE42	4 x 2	12	7	3	9	4 1/2
SVFSTE43	4 x 3	13	7 1/2	3 1/2	10	4 1/2
SVFSTE40	4	14	8	4	11	4 1/2
SVFSTE54	5 x 4	14	8	4	11	5
SVFSTE50	5	15	8 1/2	4 1/2	12	5
SVFSTE62	6 x 2	12	7	3	9	5 1/2
SVFSTE63	6 x 3	13	7 1/2	3 1/2	10	5 1/2
SVFSTE64	6 x 4	14	8	4	11	5 1/2
SVFSTE60	6	16	9	5	13	5 1/2
SVFSTE84	8 x 4	16 1/2	9 3/4	4	13	6 1/2
SVFSTE86	8 x 6	18 1/2	10 3/4	5	15	6 1/2
SVFSTE80	8	20 1/2	11 3/4	6	17	6 5/8
SVFSTE104	10 x 4	16 1/2	9 3/4	4	13	7 1/2
SVFSTE106	10 x 6	18 1/2	10 3/4	5	15	7 1/2
SVFSTE108	10 x 8	20 1/2	11 3/4	6	17	7 5/8
SVFSTE110	10	22 1/2	12 3/4	7	19	7 5/8
SVFSTE126	12 x 6	20 3/4	12	5	16 1/2	8 1/2
SVFSTE128	12 x 8	22 3/4	13	6	18 1/2	8 5/8
SVFSTE120	12 x 10	24 3/4	14	7	20 1/2	8 5/8
SVFSTE122	12	26 3/4	15	8	22 1/2	8 3/4
SVFSTE150	15	29 3/4	16 1/2	9 1/2	25 1/2	10 1/4



PLAIN- P TRAP*

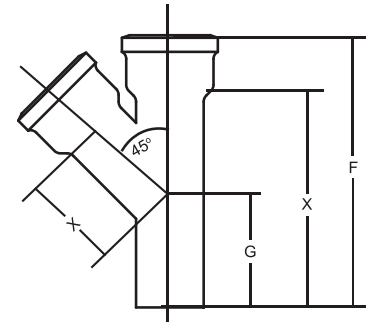
PART #	SIZE	A	D	J	X
SVFPTPO20	2	3	9 1/2	4	1 1/2
SVFPTPO30	3	4 1/2	12	5 1/2	1 1/4
SVFPTPO40	4	5 1/2	14	6 1/2	1
SVFPTPO50	5	6 1/2	15 1/2	7 1/2	1 5/8
SVFPTPO60	6	7 1/2	17	8 1/2	1 7/8
SVFPTPO80	8	10 1/2	22 1/16	11	2 1/4
SVFPTPO100	10	13	25	14 3/8	3





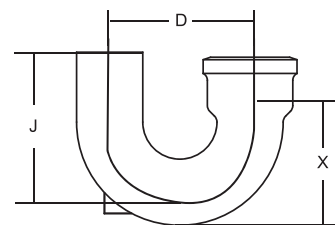
WYE*

PART #	Size	F	G	X	X'
SVFWYE20	2	10 1/2	4	8	4
SVFWYE32	3 x 2	11 3/4	4 3/16	9	5
SVFWYE30	3	13 1/4	5	10 1/2	5 1/2
SVFWYE42	4 x 2	12	3 5/8	9	5 3/4
SVFWYE43	4 x 3	13 1/2	4 7/16	10 1/2	6 1/4
SVFWYE40	4	15	5 1/4	12	9
SVFWYE52	5 x 2	12	3 1/8	9	6 1/2
SVFWYE53	5 x 3	13 1/2	3 7/8	10 1/2	7
SVFWYE54	5 x 4	15	4 11/16	12	7 1/2
SVFWYE50	5	16 1/2	5 1/2	13 1/2	8
SVFWYE62	6 x 2	12	2 9/16	9	7 1/4
SVFWYE63	6 x 3	13 1/2	3 3/8	10 1/2	7 3/4
SVFWYE64	6 x 4	15	4 3/16	12	8 1/4
SVFWYE65	6 x 5	16 1/2	4 15/16	13 1/2	8 3/4
SVFWYE60	6	18	5 3/4	15	9 1/4
SVFWYE82	8 x 2	14	3 1/8	10 1/2	8 1/2
SVFWYE83	8 x 3	15 1/2	3 15/16	12	9
SVFWYE84	8 x 4	17	4 3/4	13 1/2	9 1/2
SVFWYE85	8 x 5	18 1/2	5 1/2	15	10
SVFWYE86	8 x 6	20	6 5/16	16 1/2	10 1/2
SVFWYE80	8	23	7 11/16	19 1/2	11 13/16
SVFWYE103	10 x 3	15 1/2	2 3/4	12	10 3/4
SVFWYE104	10 x 4	17	3 9/16	13 1/2	11 1/8
SVFWYE105	10 x 5	18 1/2	4 5/16	15	11 5/8
SVFWYE106	10 x 6	20	5 1/2	16 1/2	12 1/8
SVFWYE108	10 x 8	23	6 1/2	19 1/2	13 7/18
SVFWYE100	10	26	8	22 1/2	14 1/2
SVFWYE124	12 x 4	19 1/4	4 1/8	15 1/2	12 7/8
SVFWYE125	12 x 5	20 3/4	4 7/8	16 1/2	12 15/16
SVFWYE126	12 x 6	22 1/4	5 11/16	18	13 7/16
SVFWYE128	12 x 8	25 1/4	7 1/16	21	14 3/4



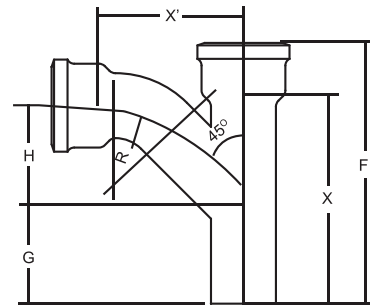
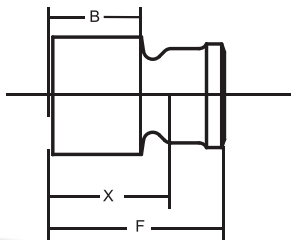
WYE* (continued)

PART #	Size	F	G	X	X'
SVFWYE1210	12 x 10	28 1/4	8 9/16	24	15 13/16
SVFWYE1200	12	31 1/4	10 1/8	27	16 7/8
SVFWYE1540	15 x 4	19 1/2	2 1/2	15 1/4	15
SVFWYE1560	15 x 6	22 1/4	4	18	15 3/4
SVFWYE1580	15 x 8	25 1/4	5 3/8	21	17 1/16
SVFWYE1510	15 x 10	28 1/4	6 7/8	24	18 1/8
SVFWYE1512	15 x 12	31 1/4	8 7/16	27	19 3/16
SVFWYE1500	15	35 3/4	10 3/4	31 1/2	20 3/4



SINGLE HUB RETURN BEND*

PART#	SIZE	D	J	X
SVFRBD03	3	7	7	6
SVFRBD04	4	7 1/2	7 3/16	6 3/8



REDUCER*

PART #	SIZE	B	F	X
SVFRED32	3 x 2	4 1/2	9	6
SVFRED42	4 x 2	4 1/2	9	6
SVFRED43	4 x 3	4 1/2	9	6
SVFRED52	5 x 2	4 1/2	9	6
SVFRED53	5 x 3	4 1/2	9 1/2	6
SVFRED54	5 x 4	5 1/4	9 1/2	6 1/2
SVFRED62	6 x 2	5 1/4	9 1/2	6 1/2
SVFRED63	6 x 3	5 1/4	9 1/2	6 1/2
SVFRED64	6 x 4	5 1/4	10	6 1/2
SVFRED65	6 x 5	5 1/4	10	6 1/2
SVFRED84	8 x 4	5 1/4	9 1/2	6 1/2
SVFRED85	8 x 5	5 1/4	10	6 1/2
SVFRED86	8 x 6	5 1/4	10	6 1/2
SVFRED104	10 x 4	5 1/4	10 3/4	6 1/2

COMBINATION WYE & 1/8 BEND*

PART#	SIZE#	F	G	H	R	X	X'
SVFCOM20	2	10 1/2	4	3 3/8	3	8	4 7/8
SVFCOM32	3 x 2	11 3/4	4 3/16	4	3	9	5 3/4
SVFCOM30	3	13 1/4	5	5 1/16	3 1/2	10 1/2	7
SVFCOM42	4 x 2	12	3 11/16	4 1/2	3	9	6 1/4
SVFCOM43	4 x 3	3 1/2	4 1/2	5 9/16	3 1/2	10 1/2	7 1/2
SVFCOM40	4	15	5 1/4	6 13/16	4	12	9
SVFCOM52	5 x 2	12	3 1/2	5	3	9	6 3/4
SVFCOM53	5 x 3	13 1/2	4	6 1/16	3 1/2	10	8
SVFCOM54	5 x 4	15	4 1/4	7 5/16	4	12	9 1/2
SVFCOM50	5	16 1/2	5 1/2	8 5/8	4 1/2	13 1/2	11
SVFCOM62	6 x 2	18	2 11/16	5 1/2	3	9	7 1/4
SVFCOM63	6 x 3	17	3 1/16	6 9/16	3 1/2	10 1/4	8 1/2
SVFCOM64	6 x 4	20	4 1/4	7 13/16	4	12	10
SVFCOM65	6 x 5	23	5 1/16	9 1/16	4 1/2	13 1/2	11 1/2
SVFCOM60	6	-	5 3/4	10 5/16	5	15	12 7/8
SVFCOM84	8 x 4	-	4 3/4	8 13/16	4	13 1/2	11
SVFCOM86	8 x 6	-	6 5/16	11 5/16	5	16 1/2	13 7/8
SVFCOM80	8	-	7 11/16	13 7/8	6	19 1/2	17

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