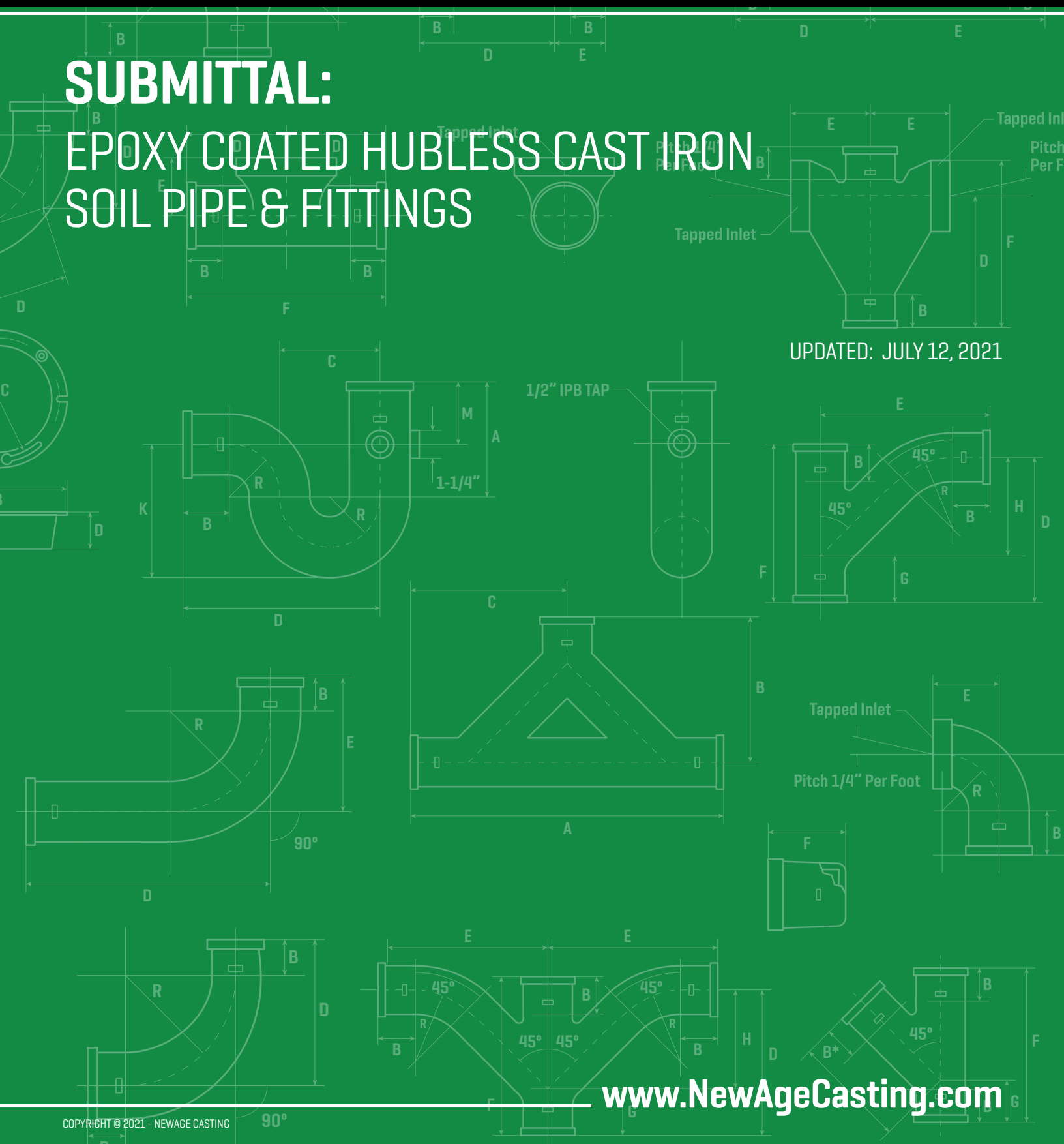


SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

UPDATED: JULY 12, 2021





SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

Welcome to the NewAge

12630 West Airport Blvd., Suite 100 • Sugar Land, Texas 77478 • Phone: 281.565.0928 • Fax: 281.565.0929 • Toll Free: 1-866.791.7055 • E-Mail: info@newagecasting.com

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Date: _____ Engineer: _____ Job Name: _____

Contractor: _____ Location: _____

EPOXY COATED HUBLESS PIPE & FITTINGS STANDARDS & CERTIFICATIONS

Epoxy coated hubless cast iron soil pipe and fittings are utilized in drain, waste and vent (DWV) and sewer and storm drainage lines. This system is intended to be used in non-pressurized, gravity-based applications.

All epoxy coated hubless cast iron soil pipe and fittings shall be third party certified to comply with the most recent version of ASTM A 888 and CISPI 301 including Annex A1. All pipe and fittings shall bare the marking requirements of ASTM A 888 and CISPI 301.

The interior of the hubless cast iron soil pipe shall be bored for smoothness and have a minimum of 5 mil thickness epoxy coating. The exterior of the hubless pipe shall have a minimum of 2.5 mil thickness of resin coating. The epoxy coatings has superior adhesion, chemical (acidic and alkali) resistance, durability, fire resistance, heat resistance and superior flow characteristics. The epoxy coating will not sag, cold flow or become soft.

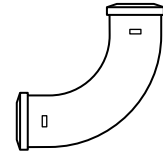
| | | LISTED AND CERTIFIED BY: | | |
|-----------|-----------|--------------------------|---|---|
| | | | | |
| STANDARDS | ASTM A888 | ✓ | ✓ | ✓ |
| | CISPI 301 | ✓ | ✓ | ✓ |

Product installation shall conform to the standard industry practices, and all applicable plumbing, fire and building code requirements. Following installation, it is recommended that the system be hydrostatically tested to ten feet of head or 4.3 PSI.

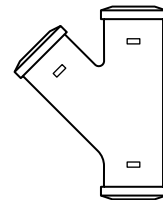
| HUBLESS PIPE 10 FOOT LAYING LENGTH | | | | |
|------------------------------------|----------------------|-----------------------|------|------|
| NOMINAL SIZE | B INSIDE DIAMETER | J OUTSIDE DIAMETER | T | |
| | | | NOM. | MIN. |
| 1-1/2 | 1.50 ± 0.09 | 1.90 ± 0.06 | 0.16 | 0.13 |
| 2 | 1.96 ± 0.09 | 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 ± .09 - .05 | 0.19 | 0.15 |
| 6 | 5.94 ± 0.09 | 6.30 ± .09 - .05 | 0.19 | 0.15 |
| 8 | 7.94 ± 0.13 | 8.38 ± .09 - .05 | 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 |

Per EN877 Coatings Requirements, the epoxy coated cast iron soil pipe shall be:

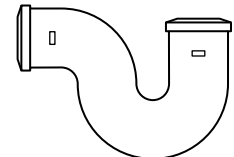
- Chemical resistant from 2 pH to 12 pH for 30 days at ambient temperature
- Resist hot water at 203°F for 24 hours
- Salt spray tested for 1,500 hours (NewAge Standard hours)
- Tested for temperature cycling by 1,500 cycles of 60°F and 203°F water
- Adhesion tested to achieve interior coating Level 1 and exterior coating Level 2 per EN ISO 2409.



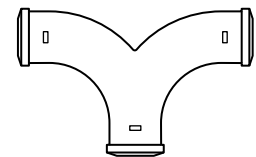
Quarter Bend



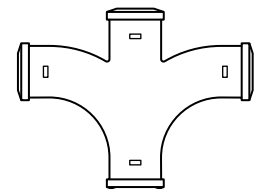
Wye



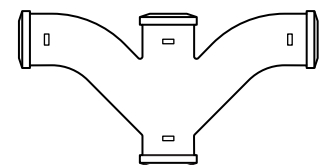
P-Trap



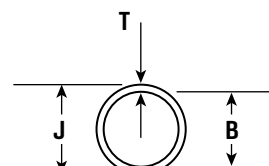
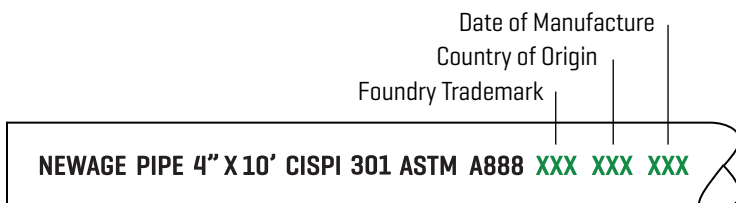
Double Quarter Bend



San Cross



Double Combination Wye





SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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STANDARDS CERTIFICATION

January 29, 2021

This is to certify that all Cast Iron Pipe, Fittings and Couplings sold by New Age Casting Company, meets, or exceeds all applicable standards listed below including the Annex A I:

NO-HUB PIPE AND FITTINGS

All cast iron pipe and fittings are available in traditional bituminous asphalt and our premium New Age Epoxy Coating for corrosion resistance.

ASTM A888

CISPI 301

- Listed by UPC
- Listed by ICC
- Listed by UL

SERVICE HUB AND SPIGOT PIPE AND FITTINGS

All cast iron pipe and fittings are available in traditional bituminous asphalt and our premium New Age Epoxy Coating for corrosion resistance.

ASTM A 74

- Listed by UPC
- Listed by ICC

NO-HUB STANDARD COUPLINGS

CISPI 310

ASTM C 1277

- Listed by UPC

NO-HUB J-IEA VY DUTY (HDC) COUPLINGS

ASTM C 1540

- Listed by UPC

NO-HUB EXTRA HEAVY DUTY (XI-ID) COUPLINGS

ASTM C 1540

- Listed by UPC

SERVICE WEIGHT GASKETS

ASTM C 564

ASTM C 1563

- Listed by UPC

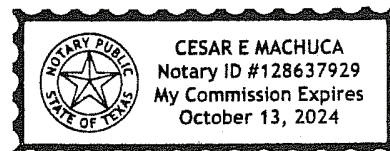
If there are any questions concerning this information or if copies of the certification documentation are needed, please contact your New Age Casting representative or your New Age Casting regional manager.

Sincerely,

Terry Muldowney
Technical Manager
NewAge Casting Company

1/29/2021

Notary Public





SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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REFERENCE STANDARDS

American Society for Testing and Materials

ASTM Description

A 74 Standard Specification for Cast Iron Soil Pipe and Fittings
SCOPE: This specification covers cast iron soil pipe and for use in gravity flow plumbing, drain, waste and vent sanitary, and storm water applications. This pipe and fittings are not intended for pressure applications as the selection of the proper size for sanitary drain, waste, vent, and storm drain systems allows free air space for gravity drainage.

A 888 Standard Specification for No Hub Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
SCOPE: This specification covers no hub cast iron soil pipe and fittings for use in gravity flow applications. This pipe and fittings are intended for non-pressure applications, as the selection of the proper size for sanitary drain, waste, vent, and storm drain systems allows free air space for gravity drainage.

C 564 Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
SCOPE: This specification covers preformed rubber gaskets used to seal joints in cast iron soil pipe and fittings.

C 1277 Standard Specification for Shielded Couplings Joining No Hub Cast Iron Soil Pipe and Fittings
SCOPE: It is the purpose of this specification to furnish information as to the characteristics of a sleeve type couplings when applied to cast iron soil pipe and fittings.

C 1540 Standard Specification for Heavy Duty Shielded Couplings Joining No Hub Cast Iron Soil Pipe and Fittings
SCOPE: This specification covers the evaluating of the performance of heavy duty shielded couplings to join no hub cast iron soil pipe and fittings.

Cast Iron Soil Pipe Institute

CISPI Description

301 STANDARD SPECIFICATION FOR NO HUB CAST IRON SOIL PIPE AND FITTINGS FOR SANITARY AND STORM DRAIN, WASTE, AND VENT PIPING APPLICATIONS
SCOPE: Identical to the ASTM A 888

310 SPECIFICATION FOR COUPLING FOR USE IN CONNECTION WITH NO HUB CAST IRON SOIL PIPE AND FITTINGS FOR SANITARY AND STORM DRAIN, WASTE, AND VENT PIPING APPLICATIONS.
Scope: Identical to the ASTM C 1277



SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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UL CERTIFICATION

CERTIFICATE OF COMPLIANCE

Certificate Number 20180502-MH62513
Report Reference MH62513-20171207
Issue Date 2018-May-02

Issued to: NewAge Casting, LP
12630 West Airport Blvd
Suite 100
Sugar Land TX 77478

This is to certify that representative samples of SOIL PIPE AND FITTINGS, CAST-IRON
See Addendum Page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ASTM A888, Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, including Annex A1
CISPI 301, Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications, including Annex A1

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations/>





SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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UPC A 888 CERTIFICATION

IAPMO RESEARCH AND TESTING, INC.

5001 E. Philadelphia Street, Ontario, CA 91761-2816 • (909) 472-4100 • Fax (909) 472-4244 • www.iapmort.org



IAPMO R&T Product Listing



This IAPMO R&T Listing is current as of 11/25/2019

Product: Cast Iron Soil Pipe and Fittings (Hubless) File No. 4818

Issued To: NEW AGE CASTING COMPANY
12630 WEST AIRPORT BOULEVARD
SUITE 100
SUGAR LAND, TX 77478

Identification: Each length of pipe and each fitting shall be plainly marked with the country of origin, the manufacturer's name or the manufacturer's registered trademark by which the manufacturer can be readily identified after installation and any appropriate collective mark (optional). The marking shall be adequate identification of the manufacturer of the pipe and fittings if it readily identifies the manufacturer to the end user of the product. Markings shall be cast on fittings. Pipe markings: The pipe shall be marked continuously on the barrel with a minimum of 0.75 inch (19mm) lettering starting within 3 inches of each end of the pipe. Each pipe shall be marked with the date of manufacture. The marking shall be stenciled on the pipe or otherwise applied so as to be clear and legible. Fitting markings: The marking shall be cast with raised letters that are not to be located within the "W" dimension. Cast markings shall be raised from the wall of the fitting unless otherwise noted. Listed products shall bear the UPC® certification mark.

Characteristics: Installed fittings and pipe must be IAPMO R&T listed and installed in accordance with the requirements of the latest edition of the Uniform Plumbing Code

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following code(s):

Uniform Plumbing Code (UPC®)
International Plumbing Code (IPC®)

Products are in compliance with the following standard(s):

ASTM A888-2018a (excluding Annex A1)

MODELS:

NO-HUB CAST IRON PIPE:

| Model No. | Size |
|-----------|--------|
| 156 | 1-1/2" |
| 158 | 2" |
| 160 | 3" |
| 162 | 4" |
| 164 | 5" |
| 168 | 6" |
| 170 | 8" |
| 171 | 10" |
| 172 | 12" |
| 173 | 15" |



SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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UPC CISPI 301 CERTIFICATION

IAPMO RESEARCH AND TESTING, INC.

5001 E. Philadelphia Street, Ontario, CA 91761-2816 • (909) 472-4100 • Fax (909) 472-4244 • www.iapmort.org



IAPMO R&T Product Listing



This IAPMO R&T Listing is current as of 5/1/2019

Product: Cast Iron Soil Pipe and Fittings (Hubless) File No. 7767

Issued To: NEW AGE CASTING COMPANY
12630 WEST AIRPORT BOULEVARD
SUITE 100
SUGAR LAND, TX 77478

Identification: Each length of pipe and each fitting shall be plainly marked with the country of origin, the manufacturer's name or the manufacturer's registered trademark by which the manufacturer can be readily identified after installation and any appropriate collective mark (optional). The marking shall be adequate identification of the manufacturer of the pipe and fittings of it readily identifies the manufacturer to the end user of the product. Markings shall be cast on fittings.

Characteristics: Hubless cast iron soil pipe and fittings for sanitary and storm drain, waste and vent piping application. To be used in gravity flow, non-pressure application. To be installed in accordance with the requirements of the latest edition of the Uniform Plumbing Code.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following code(s):

- Uniform Plumbing Code (UPC®)
- International Plumbing Code (IPC®)

Products are in compliance with the following standard(s):

- CISPI 301-2017 (excluding Annex A1)

MODELS:

NO-HUB CAST IRON PIPE:

| Model No. | Size |
|-----------|--------|
| 156 | 1-1/2" |
| 158 | 2" |
| 160 | 3" |
| 162 | 4" |
| 164 | 5" |
| 168 | 6" |
| 170 | 8" |
| 171 | 10" |
| 172 | 12" |
| 173 | 15" |

NO-HUB FITTINGS:

Short Sweep (MS) Long Sweep



SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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ICC CERTIFICATION



ICC-ES PMG Product Certificate

PMG-1220



Effective Date: November 2019

This listing is subject to re-examination in one year.

www.icc-es-pmg.org | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®

CSI: DIVISION: 22 00 00 – PLUMBING
Section: 22 13 16 – Sanitary Waste and Vent Piping
Section: 22 14 13 – Facility Storm Drainage Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Cast Iron Soil Pipe and Fittings
Listee: NEW AGE CASTING CO.
12630 West Airport Blvd, Suite 100
Sugar Land, Texas 77478
www.newagecasting.com

Compliance with the following codes:

2018, 2015, 2012 and 2009 *International Plumbing Code® (IPC)*
2018, 2015, 2012 and 2009 *International Residential Code® (IRC)*
2018, 2015, 2012 and 2009 *Uniform Plumbing Code® (UPC)**
**Uniform Plumbing Code is a copyrighted publication of the International Association of the Plumbing and Mechanical Officials*

Compliance with the following standards:

ASTM A888-2018a(excluding Annex A1), Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
CISPI 301-2012(excluding Annex A1), Standard Specification for Hubless Cast Iron Soil Pipe and Fittings For Sanitary and Storm Drain, Waste, and Vent Piping Applications

Identification:

Each length of pipe and each fitting shall be plainly marked with the country of origin, the manufacturer's name or the manufacturer's registered trademark by which the manufacturer can be readily identified after installation and any appropriate collective mark (optional). The marking shall be adequate identification of the manufacturer of the pipe and fittings of it readily identifies the manufacturer to the end user of the product. Markings shall be cast on fittings.

Pipe markings: The pipe shall be marked continuously on the barrel with a minimum of 0.75 inch (19mm) lettering starting within 3 inches of each end of the pipe. Each pipe shall be marked with the date of manufacture. The marking shall be stenciled on the pipe or otherwise applied so as to be clear and legible.

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.



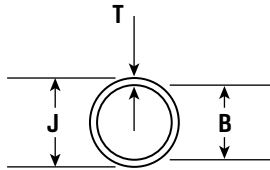
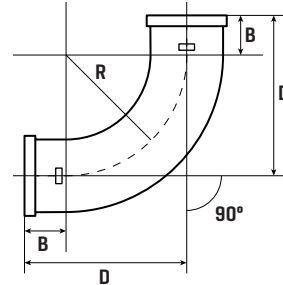
SUBMITTAL: EPOXY COATED HUBLESS CAST IRON SOIL PIPE & FITTINGS

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Date of Manufacture
Country of Origin
Foundry Trademark

NEWAGE PIPE 4" X 10' CISPI 301 ASTM A888 XXX XXX XXX

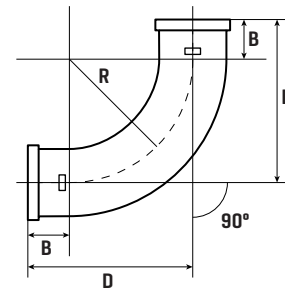


1/4 BEND

| PART# | SIZE | B | D | R |
|---------|-------|-------|-------|-------|
| 0220188 | 1-1/2 | 1-1/2 | 4-1/4 | 2-3/4 |
| 0220190 | 2 | 1-1/2 | 4-1/2 | 3 |
| 0220192 | 3 | 1-1/2 | 5 | 3-1/2 |
| 0220194 | 4 | 1-1/2 | 5-1/2 | 4 |
| 0220196 | 5 | 2 | 6-1/2 | 4-1/2 |
| 0220198 | 6 | 2 | 7 | 5 |
| 0220200 | 8 | 2-1/2 | 8-1/2 | 6 |

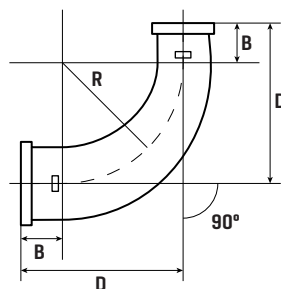
NO-HUB - 10 FOOT PIPE

| PART# | SIZE | B | J | NOM T | MIN |
|---------|-------|-------|-------|-------|------|
| 0220156 | 1-1/2 | 1.50 | 1.90 | 0.16 | 0.13 |
| 0220158 | 2 | 1.96 | 2.35 | 0.16 | 0.13 |
| 0220160 | 3 | 2.96 | 3.35 | 0.16 | 0.13 |
| 0220162 | 4 | 3.94 | 4.38 | 0.19 | 0.15 |
| 0220164 | 5 | 4.94 | 5.30 | 0.19 | 0.15 |
| 0220168 | 6 | 5.94 | 6.30 | 0.19 | 0.15 |
| 0220170 | 8 | 7.94 | 8.38 | 0.23 | 0.17 |
| 0220171 | 10 | 10.00 | 10.56 | 0.28 | 0.22 |
| 0220172 | 12 | 11.94 | 12.50 | 0.28 | 0.22 |
| 0220173 | 15 | 15.11 | 15.83 | 0.36 | 0.30 |



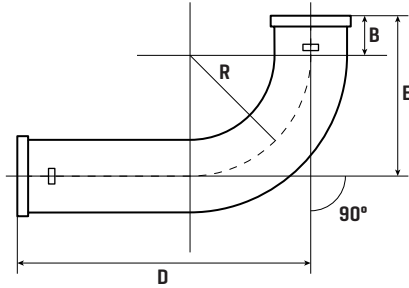
LONG SWEEP (1/4 BEND)

| PART# | SIZE | B | D | R |
|---------|-------|-------|--------|-------|
| 220492 | 1-1/2 | 1-1/2 | 9-1/4 | 7-3/4 |
| 220494 | 2 | 1-1/2 | 9-1/2 | 8 |
| 220496 | 3 | 1-1/2 | 10 | 8-1/2 |
| 220498 | 4 | 1-1/2 | 10-1/2 | 9 |
| 220500 | 5 | 2 | 11-1/2 | 9-1/2 |
| 220502 | 6 | 2 | 12 | 10 |
| 0220200 | 8 | 2-1/2 | 8-1/2 | 6 |



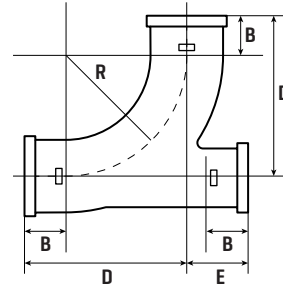
REDUCING 1/4 BEND

| PART# | SIZE | B | D | R | W |
|--------|-------|-------|-------|-------|-------|
| 220218 | 4 x 3 | 1-1/2 | 5 1/2 | 3-1/2 | 1-1/8 |



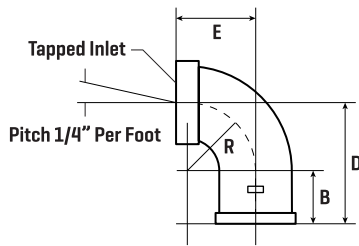
LONG 1/4 BEND

| PART# | SIZE | B | D | E | R |
|--------|--------|-------|----|-------|---|
| 220425 | 2 x 18 | 1-1/2 | 18 | 4-1/2 | 3 |



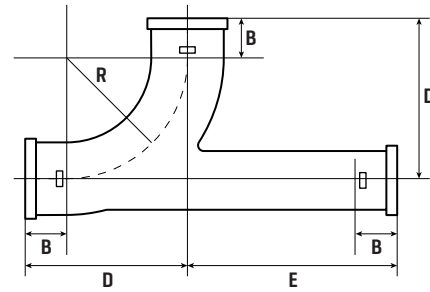
1/4 BEND WITH HEEL OPENING

| PART# | SIZE | B | D | E | R |
|--------|-------|-------|-------|-------|-------|
| 220280 | 3 x 2 | 1-1/2 | 5 | 2-7/8 | 3-1/2 |
| 220282 | 4 x 2 | 1-1/2 | 5-1/2 | 3-1/4 | 4 |



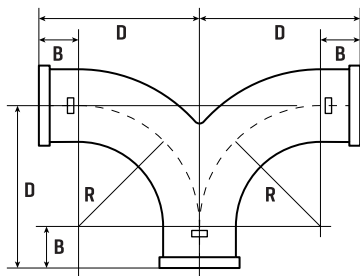
TAPPED 1/4 BEND

| PART# | SIZE | B | D | E | R | TAP |
|--------|---------------|-------|-------|-------|-------|-------|
| 220324 | 1-1/2 X 1-1/4 | 1-1/2 | 3 | 2 | 1-3/4 | 1-1/4 |
| 220326 | 1 1/2 X 1 1/2 | 1-1/2 | 3 | 2 | 1-3/4 | 1-1/2 |
| 220330 | 2 X 1-1/2 | 1-1/2 | 3-1/4 | 2-1/4 | 1-3/4 | 1-1/2 |
| 220332 | 2x2 | 1-1/2 | 3-1/4 | 2-1/4 | 1-3/4 | 2 |



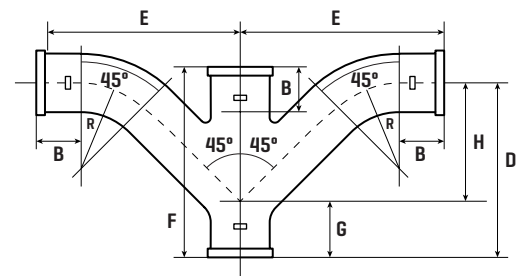
1/4 BEND WITH HEEL OPENING EXTENDED

| PART# | SIZE | B | D | E | R |
|--------|-------|-------|-------|--------|-------|
| 220275 | 3 x 2 | 1-1/2 | 5 | 10-1/2 | 3-1/2 |
| 220277 | 4 x 2 | 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 |



DOUBLE COMBINATION WYE AND 1/8 BEND

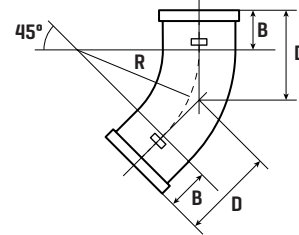
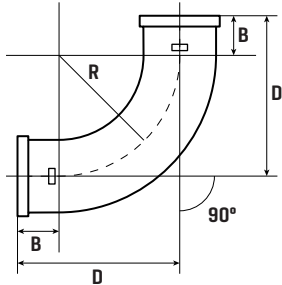
| PART# | SIZE | B | D | E | F | G | H | R |
|--------|-------|-------|--------|-------|-------|--------|---------|-------|
| 221802 | 2 | 1-1/2 | 5-3/8 | 6-1/8 | 6-5/8 | 2 | 3-3/8 | 3 |
| 221804 | 3 x 2 | 1-1/2 | 5-1/2 | 7-1/4 | 6-5/8 | 1-1/2 | 4 | 3 |
| 221806 | 2 | 1-1/2 | 7-5/16 | 8 | 8 | 2-1/4 | 5-1/16 | 3-1/2 |
| 221808 | 4 x 2 | 1-1/2 | 5-1/2 | 7-1/4 | 6-5/8 | 1 | 4-1/2 | 3 |
| 221810 | 4 x 3 | 1-1/2 | 7-1/4 | 8-1/2 | 8 | 1-1/16 | 5-9/16 | 3-1/2 |
| 221812 | 4 | 1-1/2 | 9-1/4 | 10 | 9-1/2 | 2-7/16 | 6-13/16 | 4 |



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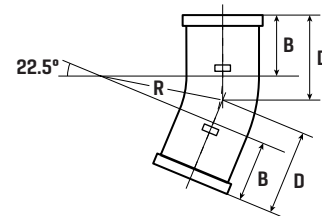
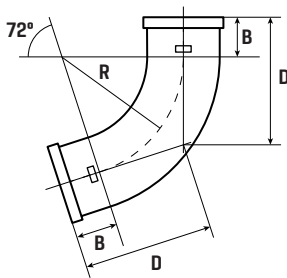


SHORT SWEEP 1/4 BEND

| PART# | SIZE | B | D | R |
|--------|------|-------|--------|--------|
| 220462 | 2 | 1-1/2 | 6-1/2 | 5 |
| 220464 | 3 | 1-1/2 | 7 | 5-1/2 |
| 220468 | 4 | 1-1/2 | 7-1/2 | 6 |
| 220470 | 5 | 2 | 8-1/2 | 6-1/2 |
| 220472 | 6 | 2 | 9 | 7 |
| 220474 | 8 | 2-1/2 | 10-1/2 | 8 |
| 220475 | 10 | 3 | 12 | 9 |
| 220476 | 12 | 3-1/2 | 13-1/2 | 10 |
| 220477 | 15 | 3-1/2 | 14-1/2 | 11-1/2 |

1/8 BEND

| PART# | SIZE | B | D | R |
|--------|-------|-------|---------|-------|
| 220604 | 1-1/2 | 1-1/2 | 2 5/8 | 2 3/4 |
| 220606 | 2 | 1-1/2 | 2 3/4 | 3 |
| 220608 | 3 | 1-1/2 | 3 | 3-1/2 |
| 220610 | 4 | 1-1/2 | 3-1/8 | 4 |
| 220612 | 5 | 2 | 3-7/8 | 4-1/2 |
| 220614 | 6 | 2 | 4-1/16 | 5 |
| 220616 | 8 | 2-1/2 | 5 | 6 |
| 220617 | 10 | 3 | 5-15/16 | 7 |
| 220618 | 12 | 3 1/4 | 6-9/16 | 8 |
| 220619 | 15 | 3 1/4 | 7-3/16 | 9-1/2 |



1/5 BEND

| PART# | SIZE | B | D | R |
|--------|------|-------|---------|-------|
| 220536 | 2 | 1-1/2 | 3-11/16 | 3 |
| 220538 | 3 | 1-1/2 | 4-1/16 | 3-1/2 |
| 220540 | 4 | 1-1/2 | 4-7/16 | 4 |

1/16 BEND

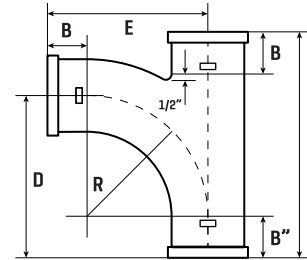
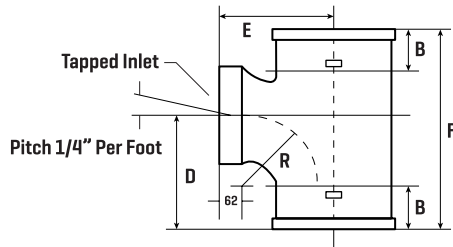
| PART# | SIZE | B | D | R |
|--------|-------|-------|--------|-------|
| 220676 | 1-1/2 | 1-1/2 | 2-1/8 | 2-3/4 |
| 220678 | 2 | 1-1/2 | 2-1/8 | 3 |
| 220680 | 3 | 1-1/2 | 2-1/4 | 3-1/2 |
| 220682 | 4 | 1-1/2 | 2 5/16 | 4 |
| 220684 | 5 | 2 | 2-7/8 | 4-1/2 |
| 220686 | 6 | 2 | 3 | 5 |
| 220688 | 8 | 2-1/2 | 3-3/4 | 6 |



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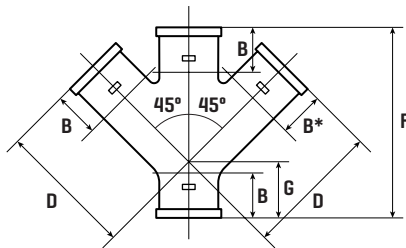


SANITARY TAP TEE

| PART# | SIZE | B | D | E | F | R | TAP |
|--------|---------------|-------|-------|---------|---------|-------|-------|
| 221208 | 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 |
| 221210 | 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 |
| 221212 | 2 X 1-1/4 | 1-1/2 | 3-1/4 | 2-13/16 | 5-11/16 | 1-3/4 | 1-1/4 |
| 221214 | 2 X 1-1/2 | 1-1/2 | 3-1/4 | 2-13/16 | 5-11/16 | 1-3/4 | 1-1/2 |
| 221216 | 2 x 2 | 1-1/2 | 3-3/4 | 3-1/16 | 6-3/8 | 2-1/4 | 2 |
| 221220 | 3 x 1-1/2 | 1-1/2 | 3-1/4 | 3-5/16 | 5-11/16 | 1-3/4 | 1-1/2 |
| 221222 | 3 x 2 | 1-1/2 | 3-3/4 | 3-9/16 | 6-3/8 | 2-1/4 | 2 |
| 221223 | 3 x 3 | 1-1/2 | 4-7/8 | 4-3/16 | 8 | 3-1/2 | 3 |
| 221226 | 4 X 1-1/2 | 1-1/2 | 3-1/4 | 3-13/16 | 5-11/16 | 1-3/4 | 1-1/2 |
| 221228 | 4 x 2 | 1-1/2 | 3-3/4 | 4-1/16 | 6-3/8 | 2-1/4 | 2 |

SANITARY TEE

| PART# | SIZE | B | B'' | D | E | F | R |
|--------|-----------|-------|-------|-------|-------|----------|-------|
| 220806 | 1-1/2 | 1-1/2 | 1-1/2 | 4-1/4 | 4-1/4 | 6-1/2 | 2-3/4 |
| 220808 | 2 x 1-1/2 | 1-1/2 | 1-1/2 | 4-1/4 | 4-1/2 | 6-5/8 | 2-3/4 |
| 220810 | 2 | 1-1/2 | 1-1/2 | 4-1/2 | 4-1/2 | 6-7/8 | 3 |
| 220812 | 3 x 1-1/2 | 1-1/2 | 1-1/2 | 4-1/4 | 5 | 6-1/2 | 2-3/4 |
| 220814 | 3 x 2 | 1-1/2 | 1-1/2 | 4-1/2 | 5 | 6-7/8 | 3 |
| 220816 | 3 | 1-1/2 | 1-1/2 | 5 | 5 | 8 | 3-1/2 |
| 220818 | 4 x 2 | 1-1/2 | 1-1/2 | 4-1/2 | 5-1/2 | 6-7/8 | 3 |
| 220820 | 4 x 3 | 1-1/2 | 1-1/2 | 5 | 5-1/2 | 8 | 3-1/2 |
| 220822 | 4 | 1-1/2 | 1-1/2 | 5-1/2 | 5-1/2 | 9-1/8 | 4 |
| 220824 | 5 x 2 | 2 | 1-1/2 | 5 | 6-1/2 | 8-1/2 | 3 |
| 220826 | 5 x 3 | 2 | 1-1/2 | 5-1/2 | 6 | 9-5/16 | 3-1/2 |
| 220828 | 5 x 4 | 2 | 1-1/2 | 6 | 6 | 10-13/32 | 4 |
| 220830 | 5 | 2 | 2 | 6-1/2 | 6-1/2 | 11-7/16 | 4-1/2 |
| 220832 | 6 x 2 | 2 | 1-1/2 | 5 | 6-1/2 | 8-3/16 | 3 |
| 220834 | 6 x 4 | 2 | 1-1/2 | 6 | 6-1/2 | 10-11/16 | 4 |
| 220835 | 6 x 5 | 2 | 2 | 6-1/2 | 7 | 11-1/2 | 4-1/2 |
| 220836 | 6 | 2 | 2 | 7 | 7 | 12-1/2 | 5 |
| 220838 | 6 x 3 | 2 | 1-1/2 | 5-1/2 | 6-1/2 | 9-3/16 | 3-1/2 |
| 220848 | 8 x 3 | 2-1/2 | 1-1/2 | 6 | 7-1/2 | 10-3/8 | 3-1/2 |
| 220846 | 8 x 4 | 2-1/2 | 1-1/2 | 6-1/2 | 7-1/2 | 11-1/2 | 4 |
| 220844 | 8 x 5 | 2-1/2 | 2 | 7 | 8 | 12-1/2 | 4-1/2 |
| 220842 | 8 x 6 | 2-1/2 | 2 | 7-1/2 | 8 | 13-1/2 | 5 |
| 220840 | 8 | 2-1/2 | 2-1/2 | 8-1/2 | 8-1/2 | 15-1/2 | 6 |



DOUBLE WYE

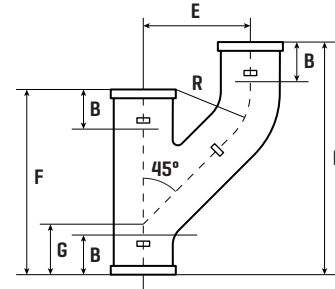
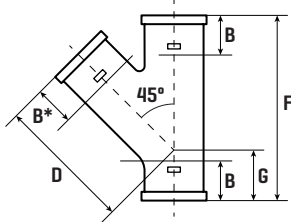
| PART# | SIZE | B | B* | D | F | G |
|--------|-------|-------|--------|----------|----------|---------|
| 221538 | 2 | 1-1/2 | 1-1/2 | 4-5/8 | 6-5/8 | 2 |
| 221540 | 3 x 2 | 1-1/2 | 1-1/2 | 5-5/16 | 6-5/8 | 1-11/2 |
| 221542 | 3 | 1-1/2 | 1-11/2 | 5-3/4 | 8 | 2-1/4 |
| 221544 | 4 x 2 | 1-1/2 | 1-1/2 | 6 | 6-5/8 | 1 |
| 221546 | 4 x 3 | 1-1/2 | 1-11/2 | 6-1/2 | 8 | 1-11/16 |
| 221548 | 4 | 1-1/2 | 1-1/2 | 7-1/16 | 9-1/2 | 2-7/16 |
| 221552 | 6 x 4 | 2 | 1-1/2 | 9-1/4 | 11-3/16 | 1-15/16 |
| 221554 | 6 | 2 | 2 | 10-3/4 | 14-1/16 | 3-5/16 |
| 221557 | 8 x 6 | 2-1/2 | 2-3/4 | 11-13/16 | 14-13/16 | 2-5/16 |
| 221558 | 8 | 2-1/2 | 3-1/4 | 13-3/8 | 17-1/8 | 3-3/4 |



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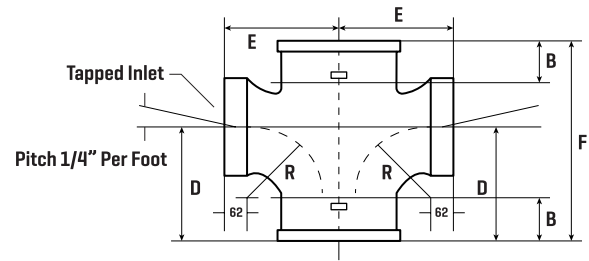


WYE

| PART# | SIZE | B | B* | D | F | G |
|--------|--------|-------|-------|----------|----------|---------|
| 221312 | 1-1/2 | 1-1/2 | 1-1/2 | 4 | 6 | 2 |
| 221314 | 2 | 1-1/2 | 1-1/2 | 4-5/8 | 6-5/8 | 2 |
| 221316 | 3 x 2 | 1-1/2 | 1-1/2 | 5-5/16 | 6-5/8 | 1-1/2 |
| 221318 | 3 | 1-1/2 | 1-1/2 | 5-3/4 | 8 | 2-1/4 |
| 221320 | 4 x 2 | 1-1/2 | 1-1/2 | 6 | 6-5/8 | 1 |
| 221322 | 4 x 3 | 1-1/2 | 1-1/2 | 6-1/2 | 8 | 1-11/16 |
| 221324 | 4 | 1-1/2 | 1-1/2 | 7-1/16 | 9-1/2 | 2-7/16 |
| 221326 | 5 x 2 | 2 | 1-1/2 | 7-1/2 | 8-1/16 | 15/16 |
| 221328 | 5 x 3 | 2 | 1-1/2 | 8 | 9-11/16 | 1-11/16 |
| 221330 | 5 x 4 | 2 | 1-1/2 | 8-1/2 | 11-3/16 | 2-7/16 |
| 221332 | 5 | 2 | 2 | 9-1/2 | 12-5/8 | 3-1/8 |
| 221334 | 6 x 2 | 2 | 1-1/2 | 8-1/4 | 8-5/16 | 1/2 |
| 221336 | 6 x 3 | 2 | 1-1/2 | 8-3/4 | 9-3/4 | 1-1/4 |
| 221338 | 6 x 4 | 2 | 1-1/2 | 9-1/4 | 11-3/16 | 1-15/16 |
| 221340 | 6 x 5 | 2 | 2 | 10-1/4 | 12-1/2 | 2-9/16 |
| 221342 | 6 | 2 | 2 | 10-3/4 | 14-1/16 | 3-5/16 |
| 221344 | 8 x 2 | 2-1/2 | 2-1/4 | 9-3/8 | 8-1/2 | 9/16 |
| 221346 | 8 x 3 | 2-1/2 | 2-1/4 | 9-13/16 | 9-15/16 | 1/8 |
| 221348 | 8 x 4 | 2-1/2 | 2-1/4 | 10-3/8 | 11-7/16 | 15/16 |
| 221350 | 8 x 5 | 2-1/2 | 2-3/4 | 11-3/8 | 12-13/16 | 1-5/8 |
| 221352 | 8 x 6 | 2-1/2 | 2-3/4 | 11-13/16 | 14-3/16 | 2-5/16 |
| 221354 | 8 | 2-1/2 | 3-1/4 | 13-3/8 | 17-1/8 | 3-3/4 |
| 221357 | 10 x 4 | 3 | 2-1/2 | 11-11/16 | 12-5/8 | 3/4 |
| 221359 | 10 x 6 | 3 | 2 | 13-1/8 | 15-7/16 | 2-3/16 |
| 221360 | 10 x 8 | 3 | 2-1/2 | 14-11/16 | 18-3/8 | 3-5/8 |
| 221361 | 10 | 3 | 3-1/4 | 16-1/2 | 21-1/2 | 5-1/16 |
| 221362 | 12 | 3-1/4 | 3-1/4 | 19-3/4 | 25-1/2 | 5-3/4 |
| 221363 | 15 | 3-1/4 | 3-1/4 | 23-1/4 | 30 | 6-3/4 |

UPRIGHT WYE

| PART# | SIZE | B | E | F | G | H | R |
|--------|-------|-------|-------|-------|---------|--------|-------|
| 221646 | 2 | 1-1/2 | 5-1/2 | 7 | 2 | 8-1/4 | 3 |
| 221648 | 3 x 2 | 1-1/2 | 5-1/2 | 7 | 1-1/2 | 8-3/16 | 3 |
| 221650 | 3 | 1-1/2 | 5-1/2 | 8-3/8 | 2-3/16 | 8-7/16 | 3-1/2 |
| 221652 | 4 x 2 | 1-1/2 | 5-1/2 | 7 | 1 | 8-1/4 | 3 |
| 221654 | 4 x 3 | 1-1/2 | 5-1/2 | 8-3/8 | 1-11/16 | 8-7/16 | 3-1/2 |
| 221656 | 4 | 1-1/2 | 6 | 9-3/4 | 2-7/16 | 9-1/8 | 4 |



SANITARY TAP CROSS

| PART# | SIZE | B | D | E | F | R | TAP |
|--------|---------------|-------|-------|---------|---------|-------|-------|
| 222012 | 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 |
| 222014 | 2 x 1-1/4 | 1-1/2 | 3-1/4 | 2-13/16 | 5-11/16 | 1-3/4 | 1-1/4 |
| 222016 | 2 x 1-1/2 | 1-1/2 | 3-1/4 | 2-13/16 | 5-11/16 | 1-3/4 | 1-1/2 |
| 222018 | 2 x 2 | 1-1/2 | 3 3/4 | 3-1/16 | 6-3/8 | 2-1/4 | 2 |
| 222022 | 3 x 1-1/2 | 1-1/2 | 3-1/4 | 3-5/16 | 5-11/16 | 1-3/4 | 1-1/2 |
| 222024 | 3 x 2 | 1-1/2 | 3 3/4 | 3-9/16 | 6-3/8 | 2-1/4 | 2 |
| 222028 | 4 x 1-1/2 | 1-1/2 | 3-1/4 | 3-13/16 | 5-11/16 | 1-3/4 | 1-1/2 |

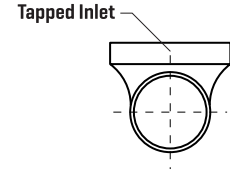
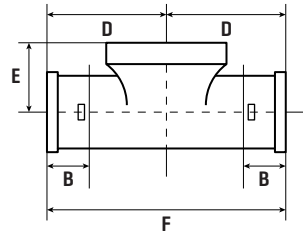
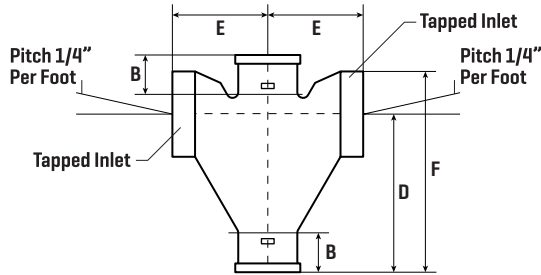
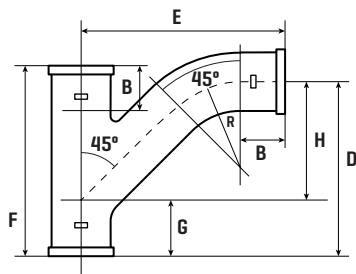


FIGURE ONE (TAP CROSS)

TEST TEE

| PART# | SIZE | B | C | D | E | F | TAP |
|--------|-----------|-------|-------|-------|--------|---|-------|
| 228002 | 2 x 1-1/2 | 1-1/2 | 2-1/8 | 4-7/8 | 3-3/16 | 7 | 1-1/2 |

| PART# | SIZE | B | D | E | F | TAP |
|--------|------|-------|--------|---------|--------|-----|
| 222046 | 2 | 1-1/2 | 3-3/16 | 2 | 6-3/8 | 2 |
| 222048 | 3 | 1-1/2 | 3-7/8 | 2-11/16 | 7-3/4 | 3 |
| 222050 | 4 | 1-1/2 | 4-7/16 | 3 | 8-7/8 | 4 |
| 222052 | 5 | 2 | 5-3/4 | 4-1/2 | 11-1/2 | 5 |
| 222054 | 6 | 2 | 6-1/4 | 5 | 12-1/2 | 6 |
| 222056 | 8 | 8 | 7-5/8 | 6 | 15-1/4 | 8 |
| 222058 | 10 | 4 | 10 | 6-1/2 | 20 | 10 |



COMBINATION WYE AND 1/8 BEND

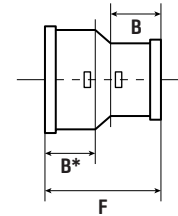
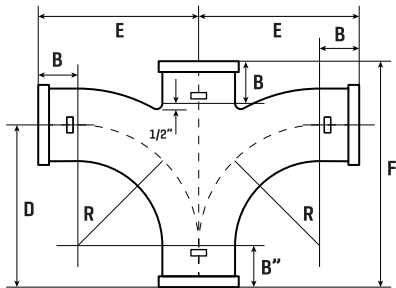
| PART# | SIZE | B | B* | D | E | F | G | H | R |
|--------|-----------|-------|-------|----------|----------|----------|---------|---------|-------|
| 221694 | 1-1/2 | 1-1/2 | 1-1/2 | 4-3/4 | 5-3/8 | 6 | 2 | 2-3/4 | 2-3/4 |
| 221696 | 2 x 1-1/2 | 1-1/2 | 1-1/2 | 57/8 | 6-1/8 | 6 | 2 | 3 | 3 |
| 221698 | 2 | 1-1/2 | 1-1/2 | 5-3/8 | 6-1/8 | 6-5/8 | 2 | 3-3/8 | 3 |
| 221700 | 3 x 2 | 1-1/2 | 1-1/2 | 5-1/2 | 6-3/4 | 6-5/8 | 1-1/2 | 4 | 3 |
| 221702 | 3 | 1-1/2 | 1-1/2 | 7-5/16 | 8 | 8 | 2-1/4 | 5-1/16 | 3-1/2 |
| 221704 | 4 x 2 | 1-1/2 | 1-1/2 | 5-1/2 | 7 1/4 | 6 5/8 | 1 | 4 1/2 | 3 |
| 221706 | 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 |
| 221708 | 4 | 1-1/2 | 1-1/2 | 9-1/4 | 10 | 9-1/2 | 2-7/16 | 6-13/16 | 4 |
| 221710 | 5 x 2 | 2 | 1-1/2 | 5-15/16 | 7-3/4 | 8-1/16 | 15/16 | 5 | 3 |
| 221712 | 5 x 3 | 2 | 1-1/2 | 7-3/4 | 9 | 9-11/16 | 1-11/16 | 6-1/16 | 3-1/2 |
| 221714 | 5 x 4 | 2 | 1-1/2 | 9-3/4 | 10-1/2 | 11-3/16 | 2-7/16 | 7-5/16 | 4 |
| 221716 | 5 | 2 | 2 | 11-3/4 | 12-1/2 | 12-5/8 | 3-1/8 | 8-5/8 | 4-1/2 |
| 221718 | 6 x 2 | 2 | 1-1/2 | 6 | 8-1/4 | 8-5/16 | 1/2 | 5-1/2 | 3 |
| 221720 | 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 |
| 221722 | 6 x 4 | 2 | 1-1/2 | 9-3/4 | 11 | 11-3/16 | 11-5/16 | 7-13/16 | 4 |
| 221724 | 6 x 5 | 2 | 2 | 14-11/16 | 13 | 12-1/2 | 2-9/16 | 9-1/8 | 4-1/2 |
| 221726 | 6 | 2 | 2 | 13-5/8 | 14-3/8 | 14-1/16 | 3-5/16 | 10-5/16 | 5 |
| 221728 | 8 x 4 | 2-1/2 | 1-1/2 | 9-7/16 | 11-5/16 | 11-3/16 | 7/8 | 8-9/16 | 4 |
| 221730 | 8 x 5 | 2-1/2 | 2 | 10-15/16 | 12-13/16 | 11-3/16 | 7/8 | 8-9/16 | 4 |
| 221732 | 6 x 6 | 2-1/2 | 2 | 12 | 13-3/8 | 13-15/16 | 2-1/4 | 9-3/4 | 5 |
| 221734 | 8 | 2-1/2 | 1-1/2 | 14-3/4 | 15-9/16 | 16-15/16 | 3-3/4 | 11 | 6 |



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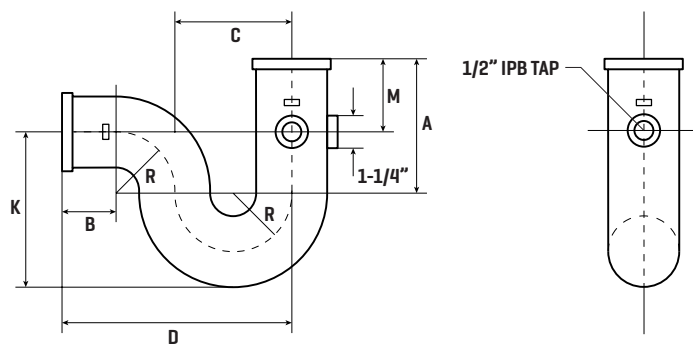


SANITARY CROSS

| PART# | SIZE | B | D | E | F | R |
|-------|-------|-------|-------|---------|---------|-------|
| 1850 | 1-1/2 | 1-1/2 | 4-1/4 | 4-1/4 | 6-1/2 | 2-3/4 |
| 1852 | 2 | 1-1/2 | 4-1/2 | 4-1/2 | 6-7/8 | 3 |
| 1854 | 3 x 2 | 1-1/2 | 4-1/2 | 5 | 6-7/8 | 3 |
| 1856 | 3 | 1-1/2 | 5 | 5 | 8 | 3-1/2 |
| 1858 | 4 x 2 | 1-1/2 | 4-1/2 | 5-1/2 | 6-7/8 | 3 |
| 1860 | 4 x 3 | 1-1/2 | 5 | 5-1/2 | 8 | 3-1/2 |
| 1862 | 4 | 1-1/2 | 5-1/2 | 5-1/2 | 9-1/8 | 4 |
| 1864 | 6 x 4 | 2 | 6 | 6-1/2 | 10-1/16 | 4 |
| 1867 | 6 | 2 | 7 | 10-1/16 | 7 | 5 |
| 1874 | 8 x 4 | 2-1/2 | 7-1/2 | 11-1/2 | 6-1/2 | 4 |

SHORT INCREASER REDUCER

| PART# | SIZE | B | B* | F |
|--------|-----------|-------|-------|-------|
| 222138 | 2 x 1-1/2 | 1-1/2 | 1-1/2 | 3-5/8 |
| 222140 | 3 x 2 | 1-1/2 | 1-1/2 | 3-5/8 |
| 222142 | 4 x 2 | 1-1/2 | 1-1/2 | 3-5/8 |
| 222144 | 4 x 3 | 1-1/2 | 1-1/2 | 3-5/8 |
| 222146 | 5 x 2 | 1-1/2 | 2 | 4 |
| 222148 | 5 x 3 | 1-1/2 | 2 | 4 |
| 222150 | 5 x 4 | 1-1/2 | 2 | 4 |
| 222152 | 6 x 2 | 1-1/2 | 2 | 4 |
| 222154 | 6 x 3 | 1-1/2 | 2 | 4 |
| 222156 | 6 x 4 | 1-1/2 | 2 | 4 |
| 222158 | 6 x 5 | 2 | 2 | 4-1/2 |
| 222160 | 8 x 2 | 1-1/2 | 2 | 4-1/2 |
| 222162 | 8 x 3 | 1-1/2 | 2 | 4-1/2 |
| 222164 | 8 x 4 | 1-1/2 | 2 | 4-1/2 |
| 222166 | 8 x 5 | 2 | 2 | 5 |
| 222168 | 8 x 6 | 2 | 2 | 5 |
| 222172 | 10 x 4 | 1-1/2 | 3 | 5-1/2 |
| 222174 | 10 x 6 | 2 | 3 | 6 |
| 222175 | 10 x 8 | 2 | 3 | 6 |
| 222176 | 12 x 4 | 1-1/2 | 3-1/4 | 6-1/2 |
| 222177 | 12 x 6 | 2 | 3-1/4 | 6-1/2 |
| 222178 | 12 x 8 | 2-1/2 | 3-1/4 | 7 |
| 222179 | 12 x 10 | 3 | 3-1/4 | 7-1/2 |
| 222180 | 15 x 4 | 1-1/2 | 3-1/4 | 7 |
| 222181 | 15 x 6 | 2 | 3-1/4 | 7 |
| 222182 | 15 x 8 | 2-1/2 | 3-1/4 | 7 |
| 222183 | 15 x 10 | 3 | 3-1/4 | 7-1/2 |
| 222184 | 15 x 12 | 3-1/4 | 3-1/4 | 7-3/4 |



P-TRAP W/1/2" PRIMER CAP

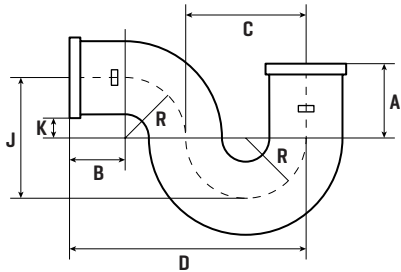
| PART# | SIZE | A | B | C | D | J | K | R | M |
|--------|------|-------|-------|---|--------|-------|-----|-------|---|
| 228530 | 2 | 2 | 1-1/2 | 4 | 7-1/2 | 4 | 0 | 2 | 2 |
| 228532 | 3 | 3-1/4 | 1-1/2 | 5 | 9 | 5-1/2 | 1/2 | 2-1/2 | 2 |
| 228534 | 4 | 4 | 1-1/2 | 6 | 10-1/2 | 6-1/2 | 1/2 | 3 | 2 |



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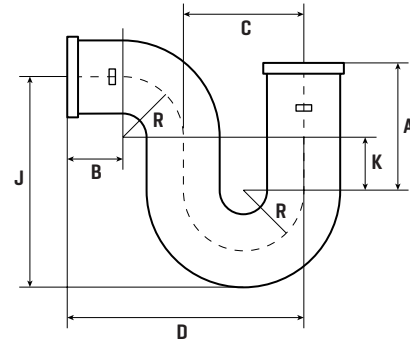
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P-TRAP

| PART# | SIZE | A | B | C | D | J | K | R |
|--------|------|-------|-------|---|--------|-------|-----|-------|
| 222508 | 2 | 2 | 1-1/2 | 4 | 7-1/2 | 4 | 0 | 2 |
| 222510 | 3 | 3-1/4 | 1-1/2 | 5 | 9 | 5-1/2 | 1/2 | 2-1/2 |
| 222512 | 4 | 4 | 1-1/2 | 6 | 10-1/2 | 6-1/2 | 1/2 | 3 |



DEEP SEAL TRAP

| PART# | SIZE | A | B | C | D | J | K | R |
|--------|------|-------|-------|---|--------|---|---|-------|
| 222564 | 2 | 5 | 1-1/2 | 4 | 7-1/2 | 7 | 3 | 2 |
| 222566 | 3 | 4-1/2 | 1-1/2 | 5 | 9 | 7 | 2 | 2-1/2 |
| 222567 | 4 | 5 | 1-1/2 | 6 | 10-1/2 | 8 | 2 | 3 |

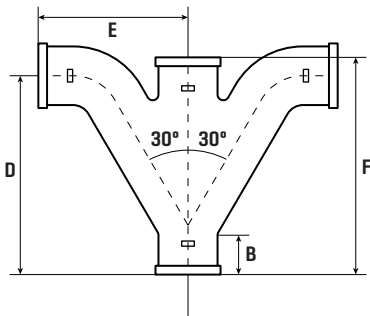
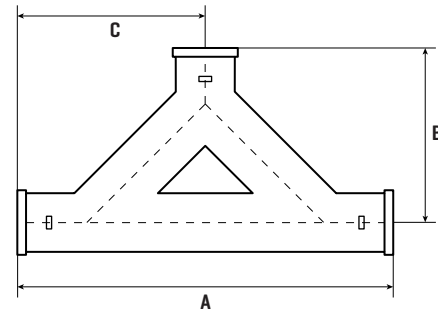


FIGURE FIVE (COMB)

| PART# | SIZE | B | D | E | F |
|--------|---------------|-------|--------|--------|--------|
| 228057 | 2 | 1-1/2 | 6-1/2 | 5 | 8 |
| 228054 | 3 x 2 x 3 x 3 | 1-1/2 | 8-7/8 | 6-9/16 | 9-1/4 |
| 228056 | 3 | 1-1/2 | 8-7/8 | 6-9/16 | 10-1/8 |
| 228058 | 4 x 2 x 4 x 4 | 1-1/2 | 10-1/4 | 7-3/4 | 11-1/2 |
| 228062 | 4 | 1-1/2 | 10-1/4 | 7-3/4 | 12 |
| 222567 | 4 | 5 | 1-1/2 | 6 | 10-1/2 |



TWO WAY BAFFLE CLEANOUT

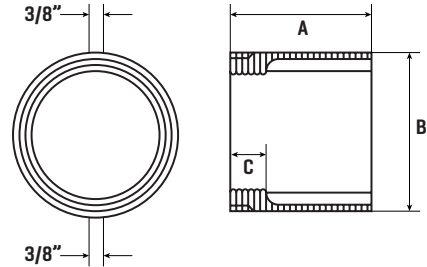
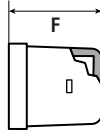
| PART# | SIZE | A | B | C |
|--------|-----------|--------|-------|-------|
| 228442 | 3 x 3 x 4 | 15 | 9 | 7-1/2 |
| 228444 | 4 x 3 x 4 | 19-1/2 | 9-1/2 | 9-1/8 |
| 228446 | 4 x 4 x 4 | 18-3/4 | 9-1/2 | 9-1/8 |



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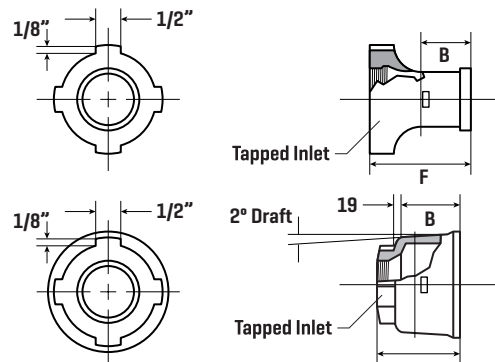
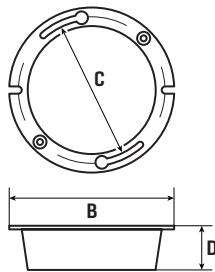


BLIND PLUG

| PART# | SIZE | F |
|--------|-------|--------|
| 222480 | 1-1/2 | 1-3/4 |
| 222482 | 2 | 1-3/4 |
| 222484 | 3 | 1-3/4 |
| 222486 | 4 | 1-3/4 |
| 222490 | 6 | 1-3/4 |
| 222492 | 8 | 2-1/4 |
| 222494 | 10 | 3 |
| 222495 | 12 | 3-1/2 |
| 222496 | 15 | 3-11/2 |

CLEANOUT FERRULE (I.B.C.O)

| PART# | SIZE | A | B | TAP |
|--------|------|--------|--------|-------|
| 228562 | 2 | 2-3/16 | 2-3/8 | 1-1/2 |
| 228564 | 3 | 2-3/16 | 3-3/8 | 2-1/2 |
| 228566 | 4 | 2-3/16 | 4-7/16 | 3-1/2 |
| 228570 | 6 | 4-1/2 | 6-5/16 | 5 |



CLOSET FLANGE

| PART# | SIZE | B | D | C |
|--------|-------|-------|---|-------|
| 229426 | 4 x 2 | 7-1/4 | 2 | 6-1/4 |
| 222968 | 4 x 3 | 7-1/4 | 3 | 6-1/4 |
| 228413 | 4 x 4 | 7-1/4 | 4 | 6-1/4 |

TAP ADAPTER/FERRULE

| PART# | SIZE | B | F | TAP |
|--------|-----------|-------|--------|-------|
| 222242 | 2 x 1-1/2 | 1-1/2 | 2-3/16 | 1-1/2 |
| 222244 | 2 | 1-1/2 | 2-5/8 | 2 |



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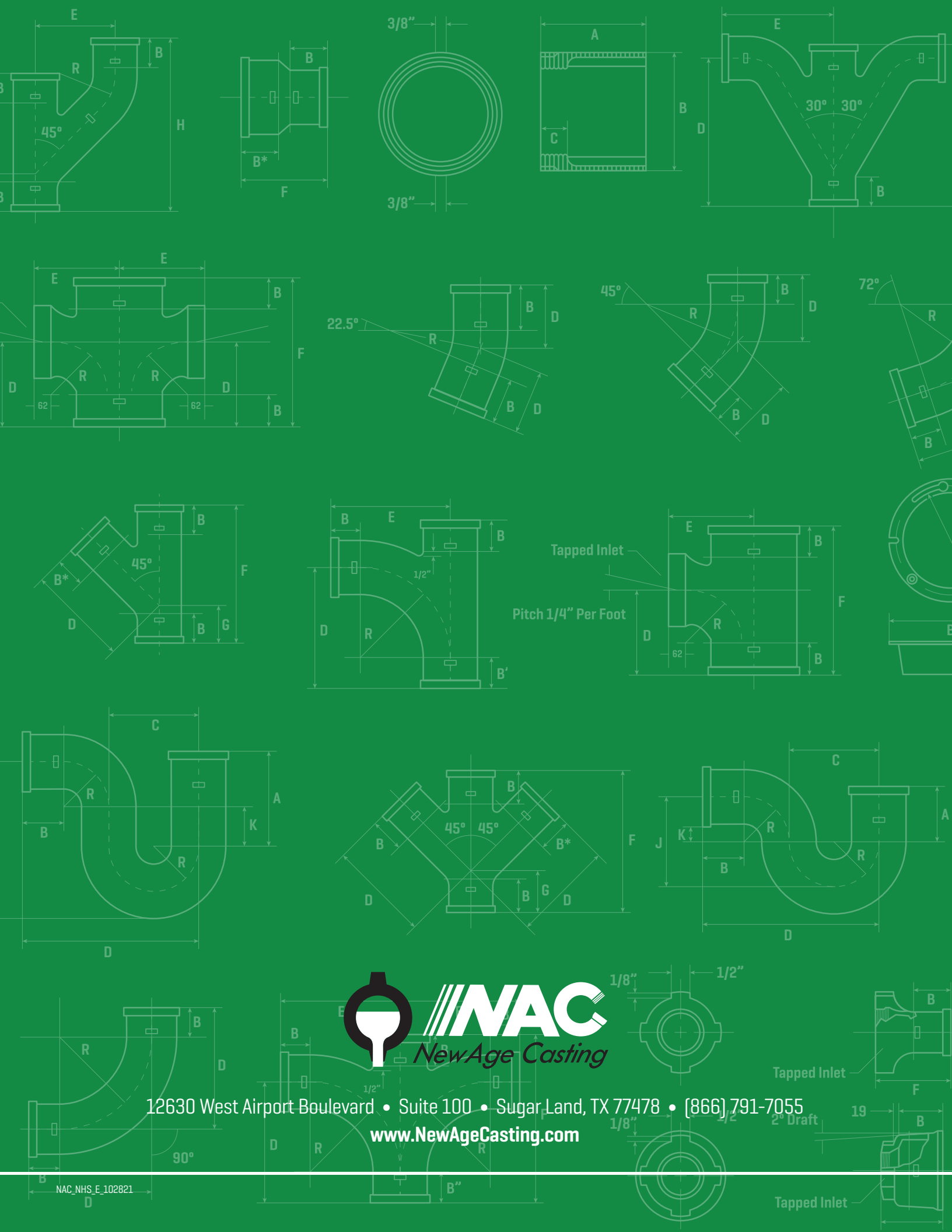
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Prices and designs are subject to change without notice. All prices are F.O.B. Point of Shipment, unless otherwise stated.

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