

SYSTEM 15® DWV SYSTEM XFR® DWV DRAIN-GUARD™ DWV MJ GREY™ DWV



Project: _____

Engineer: _____

Contractor: _____

Submitted by: _____ Date _____

Approved by: _____ Date _____

Order No: _____ Date _____

Specification: _____

< STANDARDS >

System 15®



System XFR®



Drain-Guard™ Double Containment

Depending on your application, Drain-Guard meets the same requirements of System 15 and System XFR

MJ Grey™ Mechanical Couplings Used with System 15 and/or System XFR



introduction

PVC is the most frequently specified of all thermoplastic piping materials. It has been used successfully for over 60 years. PVC is characterized by distinctive physical properties, and is resistant to corrosion and chemical attack by acids, alkalis, salt solutions and many other chemicals.

PRODUCT SIZES

| | |
|---------------------------|--|
| System 15® System XFR® | 1-1/2" – 24" (40mm – 600mm) 1-1/2" – 12" (40mm – 300mm) |
| Drain-Guard™ | Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. Carrier: 1-1/2" – 8" (40mm – 200mm) Containment: 4" – 12" (100mm – 300mm) (Larger sizes available upon request) |
| MJ Grey™ | 8" – 12" (200mm – 300mm) |

PRODUCT INTRODUCTION

System 15®, System XFR® and Drain-Guard™ by IPEX are compatible product lines designed for use in Drain, Waste and Vent (DWV) applications for buildings designated as noncombustible construction.

While both thermoplastic systems meet the demanding Flame Spread Rating requirements for noncombustible construction, System XFR also meets the Smoke Developed Classification requirements for installation in high-rise buildings and air plenum spaces.

System 15®

System 15 DWV is certified to CSA B181.2, made to Schedule 40 thickness and exhibits a Flame Spread Rating of not greater than 25 as per ULC S102.2 test methods. With some restrictions, System 15 is permitted for use in many commercial DWV applications.

System 15® vs ABS

System 15 is a premium choice for DWV piping versus either ABS solid wall or cell core pipe. System 15 will provide designers and building owners with 40% greater tensile strength, 40% lower expansion contraction movement, greater chemical resistance, less noise generation and superior fire resistance than ABS.

System XFR®

System XFR DWV is also certified to CSA B181.2 and made to Schedule 40 thickness. System XFR is listed to ULC S102.2 to exhibit a Flame Spread Rating of not greater than 25 as well as a Smoke Developed Classification of not greater than 50. Having this makes System XFR permissible for use in High-Rise Buildings (as defined in NBC section 3.2.6) and Air Plenums (section 3.6.4.3).

Drain-Guard™ Double Containment

Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. The many performance benefits of System 15 and System XFR are enhanced by this dual pipe concept, including excellent thermal properties, improved flow, longevity and durability, and the security of meeting all code requirements for noncombustible buildings.

Drain-Guard piping systems provide safe transport of sanitary or storm drainage in critical areas. Should a leak occur, people, equipment and valuable property will be protected from possible harm.

Contact IPEX Inc. for product availability and pricing for a customized solution on your project.

MJ Grey™ Mechanical Couplings

MJ Grey couplings are a mechanical joint assembly suitable for use on IPEX System 15 or System XFR DWV piping sizes 8" through 12", are certified to CSA B602 and are listed to ULC S102.2 to exhibit a Flame/Smoke rating of 25/50.

DESIGN AND INSTALLATION

The design and installation of PVC systems shall be performed in accordance with the recommendations detailed in the Handling and Installation section of this Submittal Data Sheet, local and national regulations where applicable.

To ensure the full integrity of the completed system, all components shall be supplied by IPEX.

VISUAL ID

From a distance, there are some differences in appearance between System 15 and System XFR to help with their identification.

The photo below shows the position of one of two labels on System XFR fittings and a close-up of information printed on the label.

| Description | System 15 | System XFR |
|-----------------|------------|------------|
| Colour | Light grey | Dark grey |
| Pipe Print Line | Black | Green |
| Fitting Labels | White | Green |



MJ Grey couplings can be easily differentiated from standard cast iron couplings by noting that the rubber interior sleeve is grey in colour (versus the traditional black colour) and exterior identification labels showing the System XFR trade name and the Flame and Smoke values as per ULC S102.2.

DWV Systems

Dimensions and Weights

Pipe Dimensions

The physical dimensions and tolerances of System 15 and System XFR pipe and fittings meet the requirements of CSA B181.2.

System 15® & System XFR® Pipe Dimensions

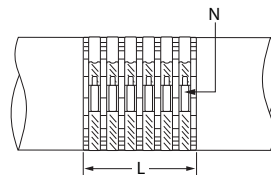
| Diameter (in.) | Avg. Outside Diameter (in.) | Impact Resistance ft.lb at 0°C |
|----------------|-----------------------------|--------------------------------|
| 1-1/2 | 1.9 | 52 |
| 2 | 2.4 | 66 |
| 3 | 3.5 | 85 |
| 4 | 4.5 | 100 |
| 6 | 6.6 | 100 |
| 8 | 8.6 | 130 |
| 10 | 10.8 | 140 |
| 12 | 12.8 | 150 |
| 14 | 14.0 | 165 |
| 16 | 16.0 | 175 |
| 18 | 18.0 | 200 |
| 20 | 20.0 | 220 |
| 24 | 24.0 | 220 |

NOTES:

- System XFR is only available up to 12" diameter
- System XFR is made in 12 foot lengths only for all sizes
- System 15 pipe lengths of 12 foot are plain end while 20 foot lengths of pipe are solvent bell ended
- System 15 24" diameter pipe is not ULC Listed for a Flame Spread Rating

MJ Grey™ Dimensions

| Coupling Size (inches) | Length (L) (inches) | N Number of Clamps |
|------------------------|---------------------|--------------------|
| 8 | 6.0 | 6 |
| 10 | 6.0 | 6 |
| 12 | 6.0 | 6 |



Pipe Weight

Weight differences between various materials can influence a project significantly. During handling and installation, heavier piping products may incur additional costs for the extra manpower and equipment. Other effects of heavier systems may include reduced daily production levels, and impact on worker safety and fatigue.

The table below compares the weights of three more commonly specified DWV piping materials.

Weight Comparison

| Size (in.) | System 15® and System XFR® | | Cast Iron | |
|------------|----------------------------|--------|-----------|--------|
| | (lb/ft) | (kg/m) | (lb/ft) | (kg/m) |
| 1-1/2 | 0.4 | 0.5 | 2.7 | 4.0 |
| 2 | 0.5 | 0.7 | 3.7 | 5.5 |
| 3 | 1.0 | 1.5 | 5.0 | 7.5 |
| 4 | 1.5 | 2.2 | 7.0 | 10.4 |
| 6 | 2.6 | 3.8 | 11.5 | 17.1 |
| 8 | 3.8 | 5.7 | 16.0 | 23.8 |
| 10 | 5.4 | 8.1 | 25.5 | 38.0 |
| 12 | 7.2 | 10.7 | 30.0 | 44.7 |
| 14 | 8.5 | 12.7 | – | – |
| 15 | – | – | 52.5 | 78.2 |
| 16 | 11.2 | 16.6 | – | – |
| 18 | 14.1 | 21.0 | – | – |
| 20 | 16.5 | 24.6 | – | – |
| 24 | 23.0 | 34.3 | – | – |

Product Availability

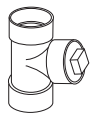
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

System 15 DWV Pipe

| | inches | mm | Product Code |
|------------------------------|--------|-----|--------------|
| Plain End 12 foot lengths | 1-1/2 | 40 | 010001 |
| | 2 | 50 | 010002 |
| | 3 | 75 | 010003 |
| | 4 | 100 | 010004 |
| | 6 | 150 | 010006 |
| | 8 | 200 | 010087 |
| | 10 | 250 | 010088 |
| | 12 | 300 | 010089 |
| | * 4 | 100 | 010016 |
| | * 6 | 150 | 010007 |
| Bell End 20 foot lengths | 8 | 200 | 010008 |
| | 10 | 250 | 010010 |
| | 12 | 300 | 010012 |
| | 14 | 350 | 010031 |
| | 16 | 400 | 010032 |
| | 18 | 450 | 010034 |
| | 20 | 500 | 010035 |
| | 24 | 600 | 010036 |

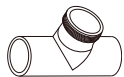
* Sizes 4" and 6" by 20 ft. System 15 pipe sold in Western Canada only.

Line Cleanout H x H x Gasket Plug



| inches | mm | Product Code |
|-----------|----------------|--------------|
| 1-1/2 | 40 | 026040 |
| 2 | 50 | 026041 |
| 3 | 75 | 026103 |
| 4 | 100 | 026104 |
| 4 x 3 x 4 | 100 x 75 x 100 | 026105 |
| 6 | 150 | 026161 |

Line Cleanout Sp x Sp x Threaded Plug



| inches | mm | Product Code |
|--------|-----|--------------|
| 8 | 200 | 226953 |

Plug Cleanout MPT with Gasket



| inches | mm | Product Code |
|--------|-----|--------------|
| 1-1/2 | 40 | 026401 |
| 2 | 50 | 026402 |
| 3 | 75 | 026403 |
| 4 | 100 | 026404 |
| 6 | 150 | 026405 |

Fitting Cleanout Sp x FPT



| inches | mm | Product Code |
|--------|-----|--------------|
| 2 | 50 | 026046 |
| 3 | 75 | 026047 |
| 4 | 100 | 026048 |
| 6 | 150 | 026050 |

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Fitting Cleanout Sp x Gasket Threaded Plug



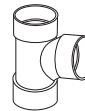
| inches | mm | Product Code |
|--------|-----|--------------|
| 1-1/2 | 40 | 026345 |
| 2 | 50 | 026346 |
| 3 | 75 | 026347 |
| 4 | 100 | 026348 |
| 6 | 150 | 026349 |
| 8 | 200 | 026301 |

Tube End Cleanout H x Gasket Plug



| inches | mm | Product Code |
|--------|-----|--------------|
| 1-1/2 | 40 | 026291 |
| 2 | 50 | 026298 |
| 3 | 75 | 026299 |
| 4 | 100 | 026300 |

Sanitary Tee H x H x H




| inches | mm | Product Code |
|-------------------|-----------------|--------------|
| 1-1/2 | 40 | 026081 |
| 2 | 50 | 026082 |
| 2 x 1-1/2 x 1-1/2 | 50 x 40 x 40 | 026058 |
| 2 x 1-1/2 x 2 | 50 x 40 x 50 | 026057 |
| 2 x 2 x 1-1/2 | 50 x 50 x 40 | 026056 |
| 3 | 75 | 026083 |
| 3 x 3 x 1-1/2 | 75 x 75 x 40 | 026061 |
| 3 x 3 x 2 | 75 x 75 x 50 | 026060 |
| 4 | 100 | 026084 |
| 4 x 4 x 2 | 100 x 100 x 50 | 026064 |
| 4 x 4 x 3 | 100 x 100 x 75 | 026066 |
| 6 | 150 | 026377 |
| 6 x 6 x 4 | 150 x 150 x 100 | 026385 |
| 8 | 200 | 026810 |
| 8 x 4 | 200 x 100 | 026808 |
| 8 x 6 | 200 x 150 | 026809 |
| 10 | 250 | 026814 |
| 10 x 4 | 250 x 100 | 026811 |
| 10 x 6 | 250 x 150 | 026812 |
| 10 x 8 | 250 x 200 | 026813 |
| 12 | 300 | 026819 |
| 12 x 4 | 300 x 100 | 026815 |
| 12 x 6 | 300 x 150 | 026816 |
| 12 x 8 | 300 x 200 | 026817 |
| 12 x 10 | 300 x 250 | 026818 |
| 14 | 350 | 026825 |
| 14 x 4 | 350 x 100 | 026820 |
| 14 x 6 | 350 x 150 | 026821 |
| 14 x 8 | 350 x 200 | 026822 |
| 14 x 12 | 350 x 300 | 026824 |
| 16 | 400 | 026832 |
| 16 x 4 | 400 x 100 | 026826 |
| 16 x 6 | 400 x 150 | 026827 |
| 16 x 8 | 400 x 200 | 026828 |
| 16 x 10 | 400 x 250 | 026829 |
| 16 x 12 | 400 x 300 | 026830 |
| 16 x 14 | 400 x 350 | 026831 |
| 18 x 4 | 450 x 100 | 026833 |
| 18 x 6 | 450 x 150 | 026834 |



Product Availability

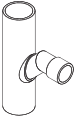
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Sanitary Tee Sp x H x H

| | | | |
|---|---------------|--------------|--------|
|  | 1-1/2 | 40 | 026550 |
| | 3 x 3 x 1-1/2 | 75 x 75 x 40 | 026552 |
| | 4 | 100 | 026557 |

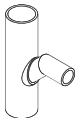
Sanitary Tee Sp x Sp x H

FOR USE WITH **MJ GREY™**

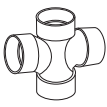
| | | | |
|---|--------|-----------|--------|
|  | 8 x 4 | 200 x 100 | 226955 |
| | 8 x 6 | 200 x 150 | 226940 |
| | 10 x 4 | 250 x 100 | 226939 |
| | 10 x 6 | 250 x 150 | 226942 |
| | 12 x 4 | 300 x 100 | 226945 |
| | 12 x 6 | 300 x 150 | 226946 |

Sanitary Tee Sp x Sp x Sp


FOR USE WITH **MJ GREY™**

| | | | |
|--|---------|-----------|--------|
|  | 8 | 200 | 226941 |
| | 10 x 8 | 250 x 200 | 226943 |
| | 10 | 250 | 226944 |
| | 12 x 8 | 300 x 200 | 226947 |
| | 12 x 10 | 300 x 250 | 226948 |
| | 12 | 300 | 226949 |


Double Sanitary Tee H x H x H x H

| | | | |
|---|-----------------------|-------------------|--------|
|  | 1-1/2 | 40 | 026542 |
| | 2 | 50 | 026543 |
| | 2 x 2 x 1-1/2 x 1-1/2 | 50 x 50 x 40 x 40 | 026547 |
| | 3 | 75 | 026544 |
| | 3 x 3 x 1-1/2 x 1-1/2 | 75 x 75 x 40 x 40 | 026538 |
| | 3 x 3 x 2 x 2 | 75 x 75 x 50 x 50 | 026539 |
| | 4 | 100 | 026545 |


Sanitary Tee Side Inlet (left hand) H x H x H x H SI

| | | | |
|---|-------------------|-------------------|--------|
|  | 3 x 3 x 3 x 1-1/2 | 75 x 75 x 75 x 40 | 026395 |
| | 3 x 3 x 3 x 2 | 75 x 75 x 75 x 50 | 026396 |

Sanitary Tee Side Inlet (right hand) H x H x H x H SI


| | | | |
|---|-------------------|-------------------|--------|
|  | 3 x 3 x 3 x 1-1/2 | 75 x 75 x 75 x 40 | 026397 |
| | 3 x 3 x 3 x 2 | 75 x 75 x 75 x 50 | 026398 |

Double Sanitary Tee Side Inlet H x H x H x H SI


| | | | |
|---|-----------------------|------------------------|--------|
|  | 3 x 3 x 3 x 3 x 1-1/2 | 75 x 75 x 75 x 75 x 40 | 026336 |
|---|-----------------------|------------------------|--------|

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

90° Elbow H x H


| | | | |
|--|---------|------|--------|
|  | 1 1/2 | 40 | 026121 |
| | 1-1/2 L | 40 L | 026024 |
| | 2 | 50 | 026035 |
| | 2 L | 50 L | 026122 |
| | 3 | 75 | 026025 |
| | 3 L | 75 L | 026123 |
| | 4 | 100 | 026124 |
| | 6 | 150 | 026125 |
| | 8 | 200 | 026126 |
| | 10 | 250 | 026127 |
| | 12 | 300 | 026128 |
| | 14 | 350 | 026129 |
| | 16 | 400 | 026130 |
| | 18 | 450 | 026131 |

90° Elbow Sp x H


| | | | |
|---|-------|-----|--------|
|  | 1-1/2 | 40 | 026231 |
| | 2 | 50 | 026232 |
| | 3 | 75 | 026233 |
| | 4 | 100 | 026234 |
| | 6 | 150 | 026235 |
| | 8 | 200 | 026236 |
| | 10 | 250 | 026237 |
| | 12 | 300 | 026238 |
| | 14 | 350 | 026135 |
| | 16 | 400 | 026136 |
| | 18 | 450 | 026137 |

90° Elbow Sp x Sp


FOR USE WITH **MJ GREY™**

| | | | |
|---|----|-----|--------|
|  | 8 | 200 | 226934 |
| | 10 | 250 | 226908 |
| | 12 | 300 | 226909 |

90° Reducing Elbow Closet Bend Reducing Sp x H

| | | | |
|---|-------|----------|--------|
|  | 4 x 3 | 100 x 75 | 026026 |
|---|-------|----------|--------|

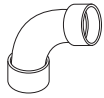
90° Reducing Elbow H x H

| | | | |
|--|-------|----------|--------|
|  | 4 x 3 | 100 x 75 | 026155 |
|--|-------|----------|--------|

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

90° Elbow Extra Long Sweep H x H



| | | |
|---|----|--------|
| 2 | 50 | 026157 |
|---|----|--------|

60° Elbow H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026261 |
| 2 | 50 | 026262 |
| 3 | 75 | 026263 |
| 4 | 100 | 026264 |

45° Elbow - Short Turn H x H



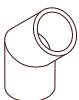
| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026241 |
| 2 | 50 | 026242 |
| 3 | 75 | 026243 |
| 4 | 100 | 026244 |
| 6 | 150 | 026245 |
| 8 | 200 | 026246 |
| 10 | 250 | 026247 |
| 12 | 300 | 026248 |
| 14 | 350 | 026249 |
| 16 | 400 | 026250 |
| 18 | 450 | 026425 |

45° Elbow - Short Turn Sp x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026221 |
| 2 | 50 | 026071 |
| 3 | 75 | 026223 |
| 4 | 100 | 026072 |
| 6 | 150 | 026073 |
| 8 | 200 | 026226 |
| 10 | 250 | 026270 |
| 12 | 300 | 026271 |
| 14 | 350 | 026272 |
| 16 | 400 | 026273 |
| 18 | 450 | 026274 |

45° Elbow - Short Turn Sp x Sp



| | | |
|----|-----|--------|
| 8 | 200 | 226910 |
| 10 | 250 | 226911 |
| 12 | 300 | 226912 |

FOR USE WITH
MJ GREY™

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

22-1/2° Elbow H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026251 |
| 2 | 50 | 026252 |
| 3 | 75 | 026253 |
| 4 | 100 | 026254 |
| 6 | 150 | 026255 |
| 8 | 200 | 026256 |
| 10 | 250 | 026257 |
| 12 | 300 | 026258 |
| 16 | 400 | 026260 |

22-1/2° Elbow Sp x H



| | | |
|----|-----|--------|
| 6 | 150 | 026651 |
| 8 | 200 | 026652 |
| 10 | 250 | 026653 |
| 12 | 300 | 026654 |
| 14 | 350 | 026655 |
| 16 | 400 | 026656 |

22-1/2° Elbow - Short Turn Sp x Sp



| | | |
|----|-----|--------|
| 8 | 200 | 226913 |
| 10 | 250 | 226914 |
| 12 | 300 | 226915 |

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11-1/4° Elbow H x H



| | | |
|----|-----|--------|
| 6 | 150 | 026671 |
| 8 | 200 | 026672 |
| 10 | 250 | 026673 |
| 12 | 300 | 026674 |
| 14 | 350 | 026675 |
| 16 | 400 | 026676 |

11-1/4° Elbow Sp x H



| | | |
|----|-----|--------|
| 6 | 150 | 026681 |
| 8 | 200 | 026682 |
| 10 | 250 | 026683 |
| 12 | 300 | 026684 |
| 14 | 350 | 026685 |
| 16 | 400 | 026686 |

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

45° Wye H x H x H



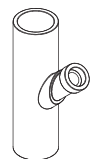
| | | |
|-------------------|-----------------|--------|
| 1 1/2 | 40 | 026171 |
| 2 | 50 | 026172 |
| 2 x 1-1/2 x 1-1/2 | 50 x 40 x 40 | 026194 |
| 2 x 2 x 1-1/2 | 50 x 50 x 40 | 026195 |
| 3 | 75 | 026173 |
| 3 x 3 x 1-1/2 | 75 x 75 x 40 | 026201 |
| 3 x 3 x 2 | 75 x 75 x 50 | 026196 |
| 4 | 100 | 026174 |
| 4 x 4 x 2 | 100 x 100 x 50 | 026198 |
| 4 x 4 x 3 | 100 x 100 x 75 | 026197 |
| 6 | 150 | 026175 |
| 6 x 6 x 4 | 150 x 150 x 100 | 026199 |
| 8 | 200 | 026560 |
| 8 x 4 | 200 x 100 | 026606 |
| 8 x 6 | 200 x 150 | 026607 |
| 10 | 250 | 026706 |
| 10 x 4 | 250 x 100 | 026703 |
| 10 x 6 | 250 x 150 | 026704 |
| 10 x 8 | 250 x 200 | 026705 |
| 12 | 300 | 026711 |
| 12 x 4 | 300 x 100 | 026707 |
| 12 x 6 | 300 x 150 | 026708 |
| 12 x 8 | 300 x 200 | 026709 |
| 12 x 10 | 300 x 250 | 026710 |
| 14 | 350 | 026717 |
| 14 x 4 | 350 x 100 | 026712 |
| 14 x 6 | 350 x 150 | 026713 |
| 14 x 8 | 350 x 200 | 026714 |
| 14 x 10 | 350 x 250 | 026715 |
| 14 x 12 | 350 x 300 | 026716 |
| 16 | 400 | 026724 |
| 16 x 4 | 400 x 100 | 026718 |
| 16 x 6 | 400 x 150 | 026719 |
| 16 x 8 | 400 x 200 | 026720 |
| 16 x 10 | 400 x 250 | 026721 |
| 16 x 12 | 400 x 300 | 026722 |
| 18 x 4 | 450 x 100 | 026725 |
| 18 x 6 | 450 x 150 | 026726 |

45° Wye Sp x H x H



| | | |
|---|----|--------|
| 3 | 75 | 026635 |
|---|----|--------|

45° Wye Sp x Sp x H

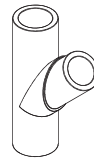


| | | |
|--------|-----------|--------|
| 8 x 4 | 200 x 100 | 226926 |
| 8 x 6 | 200 x 150 | 226927 |
| 10 x 4 | 250 x 100 | 226930 |
| 10 x 6 | 250 x 150 | 226929 |
| 12 x 4 | 300 x 100 | 226933 |
| 12 x 6 | 300 x 150 | 226935 |

FOR USE WITH
MJ GREY™

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

45° Wye Sp x Sp x Sp



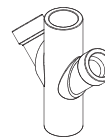
| | | |
|---------|-----------|--------|
| 8 | 200 | 226928 |
| 10 x 8 | 250 x 200 | 226931 |
| 10 | 250 | 226932 |
| 12 x 8 | 300 x 200 | 226936 |
| 12 x 10 | 300 x 250 | 226937 |
| 12 | 300 | 226938 |

Double 45° Wye H x H x H x H



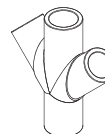
| | | |
|-----------------------|---------------------|--------|
| 1-1/2 | 40 | 026637 |
| 2 | 50 | 026456 |
| 2 x 2 x 1-1/2 x 1-1/2 | 50 x 50 x 40 x 40 | 026642 |
| 3 | 75 | 026639 |
| 3 x 3 x 1-1/2 x 1-1/2 | 75 x 75 x 40 x 40 | 026643 |
| 3 x 3 x 2 x 2 | 75 x 75 x 50 x 50 | 026644 |
| 4 x 4 x 3 x 3 | 100 x 100 x 75 x 75 | 026457 |
| 6 | 150 | 026752 |
| 8 | 200 | 026755 |
| 8 x 4 | 200 x 100 | 026753 |
| 8 x 6 | 200 x 150 | 026754 |
| 10 x 4 | 250 x 100 | 026756 |
| 10 x 6 | 250 x 150 | 026757 |
| 10 x 8 | 250 x 200 | 026758 |
| 12 | 300 | 026764 |
| 12 x 4 | 300 x 100 | 026760 |
| 12 x 6 | 300 x 150 | 026761 |
| 12 x 8 | 300 x 200 | 026762 |
| 12 x 10 | 300 x 250 | 026763 |
| 14 | 350 | 026770 |
| 14 x 4 | 350 x 100 | 026765 |
| 14 x 6 | 350 x 150 | 026766 |
| 14 x 8 | 350 x 200 | 026767 |
| 14 x 10 | 350 x 250 | 026768 |
| 14 x 12 | 350 x 300 | 026769 |
| 16 | 400 | 026777 |
| 16 x 4 | 400 x 100 | 026771 |
| 16 x 6 | 400 x 150 | 026772 |
| 16 x 8 | 400 x 200 | 026773 |
| 16 x 10 | 400 x 250 | 026774 |
| 16 x 12 | 400 x 300 | 026775 |
| 16 x 14 | 400 x 350 | 026776 |
| 18 x 4 | 450 x 100 | 026778 |
| 18 x 6 | 450 x 150 | 026779 |

45° Double Wye Sp x Sp x H x H



| | | |
|--------|-----------|--------|
| 8 x 4 | 200 x 100 | 226954 |
| 8 x 6 | 200 x 150 | 226916 |
| 10 x 4 | 250 x 100 | 226917 |
| 10 x 6 | 250 x 150 | 226919 |
| 12 x 4 | 300 x 100 | 226922 |
| 12 x 6 | 300 x 150 | 226923 |

45° Double Wye Sp x Sp x Sp x Sp



| | | |
|---------|-----------|--------|
| 8 | 200 | 226918 |
| 10 | 250 | 226921 |
| 10 x 8 | 250 x 200 | 226920 |
| 12 x 8 | 300 x 200 | 226924 |
| 12 x 10 | 300 x 250 | 226925 |

Products manufactured by/for IPEX Inc.

Canada: Website: www.ipexinc.com • Toll Free: 866-473-9462

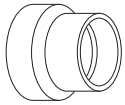


IPEX
Committed to Excellence

Product Availability

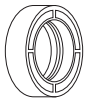
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Reducer Coupling



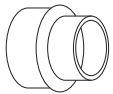
| H x H | | | |
|-----------|-----------|--------|--|
| 2 x 1-1/2 | 50 x 40 | 026362 | |
| 3 x 1-1/2 | 75 x 40 | 026363 | |
| 3 x 2 | 75 x 50 | 026364 | |
| 4 x 1-1/2 | 100 x 40 | 026369 | |
| 4 x 2 | 100 x 50 | 026365 | |
| 4 x 3 | 100 x 75 | 026366 | |
| 6 x 4 | 150 x 100 | 026860 | |
| 8 x 4 | 200 x 100 | 026861 | |
| 8 x 6 | 200 x 150 | 026867 | |
| 10 x 4 | 250 x 100 | 026862 | |
| 10 x 6 | 250 x 150 | 026868 | |
| 10 x 8 | 250 x 200 | 026900 | |
| 12 x 10 | 300 x 250 | 026907 | |
| 14 x 12 | 350 x 300 | 026913 | |

Reducer Bushing



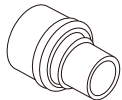
| Sp x H | | | |
|-----------|-----------|--------|--|
| 2 x 1-1/2 | 50 x 40 | 026282 | |
| 3 x 1-1/2 | 75 x 40 | 026292 | |
| 3 x 2 | 75 x 50 | 026284 | |
| 4 x 2 | 100 x 50 | 026288 | |
| 4 x 3 | 100 x 75 | 026286 | |
| 6 x 4 | 150 x 100 | 026054 | |
| 8 x 4 | 200 x 100 | 026446 | |
| 8 x 6 | 200 x 150 | 026447 | |

Reducer Bushing (Extended)



| Sp x H | | | |
|---------|-----------|--------|--|
| 10 x 8 | 250 x 200 | 026962 | |
| 12 x 10 | 300 x 250 | 026966 | |
| 14 x 12 | 350 x 300 | 026971 | |

Reducer Bushing (Extended)



| Sp x Sp | | | FOR USE WITH MJ GREY |
|---------|-----------|--------|--------------------------------|
| 10 x 8 | 250 x 200 | 226950 | |
| 12 x 8 | 300 x 200 | 226951 | |
| 12 x 10 | 300 x 250 | 226952 | |

Reducer Bushing (Dishwasher Bushing)



| Sp x FPT | | | |
|-------------|---------|--------|--|
| 1-1/2 x 1/2 | 40 x 12 | 026277 | |
| 1-1/2 x 3/4 | 40 x 20 | 026278 | |

Reducer Bushing



| Sp x H | | | |
|--------|----------|--------|--|
| 4 x 3 | 100 x 75 | 026294 | |

Adapts Plastic Sewer Ftg. to Plastic DWV Pipe

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Adapter Sleeve



| Sp x H | | | |
|--------|-----|--------|--|
| 2 | 50 | 026310 | |
| 3 | 75 | 026311 | |
| 4 | 100 | 026312 | |
| 6 | 150 | 026313 | |

Adapts Plastic DWV Ftg. to Plastic Sewer Pipe

Male Adapter



| H x MPT | | | |
|---------|-----|--------|--|
| 1-1/2 | 40 | 026331 | |
| 2 | 50 | 026332 | |
| 3 | 75 | 026333 | |
| 4 | 100 | 026334 | |

Female Adapter



| H x FPT | | | |
|---------|-----|--------|--|
| 1-1/2 | 40 | 026341 | |
| 2 | 50 | 026342 | |
| 3 | 75 | 026343 | |
| 4 | 100 | 026344 | |

Coupling



| H x H | | | |
|-------|-----|--------|--|
| 1-1/2 | 40 | 026351 | |
| 2 | 50 | 026352 | |
| 3 | 75 | 026353 | |
| 4 | 100 | 026354 | |
| 6 | 150 | 026356 | |
| 8 | 200 | 026358 | |
| 10 | 250 | 026359 | |
| 12 | 300 | 026360 | |
| 14 | 350 | 026361 | |
| 16 | 400 | 026367 | |
| 18 | 450 | 026368 | |

Plastic Sewer Hub



| H x H | | | |
|-------|----------|--------|--|
| 4 x 3 | 100 x 75 | 026376 | |

Adapts Plastic Sewer Pipe to Plastic DWV Pipe

Plastic M-J Spigot



| MJ Sp x H | | | |
|-----------|----------|--------|--|
| 2 | 50 | 026522 | |
| 3 | 75 | 026523 | |
| 4 | 100 | 026524 | |
| 4 x 3 | 100 x 75 | 026535 | |

Adapts M-J Cast Iron Pipe to Plastic DWV Pipe

Product Availability

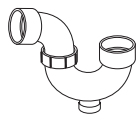
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

P Trap Solvent Weld H x H



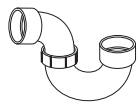
| | | |
|-------|----------|--------|
| 1-1/2 | 40 | 026431 |
| 2 | 50 | 026432 |
| 3 | 75 | 026433 |
| 4 | 100 | 026434 |
| 4 x 3 | 100 x 75 | 026669 |

P Trap Solvent Weld with Cleanout H x H



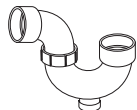
| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026441 |
| 2 | 50 | 026442 |

P Trap Union Connection H x H



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026443 |
| 2 | 50 | 026444 |

P Trap Union Connection with Cleanout H x H



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026505 |
|-------|----|--------|

U Bend H x H



| | | |
|---|-----|--------|
| 3 | 75 | 026498 |
| 4 | 100 | 026499 |
| 6 | 150 | 026503 |

Fitting Trap Adapter Plastic Nut & Washer Sp x Slip Joint



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026304 |
| 2 | 50 | 026305 |

Pipe Trap Adapter Plastic Nut & Washer H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 026321 |
| 1-1/2 x 1-1/4 | 40 x 32 | 026329 |
| 2 | 50 | 026328 |

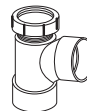
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

90° Pipe Trap Adapter H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 x 1-1/2 | 40 x 40 | 026330 |
|---------------|---------|--------|

Sanitary Tee Trap Adapter H x H x Slip Joint



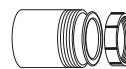
| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026179 |
|-------|----|--------|

Copper to DWV Pipe Adapter H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 026320 |
| 1-1/2 x 1-1/4 | 40 x 32 | 026430 |
| 2 | 50 | 026510 |

Tail Piece Adapter (Plastic Nut & Washer) Sp x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 026555 |
| 1-1/2 x 1-1/4 | 40 x 32 | 026556 |

Swivel Strainer Adapter H x Swivel Nut



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026577 |
|-------|----|--------|

Closet Flange One Piece Plastic Slip



| | | |
|-------|----------|--------|
| 4 | 100 | 026573 |
| 4 x 3 | 100 x 75 | 026584 |

Closet Flange One Piece Plastic Slip with Spigot End

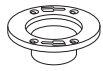


| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 026592 |
|-------|----------|--------|

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

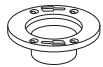
Closet Flange One Piece Plastic Slip with Molded Test Plate
 4 x 3 100 x 75 026591



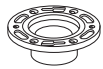
Closet Flange One Piece Plastic Slip Flush Fit
 4 x 3 100 x 75 026594



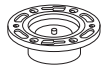
Closet Flange One Piece Plastic Slip Flush Fit w Molded Test Plate
 4 x 3 100 x 75 026595



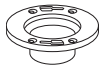
Adjustable Closet Flange with Plastic Ring Slip
 4 x 3 100 x 75 026586



Adjustable Closet Flange w Plastic Ring Slip w Molded Ring Slip
 4 x 3 100 x 75 026588



Adjustable Closet Flange with Plastic Ring Sp
 4 x 3 Close 100 x 75 Close 026587

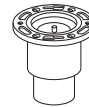


45° Disharge Closet Flange Adjustable with Plastic Ring Slip
 4 x 3 100 x 75 026589



| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Closet Flange Kit for Concrete
 4 x 3 100 x 75 026593



for use in Slab on Grade W.C. installations

Closet Flange Spacer Ring
 4 100 026176



Urinal Flange Hub
 2 50 026459

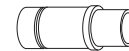
Expansion Joint – Type 1 (Vertical Use Only) H x H

| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026485 |
| 2 | 50 | 026486 |
| 3 | 75 | 026487 |



Expansion Joint – Type 1 (Vertical Use Only) H x Sp End Piston

| | | |
|-------|----|--------|
| 1-1/2 | 40 | 026491 |
| 2 | 50 | 026492 |
| 3 | 75 | 026384 |



Expansion Joint – Type 2 (Vertical Use Only) H x H

| | | |
|---|-----|--------|
| 4 | 100 | 026489 |
|---|-----|--------|



Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Dishwasher Wye H x H x Hose Barb



| | | |
|---------------------|--------------|--------|
| 1-1/2 x 1-1/2 x 1/2 | 40 x 40 x 12 | 026495 |
|---------------------|--------------|--------|

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Slip Cap H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026411 |
| 2 | 50 | 026412 |
| 3 | 75 | 026413 |
| 4 | 100 | 026414 |
| 6 | 150 | 026415 |
| 8 | 200 | 026416 |

Drain Grate Sp



| | | |
|---|-----|--------|
| 4 | 100 | 026482 |
|---|-----|--------|

Polyethylene Cap Slip-on Style




| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 026875 |
| 2 | 50 | 026876 |
| 3 | 75 | 026878 |
| 4 | 100 | 026880 |

Additional fittings up to 24" diameter may be available;
please contact IPEX for assistance.

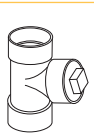
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

System XFR DWV Pipe



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 110067 |
| 2 | 50 | 110068 |
| 3 | 75 | 110069 |
| 4 | 100 | 110070 |
| 6 | 150 | 110071 |
| 8 | 200 | 110072 |
| 10 | 250 | 110073 |
| 12 | 300 | 110074 |

Line Cleanout H x H x Gasket Plug



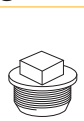
| | | |
|-----------|----------------|--------|
| 1-1/2 | 40 | 526040 |
| 2 | 50 | 526041 |
| 3 | 75 | 526103 |
| 4 | 100 | 526104 |
| 4 x 3 x 4 | 100 x 75 x 100 | 526105 |
| 6 | 150 | 526161 |
| 8 | 200 | 426162 |
| 10 | 250 | 526163 |
| 12 | 300 | 526164 |

Line Cleanout Sp x Sp x Threaded Plug FOR USE WITH MJ GREY™




| | | |
|---|-----|--------|
| 8 | 200 | 526766 |
|---|-----|--------|

Plug Cleanout MPT with gasket



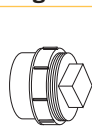
| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526401 |
| 2 | 50 | 526402 |
| 3 | 75 | 526403 |
| 4 | 100 | 526404 |
| 6 | 150 | 526405 |

Fitting Cleanout Sp x FPT



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526042 |
| 2 | 50 | 526046 |
| 3 | 75 | 526047 |
| 4 | 100 | 526048 |
| 6 | 150 | 426050 |

Fitting Cleanout Sp x Gasket Plug



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526345 |
| 2 | 50 | 526346 |
| 3 | 75 | 526347 |
| 4 | 100 | 526348 |
| 6 | 150 | 526349 |


| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Tube End Cleanout H x Gasket Plug



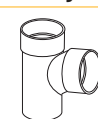
| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526291 |
| 2 | 50 | 526298 |
| 3 | 75 | 526299 |
| 4 | 100 | 526300 |

Sanitary Tee H x H x H



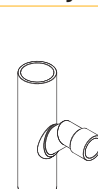
| | | |
|-------------------|--------------|--------|
| 1-1/2 | 40 | 526081 |
| 2 | 50 | 526082 |
| 2 x 1-1/2 x 1-1/2 | 50 x 40 x 40 | 526058 |
| 2 x 1-1/2 x 2 | 50 x 40 x 50 | 526057 |
| 2 x 1-1/2 | 50 x 40 | 526056 |
| 3 | 75 | 526083 |
| 3 x 1½ | 75 x 40 | 526061 |
| 3 x 2 | 75 x 50 | 526060 |
| 4 | 100 | 526084 |
| 4 x 2 | 100 x 50 | 526064 |
| 4 x 3 | 100 x 75 | 526066 |
| 6 | 150 | 526377 |
| 6 x 4 | 150 x 100 | 526385 |
| 8 | 200 | 526810 |
| 8 x 4 | 200 x 100 | 526808 |
| 8 x 6 | 200 x 150 | 526809 |
| 10 | 250 | 526814 |
| 10 x 4 | 250 x 100 | 526811 |
| 10 x 6 | 250 x 150 | 526812 |
| 10 x 8 | 250 x 200 | 526813 |
| 12 | 300 | 526819 |
| 12 x 4 | 300 x 100 | 526815 |
| 12 x 6 | 300 x 150 | 526816 |
| 12 x 8 | 300 x 200 | 526817 |
| 12 x 10 | 300 x 250 | 526818 |

Sanitary Tee Sp x H x H



| | | |
|-----------|---------|--------|
| 1-1/2 | 40 | 526550 |
| 3 x 1-1/2 | 75 x 40 | 526552 |
| 4 | 100 | 426557 |

Sanitary Tee Sp x Sp x H FOR USE WITH MJ GREY™

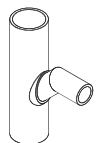


| | | |
|--------|-----------|--------|
| 8 x 4 | 200 x 100 | 526926 |
| 8 x 6 | 200 x 150 | 526998 |
| 10 x 4 | 250 x 100 | 526997 |
| 10 x 6 | 250 x 150 | 526758 |
| 12 x 4 | 300 x 100 | 526761 |
| 12 x 6 | 300 x 150 | 526762 |

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

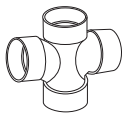
Sanitary Tee $Sp \times Sp \times Sp$



| Dimension | | Product Code |
|-----------|-----------|--------------|
| inches | mm | |
| 8 | 200 | 526999 |
| 10 x 8 | 250 x 200 | 526759 |
| 10 | 250 | 526760 |
| 12 x 8 | 300 x 200 | 526763 |
| 12 x 10 | 300 x 250 | 526764 |
| 12 | 300 | 526765 |

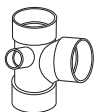
FOR USE WITH
MJ GREY™

Double Sanitary Tee $H \times H \times H \times H$



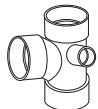
| Dimension | | Product Code |
|-----------|---------|--------------|
| inches | mm | |
| 1-1/2 | 40 | 526542 |
| 2 | 50 | 526543 |
| 2 x 1-1/2 | 50 x 40 | 526547 |
| 3 | 75 | 526544 |
| 3 x 1-1/2 | 75 x 40 | 526538 |
| 3 x 2 | 75 x 50 | 426539 |

Sanitary Tee Side Inlet (left hand) $H \times H \times H \times H \times SI$



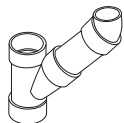
| Dimension | | Product Code |
|-------------------|-------------------|--------------|
| inches | mm | |
| 3 x 3 x 3 x 1-1/2 | 75 x 75 x 75 x 40 | 526395 |
| 3 x 3 x 3 x 2 | 75 x 75 x 75 x 50 | 526396 |

Sanitary Tee Side Inlet (right hand) $H \times H \times H \times SI \times H$



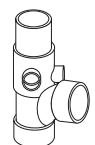
| Dimension | | Product Code |
|-------------------|-------------------|--------------|
| inches | mm | |
| 3 x 3 x 3 x 1-1/2 | 75 x 75 x 75 x 40 | 526397 |
| 3 x 3 x 3 x 2 | 75 x 75 x 75 x 50 | 526398 |

Upright Extended Wye $H \times H \times H \times Sp$



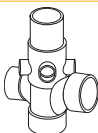
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |
| 3 | 75 | 526006 |

Single Apartment Fitting $H \times Sp \times H$



| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |
| 3 | 75 | 526007 |

Double Apartment Fitting $H \times Sp \times H \times H$



| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |
| 3 | 75 | 526008 |

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

90° Elbow $H \times H$



| Dimension | | Product Code |
|-----------|------|--------------|
| inches | mm | |
| 1-1/2 | 40 | 526121 |
| 1-1/2 L | 40 L | 426024 |
| 2 | 50 | 526035 |
| 2 L | 50 L | 526122 |
| 3 | 75 | 526025 |
| 3 L | 75 L | 526123 |
| 4 | 100 | 526124 |
| 6 | 150 | 526125 |
| 8 | 200 | 526126 |
| 10 | 250 | 526127 |
| 12 | 300 | 526128 |

90° Elbow $Sp \times H$



| Dimension | | Product Code |
|-----------|-----|--------------|
| inches | mm | |
| 1-1/2 | 40 | 526231 |
| 2 | 50 | 526232 |
| 3 | 75 | 526233 |
| 4 | 100 | 526234 |
| 6 | 150 | 526235 |
| 8 | 200 | 526236 |
| 10 | 250 | 526237 |
| 12 | 300 | 526238 |

90° Elbow $Sp \times Sp$



| Dimension | | Product Code |
|-----------|-----|--------------|
| inches | mm | |
| 8 | 200 | 526967 |
| 10 | 250 | 526968 |
| 12 | 300 | 526970 |

90° Reducing Elbow Closet Bend Reducing $Sp \times H$



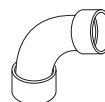
| Dimension | | Product Code |
|-----------|----------|--------------|
| inches | mm | |
| 4 x 3 | 100 x 75 | 426026 |

90° Reducing Elbow $H \times H$



| Dimension | | Product Code |
|-----------|----------|--------------|
| inches | mm | |
| 4 x 3 | 100 x 75 | 526155 |

90° Elbow Extra Long Sweep $H \times H$

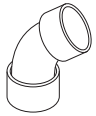


| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |
| 2 | 50 | 426157 |

Product Availability

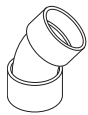
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

60° Elbow H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526261 |
| 2 | 50 | 526262 |
| 3 | 75 | 526253 |
| 4 | 100 | 526264 |

45° Elbow Short Turn H x H



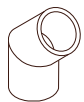
| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526241 |
| 2 | 50 | 526242 |
| 3 | 75 | 526243 |
| 4 | 100 | 526244 |
| 6 | 150 | 526245 |
| 8 | 200 | 526246 |
| 10 | 250 | 526247 |
| 12 | 300 | 526248 |

45° Elbow Short Turn Sp x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526221 |
| 2 | 50 | 526071 |
| 3 | 75 | 526223 |
| 4 | 100 | 526072 |
| 6 | 150 | 526073 |
| 8 | 200 | 526226 |
| 10 | 250 | 526270 |
| 12 | 300 | 526271 |

45° Elbow Short Turn Sp x Sp



| | | |
|----|-----|--------|
| 8 | 200 | 526971 |
| 10 | 250 | 526770 |
| 12 | 300 | 526771 |

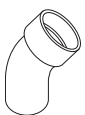
FOR USE WITH
MJ GREY™

45° Elbow Long Turn H x H



| | | |
|---|-----|--------|
| 6 | 150 | 426038 |
|---|-----|--------|

45° Elbow Long Turn Sp x H



| | | |
|---|-----|--------|
| 6 | 150 | 426225 |
|---|-----|--------|

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

22-1/2° Elbow H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526251 |
| 2 | 50 | 526252 |
| 3 | 75 | 526253 |
| 4 | 100 | 526254 |
| 6 | 150 | 526255 |
| 8 | 200 | 526256 |
| 10 | 250 | 526257 |
| 12 | 300 | 526258 |

22-1/2° Elbow Sp x H



| | | |
|----|-----|--------|
| 6 | 150 | 526651 |
| 8 | 200 | 526652 |
| 10 | 250 | 526653 |
| 12 | 300 | 526654 |

22-1/2° Elbow Sp x Sp



| | | |
|----|-----|--------|
| 8 | 200 | 526972 |
| 10 | 250 | 526973 |
| 12 | 300 | 526908 |

FOR USE WITH
MJ GREY™

11-1/4° Elbow H x H



| | | |
|----|-----|--------|
| 6 | 150 | 526671 |
| 8 | 200 | 526672 |
| 10 | 250 | 526673 |
| 12 | 300 | 526674 |

11-1/4° Elbow Sp x H



| | | |
|----|-----|--------|
| 6 | 150 | 526681 |
| 8 | 200 | 526682 |
| 10 | 250 | 526683 |
| 12 | 300 | 526684 |

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

45° Wye H x H x H



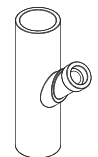
| | | |
|-------------------|--------------|--------|
| 1-1/2 | 40 | 526171 |
| 2 | 50 | 526172 |
| 2 x 1-1/2 x 1-1/2 | 50 x 40 x 40 | 526194 |
| 2 x 1-1/2 | 50 x 40 | 526195 |
| 3 | 75 | 526173 |
| 3 x 1-1/2 | 75 x 40 | 526201 |
| 3 x 2 | 75 x 50 | 526196 |
| 4 | 100 | 526174 |
| 4 x 2 | 100 x 50 | 526198 |
| 4 x 3 | 100 x 75 | 526197 |
| 6 | 150 | 526175 |
| 6 x 4 | 150 x 100 | 526199 |
| 8 | 200 | 526560 |
| 8 x 4 | 200 x 100 | 526606 |
| 8 x 6 | 200 x 150 | 526607 |
| 10 | 250 | 526706 |
| 10 x 4 | 250 x 100 | 526703 |
| 10 x 6 | 250 x 150 | 526704 |
| 10 x 8 | 250 x 200 | 526705 |
| 12 | 300 | 526711 |
| 12 x 4 | 300 x 100 | 526707 |
| 12 x 6 | 300 x 150 | 526708 |
| 12 x 8 | 300 x 200 | 526709 |
| 12 x 10 | 300 x 250 | 526710 |

45° Wye Sp x H x H



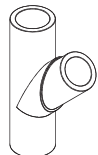
| | | |
|-----------|---------|--------|
| 3 | 75 | 426635 |
| 3 x 1-1/2 | 75 x 40 | 426638 |

45° Wye Sp x Sp x H



| | | |
|--------|-----------|--------|
| 8 x 4 | 200 x 100 | 526985 |
| 8 x 6 | 200 x 150 | 526986 |
| 10 x 4 | 250 x 100 | 526988 |
| 10 x 6 | 250 x 150 | 526989 |
| 12 x 4 | 300 x 100 | 526992 |
| 12 x 6 | 300 x 150 | 526993 |

45° Wye Sp



| | | |
|---------|-----------|--------|
| 8 | 200 | 526987 |
| 10 x 8 | 250 x 200 | 526990 |
| 10 | 250 | 526991 |
| 12 x 8 | 300 x 200 | 526994 |
| 12 x 10 | 300 x 250 | 526995 |
| 12 | 300 | 526996 |

FOR USE WITH
MJ GREY™

FOR USE WITH
MJ GREY™

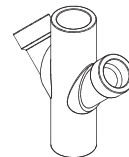
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Double 45° Wye H x H x H x H



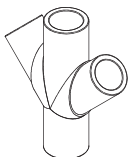
| | | |
|-----------|-----------|--------|
| 1-1/2 | 40 | 526637 |
| 2 | 50 | 526456 |
| 2 x 1-1/2 | 50 x 40 | 526642 |
| 3 | 75 | 526639 |
| 3 x 1-1/2 | 75 x 40 | 526643 |
| 3 x 2 | 75 x 50 | 526644 |
| 4 x 3 | 100 x 75 | 526457 |
| 6 | 150 | 426752 |
| 8 | 200 | 426755 |
| 8 x 4 | 200 x 100 | 426753 |
| 8 x 6 | 200 x 150 | 526754 |
| 10 | 250 | 426759 |
| 10 x 4 | 250 x 100 | 426756 |
| 10 x 6 | 250 x 150 | 426757 |
| 10 x 8 | 250 x 200 | 426758 |
| 12 | 300 | 426764 |
| 12 x 4 | 300 x 100 | 426760 |
| 12 x 6 | 300 x 150 | 426761 |
| 12 x 8 | 300 x 200 | 426762 |
| 12 x 10 | 300 x 250 | 426763 |

45° Double Wye Sp x Sp x H x H



| | | |
|--------|-----------|--------|
| 8 x 4 | 200 x 100 | 526769 |
| 8 x 6 | 200 x 150 | 526974 |
| 10 x 4 | 250 x 100 | 526976 |
| 10 x 6 | 250 x 150 | 526977 |
| 12 x 4 | 300 x 100 | 526980 |
| 12 x 6 | 300 x 150 | 526982 |

45° Double Wye Sp x Sp x Sp x Sp



| | | |
|---------|-----------|--------|
| 8 | 200 | 526975 |
| 10 | 250 | 526979 |
| 10 x 8 | 250 x 200 | 526978 |
| 12 x 8 | 300 x 200 | 526983 |
| 12 x 10 | 300 x 250 | 526984 |

Product Availability

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Increaser Coupling H x H



| | | |
|-----------|-----------|--------|
| 2 x 1-1/2 | 50 x 40 | 526362 |
| 3 x 1-1/2 | 75 x 40 | 526363 |
| 3 x 2 | 75 x 50 | 526364 |
| 4 x 1-1/2 | 100 x 40 | 526369 |
| 4 x 2 | 100 x 50 | 526365 |
| 4 x 3 | 100 x 75 | 526366 |
| 6 x 4 | 150 x 100 | 526860 |
| 8 x 4 | 200 x 100 | 526861 |
| 8 x 6 | 200 x 150 | 526867 |
| 10 x 4 | 250 x 100 | 526862 |
| 10 x 6 | 250 x 150 | 526868 |
| 10 x 8 | 250 x 200 | 526900 |
| 12 x 6 | 300 x 150 | 526869 |
| 12 x 8 | 300 x 200 | 526901 |
| 12 x 10 | 300 x 250 | 526907 |

Reducer Bushing Sp x H



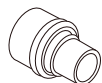
| | | |
|-----------|-----------|--------|
| 2 x 1-1/2 | 50 x 40 | 526282 |
| 3 x 1-1/2 | 75 x 40 | 526292 |
| 3 x 2 | 75 x 50 | 526284 |
| 4 x 2 | 100 x 50 | 526288 |
| 4 x 3 | 100 x 75 | 526286 |
| 6 x 4 | 150 x 100 | 526054 |
| 8 x 4 | 200 x 100 | 526446 |
| 8 x 6 | 200 x 150 | 526447 |

Reducer Bushing (Extended) Sp x H



| | | |
|---------|-----------|--------|
| 10 x 4 | 250 x 100 | 526296 |
| 10 x 6 | 250 x 150 | 526297 |
| 10 x 8 | 250 x 200 | 526962 |
| 12 x 4 | 300 x 100 | 526963 |
| 12 x 6 | 300 x 150 | 526964 |
| 12 x 8 | 300 x 200 | 526965 |
| 12 x 10 | 300 x 250 | 526966 |

Reducer Bushing (Extended) Sp x Sp FOR USE WITH MJ GREY™



| | | |
|---------|-----------|--------|
| 10 x 8 | 250 x 200 | 526981 |
| 12 x 8 | 300 x 200 | 526767 |
| 12 x 10 | 300 x 250 | 526768 |

| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Male Adapter H x MPT



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526331 |
| 2 | 50 | 526332 |
| 3 | 75 | 526333 |
| 4 | 100 | 526334 |

Female Adapter H x FPT



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526341 |
| 2 | 50 | 526342 |
| 3 | 75 | 526343 |
| 4 | 100 | 526344 |

Coupling H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526351 |
| 2 | 50 | 526352 |
| 3 | 75 | 526353 |
| 4 | 100 | 526354 |
| 6 | 150 | 526356 |
| 8 | 200 | 526358 |
| 10 | 250 | 526359 |
| 12 | 300 | 526360 |

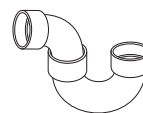
Plastic MJ Spigot MJ Sp x H



| | | |
|---|-----|--------|
| 2 | 50 | 526522 |
| 3 | 75 | 526523 |
| 4 | 100 | 526524 |

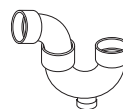
Adapts M-J Cast Iron Pipe to Plastic DWV Pipe

P Trap Solvent Weld H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526431 |
| 2 | 50 | 526432 |
| 3 | 75 | 526433 |
| 4 | 100 | 526434 |

P Trap Solvent Weld with Cleanout H x H

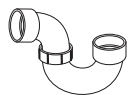


| | | |
|-------|----|--------|
| 1-1/2 | 40 | 526441 |
| 2 | 50 | 526442 |

Product Availability

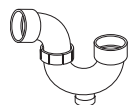
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

P Trap Union Connection H x H



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 526443 |
| 2 | 50 | 526444 |

P Trap Union Connection with Cleanout H x H



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 526505 |
|-------|----|--------|

U Bend H x H



| | | |
|---|-----|--------|
| 4 | 100 | 526499 |
| 6 | 150 | 426503 |

Fitting Trap Adapter Sp x Slip Joint



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 426304 |
| 2 | 50 | 426305 |

Plastic Nut & Washer

Pipe Trap Adapter H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 526321 |
| 1-1/2 x 1-1/4 | 40 x 32 | 526329 |

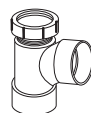
Plastic Nut & Washer

90° Pipe Trap Adapter H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 x 1-1/2 | 40 x 40 | 526330 |
|---------------|---------|--------|

Sanitary Tee Trap Adapter H x Slip Joint x H



| | | |
|-------|----|--------|
| 1-1/2 | 40 | 426179 |
|-------|----|--------|

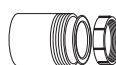
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Copper to DWV Pipe Adapter H x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 426320 |
| 1-1/2 x 1-1/4 | 40 x 32 | 426430 |
| 2 | 50 | 426510 |

Tail Piece Adapter Sp x Slip Joint



| | | |
|---------------|---------|--------|
| 1-1/2 | 40 | 526555 |
| 1-1/2 x 1-1/4 | 40 x 32 | 526556 |

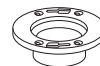
Plastic Nut & Washer

Swivel Strainer Adapter H x Swivel Nut



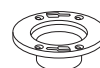
| | | |
|-------|----|--------|
| 1-1/2 | 40 | 426894 |
|-------|----|--------|

Closet Flange One Piece Plastic Slip



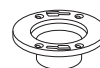
| | | |
|-------|----------|--------|
| 4 | 100 | 526573 |
| 4 x 3 | 100 x 75 | 526584 |

Closet Flange One Piece Plastic Slip w Spigot End



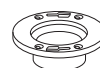
| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 526592 |
|-------|----------|--------|

Closet Flange One Piece Plastic Slip w Molded Test Plate



| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 526591 |
|-------|----------|--------|

Closet Flange One Piece Plastic Slip Flush Kit



| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 426594 |
|-------|----------|--------|

Product Availability

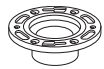
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Closet Flange One Piece Plastic Slip Flush Kit w Molded Test Plate



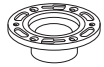
| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 526595 |
|-------|----------|--------|

Adjustable Closet Flange with Plastic Ring Slip



| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 526586 |
|-------|----------|--------|

Adjustable Closet Flange w Plastic Ring Slip w Molded Test Plate



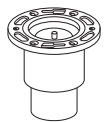
| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 526588 |
|-------|----------|--------|

45° Discharge Closet Flange Adjustable w Plastic Ring



| | | |
|-------|----------|--------|
| 4 x 3 | 100 x 75 | 426589 |
|-------|----------|--------|

Closet Flange Kit for Concrete



| | | |
|---|----------|--------|
| 4 x 3 | 100 x 75 | 426593 |
| for use in Slab on Grade W.C. installations | | |

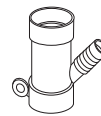
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

Expansion Joint - Type 1 (Vertical & Horizontal Use) H x H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526485 |
| 2 | 50 | 526486 |
| 3 | 75 | 526487 |
| 4 | 100 | 526489 |
| 6 | 150 | 426209 |
| 8 | 200 | 426210 |
| 10 | 250 | 426211 |
| 12 | 300 | 426212 |

Dishwasher Wye H x H x Hose Barb



| | | |
|---------------------|--------------|--------|
| 1-1/2 x 1-1/2 x 1/2 | 40 x 40 x 12 | 526495 |
|---------------------|--------------|--------|

Slip Cap H



| | | |
|-------|-----|--------|
| 1-1/2 | 40 | 526411 |
| 2 | 50 | 526412 |
| 3 | 75 | 526413 |
| 4 | 100 | 526414 |
| 6 | 150 | 526415 |
| 8 | 200 | 526416 |
| 10 | 250 | 526417 |
| 12 | 300 | 526418 |

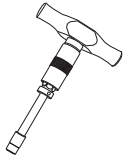
| Dimension | | Product Code |
|-----------|----|--------------|
| inches | mm | |

MJ Coupling H x H



| | | |
|----|-----|--------|
| 8 | 200 | 094053 |
| 10 | 250 | 094054 |
| 12 | 300 | 094055 |

T-Handle Torque Wrench 80 in-lb



| | |
|--------------|--------|
| 5/16" socket | 094139 |
|--------------|--------|

SOLVENT CEMENT

Only high quality IPEX System 15/XFR cements and primers are recommended for use with System 15 or System XFR DWV piping.

This product offering includes One-Step (i.e. no primer required) in both Medium Bodied and Heavy Bodied, as well as Two-Step formulations, all of which are grey in color. Our System 15/XFR cement products are CSA certified.

Meets Low VOC limit of 510 mg/L as per SCAQMD Rule 1168.

Specific cement recommendations are shown below for proper selection of System 15/XFR cement products.

| Cement Selection | | Proper Cement Applicators | |
|------------------|-----------------------------------|---------------------------|----------------------|
| Pipe Diameter | IPEX System 15®/ System XFR® | Pipe Diameter | Applicator |
| 1-1/2" to 6" | One-Step with or without Primer | 1-1/2" to 3" | 1" Round Dauber |
| 8" to 12" | Two-Step Cement with Primer | 3" to 6" | 3" Roller |
| 14" and larger | Xirtec® 19 PVC cement with Primer | 8" and larger | 7" Roller or 6" Swab |

Average Joint Cure Schedule for System 15/XFR Solvent Cements

| Temperature Range (during assembly) | Cure Time Pipe Sizes 1-1/2" to 2" | Cure Time Pipe Sizes 3" to 8" | Cure Time Pipe Sizes 10" to 14" | Cure Time Pipe Sizes 16" + |
|-------------------------------------|-----------------------------------|-------------------------------|---------------------------------|----------------------------|
| 60° to 100°F | 30 minutes | 1-1/2 hours | 48 hours | 72 hours |
| 40° to 60°F | 45 minutes | 4 hours | 96 hours | 6 days |
| 0° to 40°F | 1 hour | 72 hours | 8 days | 14 days |

* The figures in the table are estimates based on laboratory tests for water applications (chemical applications may require different set times). In damp or humid weather (relative humidity over 60%) allow 50% more cure time.

NOTE 1: Due to the many variables in the field, these figures should be used as a general guideline only.

NOTE 2: Joint cure schedule is the necessary time needed before pressurizing the system.

Cold Weather

Although normal installation temperatures are between 40°F (4°C) and 110°F (43°C), high strength joints have been made at temperatures as low as -15°F (-26°C).

In cold weather, solvents penetrate and soften the plastic pipe and fitting surfaces more slowly than in warm weather. In this situation, the plastic is more resistant to solvent attack and it becomes even more important to pre-soften surfaces with an aggressive primer. Be aware that because of slower evaporation, a longer cure time is necessary.

Tips for solvent cementing in cold weather

- Prefabricate as much of the system as is possible in a heated work area.
- Store cements and primers in a warmer area when not in use and make sure they remain fluid.
- Take special care to remove moisture including ice and snow from the surfaces to be joined.
- Ensure that the temperature of the materials to be joined (re: pipe and fittings) is similar.
- Use System15/XFR Primer to soften the joining surfaces before applying cement. More than one application may be necessary.
- Allow a longer cure period before the system is used.

NOTE: A heat blanket may be used to speed up the set and cure times.

Hot Weather

There may be occasions when solvent cementing plastic pipe at 95°F (35°C) temperatures and above cannot be avoided. If special precautions are taken, problems can be avoided.

Solvent cements for plastic pipe contain high-strength solvents which evaporate faster at elevated temperatures. This is especially true when there is a hot wind blowing. If the pipe is stored in direct sunlight, the pipe surface temperatures may be 20°F to 30°F (10°C to 15°C) higher than the ambient temperature. In this situation, the plastic is less resistant to attack and the solvents will attack faster and deeper, especially inside a joint. It is therefore very important to avoid puddling the cement inside the fitting socket and to ensure that any excess cement outside the joint is wiped off.

Tips for solvent cementing in hot weather:

- Store solvent cements and primers in a cool or shaded area prior to use.
- If possible, store fittings and pipe or at least the ends to be solvent welded, in a shady area before cementing.
- Try to do the solvent cementing in cooler morning hours.
- Cool surfaces to be joined by wiping with a damp rag.
- Make sure that the surface is dry prior to applying solvent cement.
- Make sure that both surfaces to be joined are still wet with cement when putting them together. With large size pipe, more people on the crew may be necessary.
- Using a primer and a heavier, high-viscosity cement will provide a little more working time.

NOTE: During hot weather, the expansion-contraction effect may increase. For additional information, please refer to the most current IPEX Mechanical Technical Manual – Drainage Systems for Noncombustible Construction.

HANDLING AND STORAGE

System 15 and System XFR are strong, lightweight piping materials and, as such, are easily handled. However, because of their light weight there is a tendency for this product to be mishandled on the jobsite.



CAUTION

Use a forklift to unload System 15 and System XFR crates directly from the delivery vehicle. Avoid using wire ropes, chains or slings. Failure to properly handle crates may cause injury.

As is common for most rigid piping materials, impact strength for System 15 and XFR is reduced in colder weather. Thus, when unloading these components in cold weather, take extra care to minimize impact damage. Since the soundness of any joint depends on the condition of the pipe end, exercise care during storage and handling to avoid damaging these ends.

While in transit, make sure pipe and fittings are well-secured, so there is no potential for a load to shift.

When storing System 15 and System XFR pipe, bear the following points in mind:

- Treat these products as you would other DWV piping products: take care during handling and storage to prevent damaging the pipe.
- Store System 15 and System XFR pipe on a level surface. If placed on the ground, make sure the pipe is supported by timbers spaced no more than 3 feet apart.
- When storing pipe on a flat smooth surface place smaller diameter pipe on top of larger pipe.
- Make sure the pipe is not stored close to sources of heat such as boilers, steam lines, engine exhaust outlets, etc.

PROLONGED OUTDOOR STORAGE AND PROTECTION

System 15® and System XFR®

Prolonged exposure of System 15 and System XFR pipe to direct rays of the sun will not damage the pipe. However, some mild discoloration may take place in the form of a milky film on exposed surfaces. This change in colour indicates a harmless chemical transformation at the surface of the pipe. A slight reduction in impact strength may occur at the discolored surfaces, but is not enough to cause problems in field installation or operation.

Discoloration of the pipe can be avoided by shading it from the direct rays of the sun. This can be accomplished by covering the stockpile or the crated pipe with an opaque material such as canvas. If the pipe is covered, always allow for circulation of air through the pipe to avoid heat buildup in hot summer weather. (Refer to the section entitled 'Painting' below for more information.)

PAINTING

System 15 and System XFR pipe and fittings can be easily protected from ultraviolet oxidation by painting with a heavily pigmented, exterior water-based latex paint. White or a similar light colour is preferred to minimize heat absorption on the pipe surface. Apply latex paint thickly as an opaque coating on well cleaned and lightly sanded pipe and fittings.



PIPE DIAMETERS 1-1/2" – 6"

Installers have two options for these sized pipes: either One- or Two-Step Cement. IPEX System 15 and System XFR one-step cement eliminates primer from the solvent welding process, thus saving time and material costs.

Because, System 15 and System XFR One-Step cement does not require the use of a primer, there is a minimum temperature recommended when using this product. Contact IPEX for guidelines.

Although a number of One-Step cements are available, not all of them are equal. Various levels of solvent and PVC resin in each formulation may alter results of the installation:

- A product with too little solvent may not sufficiently soften the surfaces prior to inserting the pipe into the fitting.
- A product with too little PVC resin may not be heavy enough to sufficiently fill the area between pipe and fitting at the socket end of the joint.

IPEX System15/XFR One-Step Cement has been tested with System 15 and System XFR piping and is strongly recommended to be used for best results.

PIPE DIAMETERS 8" & ABOVE

IPEX does not recommend One-Step cement from any manufacturer be used for DWV applications with this size pipe diameter. For specific installation recommendations using large diameter pipe, consult IPEX's Solvent Cementing Guide. When requested, IPEX representatives will also visit a jobsite to provide an onsite demonstration of recommended solvent cementing procedures.

For larger pipe diameters, select System 15/XFR Two-Step cement along with System 15/XFR primer. This Two-Step cement is a heavy-bodied, medium-setting cement that provides the good gap filling capabilities required for pipe sizes through to 12".

IPEX recommends Xirtec® 19 PVC cement for System 15 in sizes larger than 12".

More care should be used when using solvent cement in below freezing temperatures. Solvent cement products should be stored in a warm environment prior to use in colder weather to avoid the possibility of freezing. Consideration may also be given to the use of MJ Grey Couplings in available sizes as an alternate to solvent welding in colder conditions.

HANDLING AND STORAGE

Solvent Cement

Store in the shade between 4°C (40°F) and 43°C (110°F) or as specified on label. Keep away from heat, spark, open flame and other sources of ignition. Keep container closed when not in use. If the unopened container is subjected to freezing, it may become extremely thick or gelled. This cement can be placed in a warm area, where after a period of time, it will return to its original, usable condition. But such is not the case when gelatin has taken place because of actual solvent loss — for example, when the container was left open too long during use or not properly sealed after use. Cement in this condition should not be used and should be properly discarded.

IPEX solvent cements are formulated to be used "as received" in original containers. Adding thinners or primers to change viscosity is not permitted. If the cement is found to be jelly-like and not free flowing, it should not be used.



WARNING

PVC

Primer and cement must be used within 3 years of the date of manufacture shown on the bottom of the can.

DO NOT USE primer or cement which is greater than 3 years old.



TESTING DRAINAGE SYSTEMS

After a system is installed and all solvent weld joints cured, a hydrostatic pressure test should be performed prior to the piping system being commissioned. Testing of drainage and venting systems shall be conducted in accordance to the requirements of local plumbing codes.

When pressure testing, the system should be slowly filled with water and all air bled from the highest and farthest points in the installation. Once the system has reached the desired test pressure, it should remain at this pressure for one hour.

During this time the assembled sections should be visually inspected for joint leaks that may have occurred in the system. If a leak is discovered at a solvent weld joint, the joint must be removed and replaced or alternatively may be back-welded in place by a worker certified or experienced in thermoplastic welding. It is not necessary to fully drain the system if the affected fitting can be isolated for the required work.

Solvent weld systems may be pressure-tested with water at levels higher than code requirements if desired by the project design engineer. Contact IPEX for details.

Normal testing procedures for System 15 or System XFR may be employed if using MJ Grey couplings. Maximum water pressure shall be 10 feet of head for all sizes. Proper safety precautions and protective equipment should be employed during all testing procedures.

CODE COMPATIBILITY

System 15 pipe and fittings, when used in combination with System XFR, not only satisfies National and Provincial Building Codes but also provides a cost effective trouble-free long-term installation.

- To use thermoplastic piping in a building classified as noncombustible, the material must meet a Flame Spread Rating of 25 or less. Approval to use thermoplastic piping in noncombustible buildings is detailed in clause 3.1.5.16 of the building code.
- Products for use within air plenums must meet a flame spread of 25 or less and a Smoke Developed Classification of 50 or less. (Building Code article 3.6.4.3. (1).)
- Products to be used within a building deemed to be high-rise must also meet a maximum Flame Spread Rating of 25 and maximum Smoke Developed Classification of 50.
- The above Flame and Smoke values are confirmed through listings to ULC S102.2, latest edition.

By using System 15 and System XFR in combination, designers and contractors can maximize the potential installation and cost benefits offered by these two products.

System 15®

System 15 meets the requirements of noncombustible construction.

In noncombustible buildings, System 15 may be used throughout the building, except for the limitations noted on the following page in the Specifications section. When the piping system enters an air plenum, the transition to System XFR must be made before entering into the plenum space.

System XFR®

System XFR meets the requirements for noncombustible buildings, and the further restrictions of smoke development for air plenums and high-rise buildings.

In high-rise buildings, System XFR must be used throughout the building including parking garages in order to meet the Smoke Developed limit of 50.

NOTE: Combustible DWV piping products are not allowed in a vertical service space.

Drain-Guard™ Double Containment

Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. The many performance benefits of System 15 and System XFR are enhanced by this dual pipe concept.

MJ Grey™

Meets all the same requirements of System 15 and System XFR and can be used in the same applications.

LISTED SUMMARY

| Component | Flame-Spread Rating | Smoke Developed Classification |
|---|---------------------|--------------------------------|
| System 15® | | |
| Pipe | 10 | N/A |
| Fittings | 15 | N/A |
| System XFR® | | |
| Pipe | ≤ 25 | ≤ 50 |
| Fittings | ≤ 25 | ≤ 50 |
| Drain-Guard™ Double Containment | | |
| Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. The many performance benefits of System 15 and System XFR are enhanced by this dual pipe concept. | | |
| MJ Grey™ | | |
| Couplings | ≤ 25 | ≤ 50 |

MECHANICAL EASY SPECIFICATIONS

**Applications as per 2010
National Building Code of Canada (NBC) Suitability for Use**

| Product | Non-Combustible Building | | | | |
|--------------------------------|---|------------|-------------------------|--------------------|-------------|
| | General Usage | Air Plenum | Vertical Service Spaces | High-Rise Building | Underground |
| System 15 DWV | P† | N | N | N | P |
| System XFR DWV | P | P | N | P | P |
| Drain-Guard Double Containment | Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. | | | | |
| MJ Grey Coupling | P | P | N | P | P* |

† 24" is not permitted

* Permitted by Code but not recommended by IPEX

P = Permitted

N = Not Permitted

System 15® DWV Pipe and Fittings

IPEX System 15 Drain, Waste and Vent pipe and fittings shall be certified to CSA B181.2. When combustible pipe and fittings are used in buildings required to be of noncombustible construction, they shall be listed in accordance with ULC S102.2 and clearly marked with the certification logo of the testing agency indicating a Flame Spread Rating not greater than 25.

System XFR® DWV Pipe and Fittings

IPEX System XFR Drain, Waste and Vent pipe and fittings shall be certified to CSA B181.2 and when used in noncombustible construction, high-rise buildings and air plenums, they shall be tested and listed in accordance with CAN/ULC S102.2 and clearly marked with the certification logo indicating a Flame Spread Rating not more than 25 and a Smoke Developed Classification not exceeding 50. System XFR pipe must only be installed with System XFR or FR-PRO fittings to ensure compliance with Flame and Smoke listings.

Drain-Guard™ Double Containment

Drain-Guard double containment piping systems provide safe transport of sanitary or storm drainage in critical areas. Should a leak occur, people, equipment and valuable property will be protected from possible harm.

Depending on your application, Drain-Guard is a double containment piping system using System 15 and or System XFR as its primary components. The many performance benefits of System 15 and System XFR are enhanced by this dual pipe concept, including excellent thermal properties, improved flow, longevity and durability, and the security of meeting all code requirements for noncombustible buildings.

To ensure the full integrity of the completed system, all components shall be supplied by IPEX.

MJ Grey™ Couplings

MJ Grey Couplings are a mechanical joint assembly suitable only for use on IPEX System 15 or System XFR pipe and fittings. These couplings come in sizes 8" – 12", are certified to CSA B602 and are listed to ULC S102.2 exhibiting Flame/Smoke ratings of 25/50.

Firestopping Devices

Firestopping systems for System 15/XFR shall be listed to CAN4-S115 and tested with a pressure differential of 50 Pa. Listed firestopping systems are required whenever the piping penetrates a fire-rated vertical or horizontal separation.

Solvent Cements

System 15/XFR cements shall be CSA certified and meet the requirements of ASTM D2564. System 15/XFR One-Step Cement may be used for sizes 1-1/2" to 6" only. For sizes 8" to 24", System 15/XFR Two-Step cement must be used in conjunction with System 15/System XFR primer. Consideration may also be given to the use of Xirtec® 19 cement for sizes over 12". Proper solvent cementing procedures must be followed at all times.

Design and Installation

The design and installation of PVC systems shall be performed in accordance with the recommendations detailed in the Handling and Installation section of this Submittal Data Sheet, local and national regulations where applicable.

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have earned a reputation for product innovation, quality, end-user focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing piping systems
- PE Electrofusion systems for gas and water
- Industrial, plumbing and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVCO, ABS, PEX, FR-PVDF, NFRPP, FRPP, HDPE, PVDF and PE pipe and fittings (1/2" – 48")

Products manufactured by IPEX Inc.

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