Submittal Data Sheet

Date

Date

Date



< STANDARDS >





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)



Products manufactured by/for IPEX Inc.

Canada: Website: www.ipexinc.com

Toll Free: 866-473-9462

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Product Data Sheet

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.

Material Description

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.

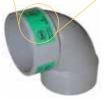
VISUAL ID

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 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.



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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.

System15[®] & 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

Pipe Weight

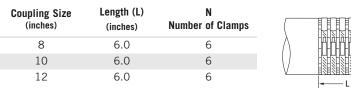
Weight differences between various materials can influence a project significantly. During handling and installation, heavier piping products may incur additional costs for the extra manpower and equipment. Other effects of heavier systems may include reduced daily production levels, and impact on worker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

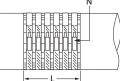
The table below compares the weights of three more commonly specified DWV piping materials.

Weight Comparison

Size	-	m 15® æm XFR®	Cast	Iron
(in.)	(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	-	-

MJ Grey[™] Dimensions







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SYSTEM15° DWV

DWV Systems

Product Ava	ailability
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	Dir	nension	Product
	inches	mm	Code
System 15 DW\	/ Pipe		
-	1-1/2	40	010001
	2	50	010002
	3	75	010003
Plain End	4	100	010004
12 foot lengths	6	150	010006
0	8	200	010087
	10	250	010088
	12	300	010089
	* 4	100	010016
	* 6	150	010007
	8	200	010008
Bell End	10	250	010010
20 foot lengths	12	300	010012
	14	350	010031
	16	400	010032
	18	450	010034
	20	500	010035
	24	600	010036
	Western Cana	da only.	
Line Cleanout	НхНхGas	sket Plug	
Line Cleanout	H x H x Gas		026040
Line Cleanout	1-1/2	40	026040
Line Cleanout			026040 026041 026103
Line Cleanout	1-1/2 2	40 50	026041
ine Cleanout	1-1/2 2 3	40 50 75	026041 026103
Line Cleanout	1-1/2 2 3 4	40 50 75 100	026041 026103 026104
	1-1/2 2 3 4 4 x 3 x 4 6	40 50 75 100 100 x 75 x 100 150	026041 026103 026104 026105 026161
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6	40 50 75 100 100 x 75 x 100 150	026041 026103 026104 026105 026161
	1-1/2 2 3 4 4 x 3 x 4 6	40 50 75 100 100 x 75 x 100 150	026041 026103 026104 026105 026161
	1-1/2 2 3 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200	026041 026103 026104 026105 026161
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200	026041 026103 026104 026105 026161
Line Cleanout	1-1/2 2 3 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200	026041 026103 026104 026105 026161 MJ GREN 226953
Line Cleanout	1-1/2 2 3 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200	026041 026103 026104 026105 026161 MJ GRED 226953
ine Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75 100	026041 026103 026104 026105 026161 MJ GRED 226953 026401 026402
Line Cleanout	1-1/2 2 3 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75	026041 026103 026104 026105 026161 MJ GRED 226953 026401 026402 026403
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3 4 6	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75 100	026041 026103 026104 026105 026161 MJ GRED 226953 026401 026402 026403 026404
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3 4 6	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75 100	026041 026103 026104 026105 026161 MJ GRED 226953 026401 026402 026403 026404
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3 4 6 t Sp x FPT	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75 100 150	026041 026103 026104 026105 026161 MJ GREX 226953 026401 026402 026403 026404 026405
Line Cleanout	1-1/2 2 3 4 4 x 3 x 4 6 Sp x Sp x T 8 MPT with G 1-1/2 2 3 4 6 t Sp x FPT 2	40 50 75 100 100 x 75 x 100 150 hreaded Plug 200 asket 40 50 75 100 150 50	026041 026103 026104 026105 026161 MJ GREX 226953 026401 026402 026403 026404 026405

	Dimer	Dimension		
	inches	mm	Code	
Fitting Cleano	ut Sp x Gaske	t Threaded P	lug	
	1-1/2	40	026345	
	2	50	026346	
-	-			

	3	75	026347
	4	100	026348
HY	6	150	026349
	8	200	026301

Tube End Cleanout H x Gasket Plug

		-	
	1-1/2	40	026291
	2	50	026298
	3	75	026299
	4	100	026300

Sanitary Tee H x H x H

initally lee	пхпхп		
	1-1/2	40	026081
	2	50	026082
\bigcirc	2 x 1-1/2 x 1-1/2	50 x 40 x 40	026058
10	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
M_	3	75	026083
\bigcirc	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



SYSTEM15° DWV

mm

40 L

50 L

75 L

100 x 75

100 x 75

НхН

Closet Bend Reducing Sp x H

Product Code

FOR USE WITH **MJ GREY**^{**}

Product Availability

Dimension

	Dim	ension	Product		[
	inches	mm	Code		inches
anitary Te				90° Elbow	
intary ie		40	000550	30 EINUW	
	1-1/2	40	026550		1 1/2 1-1/2 L
$\overline{\mathbf{A}}$	3 x 3 x 1-1/2 4	75 x 75 x 40 100	026552 026557		1-1/2 L 2
U	4	100	020337		2 L 3
ary Te	e SpxSpxH	1	FOR USE WITH		3 L
-	8 x 4	200 x 100	226955	-	4
	8 x 6	200 x 150	226940		6
	10 x 4	250 x 100	226939		8
\sim	10 x 6	250 x 150	226942		10
\mathcal{O}	12 x 4	300 x 100	226945		12
	12 x 6	300 x 150	226946		14 16
					18
ary Te	e SpxSpxSp	Л	FOR USE WITH		
	8	200	226941	90° Elbow	Sp x H
)	10 x 8	250 x 200	226943		1-1/2
	10	250	226944		2
\sim	12 x 8	300 x 200	226947		3
	12 x 10	300 x 250	226948		4
/	12	300	226949		6
					8
le San	itary Tee ⊢ x ⊦	ІхНхН			10
• • • •	1-1/2	40	026542	-	12
2	2	50	026543		14
'))	2 x 2 x 1-1/2 x 1-1/2	50 x 50 x 40 x 40			16
P	3	75	026544		18
	3 x 3 x 1-1/2 x 1-1/2	75 x 75 x 40 x 40			
	3 x 3 x 2 x 2	75 x 75 x 50 x 50			
	4	100	026545	90° Elbow	ЅрхЅр
				\bigcirc	8
ary Te	e Side Inlet (lef	thand) H x H x	(H x H SI		10 12
	3 x 3 x 3 x 1-1/2	75 x 75 x 75 x 40	026395		
10	3 x 3 x 3 x 2	75 x 75 x 75 x 50	026396	90° Reduci	ing Elbow Clo
yo					4 x 3
- .					
tary le	e Side Inlet (rig 3 x 3 x 3 x 1-1/2	(ht hand) H x H 75 x 75 x 75 x 40			
2	3 x 3 x 3 x 2	75 x 75 x 75 x 50		90° Reduci	ing Elbow H
)@	3 × 3 × 3 × 2	73 x 73 x 73 x 30	020350		4 x 3
ihle San	itary Tee Side II	ılet HvHvH	х Н СІ		
	3 x 3 x 3 x 3 x 1-1/2			_	
THE I	0 1 0 1 0 1 0 1 1 - 1/2		10 020000		
JAN BA					
\bigcirc					



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SYSTEM15°DWV

Product Availability

	Dimension		Product	
	inches	mm	Code	
D° Elbow Ext	ra Long Sweep	НхН		
	2	50	026157	
D°Elbow H x	Н			
	1-1/2	40	026261	
$\langle 0 \rangle$	2	50	026262	
()	3	75	026263	
	4	100	026264	
5° Elbow - Sh	ort Turn H x	u		
EIDOW - SI	1-1/2	40	026241	
	2	40 50	026241	
	3	75	026242	
(\mathbf{Y})	4	100	026243	
\bigcirc	6	150	026244	
	8	200	026245	
	10	200	026240	
	10		026247	
		300	026248	
	14	350		
	16 18	400 450	026250 026425	
	10	400	020420	
5° Elbow - Sh	ort Turn Sp 🤉	сH		
	1-1/2	40	026221	
	2	50	026071	
	3	75	026223	
$(\searrow$	4	100	026072	
	6	150	026073	
_	8	200	026226	
	10	250	026270	
	12	300	026271	
	14	350	026272	
	16	400	026273	
	18	450	026274	
° Elbow - Sh	ort Turn Sp x	Sp	FOR USE WITH	
	8	200	226910	
	10	250	226911	
(\mathbf{Y})	12	300	226912	

	Dime	nsion	Product
	inches	mm	Code
22-1/2° Elbow	НхН		
	1-1/2	40	026251
	2	50	026252
	3	75	026253
\square	4	100	026254
\bigcirc	6	150	026255
	8	200	026256
	10	250	026257
	12	300	026258
	16	400	026260
22-1/2° Elbow	Sp x Н		
	6	150	026651
	8	200	026652
$\langle \bigtriangledown \rangle$	10	250	026653
	12	300	026654
\bigcirc	14	350	026655
	16	400	026656
			FOR USE WITH
2-1/2º Elbow	- Short Turn	ЅрхЅр	MJ GREY
22-1/2º Elbow	- Short Turn 8	Sp x Sp 200	
22-1/2º Elbow			MJ GREY
22-1/2° Elbow	8	200	MJ GREY [*] 226913
	8 10 12	200 250	MJ GREY 226913 226914
	8 10 12 H x H	200 250 300	MJ GREY ⁻ 226913 226914 226915
	8 10 12 H x H 6	200 250 300 150	MJ GREY 226913 226914 226915 026671
	8 10 12 H x H 6 8	200 250 300 150 200	MJ GREY 226913 226914 226915 026671 026672
	8 10 12 H x H 6 8 10	200 250 300 150 200 250	MJ GREY 226913 226914 226915 026671 026671 026672 026673
22-1/2° Elbow	8 10 12 H x H 6 8 10 12	200 250 300 150 200 250 300	MJ GREY 226913 226914 226915 026671 026672 026673 026674
	8 10 12 H x H 6 8 10 12 12 14	200 250 300 150 200 250 300 350	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675
	8 10 12 H x H 6 8 10 12	200 250 300 150 200 250 300	MJ GREY 226913 226914 226915 026671 026672 026673 026674
	8 10 12 H x H 6 8 10 12 12 14	200 250 300 150 200 250 300 350	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675
0 11-1/4º Elbow	8 10 12 H x H 6 8 10 12 14 14 16	200 250 300 150 200 250 300 350	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675
0 11-1/4º Elbow	8 10 12 H x H 6 8 10 12 14 16 Sp x H	200 250 300 150 200 250 300 350 400	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675 026676
0 11-1/4º Elbow	8 10 12 H x H 6 8 10 12 14 16 Sp x H 6	200 250 300 150 200 250 300 350 400	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675 026676
0 11-1/4° Elbow	8 10 12 H x H 6 8 10 12 14 14 16 Sp x H 6 8	200 250 300 150 200 250 300 350 400 150 200	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675 026676 026676
P	8 10 12 H x H 6 8 10 12 14 14 16 Sp x H 6 8 10	200 250 300 250 250 300 350 400 150 200 250	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675 026676 026676 026681 026682 026683
0 11-1/4° Elbow	8 10 12 H x H 6 8 10 12 14 16 Sp x H 6 8 10 2 12	200 250 300 250 200 250 300 350 400 150 200 250 300	MJ GREY 226913 226914 226915 026671 026672 026673 026674 026675 026676 026676 026681 026682 026683 026683 026684



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SYSTEM15°DWV

Product Availability

	Di	Dimension inches mm	
	inches	mm	Code
45°Wye ⊦	Н х Н х Н		
	1 1/2	40	026171
	2	50	026172
	2 x 1-1/2 x 1-1/2	50 x 40 x 40	026194
\square	2 x 2 x 1-1/2	50 x 50 x 40	026195
	3	75	026173
P	3 x 3 x 1-1/2	75 x 75 x 40	026201
\bigcirc	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 SpxHxH

20	3	75	026635
45° Wye	Sp x Sp x H		FOR USE WITH
_	8 x 4	200 x 100	226926
\bigcirc	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

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		Dim	ension	Product
		inches	mm	Code
45° Wye		Sp x Sp		
		8	200	226928
\bigcirc		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
\bigcirc				
Double 45	-			000007
	1-1/2		40 50	026637 026456
\sim	2	x 1-1/2 x 1-1/2	50 x 50 x 40 x 40	026456
$(N \equiv h)$	2 x 2 3	x 1-1/2 X 1-1/2	50 x 50 x 40 x 40 75	026642
		x 1-1/2 x 1-1/2	75 x 75 x 40 x 40	026643
RY		x 2 x 2	75 x 75 x 50 x 50	026644
\bigcirc		x 3 x 3	100 x 100 x 75 x 75	026457
	6	X 0 X 0	150 100 100 100 100	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 -		300 x 100	026760
	12 x		300 x 150	026761
	12 x		300 x 200	026762
	12 x 14	10	300 x 250	026763
	14 14 x	٨	350 350 x 100	026770 026765
	14 x	-	350 x 150	026765
	14 x		350 x 200	026766
	14 x		350 x 250	026768
	14 x		350 x 300	026769
	16		400	026777
	16 x -	4	400 x 100	026771
	16 x		400 x 150	026772
	16 x	8	400 x 200	026773
	16 x	10	400 x 250	026774
	16 x		400 x 300	026775
	16 x	14	400 x 350	026776
	18 x -	-	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
$\langle \bigcirc$	8 x 6	200 x 150	226916
	10 x 4	250 x 100	226917
V	10 x 6	250 x 150	226919
	12 x 4	300 x 100	226922
	12 x 6	300 x 150	226923
- L J =			

$\textbf{45^{o} Double Wye} \quad \texttt{Sp x Sp x Sp x Sp}$

	8 10 10 x 8 12 x 8	200 250 250 x 200 300 x 200	226918 226921 226920 226924
	12 x 8 12 x 10	300 x 200 300 x 250	226924
KY	12 X 10	300 X 230	220925

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SYSTEM15°DWV

Product Availability

	DIME	nsion	Product
_	inches	mm	Code
Reducer Coupling	g 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
\square	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	Sр x Н		
	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		Ѕрх Н	
\square	10 x 8	250 x 200	026962
	12 x 10	300 x 250	026966
	14 x 12	350 x 300	026971
			FOR USE WITH
Reducer Bushing	(Extended)	ЅрхЅр	MJ GREY
	10 x 8	250 x 200	226950
	12 x 8	300 x 200	226951
	12 x 10	300 x 250	226952
(ac ()			
Reducer Bushing		r Bushing) Sp	x FPT
\frown	1-1/2 x 1/2	40 x 12	026277
	1-1/2 x 3/4	40 x 20	026278
Reducer Bushing	Sр x Н		
	4 x 3	100 x 75	026294
	4 X 3	100 // / 0	

	Dime	nsion	Product
	inches	mm	Code
Adapter Sleev	е ЅрхН		
•	2	50	026310
\frown	3	75	026311
((6))	4	100	026312
	6	150	026313
		lastic DWV Ftg. to	Plastic Sewer P
Aale Adapter	Н х МРТ		
_	1-1/2	40	026331
(\neg)	2	50	026332
	3	75	026333
	4	100	026334
emale Adapte	er HxFPT		
	1-1/2	40	026341
	2	50	026342
	3	75	026343
	4	100	026344
coupling H x			
	1-1/2	40	026351
	2	50	026352
((6))	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 HxH		
	4 x 3	100 x 75	026376
	Adapts Pl	astic Sewer Pipe to	Plastic DWV P
lastic M-J Sp	igot MJ Sp x	Н	
	2	50	026522
$ \langle \rangle \rangle$	3	75	026523
	4	100	026524
	4 x 3	100 x 75	026535

Adapts M-J Cast Iron Pipe to Plastic DWV Pipe

100 x 75

4 x 3



026535

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SYSTEM15° DWV

Product Availability

	Dimer	nsion	Product		Dimer	ision	Pr
	inches	mm	Code		inches	mm	(
	L		·		·		
Trap Solver	nt Weld H x H			90° Pipe Trap	Adapter H x	Slip Joint	
	1-1/2	40	026431		1-1/2 x 1-1/2	40 x 40	02
	2	50	026432				
NO.	3	75	026433	\mathcal{A}			
<u> </u>	4	100	026434	\bigcirc			
	4 x 3	100 x 75	026669	Sanitary Tee T	rap Adapter	H x H x Slip	o Join
Trap Solver	nt Weld with Cle	anout H x H			1-1/2	40	02
	1-1/2	40	026441				
	2	40 50	026441				
L) Q	2	50	020442				
				Copper to DW	/ Pipe Adapte	r HxSlipJ	loint
Ø					1-1/2	40	02
Trap Union	n Connection H x	н		ETA	1-1/2 x 1-1/4	40 x 32	02
indp onion	1-1/2	40	026443		2	50	02
	2	50	026444	<u>-8</u>			
Trap Union	n Connection with	h Cleanout H	хН		1-1/2 1-1/2 x 1-1/4	40 40 x 32	02 02
	1-1/2	40	026505				
				Swivel Straine	er Adapter H	x Swivel Nu	t
<u> </u>					1-1/2	40	02
JBend HxH	Н						
	3	75	026498				
\sim	4	100	026499				
$\Theta \Theta$				Closet Flange	One Piece Pl	astic Slip	
9.9	6	150	026503				
		150	026503		4	100	02
itting Tran A	6			0		100 100 x 75	
itting Trap Ad	6		026503 Sp x Slip Joint		4		02 02
itting Trap Ad	6				4		
itting Trap Ad	6 dapter Plastic	Nut & Washer	Sp x Slip Joint		4		
Fitting Trap Ad	6 dapter Plastic 1-1/2	Nut & Washer 40	Sp x Slip Joint 026304	Closet Flange	4 4 x 3		02
Fitting Trap Ac	6 dapter Plastic 1-1/2 2	Nut & Washer 40 50	Sp x Slip Joint 026304 026305	Closet Flange	4 4 x 3	100 x 75	02
Fitting Trap Active Fitting Trap Active Pipe Trap Active	6 dapter Plastic 1-1/2 2 dapter Plastic	Nut & Washer 40 50 Nut & Washe	Sp x Slip Joint 026304 026305 er H x Slip Joint	Closet Flange	4 4 x 3 One Piece P	100 x 75 lastic Slip w	02 ith Sı
	6 dapter Plastic 1-1/2 2 dapter Plastic 1-1/2	Nut & Washer 40 50 Nut & Wash 40	Sp x Slip Joint 026304 026305 er H x Slip Joint 026321	Closet Flange	4 4 x 3 One Piece P	100 x 75 lastic Slip w	0: ith S
	6 dapter Plastic 1-1/2 2 dapter Plastic	Nut & Washer 40 50 Nut & Washe	Sp x Slip Joint 026304 026305 er H x Slip Joint	Closet Flange	4 4 x 3 One Piece P	100 x 75 lastic Slip w	0 ith S



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SYSTEM15° DWV

Product Availability

	Dim	ension	Product		Dime	ension	Product
	inches	mm	Code		inches	mm	Code
Closet Flange	One Piece Pla	astic Slip with M	lolded Test Plate	Closet Flang	ge Kit for Concret	te	
	4 x 3	100 x 75	026591		4 x 3	100 x 75	026593
					for use in Slab or	n Grade W.C. insta	allations
Closet Flange	One Piece P	Plastic Slip Flu	sh Fit	Closet Flang	ge Spacer Ring		
	4 x 3	100 x 75	026594		4	100	026176
Closet Flange	One Piece Plastic	: Slip Flush Fit w	Molded Test Plate	Urinal Flang			
	4 x 3	100 x 75	026595		2	50	026459
				Expansion J	oint – Type 1	(Vertical Use C)nly) H x∣
							-
					1-1/2	40	
Adjustable Clo		with Plastic R			1-1/2 2	40 50	02648
Adjustable Clo	set Flange 4 x 3	with Plastic R 100 x 75	ing Slip 026586		1-1/2	40	02648
Adjustable Clo					1-1/2 2 3	40 50	02648 02648
	4 x 3	100 x 75	026586		1-1/2 2 3	40 50 75	02648 02648 02648 02648) H x Sp En 02649
	4 x 3 set Flange w	100 x 75 Plastic Ring Slip	026586 w Molded Ring Slip		1-1/2 2 3 oint – Type 1 1-1/2 2	40 50 75 (Vertical Use Only 40 50	02648 02648) H x Sp En 02649 02649
	4 x 3	100 x 75	026586		1-1/2 2 3 Dint – Type 1 1-1/2	40 50 75 (Vertical Use Only 40	02648 02648) H x Sp En
	4 x 3 set Flange w	100 x 75 Plastic Ring Slip	026586 w Molded Ring Slip	Expansion Jo	1-1/2 2 3 0 int - Type 1 1-1/2 2 3 0 int - Type 2	40 50 75 (Vertical Use Only 40 50 75 (Vertical Use C	02648 02648) H x Sp En 02649 02649 02638 02638
Adjustable Clo	4 x 3 set Flange w 4 x 3	100 x 75 Plastic Ring Slip 100 x 75	026586 w Molded Ring Slip 026588	Expansion Jo	1-1/2 2 3 Dint – Type 1 1-1/2 2 3	40 50 75 (Vertical Use Only 40 50 75	02648 02648) H x Sp En 02649 02649 02638
Adjustable Clo Adjustable Clo Adjustable Clo Adjustable Clo	4 x 3 set Flange w 4 x 3	100 x 75 Plastic Ring Slip	026586 w Molded Ring Slip 026588	Expansion Jo	1-1/2 2 3 0 int - Type 1 1-1/2 2 3 0 int - Type 2	40 50 75 (Vertical Use Only 40 50 75 (Vertical Use C	02648 02648 02649 02649 02649 02638 02638
Adjustable Clo	4 x 3 set Flange w 4 x 3 set Flange 4 x 3 Close	100 x 75 Plastic Ring Slip 100 x 75 with Plastic R 100 x 75 Close	026586 w Molded Ring Slip 026588 Ring Sp	Expansion Jo	1-1/2 2 3 0 int - Type 1 1-1/2 2 3 0 int - Type 2	40 50 75 (Vertical Use Only 40 50 75 (Vertical Use C	02648 02648 02649 02649 02649 02638 02638



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SYSTEM15°DWV

Product Availability

	Dimension		Product	Γ	Dimension		Product
	inches	mm	Code		inches	mm	Co
hwasher W	уе НхНхНо	se Barb		Slip Cap H			
\frown	1-1/2 x 1-1/2 x 1/2	40 x 40 x 12	026495		1-1/2	40	026
	,,_				2	50	026
					3	75	026
Q					4	100	026
					6	150	026
					8	200	026
in Grate	Sp						
	4	100	026482	Polyethylene Ca	p Slip-on S	tyle	
					1-1/2	40	0268
\smile				\bigcirc	2	50	026
					3	75	026
				<u> </u>	4	100	0268

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



SYSTEM XFR° DWV

DWV Systems

Product Availability

	D	imension	Product		Dimen	sion	Ρ
	inches	mm	Code		inches	mm	
ystem XFR D\	NV Pine			Tube End Clea	anout H x Gas	vet Plug	
ystem XIN DI	1-1/2	40	110067				F.C
	2	50	110068		1-1/2	40	52
	3	75	110069		2	50	52
	4	100	110070		3	75	5
	6	150	110070		4	100	5
	8	200					
	8 10	250	110072	Sanitary Tee	НхНхН		
	10	300	110073		1-1/2	40	
	12	300	110074		2	50	
					2 x 1-1/2 x 1-1/2	50 x 40 x 40	
ne Cleanout	НхНхGa	asket Plug		(0)	2 x 1-1/2 x 2	50 x 40 x 50	
9	1-1/2	40	526040		2 x 1-1/2	50 x 40	
	2	50	526041	\bigcirc	3	75	
TR	3	75	526103		3 x 1½	75 x 40	
J.W	4	100	526104		3 x 2	75 x 50	
\bigcirc	4 x 3 x 4	100 x 75 x 100	526105		4	100	
	6	150	526161		4 x 2	100 x 50	
	8	200	426162		4 x 3	100 x 75	
	10	250	526163		6	150	
	12	300	526164		6 x 4	150 x 100	
					8	200	
					8 x 4	200 x 100	
ine Cleanout	Sn x Sn x	Threaded Plug	FOR USE WITH		8 x 6	200 x 150	
	8	200	526766		10	250	
	0	200	526766		10 x 4	250 x 100	
					10 x 6	250 x 150	
					10 x 8	250 x 200	
					12	300	
ug Cleanout	MPT with	gasket			12 x 4	300 x 100	
	1-1/2	40	526401		12 x 6	300 x 150	
\bigcirc	2	50	526402		12 x 8	300 x 200	
	3	75	526403		12 x 0 12 x 10	300 x 250	
	4	100	526404		•		
	6	150	526405	Sanitary Tee	ЅрхНхН		
		-		0	1-1/2	40	52
tting Cleano				9/m	3 x 1-1/2	75 x 40	52
	1-1/2	40	526042		4	100	42
	2	50	526046				
	3	75	526047	<u> </u>			JR US
	4	100	526048	Sanitary Tee	Sр x Sр x Н		JG
	6	150	426050				
					8 x 4	200 x 100	52
tting Cleano		sket Plug		\bigcirc	8 x 6	200 x 150	52
ung oleailu			E0C045		10 x 4	250 x 100	52
_	1-1/2	40	526345		10 x 6	250 x 150	52
	2	50	526346		12 x 4	300 x 100	52
	3	75	526347	l	12 x 6	300 x 150	52
	4	100	526348	\smile			
	6	150	526349				



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SYSTEM XFR° DWV

Product Availability

	Din	nension	Product		Dime	ension	Product
	inches	mm	Code		inches	mm	Code
Sanitary Tee	Sp x Sp x Sp		FOR USE WITH	90° Elbow H	хH		
Sannary iee	8	200	526999		1-1/2	40	526121
	0 10 x 8	250 x 200			1-1/2 L	40 L	426024
\bigcirc	10 x 8	250 x 200 250	526759 526760	Θ^{-}	2	50	526035
	12 x 8	300 x 200	526763	\bigcirc	2 L	50 L	526122
	12 x 8 12 x 10	300 x 200	526764		3	75	526025
	12 × 10	300 x 230	526765		3 L	75 L	526123
\bigcup	12	300	520705		4	100	526124
	_				6	150	526125
Double Sanita	-				8	200 250	526126 526127
-	1-1/2	40	526542		10 12	250	
	2	50	526543		12	300	526128
(M)	2 x 1-1/2	50 x 40	526547				
4 AP	3	75	526544	90° Elbow Sp	зхН		
\bigcirc	3 x 1-1/2	75 x 40	526538		1-1/2	40	526231
	3 x 2	75 x 50	426539	(\cup)	2	50	526232
				\bigcup –	3	75	526233
Sanitarv Tee S	Side Inlet ()	eft hand) H x I	H x H x H SI	-	4	100	526234
	3 x 3 x 3 x 1-1/2				6	150	526235
\bigcirc	3 x 3 x 3 x 2	75 x 75 x 75 x 50			8	200	526236
	3,3,3,2	/5//5//5/50	520550		10	250	526237
Gr .					12	300	526238
Conitony Too	Cido Inlat (90° Elbow Sp	эх Sp		
Sanitary lee		right hand) H x			. 8	200	526967
\bigcirc	3 x 3 x 3 x 1-1/2	75 x 75 x 75 x 40		\bigcirc	10	250	526968
\mathbb{Q}	3 x 3 x 3 x 2	75 x 75 x 75 x 50	526398		12	300	526970
Upright Exten	dad Wya ⊔	ххНхЅр		90° Reducing			
	иеи wye п 3	75	526006	\bigcirc	4 x 3	100 x 75	426026
909	5	75	320000				
G				90° Reducing	Elbow H x H		
Single Apartn	nent Fitting	Нх Ѕрх Н			4 x 3	100 x 75	526155
\square	3	75	526007				
07				90° Elbow Ex	tra Long Swee		406157
					2	50	426157
9 a				a			
Double Aparti		Н х Ѕр х Н х Н					
Double Aparts	ment Fitting 3	H x Sp x H x H 75	526008				

Committed to Excellence

SYSTEM XFR° DWV

Product Availability

	Dime	nsion	Product		Dimen	sion	Produc
	inches	mm	Code		inches	mm	Code
0° Elbow	НхН			22-1/2° Elbow	НхН		
	1-1/2	40	526261		1-1/2	40	52625
$\langle () \rangle$	2	50	526262	$\langle \rangle$	2	50	52625
	3	75	526253		3	75	52625
\square	4	100	526264		4	100	52625
\bigcirc					6	150	52625
50 Elbeur					8	200	526250
5° Elbow	Short Turn H x H				10	250	52625
	1-1/2	40	526241		12	300	526258
	2	50	526242				
	3	75	526243	00 1/00 514	o		
$\left[\right]$	4	100	526244	22-1/2° Elbow	Sp x H		
\smile	6	150	526245		6	150	526651
	8	200	526246		8	200	526652
	10	250	526247	L	10	250	526653
	12	300	526248	Ŭ	12	300	526654
0 516							FOR USE V
5° Elbow	Short Turn Sp x		500001	22-1/2° Elbow	Sp x Sp		MJ GR
	1-1/2	40	526221		8	200	526972
	2	50	526071		10	250	526973
$\land $	3	75	526223		10	300	526908
I T	4	100	526072		12	300	520900
\bigcirc	6	150	526073	\bigcirc			
	8	200	526226	11-1/4° Elbow	НхН		
	10	250	526270		6	150	52667
	12	300	526271		8	200	526672
					10	250	526673
					10	300	526674
° Elbow	Short Turn Sp x S	S n	FOR USE WITH		12	300	520072
LIDOW	8	200	MJ GREY 526971				
	10	200	526770	11-1/4° Elbow	Sрх Н		
\square	10	300	526771		6	150	526681
	12	500	520771		8	200	526682
\smile				\sim	10	250	526683
° Elbow	Long Turn H x H				12	300	526684
	6	150	126029				
$\langle O \rangle$	6	150	426038				
SY .							
5° Elbow	Long Turn Sp x H		400005				
	6	150	426225				
$\land \mathbb{Y}$							
Ι Τ							
I							



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SYSTEM XFR° DWV

Product Availability

	Dim	Dimension		
	inches	mm	Product Code	
	IIICIIES		•••••	
45°Wye H∶	хНхН			
	х п х п 1-1/2	40	526171	
	2	50	526171	
20	2 2 x 1-1/2 x 1-1/2	50 x 40 x 40	526172	
	2 x 1-1/2	50 x 40	526195	
g	3	75	526173	
\bigcirc	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	
	17 / 10	000 x 200	520710	
45° Wye Sp	хНхН			

45°Wye SpxHxH

\frown	3
Sp	3 x 1-1/2
79	
14	

2	75 x 40	

75

426635

426638

)			FOR USE WITH
45° Wye Sp	х Ѕр х Н		MJ GREY
	8 x 4	200 x 100	526985
\bigcirc	8 x 6	200 x 150	526986
	10 x 4	250 x 100	526988
	10 x 6	250 x 150	526989
19	12 x 4	300 x 100	526992
\bigcup	12 x 6	300 x 150	526993
\bigcirc	12 × 0	500 X 150	520555

45° Wye Sp			FOR USE WITH
	8	200	526987
\bigcirc	10 x 8	250 x 200	526990
	10	250	526991
$ / \bigcirc$	12 x 8	300 x 200	526994
	12 x 10	300 x 250	526995
	12	300	526996

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_			
	Dime	nsion	Product
	inches	mm	Code
Double 45° Wye	НхНхН	хН	
	1-1/2	40	526637
$\sim \odot$	2	50	526456
	2 x 1-1/2	50 x 40	526642
	3	75	526639
\mathbf{e}	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
g	12 x 4	300 x 100	526980
\bigcirc	12 x 6	300 x 150	526982

45° Double Wye Sp x Sp x Sp x Sp

	op n op i	a op a op		
	8	200	526975	
$\langle Q \rangle$	10	250	526979	
	10 x 8	250 x 200	526978	
\mathbb{N}/\mathbb{Q}	12 x 8	300 x 200	526983	
	12 x 10	300 x 250	526984	
	10 x 8 12 x 8	250 x 200 300 x 200	526979 526978 526983	



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SYSTEM XFR° DWV

DWV Systems

Product Availability

	Dimens	sion	Product
	inches	mm	Code
In	~ !! !!		
Increaser Couplin	-	50 40	500000
	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)	ЅрхН	
	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)	Ѕрх Ѕр	FOR USE WITH
	10 x 8	250 x 200	526981
\sim	12 x 8	300 x 200	526767
	12 / 0	000 x 200	020707

	Dimens	Dimension		
	inches	mm	Code	
Male Adapter	• Н х МРТ			
	1-1/2	40	526331	
\overline{a}	2	50	526332	
	3	75	526333	
	4	100	526334	
Female Adapt	ter HxfPT			
	1-1/2	40	526341	
	2	50	526342	
(Ц)	3	75	526343	
	4	100	526344	
Coupling H	хH			
	1-1/2	40	526351	
	2	50	526352	
((6))	3	75	526353	
	4	100	526354	
	6	150	526356	
	8	200	526358	
	10	250	526359	
	12	300	526360	
Plastic MJ Sp	bigot MJSpx⊦	ł		
	2	50	526522	
(1)	3	75	526523	
	4	100	526524	
		Cast Iron Pipe	to Plastic DWV Pip	
P Trap Solve	ent Weld H x H	10	506401	
	1-1/2	40	526431	
	2	50	526432	
MD	3	75	526433	
	/	100	526434	

P Trap Solvent Weld with Cleanout H x H



1-1/2	40	526441
2	50	526442



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12 x 10

300 x 250

526768

SYSTEM XFR° DWV

Product Availability

	Dimens	sion	Product		Dimens	sion	Product
	inches	mm	Code		inches	mm	Code
Trap Union	Connection H x	Н		Copper to DW	V Pipe Adapter	H x Slip J	oint
	1-1/2	40	526443		1-1/2	40	426320
	2	50	526444		1-1/2 x 1-1/4	40 x 32	426430
					2	50	426510
Trap Union	Connection with	Cleanout H		Tail Piece Ad	apter Spix Slip	loint	
	1-1/2	40	526505		1-1/2	40	526555
					1-1/2 x 1-1/4	40 x 32	526556
Dand II II							astic Nut & Wa
Bend H x H	Δ	100	F0C400				
$\bigcirc \bigcirc$	4	100 150	526499 426503	Curival Chrain	au Adamtau II	0 · · · · · ·	
ĘUĘ	0	150	420505	Swivel Strain	-	Swivel Nut	
					1-1/2	40	426894
itting Trap Ad	apter Spix Slip	o Joint		_			
	1-1/2	40	426304	Closet Flenge			
	2	50	426305	Closet Flange	One Piece Plas		
		Р	lastic Nut & Washer		4	100	526573
)ing Trop Adam		· .		and a second sec	4 x 3	100 x 75	526584
Pipe Trap Adap			506201				
	1-1/2	40	526321	Closet Flange	One Piece Plas	tic Slip w S	pigot End
((()))	1-1/2 x 1-1/4	40 x 32	526329	0	4 x 3	100 x 75	526592
		Ρ	lastic Nut & Washer		1 / 0	100 % / 0	020032
90° Pipe Trap	-	lip Joint		Closet Flange	One Piece Plastic	: Slip w Mold	ed Test Plat
	1-1/2 x 1-1/2	40 x 40	526330		4 x 3	100 x 75	526591
Sanitary Tee T	rap Adapter ⊦	I x Slip Joir	nt x H	Closet Flange	One Piece Plas	tic Slip Flus	sh Kit
	1-1/2	40	426179		4 x 3	100 x 75	426594
9							



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SYSTEM XFR° DWV

Product Availability

	Dim	nension	Product		Dim	ension	Product
	inches	mm	Code		inches	mm	Code
loset Flange	One Piece Plasti	c Slip Flush Kit w N	Nolded Test Plate	Expansion Joi	nt - Type 1	(Vertical & Horizo	ontal Use) H >
0000	4 x 3	100 x 75	526595		1-1/2	40	526485
					2	50	526486
\bigcirc					3	75	526487
					4	100	526489
					6	150	426209
justable Clo	set Flange	with Plastic Ri	ng Slip		8	200	426210
	4 x 3	100 x 75	526586		10	250	426211
					12	300	426212
djustable Clo	set Flange 4 x 3	w Plastic Ring SI 100 x 75	ip w Molded Test Pla 526588	Dishwasher W	-		526495
djustable Clo				Dishwasher W	-	Hose Barb /2 40 x 40 x 12	526495
	4 x 3 Closet Flang	100 x 75	526588 / Plastic Ring	Dishwasher W	-		526495
	4 x 3	100 x 75	526588	Dishwasher W	-		526495
	4 x 3 Closet Flang	100 x 75	526588 / Plastic Ring	Dishwasher W	-		526495
	4 x 3 Closet Flang	100 x 75	526588 / Plastic Ring	Dishwasher W	1-1/2 x 1-1/2 x 1	/2 40 x 40 x 12	
	4 x 3 Closet Flang	100 x 75	526588 / Plastic Ring	Dishwasher W	1-1/2 x 1-1/2 x 1, 1-1/2	/2 40 x 40 x 12 40	526411
o Discharge	4 x 3 Closet Flang 4 x 3	100 x 75 ge Adjustable w 100 x 75	526588 / Plastic Ring	Dishwasher W	1-1/2 x 1-1/2 x 1 1-1/2 x 1-1/2 x 1	/2 40 x 40 x 12 40 50	526411 526412
o Discharge	4 x 3 Closet Flang 4 x 3 Kit for Conc	100 x 75 ge Adjustable w 100 x 75	526588 / Plastic Ring 426589	Dishwasher W	1-1/2 x 1-1/2 x 1 1-1/2 1-1/2 2 3	 40 x 40 x 12 40 40 50 75 	526411 526412 526413
o Discharge	4 x 3 Closet Flang 4 x 3	100 x 75 ge Adjustable w 100 x 75	526588 / Plastic Ring	Dishwasher W	1-1/2 x 1-1/2 x 1 1-1/2 2 3 4	 40 x 40 x 12 40 40 50 75 100 	526411 526412 526413 526414
	4 x 3 Closet Flang 4 x 3 Kit for Conc 4 x 3	100 x 75 ge Adjustable w 100 x 75	526588 / Plastic Ring 426589 426593	Dishwasher W	1-1/2 x 1-1/2 x 1 1-1/2 2 3 4 6	 40 x 40 x 12 40 40 50 75 100 150 	526411 526412 526413 526414 526415

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Product Availability

	Dimer	Product						
	inches	mm	Code					
MJ Coupling ⊦	IJ Coupling H x H							
	8	200	094053					
	10	250	094054					
	12	300	094055					

T-Handle Torque Wrench 80 in-Ib



5/16" socket 094139

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Handling & Installation Procedures

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"	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.



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Practical Considerations

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 $95^{\circ}F$ ($35^{\circ}C$) 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 wellsecured, 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.

Practical Considerations

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.



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Practical Considerations

PIPE DIAMETERS 1-1/2" - 6"

Installers have two options for these sized pipes: either Oneor Two-Step Cement. IPEX System 15 and System XFR onestep 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.



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Practical Considerations

TESTING DRAINAGE SYSTEMS

After a system is installed and all solvent weld joints cured, the system should be pressure-tested with water before being commissioned. The test should be conducted in accordance with requirements of the local plumbing code. 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.

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.

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.

As a quick check before water testing as per Code requirements, IPEX DWV may be tested with air pressure no greater than 5 psi. Testing with air at higher pressures is strictly prohibited as it may create a hazardous work environment and endanger nearby workers.

When using an air compressor or other equipment to pressure-test the system, the pressure gauge should be closely monitored to ensure the air pressure never exceeds 5 psi. Use of compressed air or gas in the System 15/XFR pipe and fittings can result in explosive failures and cause injury or death.

WARNING

Take special care to avoid causing impact to the piping when testing rigid thermoplastic systems using compressed air. Impact to the system during air testing can cause failure which may result in injury or death. Conduct this test only when the ambient temperature is 10°C (50°F) or above. Pipe should never be pressurized to any more than 5 psi when using air. **MJ GREY TESTING**

Normal testing procedures for System 15 or System XFR may be employed if using MJ Grey couplings. Maximum water test pressure shall be 10 ft. of head (4.3 psi) for all sizes, or 5.0 psi for air. Proper safety precautions and protective equipment should be employed during all testing procedures.

AIR/GAS



 NEVER use compressed air or gas in System 15/XFR pipe and fittings at pressure no greater than 5 psi.

WARNING

Use of compressed air or gas in System 15/XFR pipe and fittings can result in explosive failures and cause severe injury or death.



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Building Code Considerations

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.



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Building Code Considerations

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.

≤ 25

MJ Grey™

Couplings

≤ 50





MECHANICAL EASY SPECIFICATIONS

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

		Non-Combustible Building				
Product	General Usage	Air Plenum	Vertical Service Spaces	High-Rise Building	Underground	
System 15 DWV	Pt	Ν	Ν	Ν	Р	
System XFR DWV	Ρ	Р	Ν	Р	Р	
Drain-Guard Double Containment		0 1	cation, Drain-Guard is and or System XFR as		110	
MJ Grey Coupling	Р	Р	Ν	Р	P*	
+ 24" is not permitted				P=F	Permitted	

* Permitted by Code but not recommended by IPEX

P = Permitted N = Not Permitted

Specifications

Specifications

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.

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.

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



About IPEX

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")

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

