

# IAPMO RESEARCH AND TESTING, INC.

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## CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

The most updated information on this Certificate of Listing is available online at [pld.iapmo.org](http://pld.iapmo.org)

Effective Date: October 2016

Void After: October 2017

Product: Wrought Copper Pressure Fittings

File No. 4197

Issued To: Jungwoo Metal Ind. Co. Ltd  
Nammyun Industrial Complex  
371 Guam-ri Nammyun, Yangju-s1  
Kyunggi-do, 482-872  
,  
Korea

Identification: Fittings shall be permanently and legibly marked with the manufacturer's name or trademark in accordance with MSS SP-25 and the UPC® certification mark. Marking on fittings less than size 1/2 or on any fitting where it damages soldering surfaces is not required.

Characteristics: Wrought copper and wrought copper alloy solder joint pressure fittings designed for use with copper water tube. To be installed in accordance with the manufacturer's instructions, and the requirements of the latest edition the Uniform Plumbing Code.

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

Products are in compliance with the following code(s):  
Uniform Plumbing Code (UPC®)

  
Chairman, Product Certification Committee

  
CEO, The IAPMO Group



This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.



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International Plumbing Code (IPC®)

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

ASME B16.22-2013



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### MODELS:

90 ° Elbow C x C

Size Code Nominal Size

-0001 1/8 "  
-0050 1/2"  
-0100 3/4"  
-0107 3/4" x 1/2"  
-0150 1"

90° Street Elbow Ftg x C

Size Code Nominal Size

-0002 1/4"  
-0050 1/2"

90° Long Turn Elbow C x C

Size Code Nominal Size

-0050 1/2"  
-0100 3/4"  
-0150 1"

45° Elbow C x C

Size Code Nominal Size

-0050 1/2"  
-0100 3/4"

45° Street Elbow Ftg x C

Size Code Nominal Size

-0100 3/4"

Coupling w/stop C x C

Size Code Nominal Size

-0050 1/2"  
-0100 3/4"  
-0150 1"

Coupling no/stop C x C

Size Code Nominal Size

-0050 1/2"



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### Reducer Coupling w/stop C x C

Size Code Nominal Size

-0059 1/2" x 1/4"  
-0107 3/4" x 1/2"  
-1498 1" x 5/8"  
----- 1" X 3/4"

### CAP

Size Code Nominal Size

-0050 1/2"  
-0100 3/4"  
-0150 1"

### Fitting Reducer Ftg x C

Size Code Nominal Size

-0059 1/2" x 1/4"  
-0159 1" x 3/4"

### Male Adapter C x M

Size Code Nominal Size

-0025 3/8"  
-0050 1/2"  
-0058 1/2" x 3/8"  
-0100 3/4"  
-0150 1"  
-0215 1-1/4"  
-0295 1-1/2"  
-0390 2"

### Female Adapters C x F

Size Code Nominal Size

-0025 3/8"  
-0050 1/2"  
-0057 1/2" x 3/4"  
-0058 1/2" x 3/8"  
-0100 3/4"  
-0150 1"  
-0215 1- 1/4  
-0295 1-1/2"



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-0390 2"

Tee C x C

Size Code Nominal Size

-0025 3/8"  
-0050 1/2"  
-0100 3/4"  
-0117 3/4" x 3/4" x 1/2"  
-0150 1"  
-0171 1" x 3/4" x 1/2"  
-0180 1" x 1" x 1/2"

Description

Size

ADAPTER C*F (NPT)	1/4
ADAPTER C*F (NPT)	2-1/2
ADAPTER C*F (NPT)	3
ADAPTER C*F (NPT)	3/8X1/2
ADAPTER C*F (NPT)	1/2X1
ADAPTER C*F (NPT)	1/2X1/4
ADAPTER C*F (NPT)	5/8X1/2
ADAPTER C*F (NPT)	5/8X3/4
ADAPTER C*F (NPT)	3/4X1/2
ADAPTER C*F (NPT)	3/4X1
ADAPTER C*F (NPT)	1X1/2
ADAPTER C*F (NPT)	1X3/4
ADAPTER C*F (NPT)	1X1-1/4
ADAPTER C*F (NPT)	1-1/4X3/4
ADAPTER C*F (NPT)	1-1/4X1
ADAPTER C*F (NPT)	1-1/4X1-1/2
ADAPTER C*F (NPT)	1-1/2X1-1/4
ADAPTER C*F (NPT)	1-1/2X2
ADAPTER C*F (NPT)	2X1-1/2
ADAPTER C*M (NPT)	1/4
ADAPTER C*M (NPT)	2-1/2
ADAPTER C*M (NPT)	3
ADAPTER C*M (NPT)	4
ADAPTER C*M (NPT)	1/4X1/2
ADAPTER C*M (NPT)	3/8X1/2
ADAPTER C*M (NPT)	1/2X3/4
ADAPTER C*M (NPT)	1/2X1
ADAPTER C*M (NPT)	1/2X1/4
ADAPTER C*M (NPT)	5/8X1/2
ADAPTER C*M (NPT)	5/8X3/4
ADAPTER C*M (NPT)	3/4X1/2
ADAPTER C*M (NPT)	3/4X1
ADAPTER C*M (NPT)	1X1/2
ADAPTER C*M (NPT)	1X3/4



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ADAPTER C*M (NPT)	1X1-1/4
ADAPTER C*M (NPT)	1X1-1/2
ADAPTER C*M (NPT)	1-1/4X3/4
ADAPTER C*M (NPT)	1-1/4X1
ADAPTER C*M (NPT)	1-1/4X1-1/2
ADAPTER C*M (NPT)	1-1/2X1
ADAPTER C*M (NPT)	1-1/2X1-1/4
ADAPTER C*M (NPT)	1-1/2X2
ADAPTER C*M (NPT)	2X1-1/4
ADAPTER C*M (NPT)	2X1-1/2
ADAPTER C*M (NPT)	2-1/2X2
ADAPTER FTG*F (NPT)	1/2
ADAPTER FTG*F (NPT)	3/4
ADAPTER FTG*F (NPT)	1
ADAPTER FTG*F (NPT)	1-1/4
ADAPTER FTG*F (NPT)	1-1/2
ADAPTER FTG*F (NPT)	2
ADAPTER FTG*F (NPT)	1/2X3/4
ADAPTER FTG*M (NPT)	1/2
ADAPTER FTG*M (NPT)	3/4
ADAPTER FTG*M (NPT)	1
ADAPTER FTG*M (NPT)	1-1/4
ADAPTER FTG*M (NPT)	1-1/2
ADAPTER FTG*M (NPT)	2
ADAPTER FTG*M (NPT)	1/2X3/4
ADAPTER FTG*F (NPT)	1/2" x 3/8"
ADAPTER FTG*F (NPT)	3/4" x 1/2"
ADAPTER FTG*F (NPT)	1"x 3/4"
ADAPTER FTG*M (NPT)	1/2" x 3/8"
ADAPTER FTG*M (NPT)	3/4" x 1/2"
ADAPTER FTG*M (NPT)	1"x 3/4"
BUSHING FTG*C	3/4X3/8
BUSHING FTG*C	3/4X1/2
BUSHING FTG*C	3/4X5/8
BUSHING FTG*C	1X1/2
BUSHING FTG*C	1X3/4
BUSHING FTG*C	1-1/4X3/4
BUSHING FTG*C	1-1/4X1
BUSHING FTG*C	2X1-1/2
BUSHING FTG*F	3/4X1/4
CAP	3/8
CAP	5/8
CAP	1-1/4
CAP	1-1/2
CAP	2
CAP	2-1/2
CAP	3
CAP	4



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90deg Elbow, Short Radius C*C	1/4
90deg Elbow, Short Radius C*C	3/8
90deg Elbow, Short Radius C*C	5/8
90deg Elbow, Short Radius C*C	1-1/4
90deg Elbow, Short Radius C*C	1-1/2
90deg Elbow, Short Radius C*C	2
90deg Elbow, Short Radius C*C	2-1/2
90deg Elbow, Short Radius C*C	3
90deg Elbow, Short Radius C*C	3-1/2
90deg Elbow, Short Radius C*C	4
90deg Elbow, Short Radius C*C	5
90deg Elbow, Short Radius C*C	6
90deg Elbow, Short Radius C*C	8
90deg Elbow, Short Radius C*C	3/8X1/4
90deg Elbow, Short Radius C*C	1/2X3/8
90deg Elbow, Short Radius C*C	1X1/2
90deg Elbow, Short Radius C*C	1X3/4
90deg Elbow, Short Radius C*C	1-1/4X3/4
90deg Elbow, Short Radius C*C	1-1/4X1
90deg Elbow, Short Radius C*C	1-1/2X1-1/4
90deg Elbow, Short Radius C*C	2X1-1/2
90deg Elbow, Short Radius C*C	3/4X1/2
90deg Elbow, Short Radius C*C	1X1/2
90deg Elbow, Short Radius C*C	1X3/4
90deg Elbow, Short Radius FTG*C	3/8
90deg Elbow, Short Radius FTG*C	5/8
90deg Elbow, Short Radius FTG*C	3/4
90deg Elbow, Short Radius FTG*C	1
90deg Elbow, Short Radius FTG*C	1-1/4
90deg Elbow, Short Radius FTG*C	1-1/2
90deg Elbow, Short Radius FTG*C	2
90deg Elbow, Short Radius FTG*C	2-1/2
90deg Elbow, Short Radius FTG*C	3
90deg Elbow, Short Radius FTG*C	4
45deg deg deg Elbow, Short Radius, Short Radius C*C	1/4
45deg deg deg Elbow, Short Radius, Short Radius C*C	3/8
45deg deg deg Elbow, Short Radius, Short Radius C*C	5/8
45deg deg deg Elbow, Short Radius, Short Radius C*C	1
45deg deg deg Elbow, Short Radius, Short Radius C*C	1-1/4
45deg deg deg Elbow, Short Radius, Short Radius C*C	1-1/2
45deg deg deg Elbow, Short Radius, Short Radius C*C	2
45deg deg deg Elbow, Short Radius, Short Radius C*C	2-1/2
45deg deg deg Elbow, Short Radius, Short Radius C*C	3
45deg deg deg Elbow, Short Radius, Short Radius C*C	4
45deg deg deg Elbow, Short Radius, Short Radius C*C	5
45deg deg deg Elbow, Short Radius, Short Radius C*C	6
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	1/4
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	1/2



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45deg deg deg Elbow, Short Radius, Short Radius FTG*C	5/8
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	1
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	1-1/4
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	1-1/2
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	2
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	2-1/2
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	3
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	4
45deg deg deg Elbow, Short Radius, Short Radius FTG*C	6
deg Elbow, Long Radius C*C	1/4
deg Elbow, Long Radius C*C	3/8
deg Elbow, Long Radius C*C	5/8
deg Elbow, Long Radius C*C	1-1/4
deg Elbow, Long Radius C*C	1-1/2
deg Elbow, Long Radius C*C	2
deg Elbow, Long Radius C*C	2-1/2
deg Elbow, Long Radius C*C	3
deg Elbow, Long Radius C*C	4
deg Elbow, Long Radius FTG*C	1/4
deg Elbow, Long Radius FTG*C	3/8
deg Elbow, Long Radius FTG*C	1/2
deg Elbow, Long Radius FTG*C	5/8
deg Elbow, Long Radius FTG*C	3/4
deg Elbow, Long Radius FTG*C	1
deg Elbow, Long Radius FTG*C	1-1/4
deg Elbow, Long Radius FTG*C	1-1/2
deg Elbow, Long Radius FTG*C	2
deg Elbow, Long Radius FTG*C	2-1/2
deg Elbow, Long Radius FTG*C	3
(Suction Line) P-Trap	1/2
(Suction Line) P-Trap	5/8
(Suction Line) P-Trap	3/4
(Suction Line) P-Trap	1
(Suction Line) Long P-Trap	3/4
REDUCER C*C	3/8X1/4
REDUCER C*C	1/2X3/8
REDUCER C*C	5/8X1/4
REDUCER C*C	5/8X3/8
REDUCER C*C	5/8X1/2
REDUCER C*C	3/4X1/4
REDUCER C*C	3/4X3/8
REDUCER C*C	3/4X5/8
REDUCER C*C	1X3/8
REDUCER C*C	1X1/2
REDUCER C*C	1-1/4X1/2
REDUCER C*C	1-1/4X5/8
REDUCER C*C	1-1/4X3/4
REDUCER C*C	1-1/4X1





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REDUCER C*C	1-1/2X1/2
REDUCER C*C	1-1/2X5/8
REDUCER C*C	1-1/2X3/4
REDUCER C*C	1-1/2X1
REDUCER C*C	1-1/2X1-1/4
REDUCER C*C	2X1/2
REDUCER C*C	2X3/4
REDUCER C*C	2X1
REDUCER C*C	2X1-1/4
REDUCER C*C	2X1-1/2
REDUCER C*C	2-1/2X3/4
REDUCER C*C	2-1/2X1
REDUCER C*C	2-1/2X1-1/4
REDUCER C*C	2-1/2X1-1/2
REDUCER C*C	2-1/2X2
REDUCER C*C	3X1
REDUCER C*C	3X1-1/4
REDUCER C*C	3X1-1/2
REDUCER C*C	3X2
REDUCER C*C	3X2-1/2
REDUCER C*C	4X1-1/2
REDUCER C*C	4X2
REDUCER C*C	4X2-1/2
REDUCER C*C	4X3
REDUCER C*C	5X4
REDUCER C*C	6X3
REDUCER C*C	6X4
REDUCER FTG*C	3/8X1/4
REDUCER FTG*C	1/2X3/8
REDUCER FTG*C	5/8X3/8
REDUCER FTG*C	5/8X1/2
REDUCER FTG*C	3/4X1/4
REDUCER FTG*C	3/4X3/8
REDUCER FTG*C	3/4X1/2
REDUCER FTG*C	3/4X5/8
REDUCER FTG*C	1X3/8
REDUCER FTG*C	1X1/2
REDUCER FTG*C	1-1/4X1/2
REDUCER FTG*C	1-1/4X3/4
REDUCER FTG*C	1-1/4X1
REDUCER FTG*C	1-1/2X1/2
REDUCER FTG*C	1-1/2X3/4
REDUCER FTG*C	1-1/2X1
REDUCER FTG*C	1-1/2X1-1/4
REDUCER FTG*C	2X1/2
REDUCER FTG*C	2X3/4
REDUCER FTG*C	2X1
REDUCER FTG*C	2X1-1/4



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REDUCER FTG*C	2X1-1/2
REDUCER FTG*C	2-1/2X1
REDUCER FTG*C	2-1/2X1-1/4
REDUCER FTG*C	2-1/2X1-1/2
REDUCER FTG*C	2-1/2X2
REDUCER FTG*C	3X1
REDUCER FTG*C	3X1-1/4
REDUCER FTG*C	3X1-1/2
REDUCER FTG*C	3X2
REDUCER FTG*C	3X2-1/2
REDUCER FTG*C	4X2
REDUCER FTG*C	4X2-1/2
REDUCER FTG*C	4X3
REDUCER FTG*C	5X4
REDUCER FTG*C	6X3
REDUCER FTG*C	6X4
Roll stop Cupling	1/4
Roll stop Cupling	3/8
Roll stop Cupling	5/8
Roll stop Cupling	1-1/4
Roll stop Cupling	1-1/2
Roll stop Cupling	2
Roll stop Cupling	2-1/2
Roll stop Cupling	3
Roll stop Cupling	3-1/2
Roll stop Cupling	4
Roll stop Cupling	5
Roll stop Cupling	6
Roll stop Cupling	8
Staked stop Cupling	1/4
Staked stop Cupling	3/8
Staked stop Cupling	1/2
Staked stop Cupling	5/8
Staked stop Cupling	3/4
Staked stop Cupling	1
Staked stop Cupling	1-1/4
Staked stop Cupling	1-1/2
Staked stop Cupling	2
Staked stop Cupling	2-1/2
Staked stop Cupling	3
Staked stop Cupling	4
Staked stop Cupling	6
No stop Cupling	1/4
No stop Cupling	3/8
No stop Cupling	5/8
No stop Cupling	3/4
No stop Cupling	1
No stop Cupling	1-1/4



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No stop Cupling	1-1/2
No stop Cupling	2
No stop Cupling	2-1/2
No stop Cupling	3
No stop Cupling	4
Tee	1/4
Tee	5/8
Tee	1-1/4
Tee	1-1/2
Tee	2
Tee	2-1/2
Tee	3
Tee	4
Tee	5
Tee	6
Tee	8
Tee	3/8X3/8X1/4
Tee	1/2X1/2X1/4
Tee	1/2X1/2X3/8
Tee	1/2X1/2X3/4
Tee	1/2X1/2X1
Tee	5/8X5/8X1/4
Tee	5/8X5/8X3/8
Tee	5/8X5/8X1/2
Tee	3/4X3/4X1/4
Tee	3/4X3/4X3/8
Tee	3/4X3/4X5/8
Tee	3/4X3/4X1
Tee	1X1X3/8
Tee	1X1X3/4
Tee	1X1X1-1/4
Tee	1X1X1-1/2
Tee	1-1/4X1-1/4X3/8
Tee	1-1/4X1-1/4X1/2
Tee	1-1/4X1-1/4X5/8
Tee	1-1/4X1-1/4X3/4
Tee	1-1/4X1-1/4X1
Tee	1-1/4X1-1/4X1-1/2
Tee	1-1/2X1-1/2X1/2
Tee	1-1/2X1-1/2X3/4
Tee	1-1/2X1-1/2X1
Tee	1-1/2X1-1/2X1-1/4
Tee	1-1/2X1-1/2X2
Tee	2X2X1/2
Tee	2X2X3/4
Tee	2X2X1
Tee	2X2X1-1/4
Tee	2X2X1-1/2



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Tee	2X2X2-1/2
Tee	2-1/2X2-1/2X1/2
Tee	2-1/2X2-1/2X3/4
Tee	2-1/2X2-1/2X1
Tee	2-1/2X2-1/2X1-1/4
Tee	2-1/2X2-1/2X1-1/2
Tee	2-1/2X2-1/2X2
Tee	2-1/2X2-1/2X3
Tee	3X3X1/2
Tee	3X3X3/4
Tee	3X3X1
Tee	3X3X1-1/4
Tee	3X3X1-1/2
Tee	3X3X2
Tee	3X3X2-1/2
Tee	4X4X1/2
Tee	4X4X3/4
Tee	4X4X1
Tee	4X4X1-1/4
Tee	4X4X1-1/2
Tee	4X4X2
Tee	4X4X2-1/2
Tee	4X4X3
Tee	5X5X4
Tee	6X6X2
Tee	6X6X3
Tee	6X6X4
Tee	3/8X1/4X1/4
Tee	1/2X1/4X1/2
Tee	3/4X1/2X1/2
Tee	3/4X1/2X3/4
Tee	1X1/2X1/2
Tee	1X1/2X3/4
Tee	1X1/2X1
Tee	1X3/4X3/4
Tee	1X3/4X1
Tee	1-1/4X1/2X1
Tee	1-1/4X1/2X1-1/4
Tee	1-1/4X3/4X1/2
Tee	1-1/4X3/4X3/4
Tee	1-1/4X3/4X1
Tee	1-1/4X3/4X1-1/4
Tee	1-1/4X1X1/2
Tee	1-1/4X1X3/4
Tee	1-1/4X1X1
Tee	1-1/4X1X1-1/4
Tee	1-1/2X1/2X1-1/2
Tee	1-1/2X3/4X1/2



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Product: Wrought Copper Pressure Fittings

File No. 4197

Issued To: Jungwoo Metal Ind. Co. Ltd

Tee	1-1/2X3/4X3/4
Tee	1-1/2X3/4X1
Tee	1-1/2X3/4X1-1/4
Tee	1-1/2X3/4X1-1/2
Tee	1-1/2X1X1/2
Tee	1-1/2X1X3/4
Tee	1-1/2X1X1
Tee	1-1/2X1X1-1/4
Tee	1-1/2X1X1-1/2
Tee	1-1/2X1-1/4X1/2
Tee	1-1/2X1-1/4X3/4
Tee	1-1/2X1-1/4X1
Tee	1-1/2X1-1/4X1-1/4
Tee	1-1/2X1-1/4X1-1/2
Tee	2X1/2X2
Tee	2X3/4X2
Tee	2X1X1
Tee	2X1X2
Tee	2X1-1/4X3/4
Tee	2X1-1/4X1
Tee	2X1-1/4X1-1/4
Tee	2X1-1/4X1-1/2
Tee	2X1-1/4X2
Tee	2X1-1/2X1/2
Tee	2X1-1/2X3/4
Tee	2X1-1/2X1
Tee	2X1-1/2X1-1/4
Tee	2X1-1/2X1-1/2
Tee	2X1-1/2X2
Tee	2-1/2X3/4X2-1/2
Tee	2-1/2X1X2
Tee	2-1/2X1X2-1/2
Tee	2-1/2X1-1/4X2-1/2
Tee	2-1/2X1-1/2X1-1/2
Tee	2-1/2X1-1/2X2
Tee	2-1/2X1-1/2X2-1/2
Tee	2-1/2X2X3/4
Tee	2-1/2X2X1
Tee	2-1/2X2X1-1/4
Tee	2-1/2X2X1-1/2
Tee	2-1/2X2X2
Tee	2-1/2X2X2-1/2
Tee	3X3/4X3
Tee	3X1X3
Tee	3X1-1/4X3
Tee	3X1-1/2X3
Tee	3X2X2
Tee	3X2X2-1/2



# IAPMO RESEARCH AND TESTING, INC.

## CERTIFICATE OF LISTING

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Void After: October 2017

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Tee	3X2X3
Tee	3X2-1/2X1-1/2
Tee	3X2-1/2X2
Tee	3X2-1/2X2-1/2
Tee	3X2-1/2X3
Tee	4X2X4
Tee	4X3X2
Tee	4X3X2-1/2
Tee	4X3X3
Tee	4X3X4
Return Bend	3/4
Return Bend	1