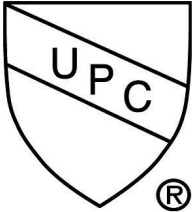


# IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • www.iapmo.org



## 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.

Effective Date: September 2010 Void After: September 2011

Product: Gas Piping Corrugated Stainless Steel Tubing System File No. 3353

Issued To: Ward Manufacturing LLC  
117 Gulick Street  
Blossburg, PA 16912

IDENTIFICATION: Each component of piping system shall bear permanent markings which include the manufacturer's name, trademark or symbol, part number, symbol of the organization making the test for compliance with ANSI/IAS LC 1b. The tubing shall also bear a permanent marking of the maximum actual operating pressure in psi, the equivalent hydraulic diameter (EHD) and the words "FUEL GAS PIPING". These markings shall appear on tubing at not less than 24-inch interval. In addition, each component supplied by the manufacturer shall bear a separate date code marking in accordance with ANSI/IAS LC 1b, and shall also bear the UPC® certification mark.

  
Chairman, Product Certification Committee

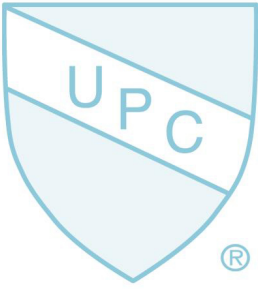
  
CEO, The IAPMO Group

For the most accurate and updated information please visit <http://pld.iapmo.org/3353>

This listing is for the period indicated herein and is void after the 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. Reproduction 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.



DOC#081A



# IAPMO RESEARCH AND TESTING, INC.

## CERTIFICATE OF LISTING

Page 2

Void After: September 2011

Product: Gas Piping Corrugated Stainless Steel Tubing System File No. 3353  
Issued To: Ward Manufacturing LLC

**CHARACTERISTICS:** Interior fuel gas piping systems, using corrugated stainless steel tubing, to be used in installation in residential or commercial buildings. Components include tubing, fittings, manifolds and sticker plate. May be used in conjunction with other approved fuel gas piping materials. May be used for fuel gas at maximum actual operating pressure not exceeding 5 psig. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code.

Products comply with the applicable sections of the latest edition of the Uniform Plumbing Code® and the International Plumbing Code®. Manufactured in compliance with ANSI/IAS LC 1-2005.

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.

**MODELS:**

**Mechanical Joints, Male**

10A, 10AXC, 15A, 15AXC, 20A, 25A, 25AX1, 32A, 38A, 50A

**Mechanical Joints, Female**

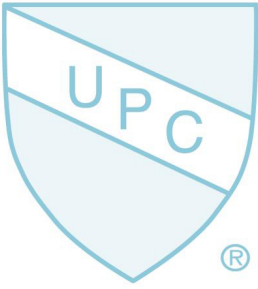
10A, 15A, 20A, 20AXD, 25AX1, 32A, 38A, 50A

**Indoor/Outdoor Termination Nut Assemblies**

10A, 15A, 20A, 25A, 25AX1

**Indoor/Outdoor Flange Termination Nut Asemblies**

10A, 15A, 20A, 25AX1, 32A, 38A, 50A



# IAPMO RESEARCH AND TESTING, INC.

## CERTIFICATE OF LISTING

Page 3

Void After: September 2011

Product: Gas Piping Corrugated Stainless Steel  
Tubing System  
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File No. 3353

### Couplings

10A, 15A, 20A, 25A, 32A, 38A, 50A, 10.C, 15.C, 20.C, 25.C, 32.C, 38.C, 50.C

### Tees

15A, 15AX10A, 15AX10AX10A, 15AXD, 20A, 20AX15A, 20AX15AX15A, 20AX15AXD, 20AXD, 20AXE, 25A, 25AX1, 25AXE, 25AX20A, 32A, 32AX1B, 38A, 38AX1D, 50A, 50AX2

### Tubing

10A, 15A, 20A, 25A, 32A, 38A, 50A

### Valves

10A, 15A, 15AWF90, 20A, 25A, 15A.WFKIT, 10.V, 15.V, 20.V, 25.V, 15.90V, 15XD.WFFMKIT, 20XD.WFFMKIT

### Bodies

10XC.B, 10XD.B, 15XC.B, 15XD.B, 20XE.B, 25XE.B, 25X1.B, 32X1B.B, 38X1D.B, 50X2.B

### Female Bodies

10XC.FB, 10XD.FB, 15XC.FB, 15XD.FB, 20XD.FB, 20XE.FB, 25XE.FB, 25X1.FB

### Retainers

10.R, 15.R, 20.R, 25.R, 32.R, 38.R, 50.R

### Nuts

10.N, 15.N, 20.N, 25.N, 32.N, 38.N, 50.N

### Adapter Nuts

10.AN, 15.AN, 20.AN, 25.AN

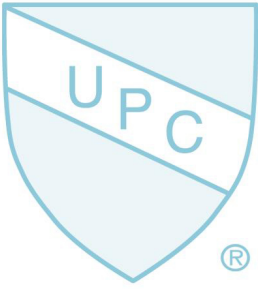
### Termination Nuts

10.PTN, 15.PTN, 20.PTN, 25.PTN

### Floor Flange Termination Nuts

10.PTN, 15.PTN, 20.PTN, 25.PTN

10.FTN, 15.FTN, 20.FTN, 25.FTN, 32.FTN, 38.FTN, 50.FTN



# IAPMO RESEARCH AND TESTING, INC.

## CERTIFICATE OF LISTING

Page 4

Void After: September 2011

Product: Gas Piping Corrugated Stainless Steel  
Tubing System  
Issued To: Ward Manufacturing LLC

File No. 3353

### Tee Bodies

15.T, 15X10.T, 15X10X10.T, 15XD.FT, 20.T, 20X15.T, 20X15X15.T, 20XD.FT, 20XE.FT, 25.T, 25X20.T, 25XE.FT, 25X1.FT, 32.T, 32X1B.FT, 38.T, 38X1D.FT, 50.T, 50X2.FT

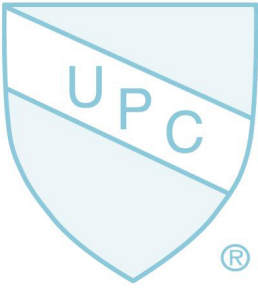
NOTE: "A" can be replaced by "M". "A" designates 3 corrugations,  
"M" designates 1 corrugation.

### WARDFKEX size designations

10A, 10M = 3/8"  
15A, 15M = 1/2"  
20A, 20M = 3/4"  
25A, 25M = 1"  
32A, 32M = 1-1/4"  
38A, 38M = 1-1/2"  
50A, 50M = 2"

### Standard Fitting Terminations

10A	= 3/8"	WARDFLEX x 1/2" NPT"
10AXC	= 3/8"	WARDFLEX x 3/8" NPT"
10MXC	= 3/8"	WARDFLEX x 3/8" NPT"
10MXD	= 3/8"	WARDFLEX x 1/2" NPT"
15A	= 1/2"	WARDFLEX x 1/2" NPT"
15AXC	= 1/2"	WARDFLEX x 3/8" NPT"
15MXD	= 1/2"	WARDFLEX x 1/2" NPT"
20AXD	= 3/4"	WARDFLEX x 1/2" NPT"
20MXD	= 3/4"	WARDFLEX x 1/2" NPT"
20MXE	= 3/4"	WARDFLEX x 3/4" NPT"
25A	= 1"	WARDFLEX x 3/4" NPT"
25AX1	= 1"	WARDFLEX x 1" NPT"
25MXE	= 1"	WARDFLEX x 3/4" NPT"
25MX1	= 1"	WARDFLEX x 1" NPT"
32A	= 1-1/4"	WARDFLEX x 1-1/4" NPT"



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## CERTIFICATE OF LISTING

Page 5

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Tubing System  
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File No. 3353

32MX1B= 1-1/4" WARDFLEX x 1-1/4" NPT"  
38A = 1-1/2" WARDFLEX x 1-1/2" NPT"  
38MX1D= 1-1/2" WARDFLEX x 1-1/2" NPT"  
50A = 2" WARDFLEX x 2" NPT"  
50MX2 = 2" WARDFLEX x 2" NPT"

### Fitting Styles (suffix)

WFMJ = WARDFLEX Mechanical Joint [male NPT]

WFMJF = WARDFLEX Mechanical Joint Female [female NPT]

WFT = WARDFLEX Tee [CSST connection only] eg 15A= 1/2" tubing connections

WFFT = WARDFLEX Female Tee [CSST and female NPT connection] eg 20AX10AXD =20A X 10A tubing connections X 1/2" NPT

[WARD designates fractional size pipe fittings: A=1/8, B=1/4", C=3/8", D=1/2" and E=3/4"]

WFTF = WardFlex Termination Nut [nut has 2 mounting holes]

WFOTF = WardFlex Outdoor Termination Nut [nut has 2 mounting holes + weather sealing o-rings]

WFOTFF = WardFlex Female Outdoor Termination Nut

WFFFTA = Floor Flange Termination Nut [nut has 4 mounting holes]

WFFTNA = WardFlex Flange Termination Nut [nut has 4 mounting holes]

WFFOTNA = WardFlex Flange Termination Nut [nut has 4 mounting holes + weather sealing o-rings]

WFV = WardFlex Valve

WF90V = WardFlex 90° Valve

WFC = WardFlex Coupling