

IAPMO RESEARCH AND TESTING, INC.

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LISTED PRODUCTS

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 2008 Void After: September 2009

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

Issued To: Ward Manufacturing LLC
115 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


Executive Director

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 alternation of this certificate could be grounds for revocation of the listing.



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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



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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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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