

# IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 – USA • 909-472-4100 • 909-472-4244 • www.iapmort.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.

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Effective Date: December 2019

Void After: December 2024

Product: Malleable Iron Threaded Fittings classes 150 and 300

File No. 9600

Issued To: PT. TRI SINAR PURNAMA  
Jl. Moch. Ichsan Rt 01/rw 01  
Kelurahan Wates,  
Kecamatan Ngaliyan  
Semarang, NG 50188  
Indonesia

Identification: Each Class 150 fitting shall be marked for identification with the manufacturer's name or trademark, and the UPC® certification mark. Class 300 fittings shall in addition be marked with, the numerals "300", the letters MI to designate malleable iron, the size, and other markings as permitted by MSS SP-25

Characteristics: The chemical and physical properties of the castings shall be in accordance with ASTM A197. When malleable iron fittings are zinc coated, they shall be hot dipped in accordance with ASTM A153 or have an electrodeposited zinc coating conforming to ASTM B633, Type I, Service Condition 4. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code.

  
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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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.

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

Uniform Plumbing Code (UPC®)

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

ASME B16.3-2016



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Model No. Configuration

BL ELBOWS 90 DEGREE  
1/8"  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"  
6"

BTAS COUPLINGS  
1/8"  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"

BRS REDUCING COUPLINGS  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"

BCR CROSSES  
1/4"  
3/8"  
1/2"



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3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"

BT            TEES            \

1/8"  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"  
6"

BL 45            ELBOWS 45 DEGREE

1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"  
6"

BRCA            CAPS

1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"



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3"  
3-1/2"  
4"  
6"

BSL STREET ELBOWS 90 DEGREE

1/8"  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
2"  
1-1/2"  
2-1/2"  
3"  
4"

BSL 45 STREET ELBOWS 45 DEGREE

1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"  
4"

RBL REDUCING ELBOWS 90 DEGREE

1/4" x 1/8"  
3/8" x 1/4"  
3/8" x 1/8"  
1/2" x 3/8"  
1/2" x 1/4"  
3/4" x 1/2"  
3/4" x 3/8"  
3/4" x 1/4"  
1" x 1/2"  
1" x 3/4"  
1" x 3/8"  
1-1/4" x 1"  
1-1/4" x 3/4"  
1-1/4" x 1/2"  
1-1/2" x 1-1/4"



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

RBT

### REDUCING TEES

1/8" x 1/8" x 1/4"  
1/4" x 1/4" x 1/8"  
1/4" x 1/4" x 3/8"  
3/8" x 1/4" x 1/4"  
3/8" x 1/4" x 3/8"  
3/8" x 3/8" x 1/4"  
3/8" x 3/8" x 3/8"  
3/8" x 3/8" x 1/2"  
1/2" x 1/4" x 1/2"  
1/2" x 1/2" x 1/4"  
1/2" x 1/2" x 3/8"  
1/2" x 1/4" x 1/2"  
1/2" x 1/2" x 1/4"  
1/2" x 1/2" x 3/8"  
1/2" x 3/8" x 3/8"  
1/2" x 3/8" x 1/2"  
1/2" x 1/2" x 3/4"  
1/2" x 1/2" x 1"  
3/4" x 1/4" x 3/4"  
3/4" x 3/8" x 3/8"  
3/4" x 3/8" x 3/4"  
3/4" x 1/2" x 3/8"  
3/4" x 1/2" x 1/2"  
3/4" x 1/2" x 3/4"  
3/4" x 3/4" x 1/4"  
3/4" x 3/4" x 3/8"  
3/4" x 3/4" x 1/2"  
3/4" x 3/4" x 1"  
3/4" x 3/4" x 1-1/4"  
1" x 1/2" x 1/2"  
1" x 1/2" x 3/4"  
1" x 1/2" x 1"  
1" x 3/4" x 1/2"  
1" x 3/4" x 3/4"  
1" x 3/4" x 1"



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1" x 1" x 3/8"  
1" x 1" x 1/2"  
1" x 1" x 3/4"  
1" x 1" x 1-1/4"  
1" x 1" x 1-1/2"  
1" x 1" x 2"  
1-1/4" x 1/2" x 1"  
1-1/4" x 1/2" x 1-1/4"  
1-1/4" x 3/4" x 3/4"  
1-1/4" x 3/4" x 1"  
1-1/4" x 3/4" x 1-1/4"  
1-1/4" x 1" x 1/2"  
1-1/4" x 1" x 3/4"  
1-1/4" x 1" x 1"  
1-1/4" x 1" x 1-1/4"  
1-1/4" x 1-1/4" x 3/8"  
1-1/4" x 1-1/4" x 1/2"  
1-1/4" x 1-1/4" x 3/4"  
1-1/4" x 1-1/4" x 1"  
1-1/4" x 1-1/4" x 1-1/2"  
1-1/4" x 1-1/4" x 2"  
1-1/2" x 1/2" x 1-1/2"  
1-1/2" x 3/4" x 1/2"  
1-1/2" x 3/4" x 1-1/2"  
1-1/2" x 1" x 1"  
1-1/2" x 1" x 1-1/4"  
1-1/2" x 1" x 1-1/2"  
1-1/2" x 1-1/4" x 1/2"  
1-1/2" x 1-1/4" x 3/4"  
1-1/2" x 1-1/4" x 1"  
1-1/2" x 1-1/4" x 1-1/4"  
1-1/2" x 1-1/4" x 1-1/2"  
1-1/2" x 1-1/2" x 1/2"  
1-1/2" x 1-1/2" x 3/4"  
1-1/2" x 1-1/2" x 1"  
1-1/2" x 1-1/2" x 1-1/4"  
1-1/2" x 1-1/2" x 2"  
2" x 3/4" x 2"  
2" x 1" x 1-1/2"  
2" x 1" x 2"  
2" x 1-1/4" x 1-1/4"  
2" x 1-1/4" x 1-1/2"  
2" x 1-1/2" x 1"  
2" x 1-1/2" x 1-1/4"  
2" x 1-1/2" x 1-1/2"  
2" x 1-1/2" x 2"  
2" x 2" x 1/2"



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2" x 2" x 3/4"  
2" x 2" x 1"  
2" x 2" x 1-1/4"  
2" x 2" x 1-1/2"  
2" x 2" x 2-1/2"  
2-1/2" x 1-1/2" x 2"  
2-1/2" x 1-1/2" x 2-1/2"  
2-1/2" x 2" x 2"  
2-1/2" x 2" x 2-1/2"  
2-1/2" x 2-1/2" x 3/4"  
2-1/2" x 2-1/2" x 1"  
2-1/2" x 2-1/2" x 1-1/4"  
2-1/2" x 2-1/2" x 1-1/2"  
2-1/2" x 2-1/2" x 2"  
3" x 2" x 2"  
3" x 2" x 3"  
3" x 3" x 3/4"  
3" x 3" x 1"  
3" x 3" x 1-1/4"  
3" x 3" x 1-1/2"  
3" x 3" x 2"  
3" x 3" x 2-1/2"  
4" x 4" x 1-1/2"  
4" x 4" x 2"  
4" x 4" x 2-1/2"  
4" x 4" x 3"  
6" x 6" x 2"  
6" x 6" x 3"  
6" x 6" x 4"

LN LOCKNUTS

1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"

HB OUTSIDE AND INSIDE HEAD BUSHING

1/4" x 1/8"  
3/8" x 1/4"  
3/8" x 1/8"  
1/2" x 3/8"  
1/2" x 1/4"  
1/2" x 1/8"





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3/4" x 1/2"  
3/4" x 3/8"  
3/4" x 1/4"  
3/4" x 1/8"  
1" x 3/4"  
1" x 1/2"  
1" x 3/8"  
1" x 1/4"  
1" x 1/8"  
1-1/4" x 1"  
1-1/4" x 3/4"  
1-1/4" x 1/2"  
1-1/4" x 3/8"  
1-1/4" x 1/4"  
1-1/2" x 1-1/4"  
1-1/2" x 1"  
1-1/2" x 3/4"  
1-1/2" x 1/2"  
1-1/2" x 3/8"  
1-1/2" x 1/4"  
2" x 1-1/2"  
2" x 1-1/4"  
2" x 1"  
2" x 3/4"  
2" x 1/2"  
2" x 3/8"  
2" x 1/4"  
2-1/2" x 2"  
2-1/2" x 1-1/2"  
2-1/2" x 1-1/4"  
2-1/2" x 1"  
2-1/2" x 3/4"  
2-1/2" x 1/2"  
3" x 1"  
3" x 1-1/4"  
3" x 1-1/2"  
3" x 2"  
3" x 2-1/2"  
4" x 1"  
4" x 1-1/4"  
4" x 1-1/2"  
4" x 2"  
4" x 2-1/2"  
4" x 3"  
6" x 3"  
6" x 4"

PG

SQUARE HEAD PLUG



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1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"

PG SLOTTED HEAD PLUGS  
4"  
6"

CU UNION NON BRASS  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"

CUBRA CLASS 150 UNION BRASS  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"  
2-1/2"  
3"

CUBRA CLASS 300 UNION BRASS  
1/4"  
3/8"  
1/2"  
3/4"  
1"  
1-1/4"  
1-1/2"  
2"



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2-1/2"  
3"