



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000119963 - ONE (1) YEAR CONTRACT FOR THE SUPPLY OF BRONZE
FITTINGS FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC
WORKS, ALL WATER DISTRICTS, AND ALL JEFFERSON PARISH
AGENCIES AND MUNICIPALITIES**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

15-Jun-2017 08:22:51 AM

DATE: 6/14/2017

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00119963

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

BUYER: MCamardelle@jeffparish.net

BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 6/29/2017 AND PUBLICLY OPENED THEREAFTER.

For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only. All bids will be publicly opened at the West Bank location.

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting www.jeffparishbids.net to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

PROTESTS: Only those vendors that submitted a bid in response to this solicitation may submit a protest in writing to the Director of the Purchasing within 48 hours of bid opening. The Purchasing Director will review it in connection with the Parish Attorney's Office which will then respond in writing as soon as possible.

PREFERENCE: Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA – R.S. 38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

10, 12, 13, 15

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA - RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session - Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____ %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF ONE (1) YEAR FROM DATE OF AWARD

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

STOCK - 30 DAYS

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: A.Y. McDonald Mfg. Co.

ADDRESS: 4800 Chavenelle Road

CITY, STATE: Dubuque, Iowa ZIP: 52002

TELEPHONE: (800) 292-2737 FAX: (800) 832-9296

EMAIL ADDRESS: SALES@AYMCDONALD.COM

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

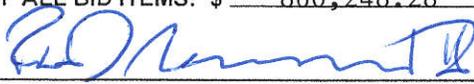
Acknowledge Receipt of Addenda: NUMBER: (N/A)

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 860,248.28

AUTHORIZED SIGNATURE: 

Robert D. McDonald II
Printed Name

TITLE: President & Chief Executive Officer

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|-------------|
| | | | ONE (1) YEAR CONTRACT FOR THE SUPPLY OF BRONZE FITTINGS FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS, ALL WATER DISTRICTS, AND ALL JEFFERSON PARISH AGENCIES AND MUNICIPALITIES | | |
| 1 | 35.00 | ONLY | 0010 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF FEMALE IRON PIPE FORD C14-33; 3/4 INCH PJ/FIP (38016) | \$9.31 | \$325.85 |
| 2 | 1.00 | ONLY | 0020 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF FEMALE IRON PIPE FORD C14-44; 1 INCH PJ/FIP (38026) | \$12.73 | \$12.73 |
| 3 | 4.00 | ONLY | 0030 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF FEMALE IRON PIPE FORD C14-77; 2 INCH PJ/FIP (38028) | \$43.78 | \$175.12 |
| 4 | 350.00 | ONLY | 0040 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF MALE IRON PIPE, FORD C84-33; 3/4 INCH PJ/MIP (38015) | \$8.86 | \$3,101.00 |
| 5 | 100.00 | ONLY | 0050 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF MALE IRON PIPE, FORD C84-44; 1 INCH PJ/MIP (38025) | \$10.50 | \$1,050.00 |
| 6 | 260.00 | ONLY | 0060 ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW, AND AN OUTLET OF MALE IRON PIPE, FORD C84-77; 2 INCH PJ/MIP (38027) | \$41.88 | \$10,888.80 |
| 7 | 100.00 | ONLY | 0070 BUSHING, REDUCING, INLET OF CC/AWWA MALE TAPER THREADS AND OUTLET OF FEMALE CC/AWWA TAPER THREADS; FORD #BBAA-43 1 INCH MALE CC X 3/4 INCH FEMALE CC (37980) | \$8.80 | \$880.00 |
| 8 | 1.00 | ONLY | 0080 BUSHING, REDUCING, INLET OF CC/AWWA MALE TAPER THREADS AND OUTLET OF FEMALE CC/AWWA TAPER THREADS; | \$39.61 | \$39.61 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|-------------|
| 9 | 1.00 | ONLY | FORD #BBAA-73 2 INCH MALE CC X 3/4 INCH FEMALE CC (37981) | | |
| 10 | 1.00 | ONLY | 0090 BUSHING, REDUCING, INLET OF CC/AWWA MALE TAPER THREADS AND OUTLET OF FEMALE CC/AWWA TAPER THREADS; FORD #BBAA-74 2 INCH MALE CC X 1 INCH FEMALE CC (37982) | \$40.51 | \$40.51 |
| 11 | 1.00 | ONLY | 0100 BUSHING (ADAPTER), REDUCING, INLET OF CC/AWWA MALE TAPER THREADS AND BUSHING (ADAPTER), REDUCING, OUTLET OF FEMALE NATIONAL PIPE THREADS FORD #BBA1-31 3/4 INCH MALE CC X 1/2 INCH FEMALE NPT (37968) | \$7.17 | \$7.17 |
| 12 | 1.00 | ONLY | 0120 BUSHING (ADAPTER), REDUCING, BRASS, INLET OF CC/AWWA MALE TAPER THREADS, AND OUTLET OF FEMALE NATIONAL PIPE THREADS; FORD #BBA1-43 1 INCH MALE CC X 3/4 INCH FEMALE NPT (37969) | \$9.34 | \$9.34 |
| 13 | 1.00 | ONLY | 0130 BUSHING (ADAPTER), REDUCING, BRASS, INLET OF CC/AWWA MALE TAPER THREADS, AND OUTLET OF FEMALE NATIONAL PIPE THREADS; FORD #BBA1-74 2 INCH MALE CC X 1 INCH FEMALE NPT (37970) | \$40.50 | \$40.50 |
| 14 | 1.00 | ONLY | 0140 BUSHING (ADAPTER), REDUCING, BRASS, INLET OF CC/AWWA MALE TAPER THREADS, AND OUTLET OF FEMALE NATIONAL PIPE THREADS; FORD #BBA1-75 2 INCH MALE CC X 1-1/4 INCH FEMALE NPT (37971) | \$39.22 | \$39.22 |
| 15 | 925.00 | ONLY | 0150 CONNECTOR, YOKE BOX EXPANSION, STANDARD/HANDWHEEL, TO HAVE AN INLET OF FEMALE METER THREADS WITH AN OUTLET OF MALE YOKE CONNECTION; FORD #EC-23 5/8 INCH X 3/4 INCH (38175) | \$11.85 | \$10,961.25 |
| 15 | 1,250.00 | ONLY | 0160 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN | \$27.05 | \$33,812.50 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|-------------|
| 16 | 600.00 | ONLY | OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED RECTANGULAR KEYWAY; FORD #FB1000-3 3/4 INCH CC/PJ (38035) | | |
| 17 | 290.00 | ONLY | 0170 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED RECTANGULAR KEYWAY; FORD #FB1000-4 1 INCH CC/PJ (38062) | \$35.57 | \$21,342.00 |
| 18 | 1.00 | ONLY | 0180 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED RECTANGULAR KEYWAY; FORD #FB1000-7 2 INCH CC/PJ (38095) | \$131.81 | \$38,224.90 |
| 19 | 1.00 | ONLY | 0190 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN OUTLET OF FEMALE IRON PIPE THREADS, TO HAVE LARGE RAISED RECTANGULAR KEYWAY FORD #FB1600-3; 3/4 INCH CC/FIP (38034) | \$23.48 | \$23.48 |
| 20 | 2.00 | ONLY | 0200 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN OUTLET OF FEMALE IRON PIPE THREADS, TO HAVE LARGE RAISED RECTANGULAR KEYWAY FORD #FB1600-4; 1 INCH CC/FIP (38064) | \$31.67 | \$31.67 |
| 21 | 36.00 | ONLY | 0210 CORPORATION STOP, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS AND AN OUTLET OF FEMALE IRON PIPE THREADS, TO HAVE LARGE RAISED RECTANGULAR KEYWAY FORD #FB1600-7; 2 INCH CC/FIP (38094) | \$131.89 | \$263.78 |
| 22 | 180.00 | ONLY | 0220 CORPORATION STOP, TO HAVE AN INLET OF MALE IRON PIPE THREADS AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED RECTANGULAR KEYWAY; FORD #FB1100-3 3/4 INCH MIP/PJ (38033) | \$28.60 | \$1,029.60 |
| | | | 0230 CORPORATION STOP, TO HAVE AN INLET OF MALE IRON PIPE THREADS AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED | \$37.61 | \$6,769.80 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|------------|
| 23 | 10.00 | ONLY | RECTANGULAR KEYWAY; FORD #FB1100-4 1 INCH MIP/PJ (38063) | | |
| | | | 0240 CORPORATION STOP, TO HAVE AN INLET OF MALE IRON PIPE THREADS AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW, TO HAVE LARGE RAISED RECTANGULAR KEYWAY; FORD #FB1100-7 2 INCH MIP/PJ (38093) | \$139.38 | \$1,393.80 |
| 24 | 1.00 | ONLY | 0250 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF FEMALE IRON PIPE THREADING; FORD #C31-23 5/8 INCH X 3/4 INCH MTR/FIP (38135) | \$8.43 | \$8.43 |
| 25 | 1.00 | ONLY | 0260 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF FEMALE IRON PIPE THREADING; FORD #C31-44 1 INCH MTR/FIP (38136) | \$12.15 | \$12.15 |
| 26 | 1.00 | ONLY | 0270 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF FEMALE IRON PIPE THREADING; FORD #C31-77 2 INCH MTR/FIP | \$50.93 | \$50.93 |
| 27 | 510.00 | ONLY | 0280 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF MALE IRON PIPE THREADING; FORD #C38-23-2.5 5/8 INCH X 3/4 INCH MTR/MIP (38110) | \$5.76 | \$2,937.60 |
| 28 | 50.00 | ONLY | 0290 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF MALE IRON PIPE THREADING; FORD #C38-44-2.625 1 INCH MTR/MIP (38120) | \$8.86 | \$443.00 |
| 29 | 1.00 | ONLY | 0300 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF MALE IRON PIPE THREADING; FORD #C38-77 2 INCH MTR/MIP (38130) | \$36.55 | \$36.55 |
| 30 | 1.00 | ONLY | 0310 COUPLING, METER, TO HAVE AN INLET OF OVAL METER FLANGE AND AN OUTLET OF | \$33.44 | \$33.44 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|-------------|
| 31 | 340.00 | ONLY | FEMALE IRON PIPE; FORD #CF31-77 2 INCH FLG/FIP (38160) | | |
| | | | 0320 COUPLING, METER, TO HAVE AN INLET OF OVAL METER FLANGE AND AN OUTLET OF | | |
| | | | MALE IRON PIPE; FORD #CF38-77-1-937 2 INCH FLG/MIP (38098) | \$33.61 | \$11,427.40 |
| 32 | 3,800.00 | ONLY | 0330 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER | | |
| | | | WITH AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW FORD #C24-23; 5/8 INCH X 3/4 INCH MTR/PJ (38155) | \$11.04 | \$41,952.00 |
| 33 | 1,200.00 | ONLY | 0340 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER | | |
| | | | WITH AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW FORD #C34-44; 1 INCH MTR/PJ (38165) | \$14.86 | \$17,832.00 |
| 34 | 1.00 | ONLY | 0350 COUPLING, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER | | |
| | | | WITH AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW FORD #C34-77; 2 INCH MTR/PJ | \$56.54 | \$56.54 |
| 35 | 1.00 | ONLY | 0360 COUPLING, METER, OVAL METER FLANGE WITH AN OUTLET OF PACK JOINT COMPRESSION | | |
| | | | TYPE FITTING WITH CLAMPING SET SCREW A Y MCDONALD #610-222; 2 INCH FLG/PJ | \$56.54 | \$56.54 |
| 36 | 5,800.00 | ONLY | 0370 COUPLING, UNION, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION | | |
| | | | WITH CLAMPING SET SCREW; FORD #C44-33 3/4 INCH PJ (38102) | \$10.54 | \$61,132.00 |
| 37 | 1,090.00 | ONLY | 0380 COUPLING, UNION, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION | | |
| | | | WITH CLAMPING SET SCREW; FORD #C44-44 1 INCH PJ (38104) | \$12.35 | \$13,461.50 |
| 38 | 180.00 | ONLY | 0390 COUPLING, UNION, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION | | |
| | | | WITH CLAMPING SET SCREW; FORD #C44-77 | \$55.76 | \$10,036.80 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|------------|
| 39 | 750.00 | ONLY | 2 INCH PJ (38106) 0400 COUPLING, UNION (REDUCER), TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW; FORD #C44-34 3/4 INCH PJ X 1 INCH PJ (38208) | \$12.54 | \$9,405.00 |
| 40 | 225.00 | ONLY | 0410 COUPLING, UNION/ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR PE TUBING, AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR IP PIPE; FORD #C45-33 3/4 INCH PE-PJ/IP-PJ (38021) | \$11.94 | \$2,686.50 |
| 41 | 138.00 | ONLY | 0420 COUPLING, UNION/ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR PE TUBING, AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR IP PIPE; FORD #C45-44 1 INCH PE-PJ/IP-PJ (38022) | \$16.03 | \$2,212.14 |
| 42 | 24.00 | ONLY | 0430 COUPLING, UNION/ADAPTER, TO HAVE AN INLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR PE TUBING, AND AN OUTLET OF PACK JOINT COMPRESSION FITTING WITH CLAMPING SET SCREW AND GASKET FOR IP PIPE; FORD #C45-77 2 INCH PE-PJ/IP-PJ (38023) | \$58.06 | \$1,393.44 |
| 43 | 1.00 | ONLY | 0440 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF FEMALE IRON PIPE THREADS AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B11-333W; 3/4 INCH FIP (38081) | \$31.66 | \$31.66 |
| 44 | 1.00 | ONLY | 0450 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF FEMALE IRON PIPE THREADS AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B11-444W; 1 INCH FIP (38085) | \$48.52 | \$48.52 |
| 45 | 1.00 | ONLY | 0460 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF FEMALE IRON PIPE | \$142.81 | \$142.81 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|--------------|
| 46 | 3,700.00 | ONLY | THREADS AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B11-777W; 2 INCH FIP (38088) | | |
| 47 | 820.00 | ONLY | 0470 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B44-333W; 3/4 INCH PJ (38086) | \$37.05 | \$137,085.00 |
| 48 | 1.00 | ONLY | 0480 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B44-444W; 1 INCH PJ (38091) | \$56.26 | \$46,133.20 |
| 49 | 1.00 | ONLY | 0490 CURB STOP, BALL VALVE, TO HAVE AN INLET AND AN OUTLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #B44-777W; 2 INCH PJ (38096A) | \$199.19 | \$199.19 |
| 50 | 1.00 | ONLY | 0500 CURB STOP, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE IRON PIPE, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #B41-333W 3/4 INCH PJ/FIP | \$35.61 | \$35.61 |
| 51 | 1.00 | ONLY | 0510 CURB STOP, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE IRON PIPE, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #B41-444W 1 INCH PJ/FIP | \$54.01 | \$54.01 |
| 52 | 1,440.00 | ONLY | 0520 CURB STOP, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE IRON PIPE, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #B41-777W 2 INCH PJ/FIP | \$161.07 | \$161.07 |
| | | | 0530 ELBOW, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$13.95 | \$20,088.00 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|-------------|
| 53 | 314.00 | ONLY | SET SCREW; FORD #L44-33 3/4 INCH PJ (38180) 0540 ELBOW, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING | | |
| 54 | 145.00 | ONLY | SET SCREW; FORD #L44-44 1 INCH PJ (38181) 0550 ELBOW, TO HAVE AN INLET AND OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$17.91 | \$5,623.74 |
| 55 | 1.00 | ONLY | SET SCREW; FORD #L44-77 2 INCH PJ (38099) 0560 ELBOW (ADAPTER), TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$116.37 | \$16,873.65 |
| 56 | 2.00 | ONLY | SET SCREW AND AN OUTLET OF FEMALE IRON PIPE; FORD #L14-33; 3/4 INCH PJ/FIP (38176) 0570 ELBOW (ADAPTER), TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$12.57 | \$12.57 |
| 57 | 1.00 | ONLY | SET SCREW AND AN OUTLET OF FEMALE IRON PIPE; FORD #L14-44; 1 INCH PJ/FIP (38177) 0580 ELBOW (ADAPTER), TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$20.50 | \$41.00 |
| 58 | 2.00 | ONLY | SET SCREW AND AN OUTLET OF MALE IRON PIPE; FORD #L84-33; 3/4 INCH PJ/MIP 0590 ELBOW (ADAPTER), TO HAVE AN INLET OF PACK JOINT COMPRESSION WITH CLAMPING | \$9.71 | \$9.71 |
| 59 | 2.00 | ONLY | SET SCREW AND AN OUTLET OF MALE IRON PIPE; FORD #L84-44; 1 INCH PJ/MIP 0600 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH | \$16.14 | \$32.28 |
| 60 | 1.00 | ONLY | AN OUTLET OF FEMALE IRON PIPE FORD #L31-23; 3/4 INCH MTR/FIP 0610 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH | \$9.95 | \$19.90 |
| | | | AN OUTLET OF FEMALE IRON PIPE | \$14.64 | \$14.64 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|-------------|
| 61 | 1.00 | ONLY | FORD #L31-44; 1 INCH MTR/FIP 0620 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF MALE IRON PIPE FORD #L38-23; 3/4 INCH MTR/MIP (38171) | \$8.46 | \$8.46 |
| 62 | 1.00 | ONLY | 0630 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF MALE IRON PIPE FORD #L38-44; 1 INCH MTR/MIP (38172) | \$12.07 | \$12.07 |
| 63 | 1,000.00 | ONLY | 0640 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW; FORD #L34-23 3/4 INCH MTR/PJ (38190) | \$12.43 | \$12,430.00 |
| 64 | 182.00 | ONLY | 0650 ELBOW, METER, TO HAVE AN INLET OF FEMALE THREADED METER NUT COUPLER WITH AN OUTLET OF PACK JOINT COMPRESSION WITH CLAMPING SET SCREW; FORD #L34-44 1 INCH MTR/PJ (38191) | \$19.81 | \$3,605.42 |
| 65 | 1.00 | ONLY | 0660 NUT, PACK JOINT WITH CLAMPING SET SCREW AND GASKET; FORD #NG-D4 3/4 INCH (38037) | \$3.13 | \$3.13 |
| 66 | 1.00 | ONLY | 0670 NUT, PACK JOINT WITH CLAMPING SET SCREW AND GASKET; FORD #NG-F4 1 INCH (38038) | \$4.82 | \$4.82 |
| 67 | 1.00 | ONLY | 0680 NUT, PACK JOINT WITH CLAMPING SET SCREW AND GASKET; FORD #NG-K4 2 INCH (38039) | \$14.29 | \$14.29 |
| 68 | 1.00 | ONLY | 0690 PLUG, BRASS, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS, TO HAVE RAISED SQUARE WRENCH HEAD NUT MUELLER #H-10033-33 3/4 INCH MALE CC (37998) | \$5.25 | \$5.25 |
| 69 | 80.00 | ONLY | 0700 PLUG, BRASS, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS, TO HAVE | \$7.64 | \$611.20 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|------------|
| 70 | 1.00 | ONLY | RAISED SQUARE WRENCH HEAD NUT MUELLER #H-10033-44 1 INCH MALE CC (38000) | | |
| | | | 0710 PLUG, BRASS, TO HAVE AN INLET OF CC/AWWA MALE TAPER THREADS, TO HAVE | | |
| | | | RAISED SQUARE WRENCH HEAD NUT MUELLER #H-10033-77 2 INCH MALE CC (38003) | \$22.22 | \$22.22 |
| 71 | 30.00 | ONLY | 0720 TEE, INLET RUN AND OUTLET BRANCH ARE TO BE OF PACK JOINT COMPRESSION TYPE | | |
| | | | FITTING WITH CLAMPING SET SCREW FORD #T444-333 3/4 INCH PJ X 3/4 INCH PJ X 3/4 INCH PJ (38211) | \$26.11 | \$783.30 |
| 72 | 1.00 | ONLY | 0730 TEE, INLET RUN AND OUTLET BRANCH ARE TO BE OF PACK JOINT COMPRESSION TYPE | | |
| | | | FITTING WITH CLAMPING SET SCREW FORD #T444-344 3/4 INCH PJ X 3/4 INCH PJ X 1 INCH PJ (38212) | \$27.82 | \$27.82 |
| 73 | 105.00 | ONLY | 0740 TEE, INLET RUN AND OUTLET BRANCH ARE TO BE OF PACK JOINT COMPRESSION TYPE | | |
| | | | FITTING WITH CLAMPING SET SCREW FORD #T444-443 1 INCH PJ X 1 INCH PJ X 3/4 INCH PJ (38213) | \$28.69 | \$3,012.45 |
| 74 | 78.00 | ONLY | 0750 TEE, INLET RUN AND OUTLET BRANCH ARE TO BE OF PACK JOINT COMPRESSION TYPE | | |
| | | | FITTING WITH CLAMPING SET SCREW FORD #T444-444 1 INCH PJ X 1 INCH PJ X 1 INCH PJ (38214) | \$27.94 | \$2,179.32 |
| 75 | 1.00 | ONLY | 0760 TEE, INLET RUN AND OUTLET BRANCH ARE TO BE OF PACK JOINT COMPRESSION TYPE | | |
| | | | FITTING WITH CLAMPING SET SCREW FORD #T444-777 2 INCH PJ X 2 INCH PJ X 2 INCH PJ (38215) | \$152.07 | \$152.07 |
| 76 | 1.00 | ONLY | 0770 TEE, MULTI-SERVICE, TO HAVE AN INLET OF FEMALE IRON PIPE AND OUTLET OF SIX (6) FEMALE IRON PIPE; FORD #T11-674 | \$37.92 | \$37.92 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|--------------|
| 77 | 5,200.00 | ONLY | 1-2 INCH FIP (BOTTOM) X 6-1 INCH FIP (PERIMETER) 0780 VALVE, METER, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE METER NUT COUPLER, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #B43-332W 3/4 INCH X 5/8 INCH X 3/4 INCH PJ/MTR (38082) | \$37.53 | \$195,156.00 |
| 78 | 415.00 | ONLY | 0790 VALVE, METER, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE METER NUT COUPLER, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #B43-444W 1 INCH PJ/MTR (38092) | \$56.99 | \$23,650.85 |
| 79 | 210.00 | ONLY | 0800 VALVE, METER, BALL VALVE, TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF OVAL METER FLANGE, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS; FORD #BF43-777W 2 INCH PJ/MTR (38097) | \$173.46 | \$36,426.60 |
| 80 | 365.00 | ONLY | 0810 VALVE, METER, BALL VALVE, 90 DEGREES TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE METER NUT COUPLER, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #BA43-332W; 3/4 INCH X 5/8 INCH X 3/4 INCH PJ/MTR (38125) | \$42.53 | \$15,523.45 |
| 81 | 35.00 | ONLY | 0820 VALVE, METER, BALL VALVE, 90 DEGREES TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF FEMALE METER NUT COUPLER, TO HAVE LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #BA43-444W; 1 INCH PJ/MTR (38126) | \$65.37 | \$2,287.95 |
| 82 | 12.00 | ONLY | 0830 VALVE, METER, BALL VALVE, 90 DEGREES TO HAVE AN INLET OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW AND AN OUTLET OF OVAL METER | \$138.87 | \$1,666.44 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|-----------|------|---|-------------------|-------------|
| 83 | 100.00 | ONLY | FLANGE WITH A LARGE RAISED RECTANGULAR KEYWAY WITH PADLOCK WINGS FORD #FV43-777W; 2 INCH PJ/FLG (38127) | | |
| | | | 0840 WYE (X), TO HAVE AN INLET AND FOUR OUTLETS OF FEMALE IRON PIPE FORD #Y11-474 1-2 INCH FIP X 4-1 INCH FIP (38070) | \$43.55 | \$4,355.00 |
| 84 | 1.00 | ONLY | 0850 WYE (Y), TO HAVE TWO INLETS AND AN OUTLET OF MALE IRON PIPE; MUELLER #H-10070 2-3/4 INCH MIP X 1-1 INCH MIP | \$26.87 | \$26.87 |
| 85 | 2.00 | ONLY | 0860 WYE (Y), TO HAVE AN INLET AND TWO OUTLETS OF PACK JOINT COMPRESSION TYPE FITTING WITH CLAMPING SET SCREW FORD #Y44-243 1-1 INCH PJ X 2-3/4 INCH PJ | \$22.34 | \$44.68 |
| 86 | 1.00 | ONLY | 0870 GASKET, BLIND, FOR 3/4 INCH WATER METER, TO BE MADE OF VULCANIZED FIBER MATERIAL FOR USE ON POTABLE WATER 1-5/32 INCH O.D. X 1/16 INCH THICK (22075) | \$0.81 | \$0.81 |
| 87 | 1.00 | ONLY | 0880 GASKET, BLIND, FOR 1 INCH WATER METER, TO BE MADE OF VULCANIZED FIBER MATERIAL FOR USE ON POTABLE WATER 1-1/2 INCH O.D. X 1/16 INCH THICK (22095) | \$0.91 | \$0.91 |
| 88 | 5,000.00 | ONLY | 0890 GASKET, RING (FIBER), FOR 3/4 INCH WATER METER, TO BE MADE OF VULCANIZED FIBER MATERIAL FOR USE ON POTABLE WATER 1-5/32 INCH O.D. X 23/32 INCH I.D. X 1/6 INCH THICK (22070) | \$0.61 | \$3,050.00 |
| 89 | 1,700.00 | ONLY | 0900 GASKET, RING (FIBER), FOR 1 INCH WATER METER, TO BE MADE OF VULCANIZED FIBER MATERIAL FOR USE ON POTABLE WATER 1-1/2 INCH O.D. X 1 INCH I.D. X 1/16 INCH THICK (22090) | \$0.85 | \$1,445.00 |
| 90 | 21,000.00 | ONLY | 0910 GASKET, RING (METER COUPLING), FOR 3/4 INCH WATER METER, TO BE MADE OF | \$0.81 | \$17,010.00 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|------------|
| 91 | 1,500.00 | ONLY | NEOPRENE MATERIAL FOR USE ON POTABLE WATER; 1-5/32 INCH O.D. X 25/32 INCH I.D. X 1/8 INCH THICK (22080) | | |
| | | | 0920 GASKET, RING (METER COUPLING), FOR 1 INCH WATER METER, TO BE MADE OF NEOPRENE MATERIAL FOR USE ON POTABLE WATER; 1-1/2 INCH O.D. X 1 INCH I.D. X 1/8 INCH THICK (22100) | \$0.87 | \$1,305.00 |
| 92 | 1,200.00 | ONLY | 0930 GASKET, RING (YOKE BOX), FOR 3/4 INCH YOKE BOX EXPANSION CONNECTOR, TO BE MADE OF NEOPRENE MATERIAL FOR USE ON POTABLE WATER; FORD #GT 118 1-11/32 INCH O.D. X 26/32 INCH I.D. X 1/8 INCH THICK (22074) | \$0.20 | \$240.00 |
| 93 | 400.00 | ONLY | 0940 GASKET, DROP-IN FOR 2 INCH FLANGE (OVAL) WATER METER, TO BE MADE OF TWO-PLY NEOPRENE MATERIAL FOR USE ON POTABLE WATER; 3-15/16 INCH O.D. X 2-1/4 INCH I.D. X 1/8 INCH THICK WITH EARS TO SET ON TOP OF FLANGE BOLTS, TWO-PLY (38390) | \$1.67 | \$668.00 |
| 94 | 56.00 | ONLY | 0950 BUSHING, TO HAVE AN INLET OF MALE IRON PIPE THREAD AND AN OUTLET OF FEMALE IRON PIPE THREAD 1 INCH MIP X 3/4 INCH FIP (37114) | \$5.14 | \$287.84 |
| 95 | 1.00 | ONLY | 0960 BUSHING, TO HAVE AN INLET OF MALE IRON PIPE THREAD AND AN OUTLET OF FEMALE IRON PIPE THREAD 2 INCH MIP X 1 INCH FIP (37125) | \$15.36 | \$15.36 |
| 96 | 1.00 | ONLY | 0970 CAP, OF FEMALE IRON PIPE THREAD 3/4 INCH FIP (37154) | \$3.51 | \$3.51 |
| 97 | 1.00 | ONLY | 0980 CAP, OF FEMALE IRON PIPE THREAD 1 INCH FIP (37155) | \$6.37 | \$6.37 |
| 98 | 1.00 | ONLY | 0990 CAP, OF FEMALE IRON PIPE THREAD 2 INCH FIP (37158) | \$25.25 | \$25.25 |
| 99 | 2.00 | ONLY | 1000 COUPLING, OF FEMALE IRON PIPE THREAD; 3/4 INCH FIP (37206) | \$4.93 | \$9.86 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|---|-------------------|----------|
| 100 | 1.00 | ONLY | 1010 COUPLING, OF FEMALE IRON PIPE THREAD; 1 INCH FIP (37209) | | |
| | | | | \$8.40 | \$8.40 |
| 101 | 3.00 | ONLY | 1020 COUPLING, OF FEMALE IRON PIPE THREAD; 2 INCH FIP (37218) | | |
| | | | | \$30.17 | \$90.51 |
| 102 | 1.00 | ONLY | 1030 CROSS, OF FEMALE IRON PIPE THREAD 3/4 INCH FIP (37254) | | |
| | | | | \$14.68 | \$14.68 |
| 103 | 1.00 | ONLY | 1040 CROSS, OF FEMALE IRON PIPE THREAD 1 INCH FIP (37256) | | |
| | | | | \$24.24 | \$24.24 |
| 104 | 1.00 | ONLY | 1050 CROSS, OF FEMALE IRON PIPE THREAD 2 INCH FIP (37267) | | |
| | | | | \$96.93 | \$96.93 |
| 105 | 1.00 | ONLY | 1060 ELBOW, 45 DEGREE, OF FEMALE IRON PIPE THREAD; 3/4 INCH FIP (37304) | | |
| | | | | \$7.32 | \$7.32 |
| 106 | 1.00 | ONLY | 1070 ELBOW, 45 DEGREE, OF FEMALE IRON PIPE THREAD; 1 INCH FIP (37305) | | |
| | | | | \$12.49 | \$12.49 |
| 107 | 1.00 | ONLY | 1080 ELBOW, 45 DEGREE, OF FEMALE IRON PIPE THREAD; 2 INCH FIP (37308) | | |
| | | | | \$40.37 | \$40.37 |
| 108 | 1.00 | ONLY | 1090 ELBOW, 90 DEGREE, OF FEMALE IRON PIPE THREAD; 3/4 INCH FIP (37359) | | |
| | | | | \$5.61 | \$5.61 |
| 109 | 1.00 | ONLY | 1100 ELBOW, 90 DEGREE, OF FEMALE IRON PIPE THREAD; 1 INCH FIP (37363) | | |
| | | | | \$9.12 | \$9.12 |
| 110 | 18.00 | ONLY | 1110 ELBOW, 90 DEGREE, OF FEMALE IRON PIPE THREAD; 2 INCH FIP (37376) | | |
| | | | | \$29.45 | \$530.10 |
| 111 | 1.00 | ONLY | 1120 ELBOW, STREET, 45 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END | | |
| | | | | \$9.55 | \$9.55 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|---------|
| 112 | 1.00 | ONLY | 3/4 INCH FIP/MIP (37404) 1130 ELBOW, STREET, 45 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END 1 INCH FIP/MIP (37405) | \$16.15 | \$16.15 |
| 113 | 1.00 | ONLY | 1140 ELBOW, STREET, 45 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END 2 INCH FIP/MIP (37408) | \$58.01 | \$58.01 |
| 114 | 1.00 | ONLY | 1150 ELBOW, STREET, 90 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END 3/4 INCH FIP/MIP (37454) | \$7.72 | \$7.72 |
| 115 | 1.00 | ONLY | 1160 ELBOW, STREET, 90 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END 1 INCH FIP/MIP (37455) | \$12.63 | \$12.63 |
| 116 | 1.00 | ONLY | 1170 ELBOW, STREET, 90 DEGREE, TO HAVE FEMALE IRON PIPE THREAD ON ONE END, AND MALE IRON PIPE THREAD ON THE OTHER END 2 INCH FIP/MIP (37459) | \$42.80 | \$42.80 |
| 117 | 1.00 | ONLY | 1180 NIPPLE, ALL MALE IRON PIPE THREAD 3/4 INCH MIP X 1-1/2 INCH MIP (37580) | \$1.52 | \$1.52 |
| 118 | 1.00 | ONLY | 1190 NIPPLE, ALL MALE IRON PIPE THREAD 3/4 INCH MIP X 2 INCH MIP (37582) | \$1.80 | \$1.80 |
| 119 | 1.00 | ONLY | 1200 NIPPLE, ALL MALE IRON PIPE THREAD 3/4 INCH MIP X 3 INCH MIP (37584) | \$2.41 | \$2.41 |
| 120 | 1.00 | ONLY | 1210 NIPPLE, ALL MALE IRON PIPE THREAD 1 INCH MIP X CLOSE MIP (37600) | \$2.11 | \$2.11 |
| 121 | 2.00 | ONLY | 1220 NIPPLE, ALL MALE IRON PIPE THREAD 1 INCH MIP X 2 INCH MIP (37601) | \$2.17 | \$4.34 |
| 122 | 1.00 | ONLY | 1230 NIPPLE, ALL MALE IRON PIPE THREAD 1 INCH MIP X 4 INCH MIP (37605) | \$4.55 | \$4.55 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|---------|
| 123 | 1.00 | ONLY | 1240 NIPPLE, ALL MALE IRON PIPE THREAD 2 INCH MIP X CLOSE MIP (37660) | \$6.30 | \$6.30 |
| 124 | 1.00 | ONLY | 1250 NIPPLE, ALL MALE IRON PIPE THREAD 2 INCH MIP X 4 INCH MIP (37664) | \$10.27 | \$10.27 |
| 125 | 1.00 | ONLY | 1260 REDUCER, ALL FEMALE IRON PIPE THREAD; 1 INCH FIP X 3/4 INCH FIP | \$9.51 | \$9.51 |
| 126 | 1.00 | ONLY | 1270 REDUCER, ALL FEMALE IRON PIPE THREAD; 2 INCH FIP X 1 INCH FIP | \$42.25 | \$42.25 |
| 127 | 1.00 | ONLY | 1280 TEE, ALL FEMALE IRON PIPE THREAD 3/4 INCH FIP X 3/4 INCH FIP X 3/4 INCH FIP (37814) | \$7.00 | \$7.00 |
| 128 | 1.00 | ONLY | 1290 TEE, ALL FEMALE IRON PIPE THREAD 1 INCH FIP X 1 INCH FIP X 1 INCH FIP (37823) | \$12.63 | \$12.63 |
| 129 | 1.00 | ONLY | 1300 TEE, ALL FEMALE IRON PIPE THREAD 1 INCH FIP X 1 INCH FIP X 3/4 INCH FIP (37832) | \$19.91 | \$19.91 |
| 130 | 2.00 | ONLY | 1310 TEE, ALL FEMALE IRON PIPE THREAD 2 INCH FIP X 2 INCH FIP X 2 INCH FIP (37860) | \$40.70 | \$81.40 |
| 131 | 1.00 | ONLY | 1320 TEE, ALL FEMALE IRON PIPE THREAD 2 INCH FIP X 2 INCH FIP X 3/4 INCH FIP (37870) | \$63.55 | \$63.55 |
| 132 | 1.00 | ONLY | 1330 TEE, ALL FEMALE IRON PIPE THREAD 2 INCH FIP X 2 INCH FIP X 1 INCH FIP (37871) | \$63.55 | \$63.55 |
| 133 | 1.00 | ONLY | 1340 UNION, ALL FEMALE IRON PIPE THREAD; 3/4 INCH FIP (37904) | \$17.11 | \$17.11 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00119963

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|----------|
| 134 | 1.00 | ONLY | 1350 UNION, ALL FEMALE IRON PIPE THREAD; 1 INCH FIP (37905) | | |
| | | | | \$25.81 | \$25.81 |
| 135 | 1.00 | ONLY | 1360 UNION, ALL FEMALE IRON PIPE THREAD; 2 INCH FIP (37908) | | |
| | | | | \$59.92 | \$59.92 |
| 136 | 1.00 | ONLY | 1370 TEE, 2 INCH PACK JOINT X 2 INCH PACK JOINT X 3/4 INCH FEMALE IRON PIPE THREAD (38100) | | |
| | | | | \$79.82 | \$79.82 |
| 137 | 5.00 | ONLY | 1380 TEE, 2 INCH PACK JOINT X 2 INCH PACK JOINT X 3/4 INCH CC (38101) | | |
| | | | | \$77.45 | \$387.25 |

CORPORATE RESOLUTION

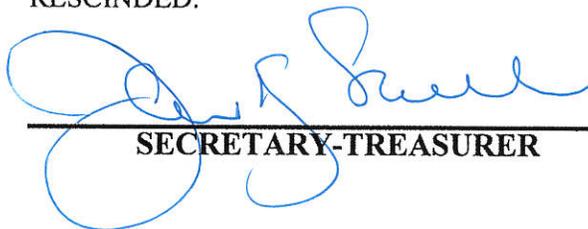
EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
A.Y. McDonald Industries

INCORPORATED.

AT THE MEETING OF DIRECTORS OF A.Y. McDonald Industries
INCORPORATED, DULY NOTICED AND HELD ON April 20, 2017,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT John K. Schmidt, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.



SECRETARY-TREASURER

June 26, 2017

DATE

Non-Public Works Bid

AFFIDAVIT

STATE OF IOWA

PARISH/COUNTY OF DUBUQUE

BEFORE ME, the undersigned authority, personally came and appeared: _____

Robert D. McDonald II, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized President & CEO of A.Y. McDonald Mfg. Co. (Entity), the party who submitted a bid in response to Bid Number 50-00119963 , to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Signature of Affiant

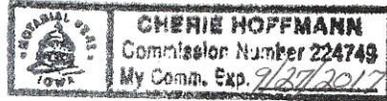
Robert D. McDonald II

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 28th DAY OF June, 2017.

Cherie Hoffmann
Notary Public



Cherie Hoffmann
Printed Name of Notary

224749
Notary/Bar Roll Number

My commission expires 9/27/2017.

STANDARD INSURANCE REQUIREMENTS – PUBLICLY ADVERTISED BIDS

All required insurance under this bid shall conform to Jefferson Parish Resolution No. 113646 or No. 113647, as applicable. Contractors may not commence any work under any ensuing contract unless and until all required insurance and associated evidentiary requirements thereto have been met, along with any additional specifications contained in the advertised bid. Except as where otherwise precluded by law, the Parish Attorney or his designee, with the concurrence of the Director of Risk Management or his designee, may agree on a case-by-case basis, to deviate from Jefferson Parish’s standard insurance requirements, as provided in this Section. Vendors requesting deviation therefrom shall submit such requests in writing, along with compelling substantiation, to the Purchasing Department prior to the bid’s due date. Any changes to the insurance requirements will be reflected in the bid specifications and addenda. Prior to contract execution and at all times thereafter during the term of such contract, contractors must provide and continuously maintain all coverages as required by the foregoing Resolutions, and the contract documents. Failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

For bidding purposes, bidders must submit with bid submission a current (valid) insurance certificate evidencing the required coverages. Failure to comply will cause bid to be rejected. The current insurance certificate will be used for proof of insurance at time of evaluation. Thereafter, and prior to contract execution, the low bidder will be required to provide final insurance certificates to the Parish which shall name **the Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council** as additional insureds regarding negligence by the contractor for the Commercial General Liability, Workmen’s Compensation Insurance and the Comprehensive Automobile Liability policies. Additionally, said certificates should reflect the name of the Parish Department receiving goods and services and reference the respective Jefferson Parish bid number.

JEFFERSON PARISH REQUIRED STANDARD INSURANCE

WORKER’S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker’s Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

Note: If your company is not required by law to carry workmen’s compensation insurance, i.e. not a Louisiana company, sole employee of the company, then bidders must request a workmen’s compensation insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

COMMERCIAL GENERAL LIABILITY

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

Note: This category may be omitted if bidders do not/will not utilize company vehicles for the project or do not possess company vehicles. Bidder must request an automobile insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

DEDUCTIBLES

No insurance required shall include a deductible not greater than \$10,000.00. The cost of the deductible shall be borne by the contractor.

NOTE: If the vendor requires a change in deductibles, the request must be submitted in writing to the Purchasing Department prior to the due date of the bid. Such request shall be reviewed by the Parish Attorney's Office with the concurrence of the Director of Risk Management.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

FOR CONSTRUCTION AND RENOVATION PROJECTS:

The following are required unless otherwise specified in the bid. Such insurance is due upon contract execution.

1) **OWNER'S PROTECTIVE LIABILITY**

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

2) **BUILDER'S RISK INSURANCE**

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

| Line No. | Manufacturer Model No. & Part Description | Manufacturer Product Brand | Qty Per Unit | Req'd Units (Qty) | List Price | Bid Price | Extended Price |
|----------|--|----------------------------|--------------|-------------------|------------|-----------|----------------|
| 1 | 74754-22 3/4 CPLNG CTSXFIP-NL | AY McDonald | 1 | 35 | \$25.76 | \$9.31 | \$325.85 |
| 2 | 74754-22 1 CPLNG CTS X FIP-NL | AY McDonald | 1 | 1 | \$34.95 | \$12.73 | \$12.73 |
| 3 | 74754-22 2 CPLNG CTS X FIP-NL | AY McDonald | 1 | 4 | \$121.04 | \$43.78 | \$175.12 |
| 4 | 74753-22 3/4 CPLNG CTSXMIIP-NL | AY McDonald | 1 | 350 | \$24.50 | \$8.86 | \$3,101.00 |
| 5 | 74753-22 1 CPLG-CTS X MIP-NL | AY McDonald | 1 | 100 | \$29.02 | \$10.50 | \$1,050.00 |
| 6 | 74753-22 2 CPLNG CTS X MIP-NL | AY McDonald | 1 | 260 | \$115.81 | \$41.88 | \$10,888.80 |
| 7 | 747011 1X3/4 AWWAXAWWA BUSH-NL | AY McDonald | 1 | 100 | \$20.61 | \$8.80 | \$880.00 |
| 8 | 747011 2X3/4 AWWAXAWWA BUSH-NL | AY McDonald | 1 | 1 | \$89.00 | \$39.61 | \$39.61 |
| 9 | 747011 2X1 AWWA X AWWA BUSH-NL | AY McDonald | 1 | 1 | \$91.02 | \$40.51 | \$40.51 |
| 10 | 747014 3/4X1/2 AWWAXNPT BSH-NL | AY McDonald | 1 | 1 | \$15.78 | \$7.17 | \$7.17 |
| 11 | 747014 1X3/4 AWWAXNPT BUSH-NL | AY McDonald | 1 | 1 | \$20.97 | \$9.34 | \$9.34 |
| 12 | 747014 2X1 BUSHING - AWWA X FNPT - NL | AY McDonald | 1 | 1 | \$91.02 | \$40.50 | \$40.50 |
| 13 | 747014 2X1 1/4 AWWA X NPT BUSH | AY McDonald | 1 | 1 | \$88.14 | \$39.22 | \$39.22 |
| 14 | 714-2EHG YK EXPNDR-3/4 MTR-NL | AY McDonald | 1 | 925 | \$32.78 | \$11.85 | \$10,961.25 |
| 15 | 74701B-22 3/4 BCRP AWWAXCTS-NL | AY McDonald | 1 | 1250 | \$79.04 | \$27.05 | \$33,812.50 |
| 16 | 74701B-22 1 BCRP AWWA-CTS-NL | AY McDonald | 1 | 600 | \$103.95 | \$35.57 | \$21,342.00 |
| 17 | 74701B-22FT 2 CORP AWWAX-22-NL | AY McDonald | 1 | 290 | \$385.40 | \$131.81 | \$38,224.90 |
| 18 | 73148B 3/4 BCRP AWWA X FIP-NL | AY McDonald | 1 | 1 | \$64.92 | \$23.48 | \$23.48 |
| 19 | 73148B 1 B CORP AWWA X FIP-NL | AY McDonald | 1 | 1 | \$87.58 | \$31.67 | \$31.67 |
| 20 | 73148B 2 BALL CORP AWWAXFIP-NL | AY McDonald | 1 | 2 | \$364.65 | \$131.89 | \$263.78 |
| 21 | 74704B-22 3/4 B CRP MIPXCTS-NL | AY McDonald | 1 | 36 | \$79.04 | \$28.60 | \$1,029.60 |
| 22 | 74704B-22 1 BCRP MIP X CTS-NL | AY McDonald | 1 | 180 | \$103.95 | \$37.61 | \$6,769.80 |
| 23 | 74704B-22FT 2 CORP-MIP X-22-NL | AY McDonald | 1 | 10 | \$385.40 | \$139.38 | \$1,393.80 |
| 24 | 74637 3/4 CONN3/4MTRX3/4FIP-NL | AY McDonald | 1 | 1 | \$23.33 | \$8.43 | \$8.43 |
| 25 | 74637 1 CONN-1 MTR X 1 FIP-NL | AY McDonald | 1 | 1 | \$33.62 | \$12.15 | \$12.15 |
| 26 | 74637 2X2 METER COUPLING METER X FNPT-NL | AY McDonald | 1 | 1 | \$127.33 | \$50.93 | \$50.93 |
| 27 | 74620 3/4 ST METER CPLG - NL | AY McDonald | 1 | 510 | \$15.90 | \$5.76 | \$2,937.60 |
| 28 | 74620 1 ST MTR CPLG-W/HOLE-NL | AY McDonald | 1 | 50 | \$24.50 | \$8.86 | \$443.00 |
| 29 | 74620 2 METER CPLG W/HOLE- NL | AY McDonald | 1 | 1 | \$94.52 | \$36.55 | \$36.55 |
| 30 | 7610F 2 MTR FLANGE X FIP-NL | AY McDonald | 1 | 1 | \$92.48 | \$33.44 | \$33.44 |
| 31 | 7610M 2X2 1/8 MTRFLNG X MIP-NL | AY McDonald | 1 | 340 | \$102.05 | \$33.61 | \$11,427.40 |
| 32 | 74638-22 3/4 CONN-MTR X-22 -NL | AY McDonald | 1 | 3800 | \$30.51 | \$11.04 | \$41,952.00 |
| 33 | 74638-22 1 CONN-MTR SWVL X -22 | AY McDonald | 1 | 1200 | \$41.13 | \$14.86 | \$17,832.00 |
| 34 | 74638-22 2X2 METER COUPLING METER X CTS-NL | AY McDonald | 1 | 1 | \$155.73 | \$56.54 | \$56.54 |
| 35 | 7610-22 2 COUPLING FLANGE X CTS-NL | AY McDonald | 1 | 1 | \$156.30 | \$56.54 | \$56.54 |
| 36 | 74758-22 3/4 CPLNG CTSXCTS-NL | AY McDonald | 1 | 5800 | \$29.83 | \$10.54 | \$61,132.00 |
| 37 | 74758-22 1 CPLG-CTS X CTS-NL | AY McDonald | 1 | 1090 | \$34.13 | \$12.35 | \$13,461.50 |
| 38 | 74758-22 2 COUPLNG CTSXCTS-NL | AY McDonald | 1 | 180 | \$154.19 | \$55.76 | \$10,036.80 |
| 39 | 74758-22 3/4X1 CPG CTSXCTS-NL | AY McDonald | 1 | 750 | \$34.66 | \$12.54 | \$9,405.00 |
| 40 | 74758-22-55 3/4 COUPLING-NL | AY McDonald | 1 | 225 | \$33.03 | \$11.94 | \$2,686.50 |
| 41 | 74758-22-55 1 COUPLING - NL | AY McDonald | 1 | 138 | \$44.31 | \$16.03 | \$2,212.14 |
| 42 | 74758-22-55 2 THREE PRT UN-NL | AY McDonald | 1 | 24 | \$160.49 | \$58.06 | \$1,393.44 |
| 43 | 76101W 3/4 B VALVE-FIPXIP-NL | AY McDonald | 1 | 1 | \$87.54 | \$31.66 | \$31.66 |
| 44 | 76101W 1 BALL VALV FIPXIP-NL | AY McDonald | 1 | 1 | \$134.16 | \$48.52 | \$48.52 |
| 45 | 76101W 2 BALL VLV FIP XFIP-NL | AY McDonald | 1 | 1 | \$395.23 | \$142.81 | \$142.81 |
| 46 | 76100W-22 3/4 BALL VALVE-NL | AY McDonald | 1 | 3700 | \$111.71 | \$37.05 | \$137,085.00 |
| 47 | 76100W-22 1 BALL VALVE NL | AY McDonald | 1 | 820 | \$166.17 | \$56.26 | \$46,133.20 |
| 48 | 76100W-22 2 BALL VALVE - NL | AY McDonald | 1 | 1 | \$551.07 | \$199.19 | \$199.19 |
| 49 | 76102W-22 3/4 BVLV CTSXFIP-NL | AY McDonald | 1 | 1 | \$98.43 | \$35.61 | \$35.61 |
| 50 | 76102W-22 1 BVAL CTS X FIP- NL | AY McDonald | 1 | 1 | \$149.35 | \$54.01 | \$54.01 |
| 51 | 76102W-22 2 BV CTS X FIP - NL | AY McDonald | 1 | 1 | \$445.73 | \$161.07 | \$161.07 |
| 52 | 74761-22 3/4 QTR BEND - NL | AY McDonald | 1 | 1440 | \$38.53 | \$13.95 | \$20,088.00 |
| 53 | 74761-22 1 QUARTER BEND - NL | AY McDonald | 1 | 314 | \$49.57 | \$17.91 | \$5,623.74 |
| 54 | 74761-22 2 QTR BEND - CTS-NL | AY McDonald | 1 | 145 | \$321.79 | \$116.37 | \$16,873.65 |
| 55 | 74779-22 3/4 QUARTER BEND-NL | AY McDonald | 1 | 1 | \$34.77 | \$12.57 | \$12.57 |
| 56 | 74779-22 1 QUARTER BEND - NL | AY McDonald | 1 | 2 | \$56.67 | \$20.50 | \$41.00 |
| 57 | 74779M-22 3/4 QTR BEND-NL | AY McDonald | 1 | 1 | \$26.82 | \$9.71 | \$9.71 |
| 58 | 74779M-22 1 QTR BEND CONN-NL | AY McDonald | 1 | 2 | \$44.64 | \$16.14 | \$32.28 |
| 59 | 74632 3/4 METER QTR BEND CONN | AY McDonald | 1 | 2 | \$27.60 | \$9.95 | \$19.90 |
| 60 | 74632 1 QTR BEND SWV X FIP- NL | AY McDonald | 1 | 1 | \$40.60 | \$14.64 | \$14.64 |
| 61 | 74621 3/4 QTR BND MTR CPLG-NL | AY McDonald | 1 | 1 | \$23.37 | \$8.46 | \$8.46 |
| 62 | 74621 1 QTR BEND MTR CPLG- NL | AY McDonald | 1 | 1 | \$33.40 | \$12.07 | \$12.07 |
| 63 | 74783S-22 3/4 QBND -22X3/4M-NL | AY McDonald | 1 | 1000 | \$34.67 | \$12.43 | \$12,430.00 |
| 64 | 74783S-22 1 QTR BND-22 X 1 MTR | AY McDonald | 1 | 182 | \$54.89 | \$19.81 | \$3,605.42 |
| 65 | 4700-22 3/4 MAC PAK ASSEMBLY | AY McDonald | 1 | 1 | \$7.20 | \$3.13 | \$3.13 |
| 66 | 4700-22 1 MAC PAK ASSEMBLY | AY McDonald | 1 | 1 | \$11.05 | \$4.82 | \$4.82 |
| 67 | 4700-22-12 2 CTS MAC-PAK NUT & GSKT ASSY-12P | AY McDonald | 1 | 1 | \$32.79 | \$14.29 | \$14.29 |
| 68 | 73206 3/4 PLUG AWWA-NL | AY McDonald | 1 | 1 | \$12.57 | \$5.25 | \$5.25 |
| 69 | 73206 1 PLUG AWWA - NL | AY McDonald | 1 | 80 | \$18.29 | \$7.64 | \$611.20 |
| 70 | 73206 2 PLUG AWWA- NL | AY McDonald | 1 | 1 | \$53.18 | \$22.22 | \$22.22 |
| 71 | 74760-22 3/4 TEE - CTS- NL | AY McDonald | 1 | 30 | \$72.23 | \$26.11 | \$783.30 |
| 72 | 74760-22 3/4X1 TEE-CTS-NL | AY McDonald | 1 | 1 | \$76.93 | \$27.82 | \$27.82 |

Bid No. 5000119963

| Line No. | Manufacturer Model No. & Part Description | Manufacturer Product Brand | Qty Per Unit | Req'd Units (Qty) | List Price | Bid Price | Extended Price |
|----------|---|----------------------------|--------------|-------------------|------------|-----------|----------------|
| 73 | 74760-22 1X3/4 TEE - CTS-NL | AY McDonald | 1 | 105 | \$79.32 | \$28.69 | \$3,012.45 |
| 74 | 74760-22 1 TEE - CTS - NL | AY McDonald | 1 | 78 | \$77.23 | \$27.94 | \$2,179.32 |
| 75 | 74760-22 2 TEE-CTSXSCTS-NL | AY McDonald | 1 | 1 | \$420.46 | \$152.07 | \$152.07 |
| 76 | 74765-6 2X1 TEE FIP X SIX (6) FIP | AY McDonald | 1 | 1 | \$103.00 | \$37.92 | \$37.92 |
| 77 | 76100MW-22 3/4 BALL VALVE CTS X METER - NL | AY McDonald | 1 | 5200 | \$112.70 | \$37.53 | \$195,156.00 |
| 78 | 76100MW-22 1 BALL VALVE - NL | AY McDonald | 1 | 415 | \$166.54 | \$56.99 | \$23,650.85 |
| 79 | 76100MW-22 2 FLANGED BVLVE- NL | AY McDonald | 1 | 210 | \$504.53 | \$173.46 | \$36,426.60 |
| 80 | 74602B-22 3/4 ANG BALL STOP-NL | AY McDonald | 1 | 365 | \$124.02 | \$42.53 | \$15,523.45 |
| 81 | 74602B-22 1 BALL ANGLE ST -NL | AY McDonald | 1 | 35 | \$186.11 | \$65.37 | \$2,287.95 |
| 82 | 74602B-22 2 FLANGED ABV LW-NL | AY McDonald | 1 | 12 | \$544.97 | \$138.87 | \$1,666.44 |
| 83 | 74765 2X1 MULTI-SERVICE Y - NL | AY McDonald | 1 | 100 | \$120.39 | \$43.55 | \$4,355.00 |
| 84 | 708Y2NM 1X3/4 MIP X MIP Y-BRANCH - NL | AY McDonald | 1 | 1 | \$112.67 | \$26.87 | \$26.87 |
| 85 | 708YS22 1X3/4 Y-BRANCH - NL | AY McDonald | 1 | 2 | \$61.75 | \$22.34 | \$44.68 |
| 86 | 18-G2VF METER GASKET 3/4 - .06 THICK VULCANIZED FIBER | AY McDonald | 1 | 1 | \$1.36 | \$0.81 | \$0.81 |
| 87 | 18-G4VF METER GASKET 1 - .06 THICK VULCANIZED FIBER | AY McDonald | 1 | 1 | \$1.90 | \$0.91 | \$0.91 |
| 88 | 18-G2VF METER GASKET 3/4 - .06 THICK VULCANIZED FIBER | AY McDonald | 1 | 5000 | \$1.36 | \$0.61 | \$3,050.00 |
| 89 | 18-G4VF METER GASKET 1 - .06 THICK VULCANIZED FIBER | AY McDonald | 1 | 1700 | \$1.90 | \$0.85 | \$1,445.00 |
| 90 | 18-G2N NEOPRENE METER GASKET 3/4 - .13 THICK RUBBER | AY McDonald | 1 | 21000 | \$0.41 | \$0.81 | \$17,010.00 |
| 91 | 18-G4N NEOPRENE METER GASKET 1 - .13 THICK RUBBER | AY McDonald | 1 | 1500 | \$0.44 | \$0.87 | \$1,305.00 |
| 92 | 14-2GN NEOPRENE YOKE STAR NUT GASKET-3/4 METER | AY McDonald | 1 | 1200 | \$0.45 | \$0.20 | \$240.00 |
| 93 | 18-G7N NEOPRENE FLANGE METER GASKET - .13 RUBBER | AY McDonald | 1 | 400 | \$4.11 | \$1.67 | \$668.00 |
| 94 | 72206D 1X3/4 HEX REDUCING BUSHING DOMESTIC -NL | AY McDonald | 1 | 56 | \$40.29 | \$5.14 | \$287.84 |
| 95 | 72206D 2X1 HEX REDUCING BUSHING DOMESTIC -NL | AY McDonald | 1 | 1 | \$120.50 | \$15.36 | \$15.36 |
| 96 | 72201D 3/4 CAP DOMESTIC -NL | AY McDonald | 1 | 1 | \$27.52 | \$3.51 | \$3.51 |
| 97 | 72201D 1 CAP DOMESTIC -NL | AY McDonald | 1 | 1 | \$49.93 | \$6.37 | \$6.37 |
| 98 | 72201D 2 CAP DOMESTIC -NL | AY McDonald | 1 | 1 | \$198.05 | \$25.25 | \$25.25 |
| 99 | 72210D 3/4 COUPLING DOMESTIC -NL | AY McDonald | 1 | 2 | \$38.64 | \$4.93 | \$9.86 |
| 100 | 72210D 1 COUPLING DOMESTIC -NL | AY McDonald | 1 | 1 | \$65.91 | \$8.40 | \$8.40 |
| 101 | 72210D 2 COUPLING DOMESTIC -NL | AY McDonald | 1 | 3 | \$236.60 | \$30.17 | \$90.51 |
| 102 | 72240D 3/4 CROSS-NL | AY McDonald | 1 | 1 | \$115.17 | \$14.68 | \$14.68 |
| 103 | 72240D 1 CROSS-NL | AY McDonald | 1 | 1 | \$190.13 | \$24.24 | \$24.24 |
| 104 | 72240D 2 CROSS-NL | AY McDonald | 1 | 1 | \$760.25 | \$96.93 | \$96.93 |
| 105 | 72245D 3/4 ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$57.42 | \$7.32 | \$7.32 |
| 106 | 72245D 1 ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$97.94 | \$12.49 | \$12.49 |
| 107 | 72245D 2 ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$316.66 | \$40.37 | \$40.37 |
| 108 | 72290D 3/4 ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$43.99 | \$5.61 | \$5.61 |
| 109 | 72290D 1 ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$71.55 | \$9.12 | \$9.12 |
| 110 | 72290D 2 ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 18 | \$230.96 | \$29.45 | \$530.10 |
| 111 | 72246D 3/4 STREET ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$74.92 | \$9.55 | \$9.55 |
| 112 | 72246D 1 STREET ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$126.64 | \$16.15 | \$16.15 |
| 113 | 72246D 2 STREET ELBOW 45 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$454.95 | \$58.01 | \$58.01 |
| 114 | 72291D 3/4 STREET ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$60.55 | \$7.72 | \$7.72 |
| 115 | 72291D 1 STREET ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$99.08 | \$12.63 | \$12.63 |
| 116 | 72291D 2 STREET ELBOW 90 DEG DOMESTIC -NL | AY McDonald | 1 | 1 | \$335.65 | \$42.80 | \$42.80 |
| 117 | 2200D 3/4X1 1/2 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 1 | \$36.28 | \$1.52 | \$1.52 |
| 118 | 2200D 3/4X2 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 1 | \$42.87 | \$1.80 | \$1.80 |
| 119 | 2200D 3/4X3 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 1 | \$57.34 | \$2.41 | \$2.41 |
| 120 | 2200D 1 PIPE NIPPLE CLOSE DOMESTIC | AY McDonald | 1 | 1 | \$50.19 | \$2.11 | \$2.11 |
| 121 | 2200D 1X2 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 2 | \$51.60 | \$2.17 | \$4.34 |
| 122 | 2200D 1X4 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 1 | \$108.33 | \$4.55 | \$4.55 |
| 123 | 2200D 2 PIPE NIPPLE CLOSE DOMESTIC | AY McDonald | 1 | 1 | \$149.94 | \$6.30 | \$6.30 |
| 124 | 2200D 2X4 PIPE NIPPLE DOMESTIC | AY McDonald | 1 | 1 | \$244.47 | \$10.27 | \$10.27 |
| 125 | 72210D 1X3/4 REDUCING COUPLING DOMESTIC -NL | AY McDonald | 1 | 1 | \$74.62 | \$9.51 | \$9.51 |
| 126 | 72210D 2X1 COUPLING DOMESTIC -NL | AY McDonald | 1 | 1 | \$331.38 | \$42.25 | \$42.25 |
| 127 | 72230D 3/4 TEE DOMESTIC -NL | AY McDonald | 1 | 1 | \$54.91 | \$7.00 | \$7.00 |
| 128 | 72230D 1 TEE DOMESTIC -NL | AY McDonald | 1 | 1 | \$99.08 | \$12.63 | \$12.63 |
| 129 | 72230D 1X3/4 REDUCING TEE DOMESTIC -NL | AY McDonald | 1 | 1 | \$156.19 | \$19.91 | \$19.91 |
| 130 | 72230D 2 TEE DOMESTIC -NL | AY McDonald | 1 | 2 | \$319.18 | \$40.70 | \$81.40 |
| 131 | 72230D 2x3/4 REDUCING TEE DOMESTIC -NL | AY McDonald | 1 | 1 | \$498.41 | \$63.55 | \$63.55 |
| 132 | 72230D 2x1 REDUCING TEE DOMESTIC -NL | AY McDonald | 1 | 1 | \$498.41 | \$63.55 | \$63.55 |
| 133 | 72220D 3/4 UNION DOMESTIC -NL | AY McDonald | 1 | 1 | \$134.23 | \$17.11 | \$17.11 |
| 134 | 72220D 1 UNION DOMESTIC -NL | AY McDonald | 1 | 1 | \$202.40 | \$25.81 | \$25.81 |
| 135 | 72220D 2 UNION DOMESTIC -NL | AY McDonald | 1 | 1 | \$469.99 | \$59.92 | \$59.92 |
| 136 | 74764-22 2X3/4 TEE CTS X CTS X FNPT - NL | AY McDonald | 1 | 1 | \$193.42 | \$79.82 | \$79.82 |
| 137 | 74764-22-CC 2X3/4 TEE CTS X CTS X CC - NL | AY McDonald | 1 | 5 | \$193.42 | \$77.45 | \$387.25 |



A.Y. McDonald Mfg. Co.

TRUSTED QUALITY ♦ DEPENDABLE SERVICE ♦ SINCE 1856

Water Works Brass Plumbing Valves and Fittings Pumps and Water Systems Distribution Gas Valves/Meter Bars
Mailing Address P.O. BOX 508 ♦ DUBUQUE, IA 52004-0508 Shipping Address 4800 CHAVENELLE ROAD ♦ DUBUQUE, IA 52002
PHONE 800/292-2737 ♦ FAX 800/832-9296 ♦ sales@aymcdonald.com ♦ www.aymcdonald.com

Certificate of Material Quality

No Lead Brass product manufactured after January 1, 2010 and marked "NL"

I hereby certify that all No Lead Brass material used to manufacture A.Y. McDonald Mfg. Co. Valves and Fittings meet the requirements of AWWA C800-05. The wetted brass material meets the requirements for Copper Alloy C89833 per ASTM B584-10. The A.Y. McDonald model numbers starting with the number "7" meet the no lead requirements. The elements underlined are the primary elements of the specification.

CHEMICAL REQUIREMENTS

| | | | |
|-----------------------------|------|---|--------|
| <u>Copper</u> | 86.0 | - | 91.0 % |
| <u>Tin</u> | 4.0 | - | 6.0 % |
| <u>Zinc</u> | 2.0 | - | 6.0 % |
| <u>Bismuth</u> | 1.7 | - | 2.7 % |
| <u>Nickel</u> (Inc. Cobalt) | 0.0 | - | 1.0 % |
| Iron | 0.0 | - | 0.3 % |
| Antimony | 0.0 | - | 0.25 % |
| <u>Lead</u> | 0.0 | - | 0.09 % |
| Sulfur | 0.0 | - | 0.08 % |
| Phosphorous | 0.0 | - | 0.05% |

PHYSICAL REQUIREMENTS

| | | |
|---------------------|--------------|----------------|
| Tensile Strength | 30,000 (207) | Min. PSI (MPa) |
| Yield Strength | 14,000 (97) | Min. PSI (MPa) |
| Elongation in 2 in. | 16 | Min. Percent |

A.Y. McDonald has received ANSI/NSF 61-8 (2005) and the weighted average lead content of the wetted surfaces of not more than 0.25% certifications from an ANSI accredited independent test lab. Product Certification sheets are available by request. This material also complies with the National Safe Drinking Act Section 1417 (42 U.S.C 300g-6).

For ball valves and fittings, the o-rings, port seals that seal against the ball and the compression gaskets used to seal against the pipe are made from EPDM rubber unless otherwise stated on submittal sheets. The plug style valves use a nitrile rubber o-ring.

I further certify that the above items are machined and assembled at A.Y. McDonald Mfg. Co. facilities in the United States and are designed for use on underground and aboveground cold potable water systems not exceeding the pressures called out in the AWWA C800 Standard unless otherwise stated by A.Y. McDonald Mfg. Co.

Friday, June 23, 2017.

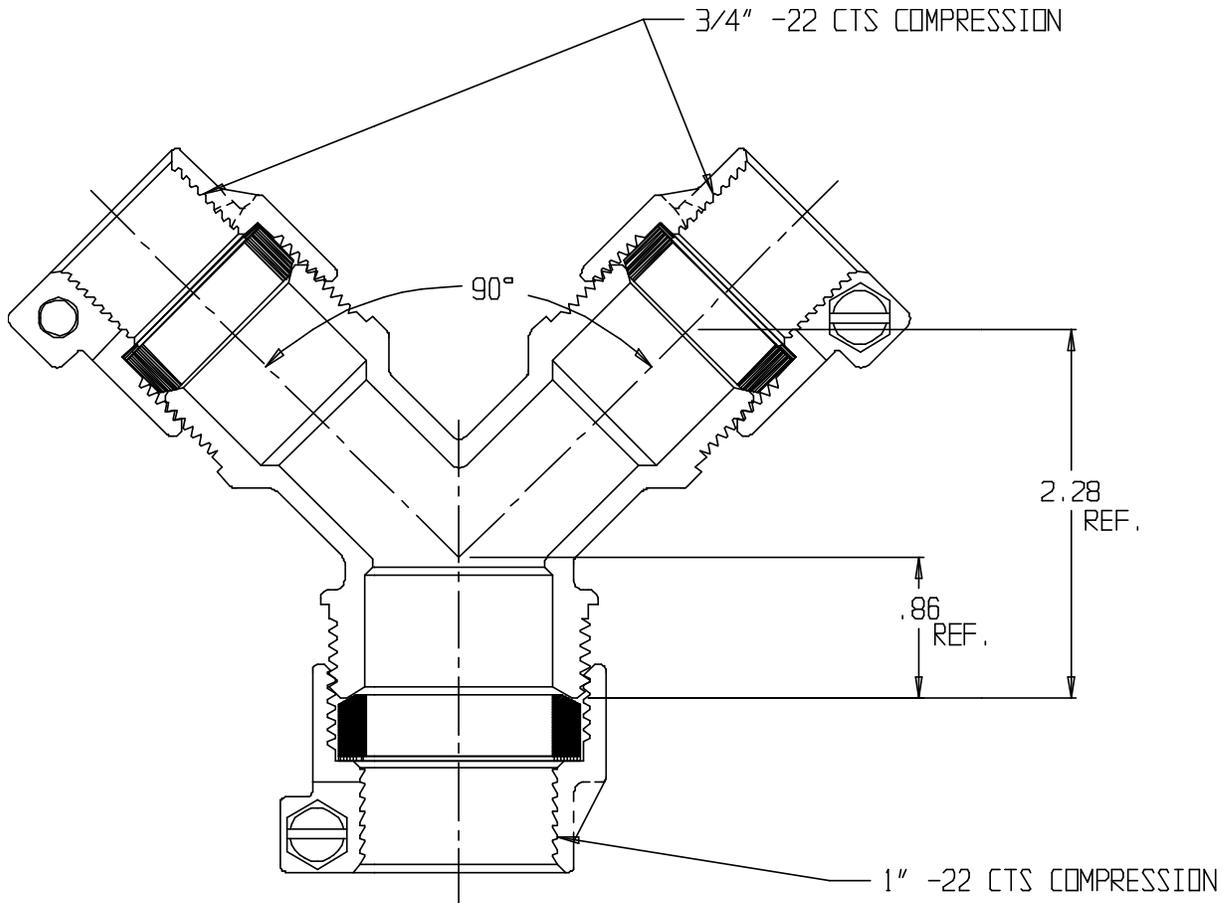
Andy Shea
Director of Quality Assurance
A.Y. McDonald Manufacturing Co.

***TECHNICAL
LITERATURE***

SUBMITTAL DATA SHEET

NL Service Fitting – 708YS22 1 x 3/4

-22 CTS Compression x -22 CTS Compression



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation
- Insert stiffeners required on all flexible plastic connections



A.Y. McDonald Mfg. Co.
P.O. Box 508
Dubuque, IA 52004-508

Toll Free: 1-800-292-2737
Fax: 1-800-832-9296
Hours: 7:00 a.m. – 5:00 p.m., CST

sales@aymcdonald.com
www.aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

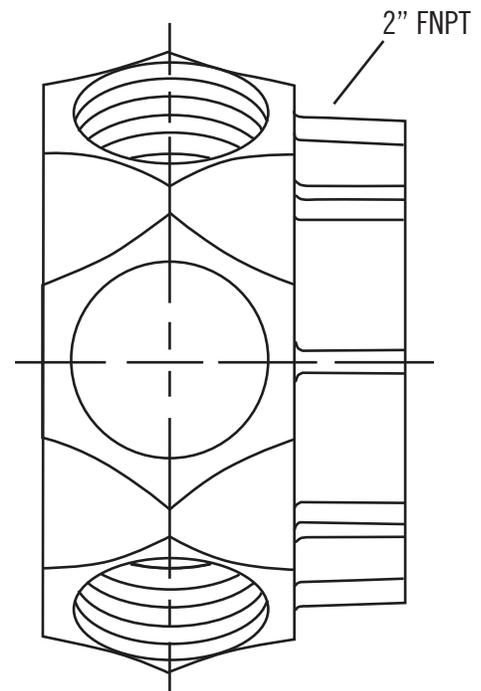
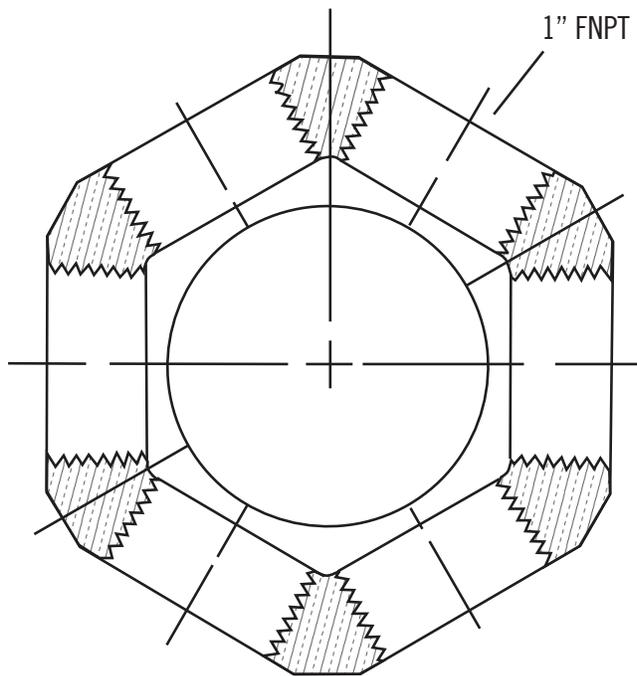
Submitted by:

09-14

SUBMITTAL DATA SHEET

NL Service Fitting - 74765-6 2x1

FNPT x FNPT



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C900 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provide for proper installation



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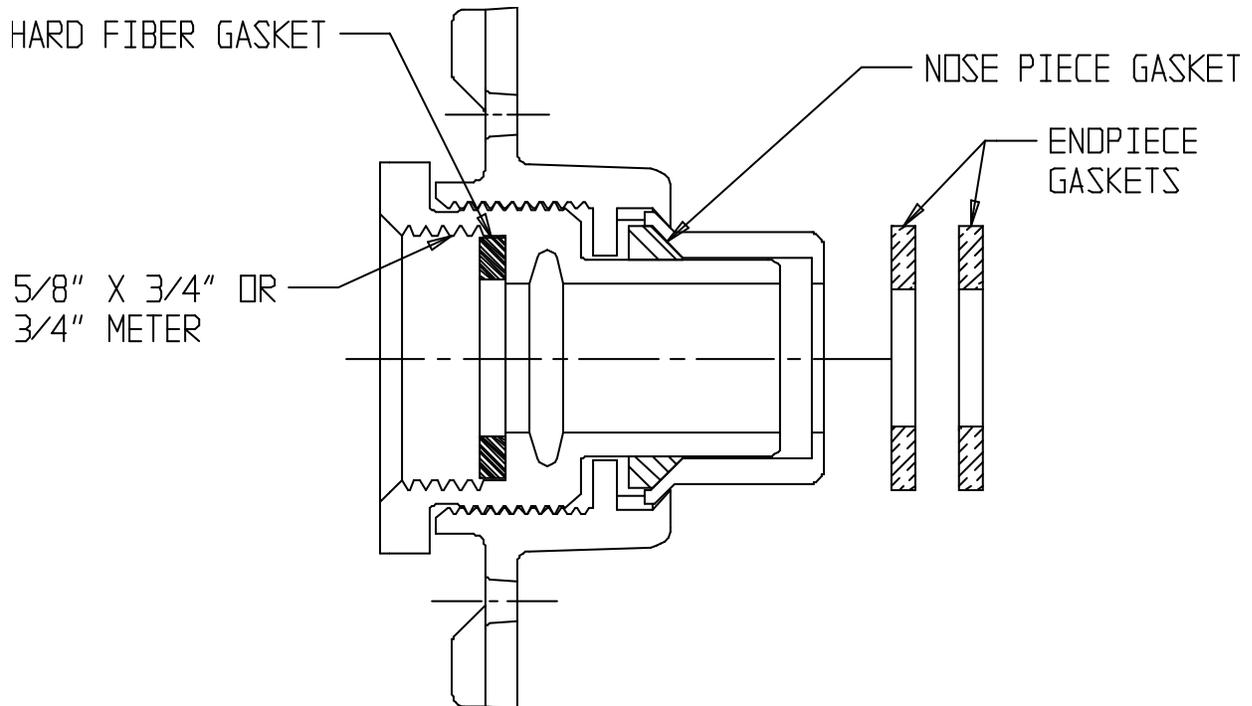
A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

SUBMITTAL DATA SHEET

NL Iron Meter Yoke Expander – 714-2EHG

Expander



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation



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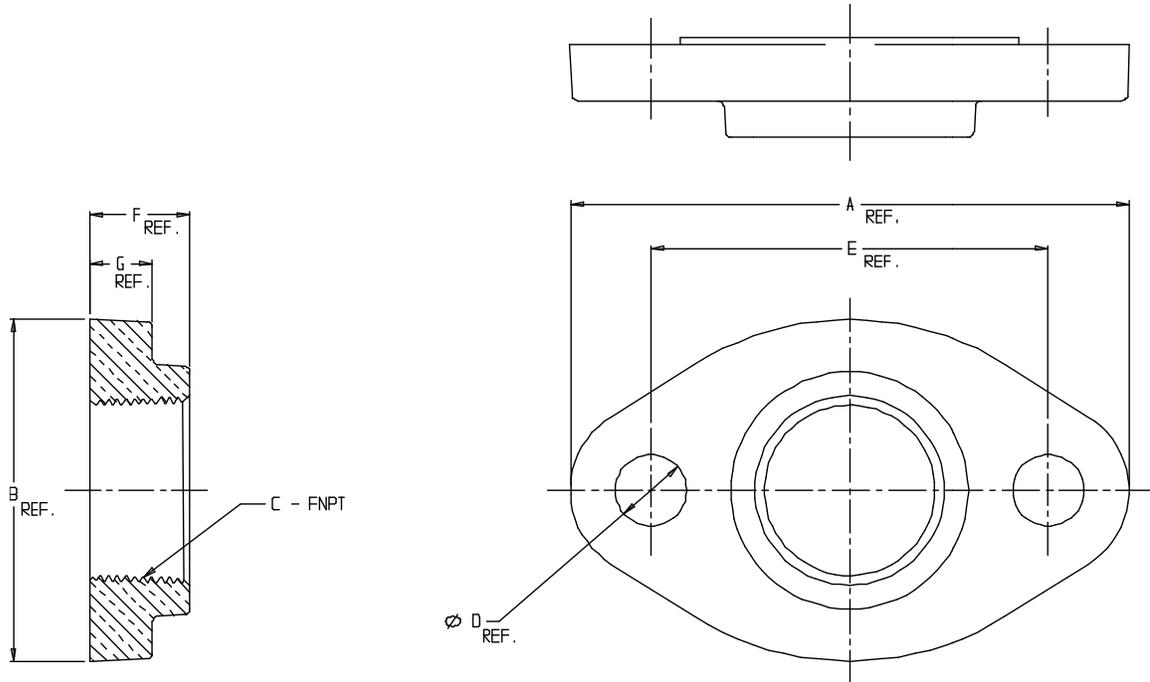
Submitted by:

09-14

SUBMITTAL DATA SHEET

NL Meter Coupling – 7610F

Oval Flange x FNPT



| MODEL | SIZE | A | B | C | D | E | F | G |
|-------|-------------|------|------|-------|-----|------|------|-----|
| 7610F | 1 1/2 X 1 | 5.62 | 3.44 | 1 | .72 | 4.00 | 1.05 | .48 |
| 7610F | 1 1/2 | 5.62 | 3.44 | 1 1/2 | .72 | 4.00 | 1.00 | .63 |
| 7610F | 1 1/2 X .81 | 5.62 | 3.44 | 1 1/2 | .81 | 4.00 | 1.00 | .63 |
| 7610F | 2 | 6.00 | 3.88 | 2 | .81 | 4.50 | 1.20 | .81 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with “NL”
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation



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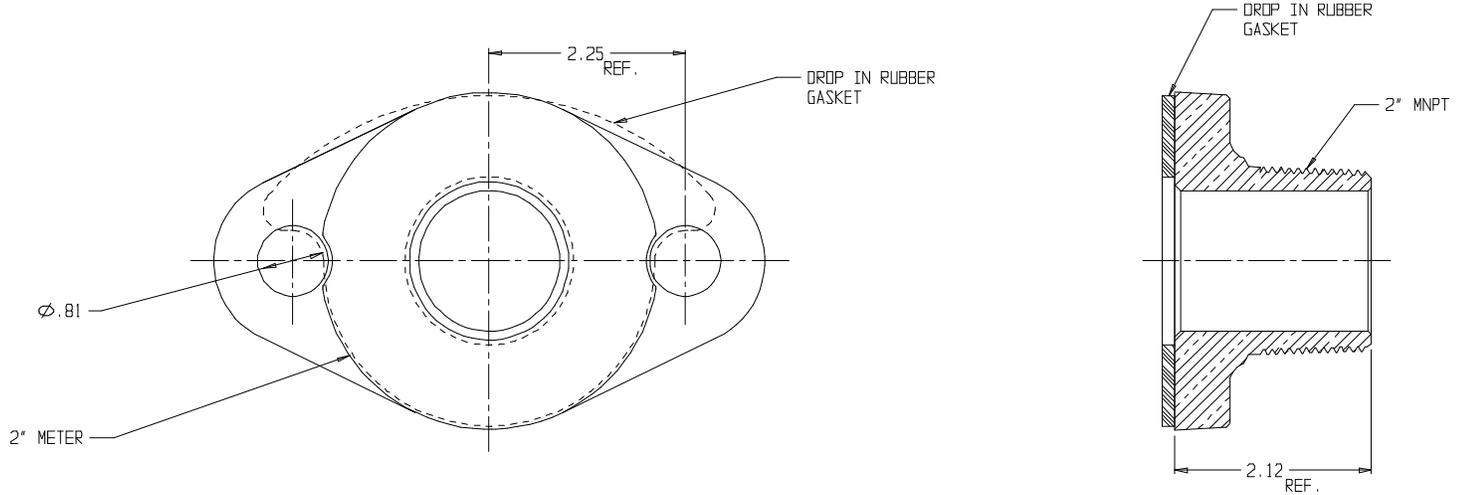
A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

SUBMITTAL DATA SHEET

NL Meter Coupling – 7610M 2 x 2 1/8

Oval Flange x MNPT



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation



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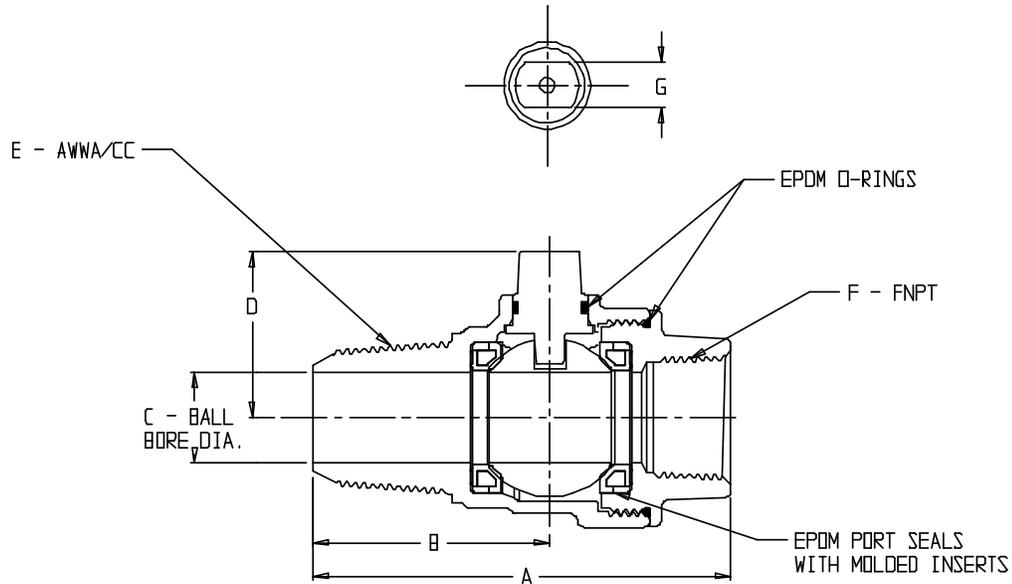
Submitted by:

09-14

SUBMITTAL DATA SHEET

NL Ball Style Corporation Stop – 73148B

AWWA/CC x FNPT



| MODEL | SIZE | A | B | C | D | E | F | G |
|--------|-----------|------|------|------|------|-------|-------|-----|
| 73148B | 3/4 | 3.46 | 1.96 | .75 | 1.39 | 3/4 | 3/4 | .38 |
| 73148B | 1 | 3.87 | 2.11 | 1.00 | 1.50 | 1 | 1 | .28 |
| 73148B | 1 1/4 | 4.97 | 3.02 | 1.25 | 1.88 | 1 1/4 | 1 1/4 | .42 |
| 73148B | 1 1/2 | 5.24 | 3.05 | 1.50 | 2.15 | 1 1/2 | 1 1/2 | .42 |
| 73148B | 1 1/2 X 2 | 7.15 | 3.05 | 1.50 | 2.15 | 1 1/2 | 2 | .42 |
| 73148B | 2 | 5.70 | 3.21 | 2.00 | 2.46 | 2 | 2 | .42 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball rotates 360°
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker



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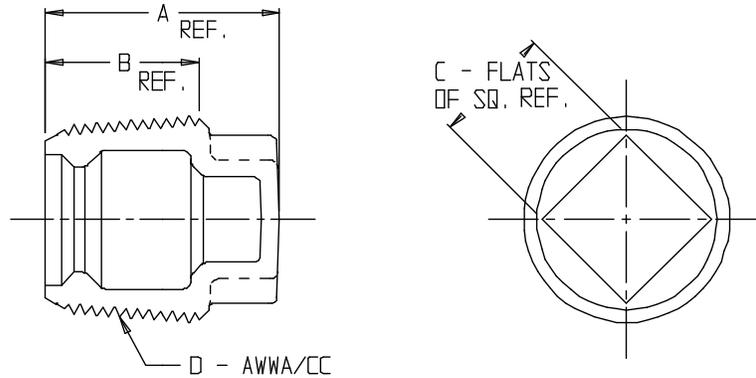
A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 73206

AWWA/CC



| MODEL | SIZE | A | B | C | D |
|-------|-------|------|------|------|----------------|
| 73206 | 1/2 | 1.40 | 1.03 | .56 | 1/2 - 14 |
| 73206 | 5/8 | 1.62 | 1.08 | .63 | 5/8 - 14 |
| 73206 | 3/4 | 1.62 | 1.02 | .63 | 3/4 - 14 |
| 73206 | 1 | 1.69 | 1.11 | .86 | 1 - 12 |
| 73206 | 1 1/4 | 1.94 | 1.36 | .94 | 1 1/4 - 11 1/2 |
| 73206 | 1 1/2 | 2.00 | 1.50 | 1.06 | 1 1/2 - 11 1/2 |
| 73206 | 2 | 2.00 | 1.50 | 1.13 | 2 - 11 1/2 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with “NL”
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation



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Submitted by:

SUBMITTAL DATA SHEET

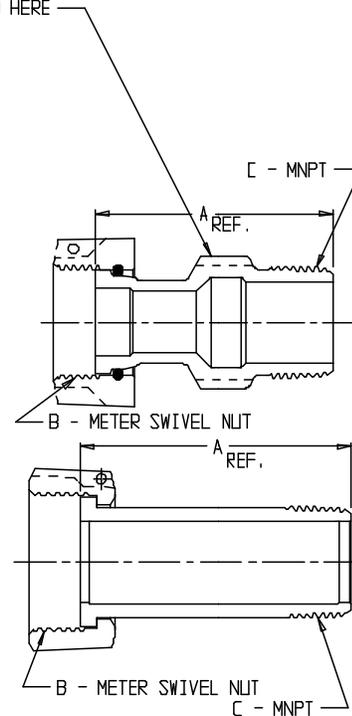
NL Meter Coupling - 74620

Meter Swivel Nut With Wire Seal Hole x MNPT



*NOTE: USE RETAINING RING AS PICTURED HERE

| MODEL | SIZE | A | B | C |
|--------|----------------------|-------|----------------|-------|
| 74620 | 5/8 X 1/2 X 2.38 | 2.38 | 5/8 | 1/2 |
| 74620* | 5/8 X 3/4 X 2.19 | 2.19 | 5/8 | 3/4 |
| 74620 | 3/4 X 3/4 X 2.50 | 2.50 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 1/2 X 2.38 | 2.38 | 5/8 X 3/4, 3/4 | 1/2 |
| 74620* | 3/4 X 1 X 2.50 | 2.50 | 5/8 X 3/4, 3/4 | 1 |
| 74620 | 3/4 X 3/4 X 2.00 | 2.00 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 2.25 | 2.25 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 2.75 | 2.75 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 3.00 | 3.00 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 3.28 | 3.28 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 3.50 | 3.00 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 3/4 X 3/4 X 8.50 | 8.50 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620* | 3/4 X 3/4 X 12.00 | 12.00 | 5/8 X 3/4, 3/4 | 3/4 |
| 74620 | 1 X 3/4 X 1.75 | 1.75 | 1 | 3/4 |
| 74620 | 1 X 1 X 2.63 | 2.63 | 1 | 1 |
| 74620 | 1 X 1 X 3.00 | 3.00 | 1 | 1 |
| 74620 | 1 X 1 X 3.35 | 3.35 | 1 | 1 |
| 74620 | 1 X 1 X 3.50 | 3.50 | 1 | 1 |
| 74620 | 1 X 1 X 8.50 | 8.50 | 1 | 1 |
| 74620 | 1 X 1 X 12.00 | 12.00 | 1 | 1 |
| 74620 | 1 1/2 X 1 1/2 X 2.84 | 2.84 | 1 1/2 | 1 1/2 |
| 74620 | 2 X 2 X 3.00 | 3.00 | 2 | 2 |



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation



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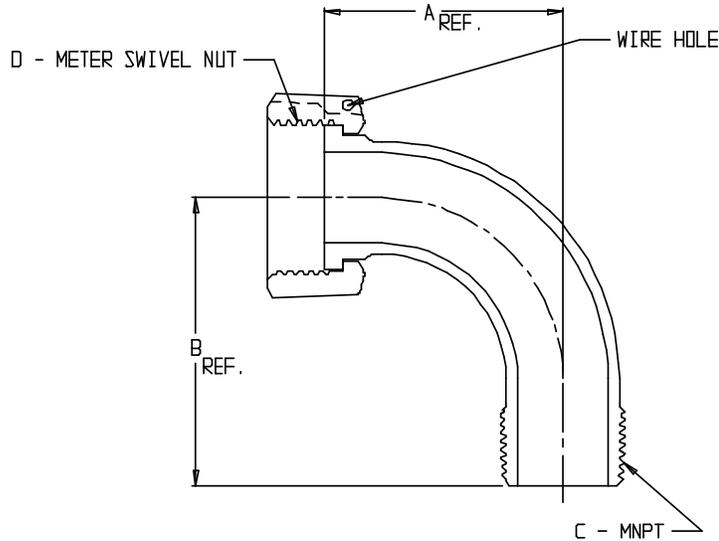
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Submitted by:

SUBMITTAL DATA SHEET

NL Meter Coupling - 74621

Meter Swivel Nut With Wire Seal Hole x MNPT



| MODEL | SIZE | A | B | C | D |
|----------|-----------|------|------|-----|----------------|
| 74621 | 5/8 X 1/2 | 2.00 | 2.91 | 1/2 | 5/8 |
| 74621 | 3/4 X 1/2 | 2.00 | 2.91 | 1/2 | 5/8 X 3/4, 3/4 |
| 74621 | 3/4 X 3/4 | 1.97 | 2.38 | 3/4 | 5/8 X 3/4, 3/4 |
| 74621DAL | 3/4 X 3/4 | 2.06 | 2.79 | 3/4 | 5/8 X 3/4, 3/4 |
| 74621 | 1 X 1 | 2.38 | 2.69 | 1 | 1 |
| 74621DAL | 1 X 1 | 2.38 | 2.69 | 1 | 1 |

SUBMITTAL INFORMATION

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- Large wrench area provided for proper installation



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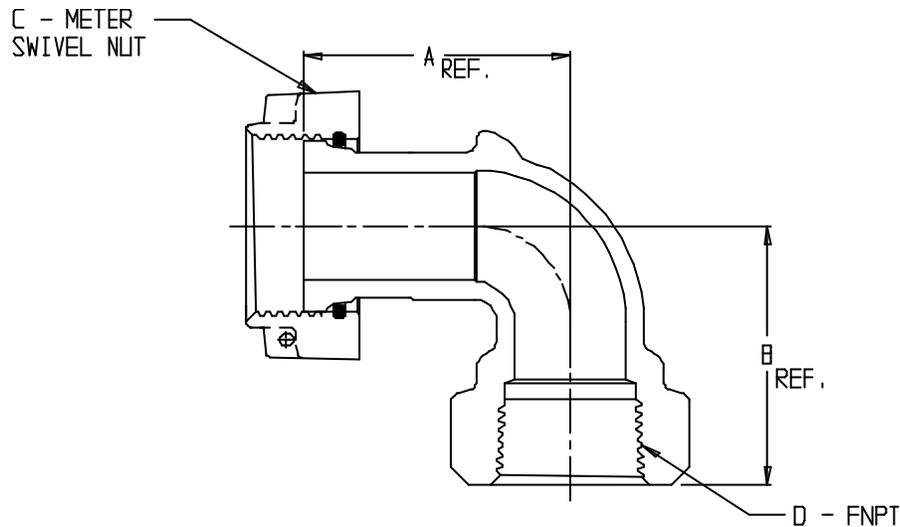
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Submitted by:

SUBMITTAL DATA SHEET

NL Meter Coupling - 74632

Meter Swivel Nut x FNPT



| MODEL | SIZE | A | B | C | D |
|-------|-----------|------|------|----------------|-----|
| 74632 | 5/8 X 3/4 | 2.01 | 2.11 | 5/8 | 3/4 |
| 74632 | 3/4 X 3/4 | 1.87 | 1.81 | 5/8 X 3/4, 3/4 | 3/4 |
| 74632 | 3/4 X 1 | 2.20 | 1.94 | 5/8 X 3/4, 3/4 | 1 |
| 74632 | 1 X 1 | 1.85 | 2.30 | 1 | 1 |

SUBMITTAL INFORMATION

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- Large wrench area provided for proper installation



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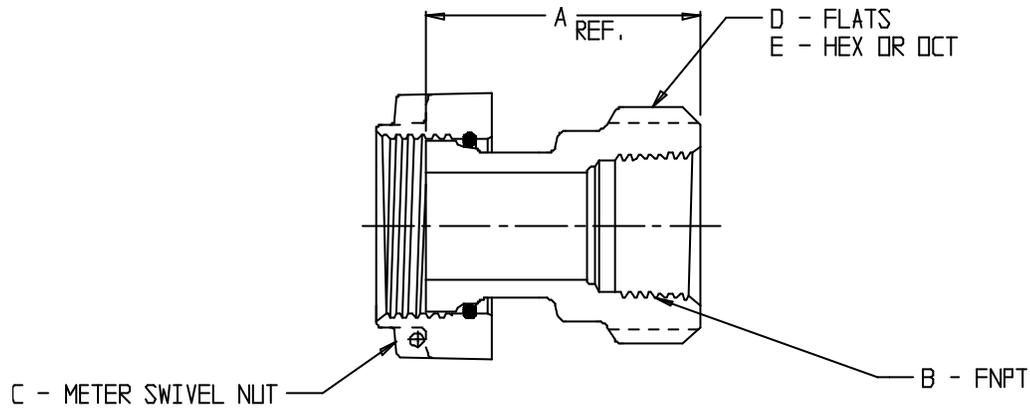
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SUBMITTAL DATA SHEET

NL Meter Coupling – 74637

Meter Swivel Nut x FNPT



| MODEL | SIZE | A | B | C | D | E |
|-------|-----------|------|-------|----------------|------|-----|
| 74637 | 3/4 X 3/4 | 1.92 | 3/4 | 5/8 X 3/4, 3/4 | 1.44 | HEX |
| 74637 | 3/4 X 1 | 2.12 | 1 | 5/8 X 3/4, 3/4 | 1.36 | OCT |
| 74637 | 1 X 1 | 1.75 | 1 | 1 | 1.60 | OCT |
| 74637 | 1 X 1 1/4 | 2.62 | 1 1/4 | 1 | 1.85 | OCT |

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Submitted by:

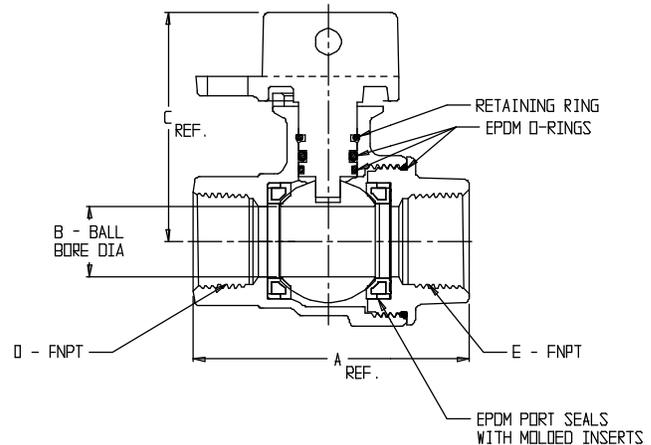
SUBMITTAL DATA SHEET

NL Ball Style Curb Stop – 76101W

FNPT x FNPT



| MODEL | SIZE | A | B | C | D | E |
|--------|------------------------|------|------|------|-------|-------|
| 76101W | 1/2 X 5/8 X 1/2 | 2.88 | .63 | 2.31 | 1/2 | 1/2 |
| 76101W | 3/4 X 5/8 X 3/4 | 2.81 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 2.94 | 2.94 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 3.19 | 3.19 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 3.38 | 3.38 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 3.50 | 3.50 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 3.75 | 3.75 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 X 5/8 X 3/4 X 3.94 | 3.94 | .63 | 2.31 | 3/4 | 3/4 |
| 76101W | 3/4 | 2.94 | .75 | 2.39 | 3/4 | 3/4 |
| 76101W | 3/4 X 3.44 | 3.44 | .75 | 2.44 | 3/4 | 3/4 |
| 76101W | 3/4 X 3.75 | 3.75 | .75 | 2.44 | 3/4 | 3/4 |
| 76101W | 1 X 3/4 X 3/4 | 3.09 | .75 | 2.39 | 1 | 3/4 |
| 76101W | 1 X 3/4 X 1 | 3.32 | .75 | 2.39 | 1 | 1 |
| 76101W | 1 | 3.47 | 1.00 | 2.65 | 1 | 1 |
| 76101W | 1 X 3.75 | 3.75 | 1.00 | 2.65 | 1 | 1 |
| 76101W | 1 X 3.81 | 3.81 | 1.00 | 2.65 | 1 | 1 |
| 76101W | 1 X 4.50 | 4.50 | 1.00 | 2.65 | 1 | 1 |
| 76101W | 1 1/4 X 1 X 1 | 3.61 | 1.00 | 2.65 | 1 1/4 | 1 |
| 76101W | 1 1/4 X 1 X 1 1/4 | 4.31 | 1.00 | 2.65 | 1 1/4 | 1 1/4 |
| 76101W | 1 1/4 | 4.94 | 1.25 | 2.94 | 1 1/4 | 1 1/4 |
| 76101W | 1 1/2 | 4.29 | 1.50 | 3.38 | 1 1/2 | 1 1/2 |
| 76101W | 2 | 5.07 | 2.00 | 3.67 | 2 | 2 |
| 76101W | 2 1/2 X 2 X 2 1/2 | 8.85 | 2.00 | 3.71 | 2 1/2 | 2 1/2 |



SUBMITTAL INFORMATION

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- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with “NL”
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker



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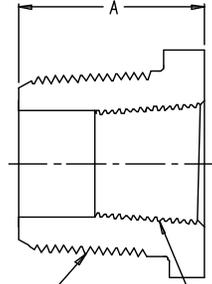
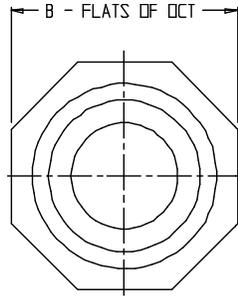
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Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 747011

AWWA/CC x FAWWA/CC



C - AWWA/CC SIZE

D - FAWWA/CC SIZE

| MODEL | SIZE | A | B | C | D |
|--------|-------------|------|------|-------|-------|
| 747011 | 3/4 X 1/2 | 1.58 | 1.63 | 3/4 | 1/2 |
| 747011 | 1 X 3/4 | 1.66 | 1.63 | 1 | 3/4 |
| 747011 | 1 1/4 X 3/4 | 1.84 | 2.25 | 1 1/4 | 3/4 |
| 747011 | 1 1/4 X 1 | 1.84 | 2.25 | 1 1/4 | 1 |
| 747011 | 1 1/2 X 3/4 | 1.97 | 2.25 | 1 1/2 | 3/4 |
| 747011 | 1 1/2 X 1 | 1.97 | 2.25 | 1 1/2 | 1 |
| 747011 | 2 X 3/4 | 2.09 | 2.75 | 2 | 3/4 |
| 747011 | 2 X 1 | 2.09 | 2.75 | 2 | 1 |
| 747011 | 2 X 1 1/4 | 2.09 | 2.75 | 2 | 1 1/4 |
| 747011 | 2 X 1 1/2 | 2.09 | 2.75 | 2 | 1 1/2 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with “NL”
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation



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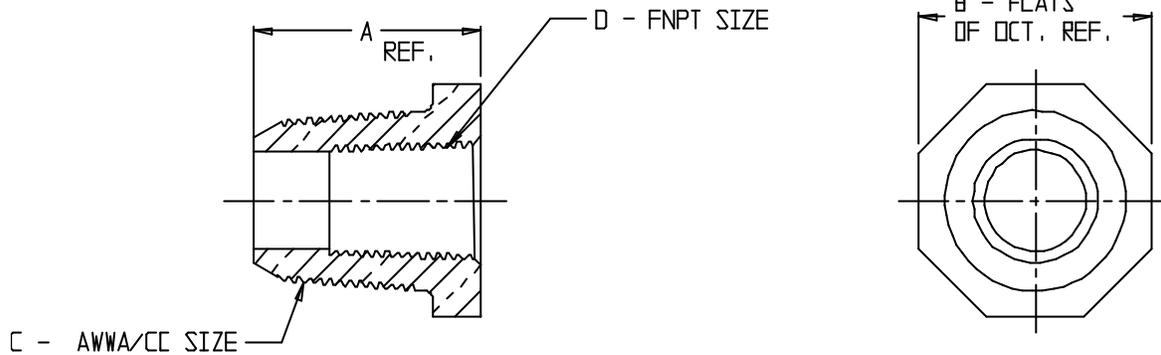
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Corporation Stop – 747014

AWWA/CC x FNPT



| MODEL | SIZE | A | B | C | D |
|--------|---------------|------|------|-------|-------|
| 747014 | 3/4 X 1/2 | 1.58 | 1.63 | 3/4 | 1/2 |
| 747014 | 1 X 3/4 | 1.66 | 1.63 | 1 | 3/4 |
| 747014 | 1 1/2 X 1 1/4 | 1.97 | 2.75 | 1 1/2 | 1 1/4 |
| 747014 | 2 X 1 | 2.09 | 2.75 | 2 | 1 |
| 747014 | 2 X 1 1/4 | 2.09 | 2.75 | 2 | 1 1/4 |
| 747014 | 2 X 1 1/2 | 2.09 | 2.75 | 2 | 1 1/2 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Rated for 300 PSIG water pressure



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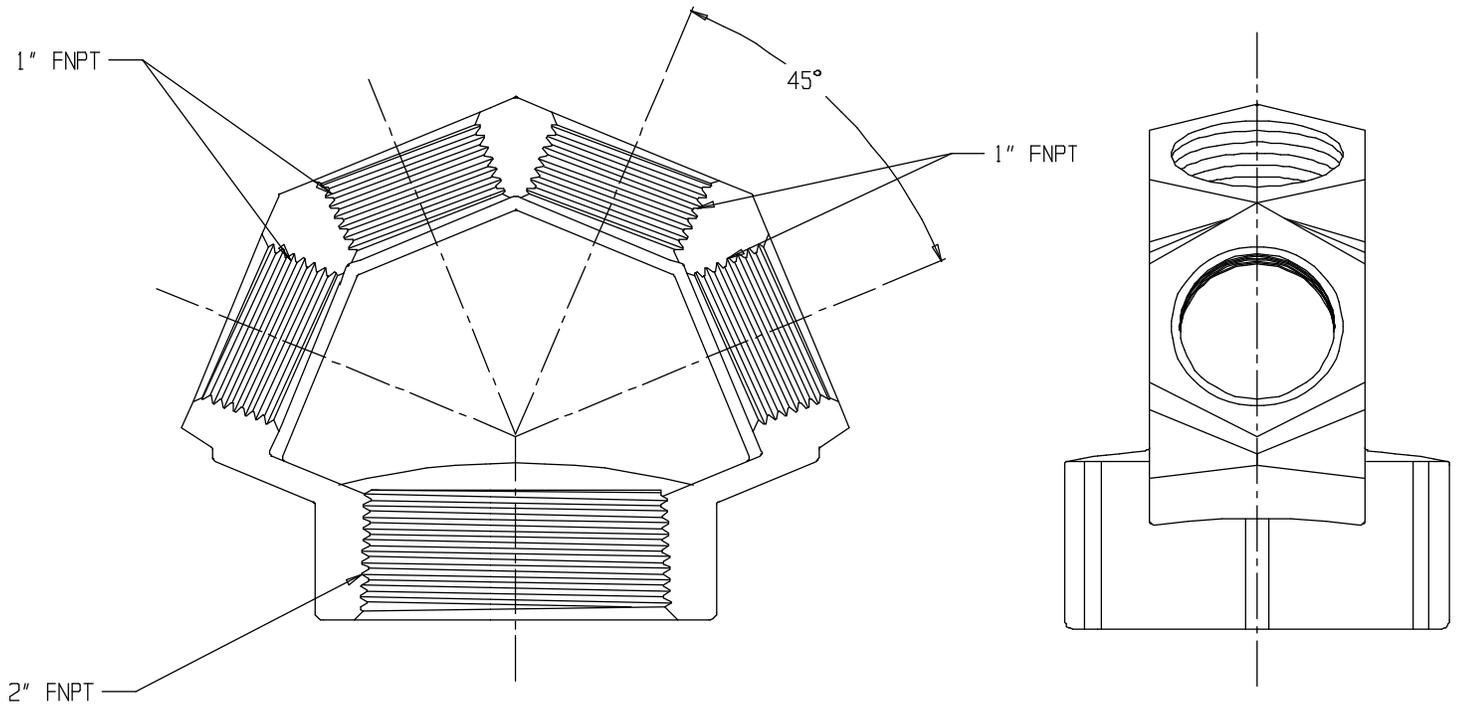
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Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 74765 2 x 1

FNPT x FNPT



SUBMITTAL INFORMATION

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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation



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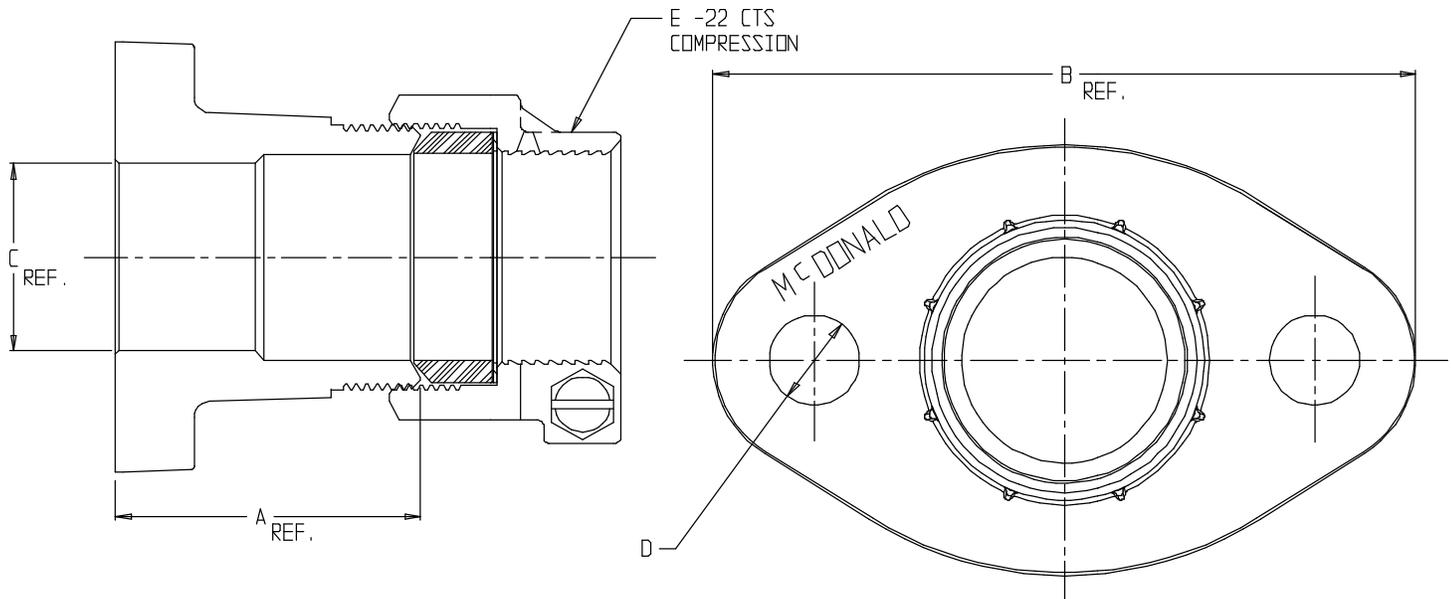
Submitted by:

09-14

SUBMITTAL DATA SHEET

NL Meter Coupling - 7610-22

Oval Flange x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E |
|---------|-------|------|------|------|-----|-------|
| 7610-22 | 1 1/2 | 2.44 | 5.62 | 1.50 | .72 | 1 1/2 |
| 7610-22 | 2 | 2.60 | 6.00 | 2.00 | .81 | 2 |

SUBMITTAL INFORMATION

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- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation
- Insert stiffeners required on all flexible plastic connections



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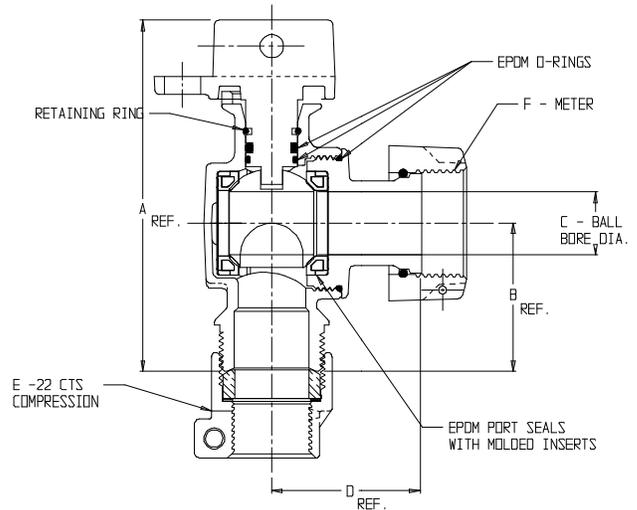
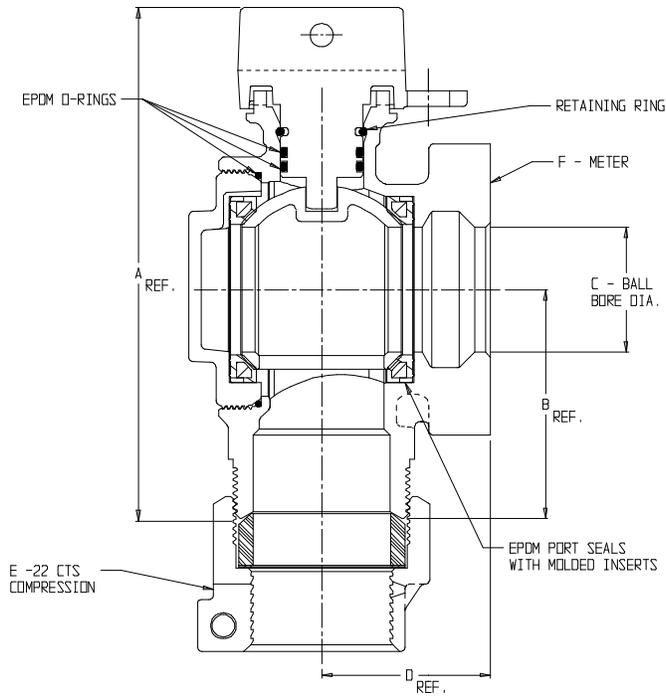
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Meter Stop – 74602B-22

-22 CTS Compression x Meter



| MODEL | SIZE | A | B | C | D | E | F |
|----------|-------|------|------|------|------|-------|------------|
| 4602B-22 | 1 1/2 | 6.14 | 2.75 | 1.50 | 2.03 | 1 1/2 | 1 1/2 |
| 4602B-22 | 2 | 6.92 | 3.22 | 2.00 | 2.84 | 2 | 1 1/2 DR 2 |

| MODEL | SIZE | A | B | C | D | E | F |
|----------|-------------------|------|------|------|------|-------|----------------|
| 4602B-22 | 3/4 X 3/4 X 5/8 | 4.20 | 1.78 | .75 | 1.94 | 3/4 | 5/8 |
| 4602B-22 | 1 X 3/4 X 5/8 | 4.64 | 2.21 | .75 | 1.94 | 1 | 5/8 |
| 4602B-22 | 3/4 | 4.22 | 1.78 | .75 | 1.78 | 3/4 | 5/8 X 3/4, 3/4 |
| 4602B-22 | 1 X 3/4 X 3/4 | 4.65 | 2.21 | .75 | 1.78 | 1 | 5/8 X 3/4, 3/4 |
| 4602B-22 | 1 1/4 X 3/4 X 3/4 | 4.99 | 2.54 | .75 | 1.78 | 1 1/4 | 5/8 X 3/4, 3/4 |
| 4602B-22 | 1 | 5.03 | 2.25 | 1.00 | 2.71 | 1 | 1 |
| 4602B-22 | 1 1/4 X 1 X 1 | 5.15 | 2.50 | 1.00 | 2.45 | 1 1/4 | 1 |

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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker
- Insert stiffeners required on all flexible connections



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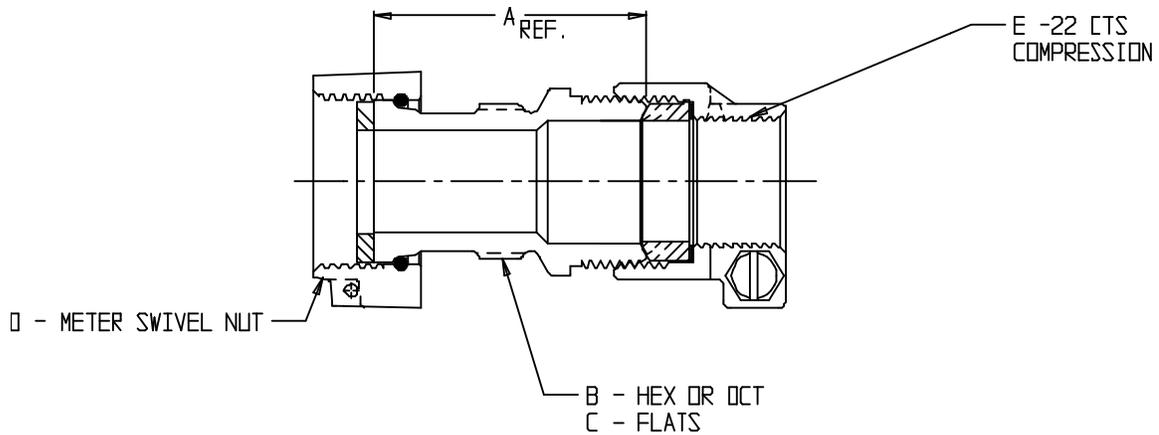
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Submitted by:

SUBMITTAL DATA SHEET

NL Meter Coupling – 74638-22

Meter Swivel Nut x -22 CTS Compression



| MODEL NO. | SIZE | A | B | C | D | E |
|-----------|-------------|------|-----|------|----------------|-------|
| 74638-22 | 5/8 X 1/2 | 2.15 | HEX | 1.06 | 5/8 | 1/2 |
| 74638-22 | 5/8 X 3/4 | 2.00 | HEX | 1.38 | 5/8 | 3/4 |
| 74638-22 | 3/4 X 3/4 | 2.00 | OCT | 1.06 | 5/8 X 3/4, 3/4 | 3/4 |
| 74638-22 | 3/4 X 1 | 1.94 | OCT | 1.36 | 5/8 X 3/4, 3/4 | 1 |
| 74638-22 | 3/4 X 1 1/4 | 2.52 | OCT | 1.85 | 5/8 X 3/4, 3/4 | 1 1/4 |
| 74638-22 | 1 X 1 | 2.04 | OCT | 1.63 | 1 | 1 |
| 74638-22 | 1 X 1 1/4 | 2.55 | OCT | 1.85 | 1 | 1 1/4 |

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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation
- Insert stiffener required on all flexible plastic connections



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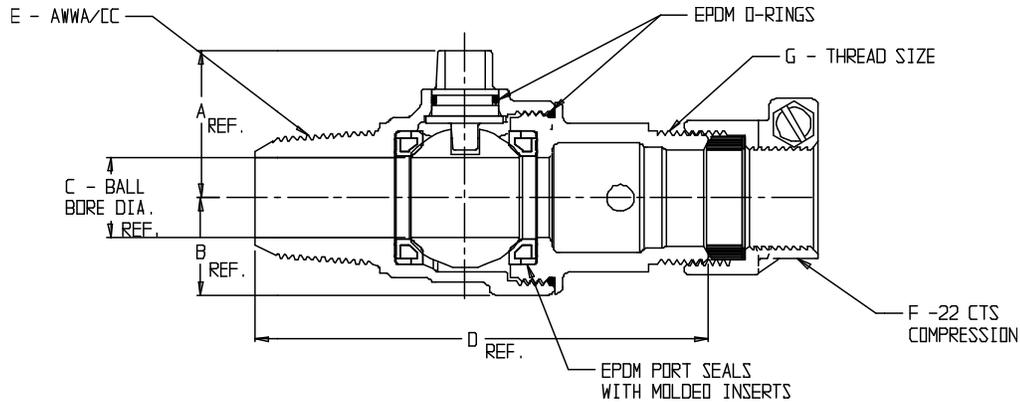
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Corporation Stop – 74701B-22

AWWA/CC x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E | F | G |
|-------------|-----------|------|------|------|------|-------|-------|--------------------|
| 74701B-22 | 3/4 | 1.39 | .91 | .75 | 4.23 | 3/4 | 3/4 | 3/4 AWWA FLARE |
| 74701B-22 | 3/4 X 1 | 1.39 | .91 | .75 | 4.44 | 3/4 | 1 | 1 AWWA FLARE |
| 74701B-22 | 1 | 1.50 | 1.16 | 1.00 | 4.37 | 1 | 1 | 1 AWWA FLARE |
| 74701B-22 | 1 X 1 1/4 | 1.50 | 1.16 | 1.00 | 4.51 | 1 | 1 1/4 | 1 1/4 AWWA FLARE |
| 74701B-22 | 1 1/4 | 1.88 | 1.33 | 1.25 | 5.90 | 1 1/4 | 1 1/4 | 1 1/4 AWWA FLARE |
| 74701B-22 | 1 1/2 | 2.15 | 1.60 | 1.50 | 6.43 | 1 1/2 | 1 1/2 | 2 1/8 - 16 SPECIAL |
| 74701B-22 | 1 1/2 X 2 | 2.15 | 1.60 | 1.50 | 6.97 | 1 1/2 | 2 | 2 5/8 - 16 SPECIAL |
| 74701B-22 | 2 | 2.46 | 2.10 | 2.00 | 7.53 | 2 | 2 | 2 5/8 - 16 SPECIAL |
| 74701B-22FT | 1 1/2 | 2.15 | 1.60 | 1.50 | 6.09 | 1 1/2 | 1 1/2 | 1 1/2 AWWA FLARE |
| 74701B-22FT | 1 1/2 X 2 | 2.15 | 1.60 | 1.50 | 6.97 | 1 1/2 | 2 | 2 AWWA FLARE |
| 74701B-22FT | 2 | 2.46 | 2.10 | 2.00 | 7.56 | 2 | 2 | 2 AWWA FLARE |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with “NL”
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball rotates 360°
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker
- Insert stiffeners required on all flexible plastic connections



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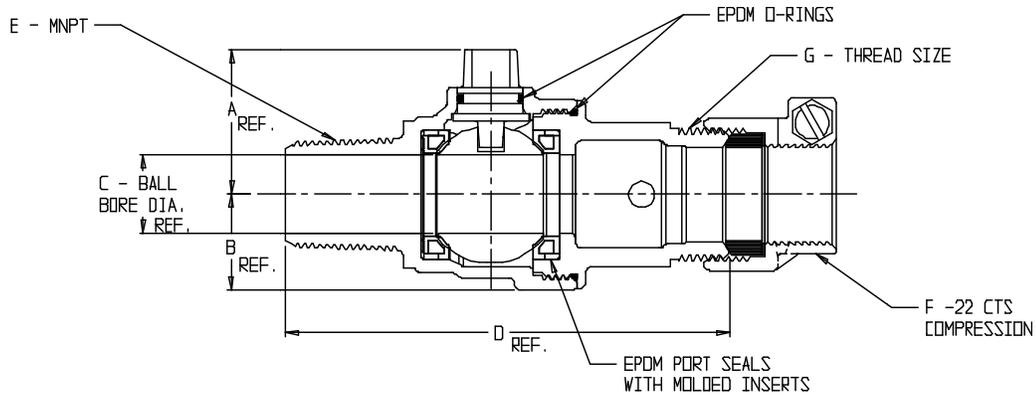
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Corporation Stop – 74704B-22

MNPT x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E | F | G |
|-------------|-----------|------|------|------|------|-------|-------|--------------------|
| 74704B-22 | 3/4 | 1.39 | .91 | .75 | 4.23 | 3/4 | 3/4 | 3/4 AWWA FLARE |
| 74704B-22 | 3/4 X 1 | 1.39 | .91 | .75 | 4.44 | 3/4 | 1 | 1 AWWA FLARE |
| 74704B-22 | 1 | 1.50 | 1.16 | 1.00 | 4.37 | 1 | 1 | 1 AWWA FLARE |
| 74704B-22 | 1 X 1 1/4 | 1.50 | 1.16 | 1.00 | 4.51 | 1 | 1 1/4 | 1 1/4 AWWA FLARE |
| 74704B-22 | 1 1/4 | 1.88 | 1.33 | 1.25 | 5.90 | 1 1/4 | 1 1/4 | 1 1/4 AWWA FLARE |
| 74704B-22 | 1 1/2 | 2.15 | 1.60 | 1.50 | 6.43 | 1 1/2 | 1 1/2 | 2 1/8 - 16 SPECIAL |
| 74704B-22 | 1 1/2 X 2 | 2.15 | 1.60 | 1.50 | 6.97 | 1 1/2 | 2 | 2 5/8 - 16 SPECIAL |
| 74704B-22 | 2 | 2.46 | 2.10 | 2.00 | 6.89 | 2 | 2 | 2 5/8 - 16 SPECIAL |
| 74704B-22FT | 1 1/2 | 2.15 | 1.60 | 1.50 | 6.09 | 1 1/2 | 1 1/2 | 1 1/2 AWWA FLARE |
| 74704B-22FT | 1 1/2 X 2 | 2.15 | 1.60 | 1.50 | 6.97 | 1 1/2 | 2 | 2 AWWA FLARE |
| 74704B-22FT | 2 | 2.46 | 2.10 | 2.00 | 7.56 | 2 | 2 | 2 AWWA FLARE |

SUBMITTAL INFORMATION

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- Rated for 300 PSIG water pressure
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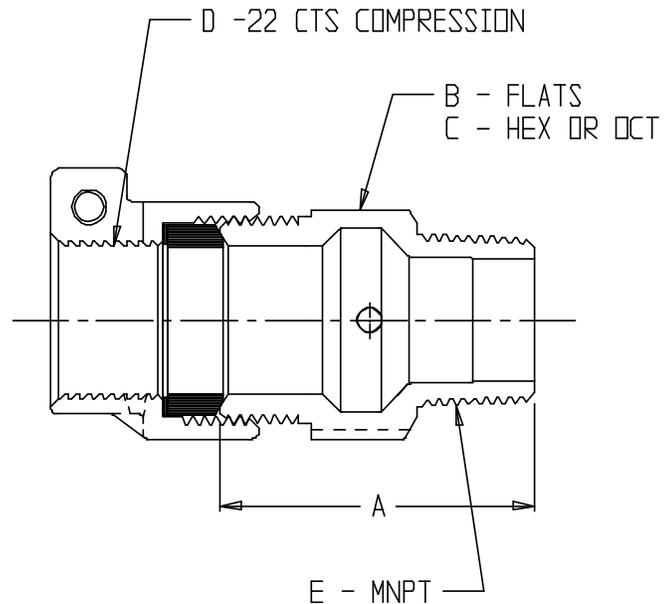
SUBMITTAL DATA SHEET

NL Service Fitting – 74753-22

-22 CTS Compression x MNPT



| MODEL | SIZE | A | B | C | D | E |
|----------|---------------|------|------|-----|-------|-------|
| 74753-22 | 1/2 | 1.64 | 1.06 | HEX | 1/2 | 1/2 |
| 74753-22 | 1/2 X 3/4 | 1.61 | 1.06 | HEX | 1/2 | 3/4 |
| 74753-22 | 3/4 | 1.91 | 1.34 | OCT | 3/4 | 3/4 |
| 74753-22 | 3/4 X 1/2 | 2.00 | 1.38 | HEX | 3/4 | 1/2 |
| 74753-22 | 3/4 X 1 | 1.95 | 1.32 | OCT | 3/4 | 1 |
| 74753-22 | 1 | 2.44 | 1.38 | OCT | 1 | 1 |
| 74753-22 | 1 X 3/4 | 2.18 | 1.38 | OCT | 1 | 3/4 |
| 74753-22 | 1 1/4 | 2.69 | 1.70 | OCT | 1 1/4 | 1 1/4 |
| 74753-22 | 1 1/4 X 3/4 | 2.50 | 1.85 | OCT | 1 1/4 | 3/4 |
| 74753-22 | 1 1/4 X 1 | 2.76 | 1.85 | OCT | 1 1/4 | 1 |
| 74753-22 | 1 1/4 X 1 1/2 | 2.69 | 1.69 | HEX | 1 1/4 | 1 1/2 |
| 74753-22 | 1 1/2 | 2.72 | 2.00 | OCT | 1 1/2 | 1 1/2 |
| 74753-22 | 1 1/2 X 1 | 2.75 | 1.85 | OCT | 1 1/2 | 1 |
| 74753-22 | 1 1/2 X 1 1/4 | 2.65 | 1.85 | OCT | 1 1/2 | 1 1/4 |
| 74753-22 | 2 X 1 1/2 | 2.70 | 2.44 | OCT | 2 | 1 1/2 |
| 74753-22 | 2 | 3.02 | 2.44 | OCT | 2 | 2 |
| 74753-22 | 2 1/2 | 2.93 | 3.09 | OCT | 2 1/2 | 2 1/2 |



SUBMITTAL INFORMATION

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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
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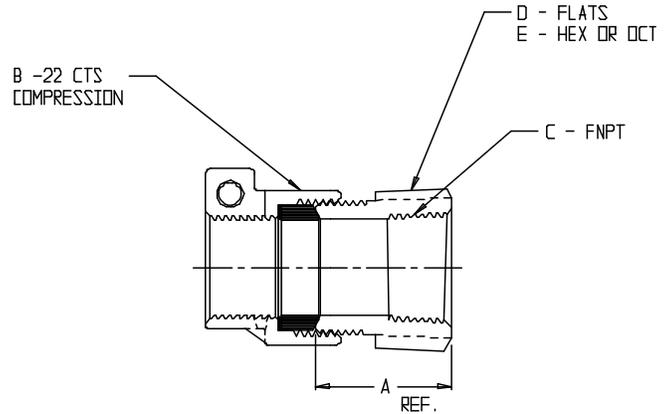
SUBMITTAL DATA SHEET

NL Service Fitting – 74754-22

-22 CTS Compression x FNPT



| MODEL | SIZE | A | B | C | D | E |
|----------|---------------|------|-------|-------|------|-----|
| 74754-22 | 1/2 | 1.25 | 1/2 | 1/2 | 1.06 | HEX |
| 74754-22 | 1/2 X 3/4 | 1.56 | 1/2 | 3/4 | 1.38 | HEX |
| 74754-22 | 3/4 | 1.27 | 3/4 | 3/4 | 1.31 | HEX |
| 74754-22 | 3/4 X 1/2 | 1.61 | 3/4 | 1/2 | 1.38 | HEX |
| 74754-22 | 3/4 X 1 | 1.64 | 3/4 | 1 | 1.52 | OCT |
| 74754-22 | 3/4 X 1 1/4 | 2.67 | 3/4 | 1 1/4 | 1.85 | OCT |
| 74754-22 | 3/4 X 1 1/2 | 2.67 | 3/4 | 1 1/2 | 1.85 | OCT |
| 74754-22 | 1 | 1.40 | 1 | 1 | 1.54 | OCT |
| 74754-22 | 1 X 3/4 | 1.40 | 1 | 3/4 | 1.37 | OCT |
| 74754-22 | 1 X 1 1/4 | 1.75 | 1 | 1 1/4 | 1.88 | OCT |
| 74754-22 | 1 X 1 1/2 | 2.66 | 1 | 1 1/2 | 1.85 | OCT |
| 74754-22 | 1 1/4 | 2.17 | 1 1/4 | 1 1/4 | 2.00 | OCT |
| 74754-22 | 1 1/4 X 3/4 | 2.08 | 1 1/4 | 3/4 | 1.69 | HEX |
| 74754-22 | 1 1/4 X 1 | 1.75 | 1 1/4 | 1 | 1.69 | HEX |
| 74754-22 | 1 1/2 | 2.00 | 1 1/2 | 1 1/2 | 2.31 | OCT |
| 74754-22 | 1 1/2 X 1 | 2.64 | 1 1/2 | 1 | 1.85 | OCT |
| 74754-22 | 1 1/2 X 1 1/4 | 2.31 | 1 1/2 | 1 1/4 | 2.00 | OCT |
| 74754-22 | 2 X 1 1/2 | 2.15 | 2 | 1 1/2 | 2.31 | OCT |
| 74754-22 | 2 | 2.04 | 2 | 2 | 2.81 | OCT |
| 74754-22 | 2 1/2 | 3.66 | 2 1/2 | 2 1/2 | 3.29 | HEX |



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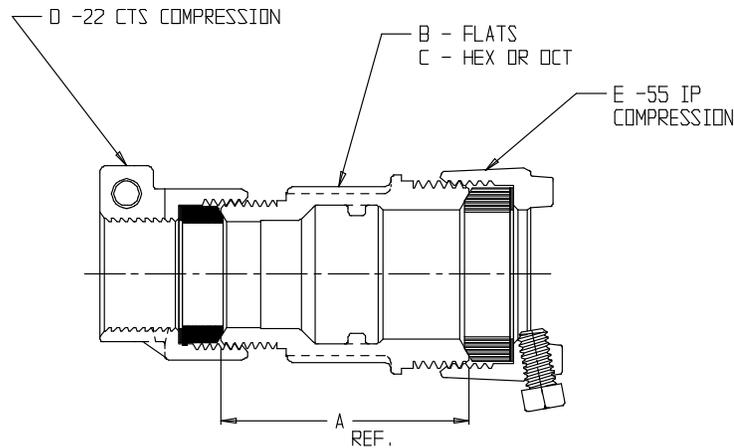
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Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 74758-22-55
 -22 CTS Compression x -55 IP Compression



| MODEL NO. | SIZE | A | B | C | D | E |
|--------------|---------|------|------|-----|-------|-------|
| 74758-22-55 | 3/4 | 2.11 | 1.38 | OCT | 3/4 | 3/4 |
| 74758-22-55 | 3/4 X 1 | 2.26 | 1.69 | HEX | 3/4 | 1 |
| 74758-22-55 | 1 | 2.61 | 1.85 | OCT | 1 | 1 |
| 74758-22-55 | 1 X 3/4 | 2.40 | 1.38 | OCT | 1 | 3/4 |
| *74758-22-55 | 1 X 2 | 2.96 | 3.05 | OCT | 1 | 2 |
| 74758-22-55 | 1 1/2 | 2.80 | 2.28 | OCT | 1 1/2 | 1 1/2 |
| *74758-22-55 | 2 | 3.47 | 3.29 | HEX | 2 | 2 |

*NOTE: USES TWO SET SCREWS

SUBMITTAL INFORMATION

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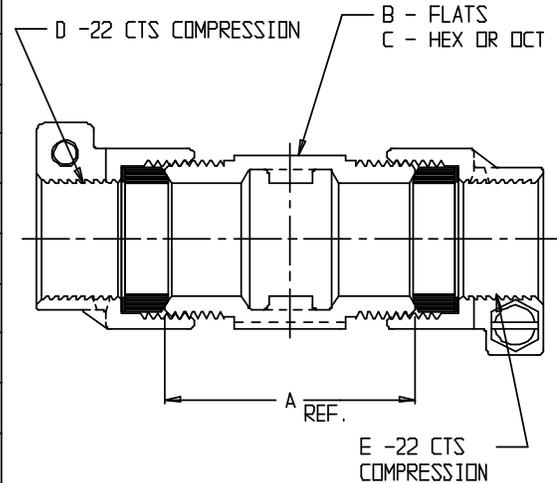
SUBMITTAL DATA SHEET

NL Service Fitting – 74758-22

-22 CTS Compression x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E |
|----------|---------------|------|------|-----|-------|-------|
| 74758-22 | 1/2 | 1.60 | 1.06 | HEX | 1/2 | 1/2 |
| 74758-22 | 1/2 X 3/4 | 1.80 | 1.38 | HEX | 1/2 | 3/4 |
| 74758-22 | 13/16 | 2.00 | 1.20 | OCT | 13/16 | 13/16 |
| 74758-22 | 13/16 X 3/4 | 2.00 | 1.20 | OCT | 13/16 | 3/4 |
| 74758-22 | 3/4 | 2.00 | 1.34 | OCT | 3/4 | 3/4 |
| 74758-22 | 3/4 X 1 | 2.11 | 1.38 | OCT | 3/4 | 1 |
| 74758-22 | 3/4 X 1 1/4 | 2.10 | 1.69 | HEX | 3/4 | 1 1/4 |
| 74758-22 | 1 | 2.40 | 1.38 | OCT | 1 | 1 |
| 74758-22 | 1 X 1 1/4 | 2.61 | 1.85 | OCT | 1 | 1 1/4 |
| 74758-22 | 1 X 1 1/2 | 2.60 | 1.85 | OCT | 1 | 1 1/2 |
| 74758-22 | 1 1/4 | 2.56 | 1.69 | OCT | 1 1/4 | 1 1/4 |
| 74758-22 | 1 1/4 X 1 1/2 | 2.61 | 1.69 | OCT | 1 1/4 | 1 1/2 |
| 74758-22 | 1 1/4 X 2 | 2.62 | 2.44 | OCT | 1 1/4 | 2 |
| 74758-22 | 1 1/2 | 3.31 | 2.00 | OCT | 1 1/2 | 1 1/2 |
| 74758-22 | 1 1/2 X 2 | 2.62 | 2.44 | OCT | 1 1/2 | 2 |
| 74758-22 | 2 | 3.53 | 2.45 | OCT | 2 | 2 |
| 74758-22 | 2 1/2 | 3.25 | 3.12 | OCT | 2 1/2 | 2 1/2 |



SUBMITTAL INFORMATION

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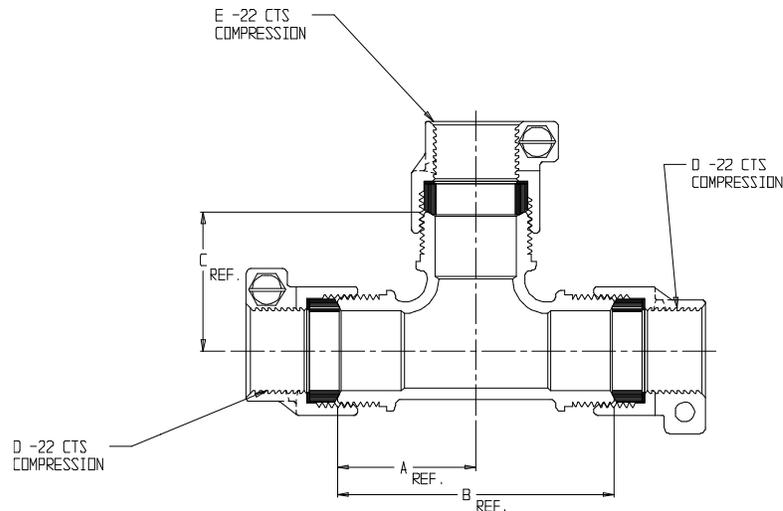
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SUBMITTAL DATA SHEET

NL Service Fitting – 74760-22

-22 CTS Compression x -22 CTS Compression x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E |
|----------|-----------|------|------|------|-------|-------|
| 74760-22 | 3/4 | 1.56 | 3.12 | 1.56 | 3/4 | 3/4 |
| 74760-22 | 3/4 X 1 | 1.88 | 3.76 | 1.75 | 3/4 | 1 |
| 74760-22 | 1 | 1.76 | 3.52 | 1.76 | 1 | 1 |
| 74760-22 | 1 X 3/4 | 1.78 | 3.56 | 1.67 | 1 | 3/4 |
| 74760-22 | 1 X 1 1/4 | 2.18 | 4.36 | 2.20 | 1 | 1 1/4 |
| 74760-22 | 1 X 1 1/2 | 2.18 | 4.36 | 2.12 | 1 | 1 1/2 |
| 74760-22 | 1 1/4 | 2.10 | 4.20 | 2.10 | 1 1/4 | 1 1/4 |
| 74760-22 | 1 1/2 | 2.12 | 4.24 | 2.12 | 1 1/2 | 1 1/2 |
| 74760-22 | 2 | 2.50 | 5.00 | 2.50 | 2 | 2 |

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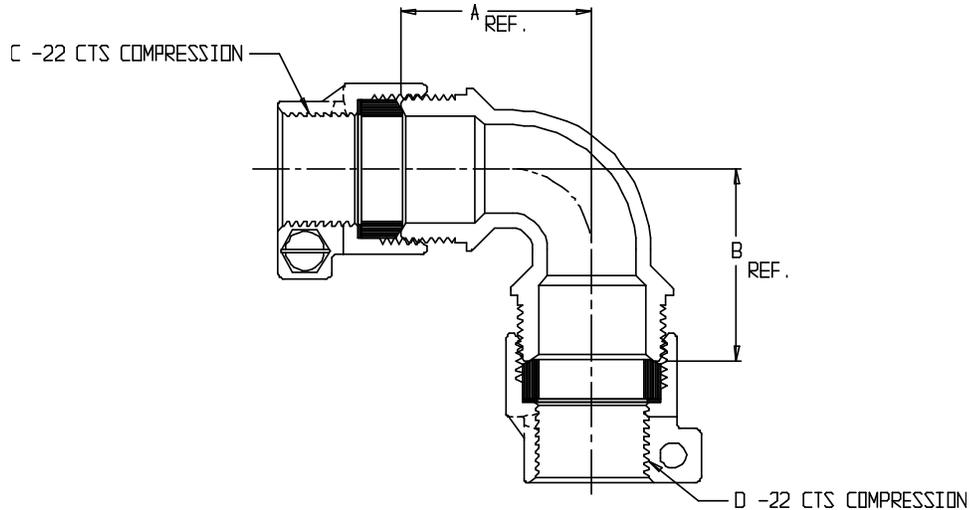
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SUBMITTAL DATA SHEET



NL Service Fitting – 74761-22

-22 CTS Compression x -22 CTS Compression



| MODEL | SIZE | A | B | C | D |
|----------|-----------|------|------|-------|-------|
| 74761-22 | 3/4 | 1.62 | 1.62 | 3/4 | 3/4 |
| 74761-22 | 3/4 X 1 | 1.92 | 1.88 | 3/4 | 1 |
| 74761-22 | 1 | 2.13 | 2.13 | 1 | 1 |
| 74761-22 | 1 X 1 1/4 | 2.18 | 2.50 | 1 | 1 1/4 |
| 74761-22 | 1 1/4 | 2.81 | 2.25 | 1 1/4 | 1 1/4 |
| 74761-22 | 1 1/2 | 2.91 | 2.91 | 1 1/2 | 1 1/2 |
| 74761-22 | 2 | 3.10 | 3.10 | 2 | 2 |

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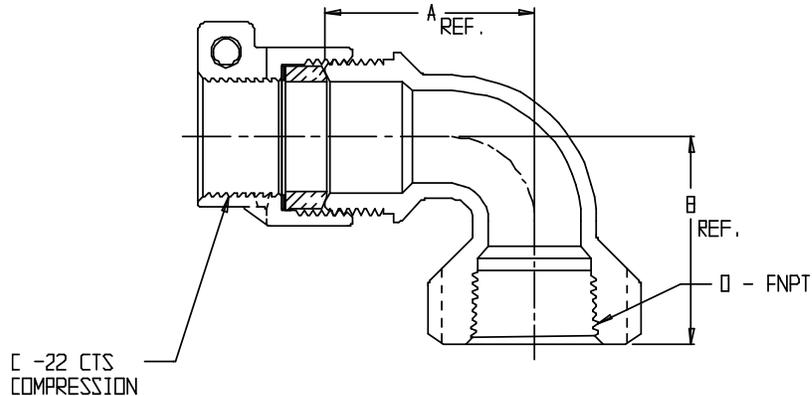
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Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 74779-22

-22 CTS Compression x FNPT



| MODEL | SIZE | A | B | C | Ø |
|----------|-------------|------|------|-------|-------|
| 74779-22 | 3/4 | 1.70 | 1.68 | 3/4 | 3/4 |
| 74779-22 | 3/4 X 1 | 1.70 | 1.92 | 3/4 | 1 |
| 74779-22 | 3/4 X 1 1/4 | 3.00 | 2.32 | 3/4 | 1 1/4 |
| 74779-22 | 1 | 1.96 | 2.16 | 1 | 1 |
| 74779-22 | 1 X 3/4 | 1.88 | 1.88 | 1 | 3/4 |
| 74779-22 | 1 X 1 1/4 | 1.96 | 2.22 | 1 | 1 1/4 |
| 74779-22 | 1 1/4 | 2.49 | 2.32 | 1 1/4 | 1 |
| 74779-22 | 1 1/2 | 2.91 | 2.95 | 1 1/2 | 1 1/2 |
| 74779-22 | 2 | 3.10 | 3.22 | 2 | 2 |

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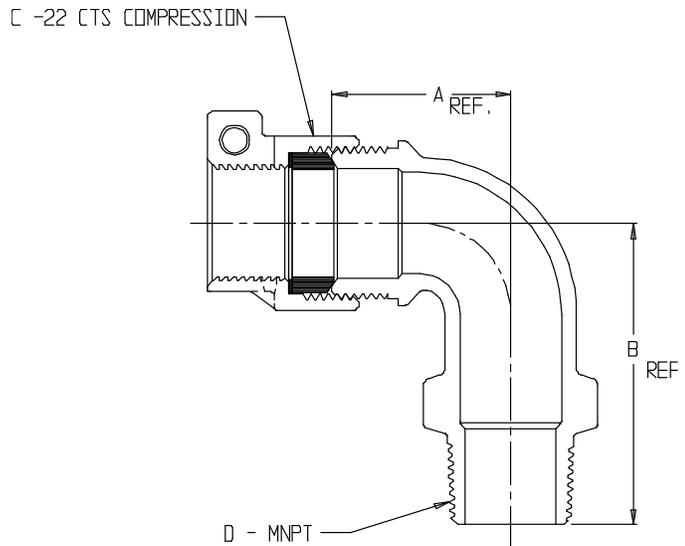
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Submitted by:

SUBMITTAL DATA SHEET

NL Service Fitting – 74779M-22

-22 CTS Compression x MNPT



| MODEL NO. | SIZE | A | B | C | D |
|-----------|-----------|------|------|-------|-------|
| 74779M-22 | 3/4 | 1.49 | 2.50 | 3/4 | 3/4 |
| 74779M-22 | 1 | 1.96 | 2.64 | 1 | 1 |
| 74779M-22 | 1 X 3/4 | 1.88 | 2.19 | 1 | 3/4 |
| 74779M-22 | 1 1/4 X 1 | 2.25 | 3.16 | 1 1/4 | 1 |
| 74779M-22 | 1 1/2 | 2.91 | 2.91 | 1 1/2 | 1 1/2 |
| 74779M-22 | 2 | 3.10 | 3.10 | 2 | 2 |

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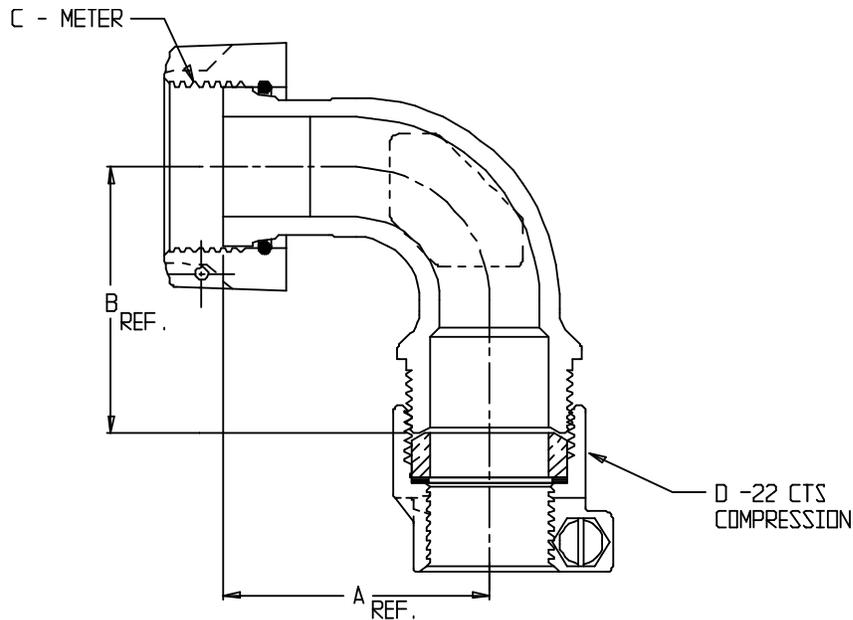
Submitted by:

09-14

SUBMITTAL DATA SHEET

NL Meter Coupling - 74783S-22

Meter Swivel x -22 CTS Compression



| MODEL | SIZE | A | B | C | D |
|-----------|-----------|------|------|------------------|-----|
| 74783S-22 | 5/8 X 3/4 | 2.01 | 2.00 | 5/8 | 3/4 |
| 74783S-22 | 3/4 X 3/4 | 2.01 | 2.00 | 5/8 X 3/4 OR 3/4 | 3/4 |
| 74783S-22 | 3/4 X 1 | 2.20 | 1.88 | 5/8 X 3/4 OR 3/4 | 1 |
| 74783S-22 | 1 X 1 | 1.85 | 2.27 | 1 | 1 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation
- Insert stiffener required on all flexible plastic connections



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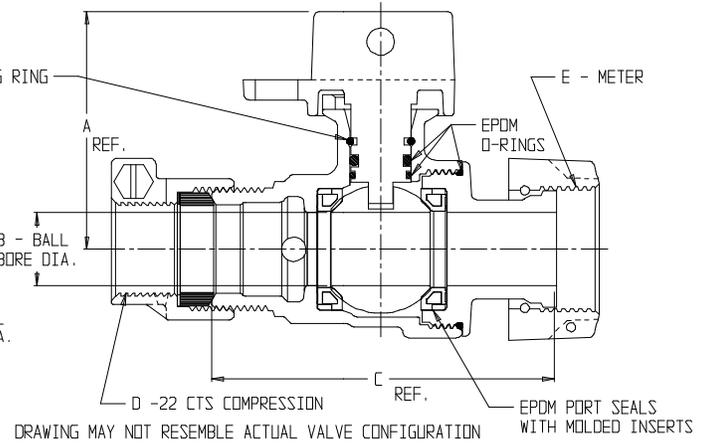
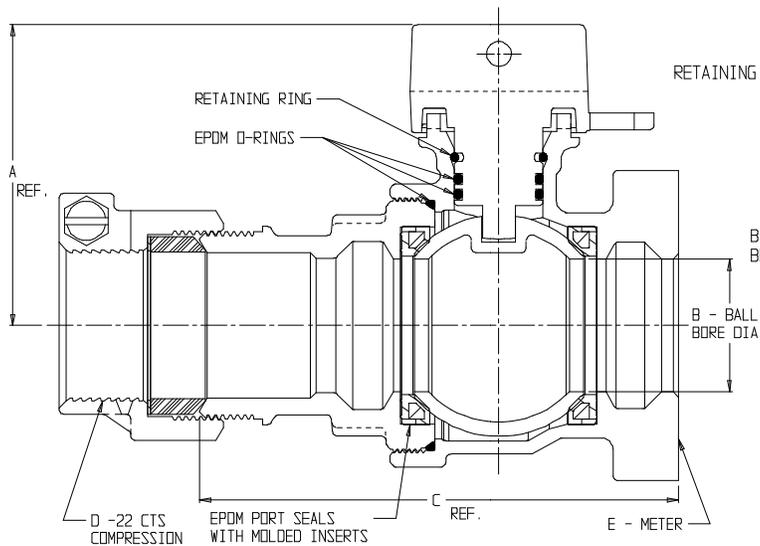
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Meter Stop – 76100MW-22

-22 CTS Compression x Meter



| MODEL | SIZE | A | B | C | D | E |
|------------|-------|------|------|------|-------|------------|
| 76100MW-22 | 1 1/2 | 3.40 | 1.50 | 5.40 | 1 1/2 | 1 1/2 |
| 76100MW-22 | 2 | 3.70 | 2.00 | 6.55 | 2 | 1 1/2 OR 2 |

| MODEL | SIZE | A | B | C | D | E |
|------------|------------------------|------|------|------|-----|----------------|
| 76100MW-22 | 3/4 X 5/8 X 5/8 | 2.31 | .63 | 3.28 | 3/4 | 5/8 |
| 76100MW-22 | 3/4 X 3/4 X 5/8 | 2.42 | .75 | 3.67 | 3/4 | 5/8 |
| 76100MW-22 | 1 X 3/4 X 5/8 | 2.42 | .75 | 3.71 | 1 | 5/8 |
| 76100MW-22 | 3/4 X 5/8 X 3/4 | 2.31 | .63 | 3.30 | 3/4 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 3/4 X 5/8 X 3/4 X 3.75 | 2.31 | .63 | 3.75 | 3/4 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 3/4 X 5/8 X 3/4 X 3.88 | 2.31 | .63 | 3.88 | 3/4 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 1 X 5/8 X 3/4 | 2.31 | .63 | 3.92 | 1 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 3/4 | 2.42 | .75 | 3.51 | 3/4 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 1 X 3/4 X 3/4 | 2.42 | .75 | 3.55 | 1 | 5/8 X 3/4, 3/4 |
| 76100MW-22 | 1 X 3/4 X 1 | 2.42 | .75 | 3.65 | 1 | 1 |
| 76100MW-22 | 1 | 2.64 | 1.00 | 4.47 | 1 | 1 |

SUBMITTAL INFORMATION

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- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker
- Insert stiffeners required on all flexible plastic connections



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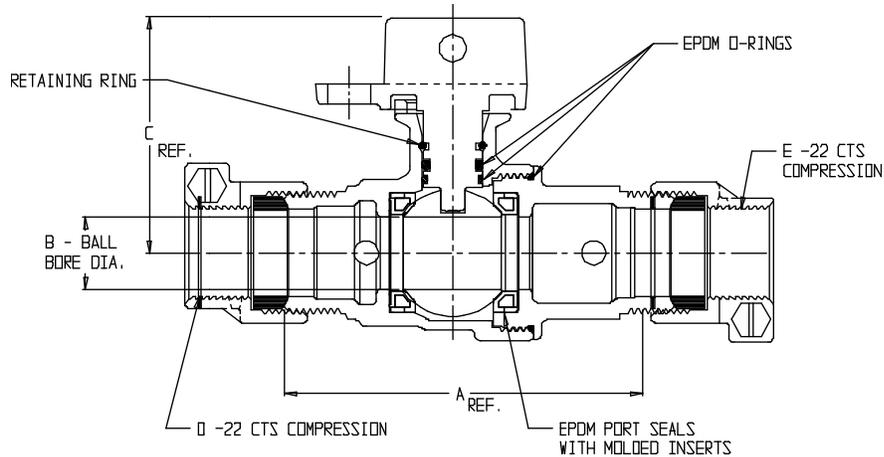
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Submitted by:

SUBMITTAL DATA SHEET

NL Ball Style Curb Stop – 76100W-22

-22 CTS Compression x -22 CTS Compression



| MODEL | SIZE | A | B | C | D | E |
|-----------|-------------------|------|------|------|-------|-------|
| 76100W-22 | 3/4 X 5/8 X 3/4 | 3.36 | .63 | 2.31 | 3/4 | 3/4 |
| 76100W-22 | 3/4 | 3.99 | .75 | 2.42 | 3/4 | 3/4 |
| 76100W-22 | 1 X 3/4 X 3/4 | 4.03 | .75 | 2.42 | 1 | 3/4 |
| 76100W-22 | 1 X 3/4 X 1 | 4.25 | .75 | 2.42 | 1 | 1 |
| 76100W-22 | 1 | 4.49 | 1.00 | 2.64 | 1 | 1 |
| 76100W-22 | 1 1/4 X 1 X 1 | 4.49 | 1.00 | 2.64 | 1 1/4 | 1 |
| 76100W-22 | 1 1/4 X 1 X 1 1/4 | 4.91 | 1.00 | 2.64 | 1 1/4 | 1 1/4 |
| 76100W-22 | 1 1/4 | 5.87 | 1.25 | 2.94 | 1 1/4 | 1 1/4 |
| 76100W-22 | 1 1/2 | 6.06 | 1.50 | 3.40 | 1 1/2 | 1 1/2 |
| 76100W-22 | 2 | 6.99 | 2.00 | 3.71 | 2 | 2 |

SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker
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Submitted by:

SUBMITTAL DATA SHEET

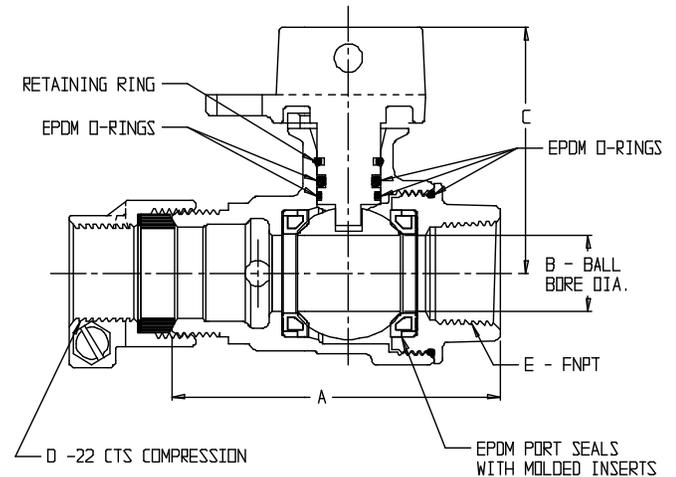
NL Ball Style Curb Stop – 76102W-22

-22 CTS Compression x FNPT



DRAWING MAY NOT RESEMBLE ACTUAL VALVE CONFIGURATION

| MODEL | SIZE | A | B | C | D | E |
|-----------|-------------------|------|------|------|-------|-------|
| 76102W-22 | 3/4 X 5/8 X 3/4 | 2.95 | .63 | 2.31 | 3/4 | 3/4 |
| 76102W-22 | 1 X 5/8 X 3/4 | 3.58 | .63 | 2.31 | 1 | 3/4 |
| 76102W-22 | 3/4 | 3.24 | .75 | 2.42 | 3/4 | 3/4 |
| 76102W-22 | 3/4 X 4.06 | 4.05 | .75 | 2.42 | 3/4 | 3/4 |
| 76102W-22 | 3/4 X 3/4 X 1 | 3.38 | .75 | 2.42 | 3/4 | 1 |
| 76102W-22 | 1 X 3/4 X 3/4 | 3.22 | .75 | 2.42 | 1 | 3/4 |
| 76102W-22 | 1 X 3/4 X 1 | 3.38 | .75 | 2.42 | 1 | 1 |
| 76102W-22 | 1 | 3.76 | 1.00 | 2.64 | 1 | 1 |
| 76102W-22 | 1 1/4 X 1 X 1 | 4.18 | 1.00 | 2.64 | 1 1/4 | 1 |
| 76102W-22 | 1 1/4 X 1 X 1 1/4 | 4.32 | 1.00 | 2.64 | 1 1/4 | 1 1/4 |
| 76102W-22 | 1 1/4 | 4.94 | 1.25 | 2.94 | 1 1/4 | 1 1/4 |
| 76102W-22 | 1 1/2 | 5.47 | 1.50 | 3.40 | 1 1/2 | 1 1/2 |
| 76102W-22 | 2 | 5.80 | 2.00 | 3.71 | 2 | 2 |



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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- PTFE coated brass ball
- Rated for 300 PSIG water pressure
- Blow out proof EPDM port seals
- End piece joint sealed with an EPDM o-ring and thread locker
- Insert stiffeners required on all flexible plastic connections



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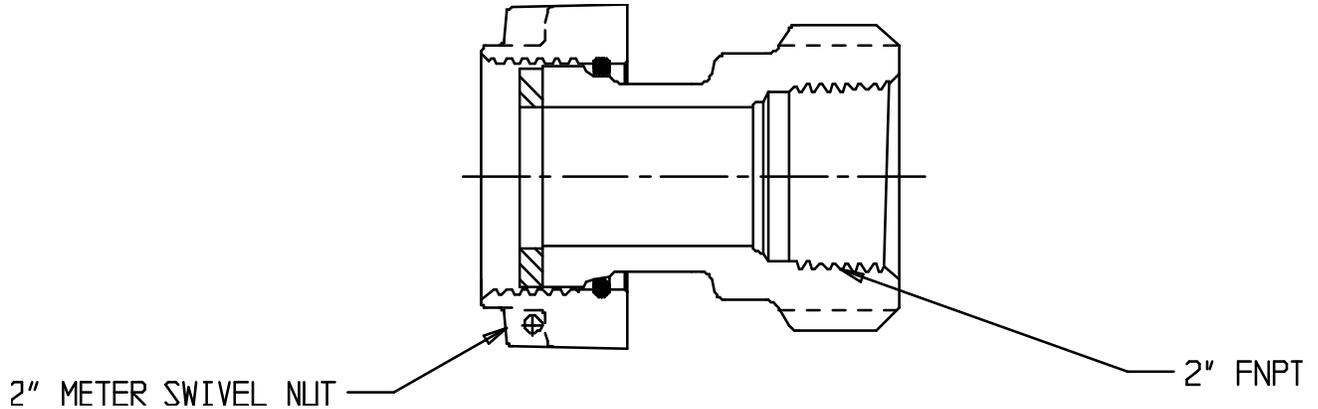
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Submitted by:

SUBMITTAL DATA SHEET

NL Meter Coupling - 74637 2

Meter Swivel Nut x FNPT



SUBMITTAL INFORMATION

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- Brass components in contact with potable water conform to ASTM B584, UNS C89833 (latest revision) and identified with "NL"
- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench area provided for proper installation



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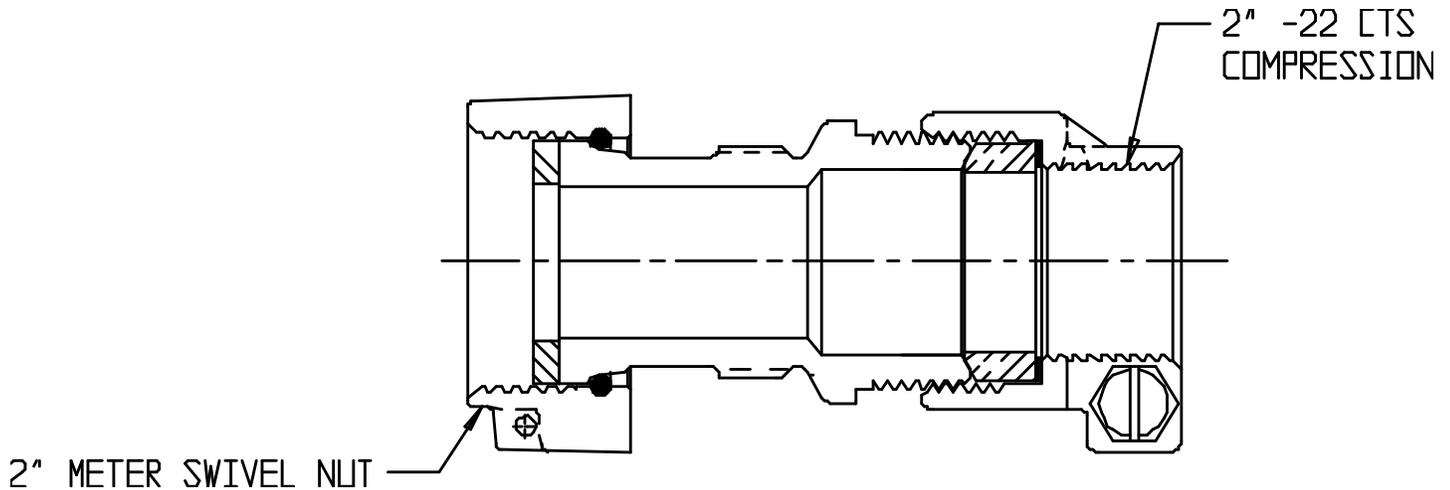
Submitted by:

06-17

SUBMITTAL DATA SHEET

NL Meter Coupling – 74638-22 2

Meter Swivel Nut x -22 CTS Compression



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
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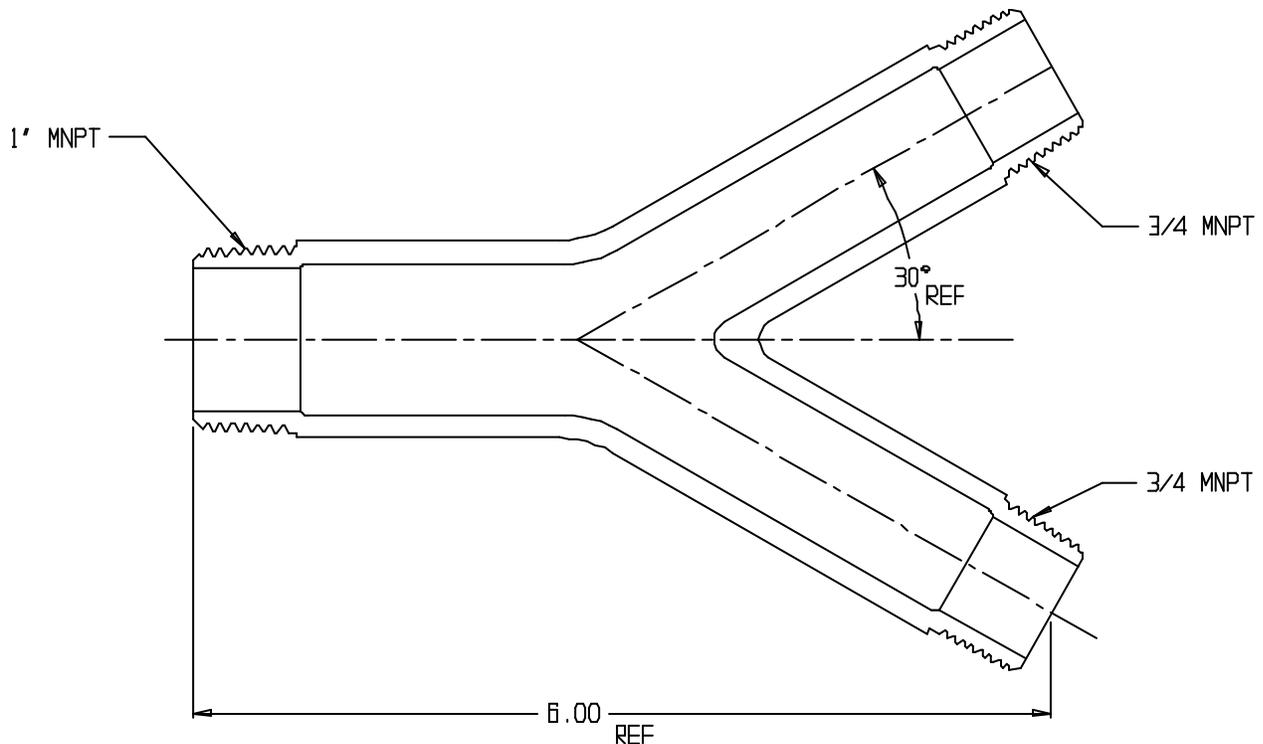
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SUBMITTAL DATA SHEET

NL Service Fitting – 708Y2MM 1 x 3/4

MNPT x MNPT



SUBMITTAL INFORMATION

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- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation



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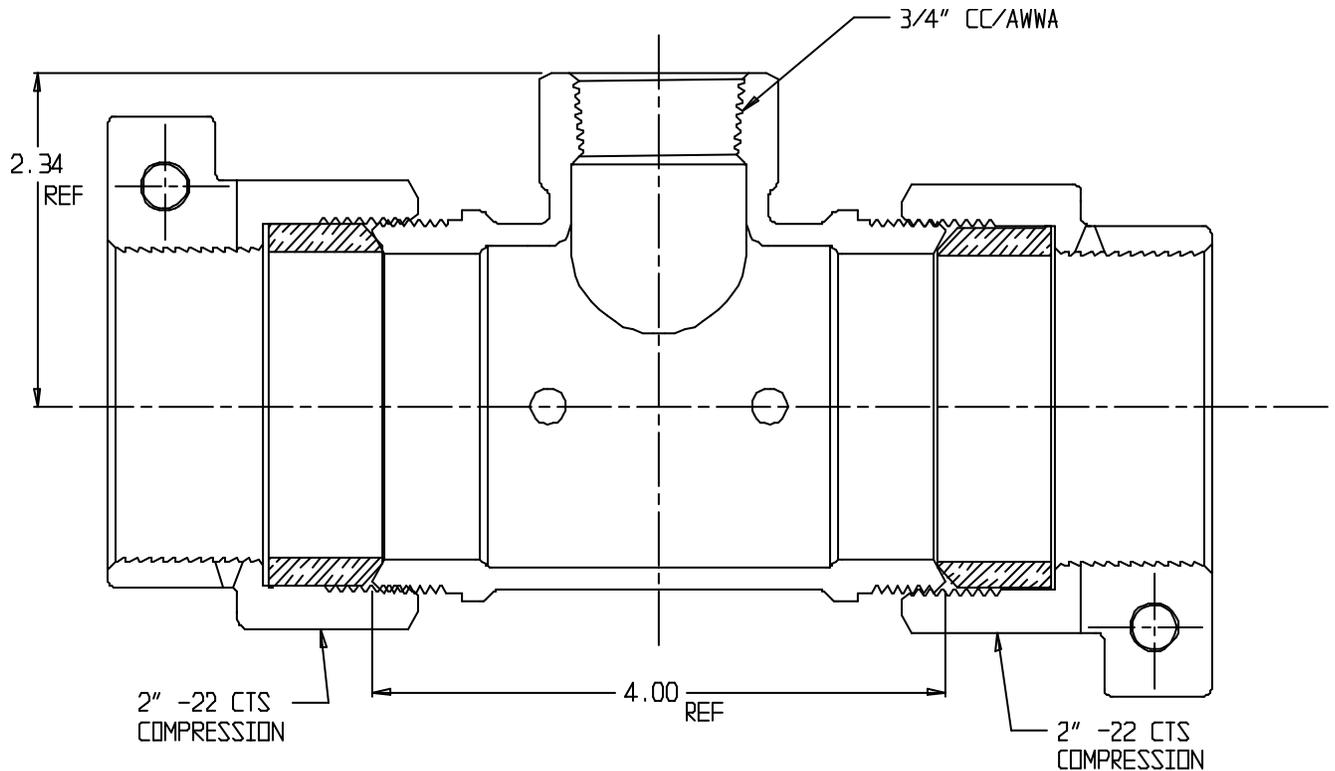
Submitted by:

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SUBMITTAL DATA SHEET

NL Service Fitting – 74764-22-CC 2x3/4

-22 CTS Compression x -22 CTS Compression x CC/AWWA



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
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- Certified to NSF/ANSI 61 and NSF/ANSI 372
- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation
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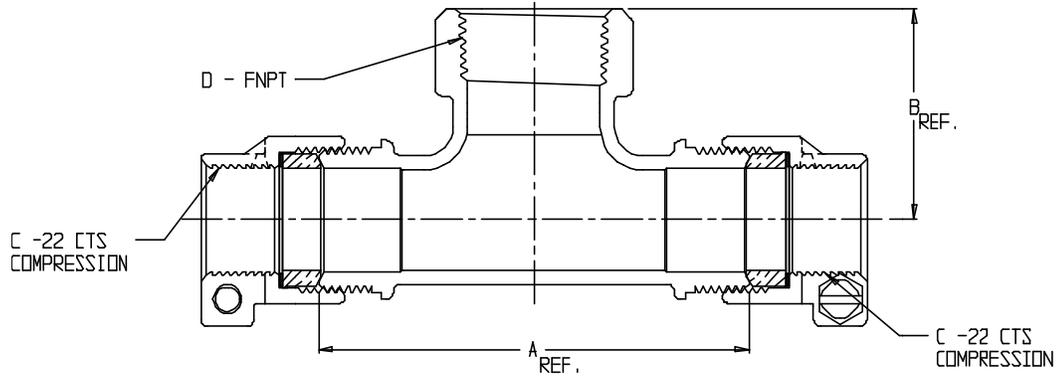
Submitted by:

06-17

SUBMITTAL DATA SHEET

NL Service Fitting – 74764-22

-22 CTS Compression x -22 CTS Compression x FNPT



| MODEL NO. | SIZE | A | B | C | D |
|-----------|-------------|------|------|-------|-------|
| 74764-22 | 3/4 | 3.12 | 1.61 | 3/4 | 3/4 |
| 74764-22 | 3/4 X 1 | 3.76 | 1.84 | 3/4 | 1 |
| 74764-22 | 1 | 3.52 | 1.76 | 1 | 1 |
| 74764-22 | 1 X 1 1/4 | 4.36 | 2.25 | 1 | 1 1/4 |
| 74764-22 | 1 X 1 1/2 | 4.36 | 2.25 | 1 | 1 1/2 |
| 74764-22 | 1 1/4 | 4.20 | 2.18 | 1 1/4 | 1 1/4 |
| 74764-22 | 1 1/4 X 3/4 | 4.54 | 2.06 | 1 1/4 | 3/4 |
| 74764-22 | 1 1/4 X 1 | 4.54 | 2.06 | 1 1/4 | 1 |
| 74764-22 | 1 1/2 X 3/4 | 4.54 | 2.06 | 1 1/2 | 3/4 |
| 74764-22 | 1 1/2 X 1 | 4.54 | 2.06 | 1 1/2 | 1 |
| 74764-22 | 2 X 3/4 | 4.00 | 2.34 | 2 | 3/4 |
| 74764-22 | 2 X 1 | 4.00 | 2.34 | 2 | 1 |

SUBMITTAL INFORMATION

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- Brass components not in contact with potable water conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
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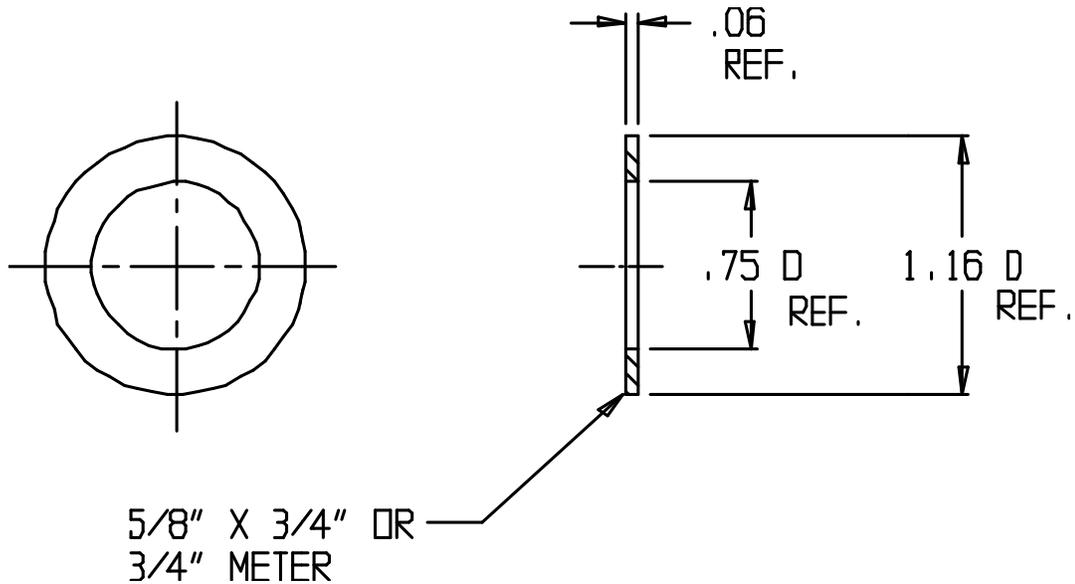
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Submitted by:

SUBMITTAL DATA SHEET

Meter Coupling – 18-G2F

Meter Gasket - Fiber



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Fiber – NSF 61 Approved



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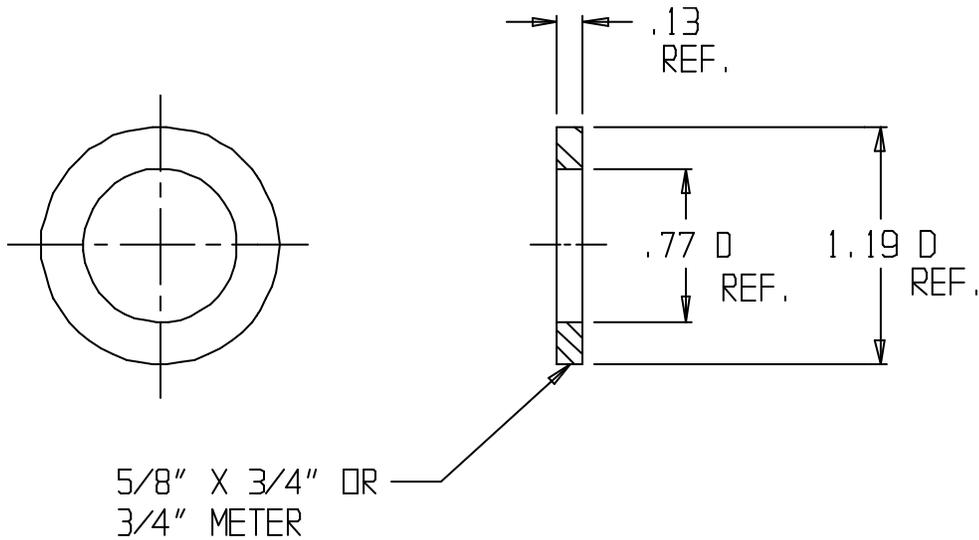
Submitted by:

09-14

SUBMITTAL DATA SHEET

Meter Coupling – 18-G2

Meter Gasket - Rubber



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- EDPM Rubber – NSF 61 Approved



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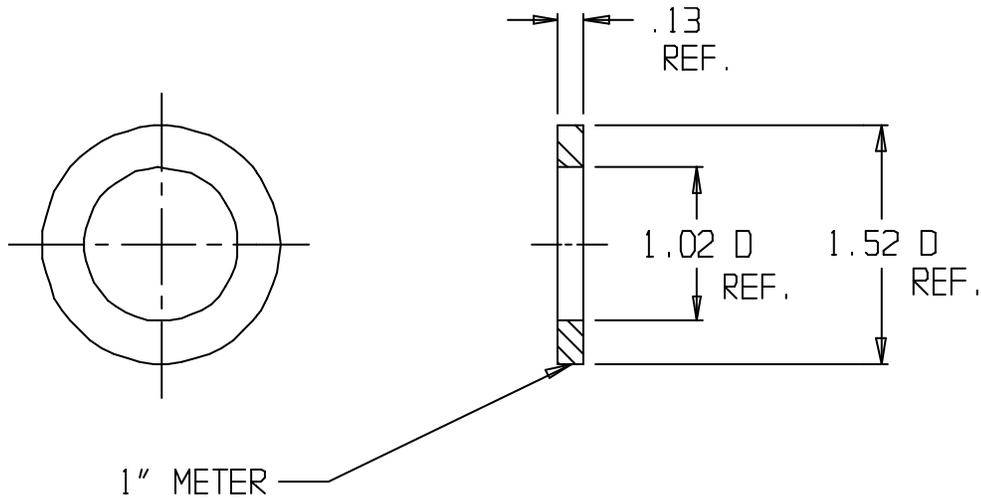
Submitted by:

09-14

SUBMITTAL DATA SHEET

Meter Coupling – 18-G4

Meter Gasket - Rubber



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- EDPM Rubber – NSF 61 Approved



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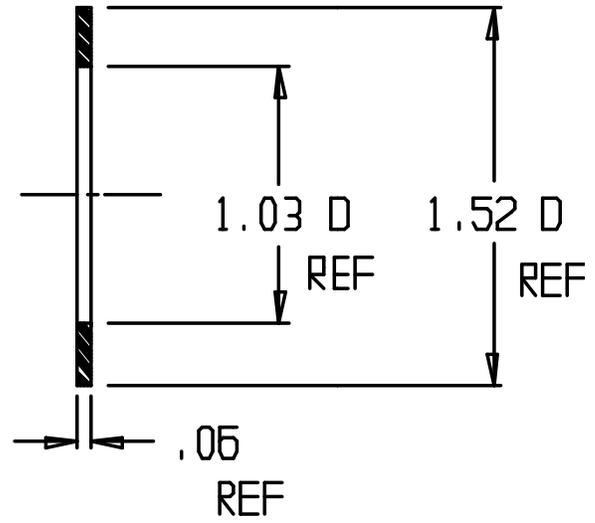
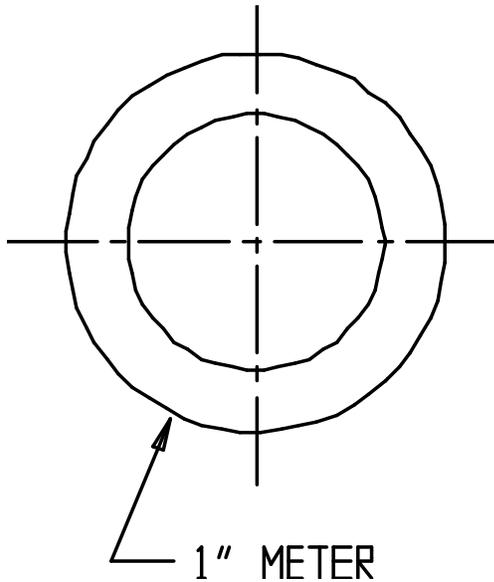
Submitted by:

09-14

SUBMITTAL DATA SHEET

Meter Coupling – 18-G4F

Meter Gasket - Fiber



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Made in the United States of America
- Fiber – NSF 61 Approved



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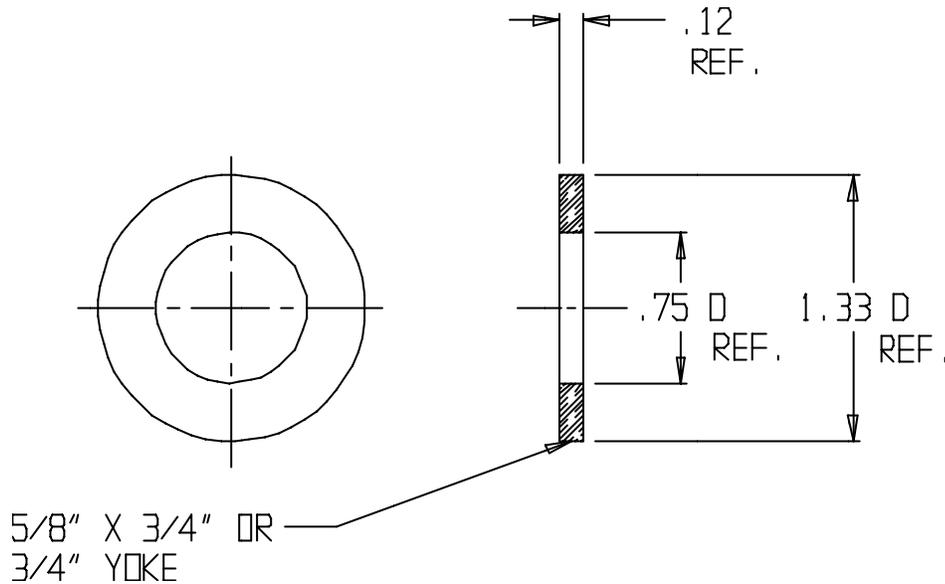
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Submitted by:

SUBMITTAL DATA SHEET

Iron Meter Yoke – 14-2G

Star Nut Gasket



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Made in the United States of America
- EDPM Rubber – NSF 61 Approved



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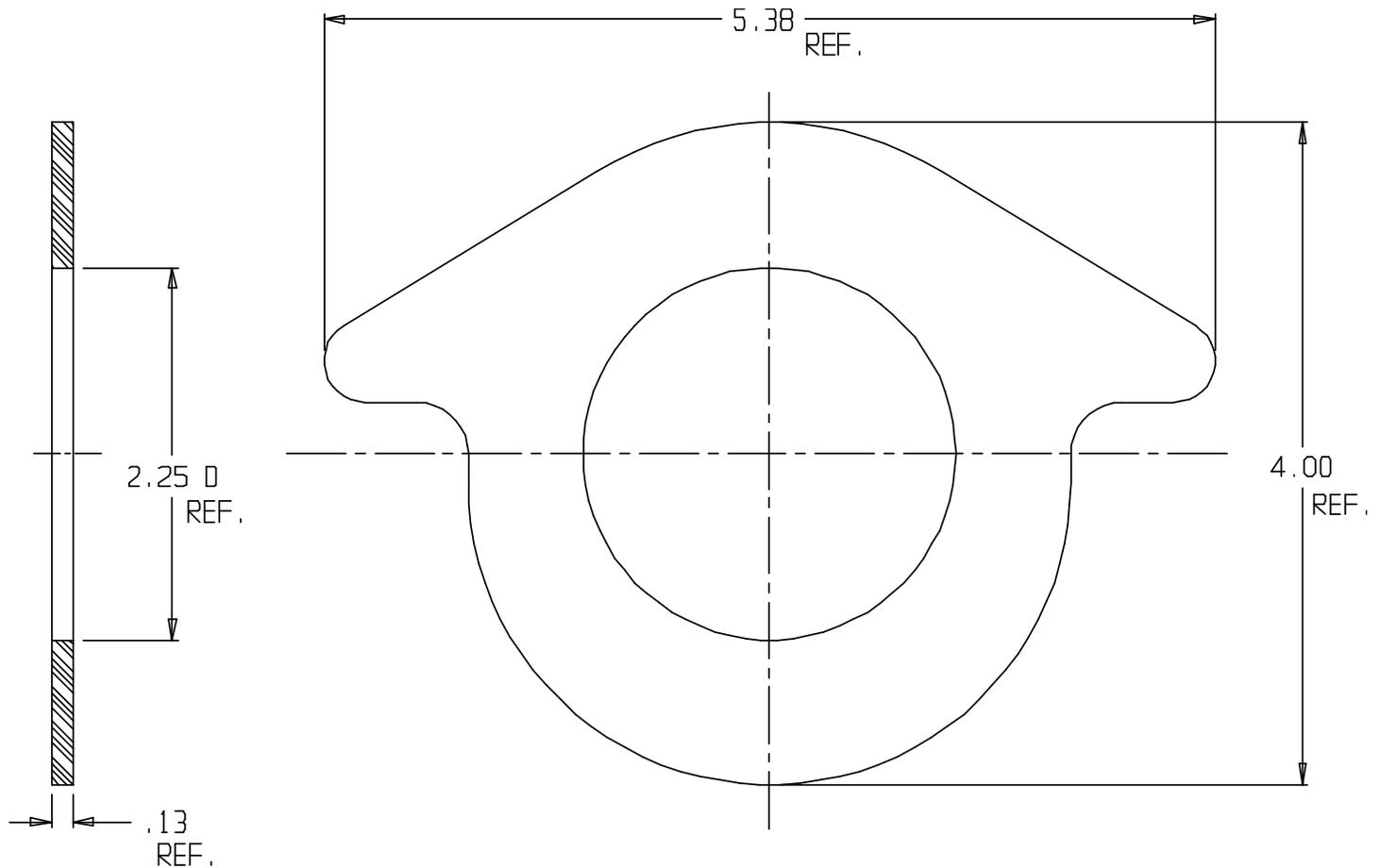
Submitted by:

05-11

SUBMITTAL DATA SHEET

Meter Coupling – 18-G7

Meter Gasket - Rubber - Drop In



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- EPDM Rubber – NSF 61 Approved



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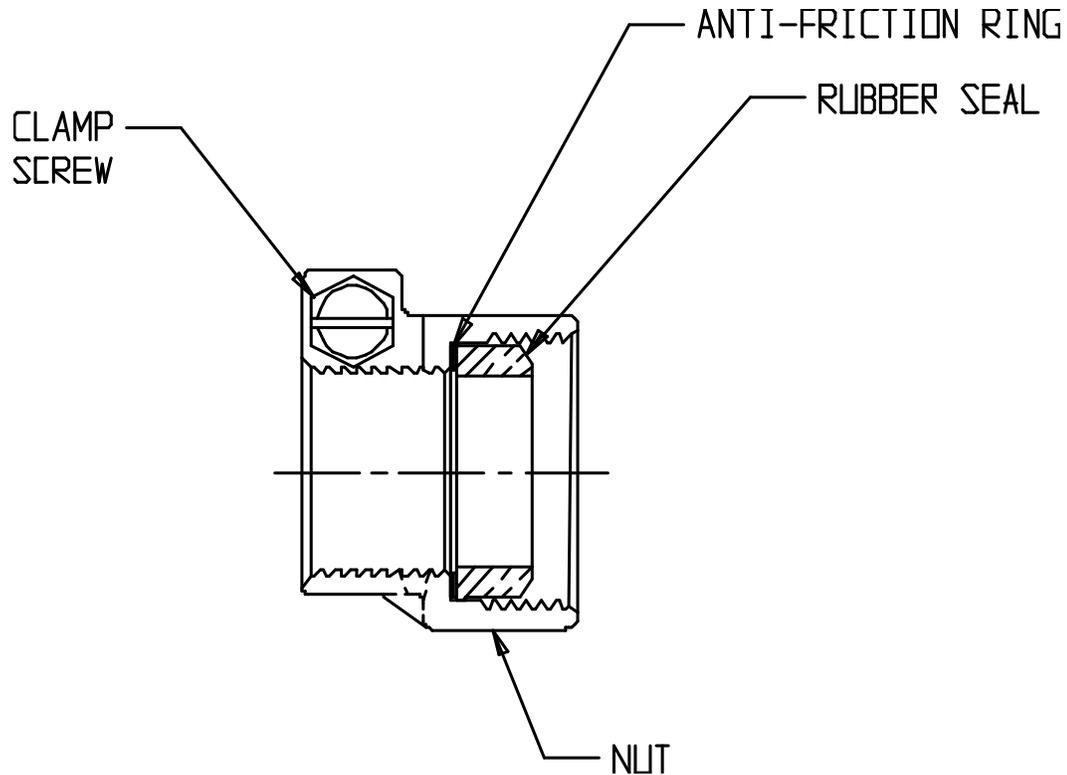
Submitted by:

09-16

SUBMITTAL DATA SHEET

Service Fitting – 4700-22

-22 CTS Compression Nut



SUBMITTAL INFORMATION

- Manufactured in compliance with ANSI/AWWA C800 (latest revision)
- Brass components conform to ASTM B62 and ASTM B584, UNS C83600 -85-5-5-5 (latest revision)
- Large wrench flats provided for proper installation
- Insert stiffeners required on all flexible plastic connections



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Submitted by:

06-17

SUBMITTAL DATA SHEET



No-Lead 125LB Domestic Threaded Red Brass Pipe Nipples No-Lead Brass Pipe Nipples – 2200D

A.Y. McDonald Schedule 40 red No-Lead Domestic Brass Pipe Nipples are rated to 125 PSI and can be used in above ground or underground applications. All pipe nipples are certified to contain <.25% lead by weight.

| Size | Ctn Qty | Size | Ctn Qty | Size | Ctn Qty | Size | Ctn Qty | Size | Ctn Qty | Size | Ctn Qty |
|---------------|---------|---------------|---------|---------------|---------|-----------------|---------|-----------------|---------|-------------|---------|
| 1/8" | 25 | 3/8" | 25 | 3/4" | 25 | 1 1/4" | 10 | | | 3" | 10 |
| 1/8" x 1 1/2" | 25 | 3/8" x 1 1/2" | 25 | 3/4" x 1 1/2" | 25 | 1 1/4" x 2" | 10 | | | 3" x 3" | 10 |
| 1/8" x 2" | 25 | 3/8" x 2" | 25 | 3/4" x 2" | 25 | 1 1/4" x 2 1/2" | 10 | 2" | 10 | 3" x 3 1/2" | 10 |
| 1/8" x 2 1/2" | 25 | 3/8" x 2 1/2" | 25 | 3/4" x 2 1/2" | 25 | 1 1/4" x 3" | 10 | 2" x 2 1/2" | 10 | 3" x 4" | 10 |
| 1/8" x 3" | 25 | 3/8" x 3" | 25 | 3/4" x 3" | 25 | 1 1/4" x 3 1/2" | 10 | 2" x 3" | 10 | 3" x 4 1/2" | 10 |
| 1/8" x 3 1/2" | 25 | 3/8" x 3 1/2" | 25 | 3/4" x 3 1/2" | 25 | 1 1/4" x 4" | 10 | 2" x 3 1/2" | 10 | 3" x 5" | 10 |
| 1/8" x 4" | 25 | 3/8" x 4" | 25 | 3/4" x 4" | 25 | 1 1/4" x 4 1/2" | 10 | 2" x 4" | 10 | 3" x 5 1/2" | 10 |
| 1/8" x 4 1/2" | 25 | 3/8" x 4 1/2" | 25 | 3/4" x 4 1/2" | 25 | 1 1/4" x 5" | 10 | 2" x 4 1/2" | 10 | 3" x 6" | 10 |
| 1/8" x 5" | 25 | 3/8" x 5" | 25 | 3/4" x 5" | 25 | 1 1/4" x 5 1/2" | 10 | 2" x 5" | 10 | 3" x 7" | 10 |
| 1/8" x 5 1/2" | 25 | 3/8" x 5 1/2" | 25 | 3/4" x 5 1/2" | 25 | 1 1/4" x 6" | 10 | 2" x 5 1/2" | 10 | 3" x 8" | 10 |
| 1/8" x 6" | 25 | 3/8" x 6" | 25 | 3/4" x 6" | 25 | 1 1/4" x 7" | 10 | 2" x 6" | 10 | 3" x 9" | 10 |
| 1/8" x 7" | 25 | 3/8" x 7" | 25 | 3/4" x 7" | 25 | 1 1/4" x 8" | 10 | 2" x 7" | 10 | 3" x 10" | 10 |
| 1/8" x 8" | 25 | 3/8" x 8" | 25 | 3/4" x 8" | 25 | 1 1/4" x 9" | 10 | 2" x 8" | 10 | 3" x 11" | 10 |
| 1/8" x 9" | 25 | 3/8" x 9" | 25 | 3/4" x 9" | 25 | 1 1/4" x 10" | 10 | 2" x 9" | 10 | 3" x 12" | 10 |
| 1/8" x 10" | 25 | 3/8" x 10" | 25 | 3/4" x 10" | 25 | 1 1/4" x 11" | 10 | 2" x 10" | 10 | | |
| 1/8" x 11" | 25 | 3/8" x 11" | 25 | 3/4" x 11" | 25 | 1 1/4" x 12" | 10 | 2" x 11" | 10 | | |
| 1/8" x 12" | 25 | 3/8" x 12" | 25 | 3/4" x 12" | 25 | | | 2" x 12" | 10 | 4" | 10 |
| | | | | | | | | | | 4" x 3" | 10 |
| | | | | | | | | | | 4" x 3 1/2" | 10 |
| 1/4" | 25 | 1/2" | 25 | 1" | 25 | 1 1/2" | 10 | 2 1/2" | 10 | 4" x 4" | 10 |
| 1/4" x 1 1/2" | 25 | 1/2" x 1 1/2" | 25 | 1" x 2" | 25 | 1 1/2" x 2" | 10 | 2 1/2" x 3" | 10 | 4" x 4 1/2" | 10 |
| 1/4" x 2" | 25 | 1/2" x 2" | 25 | 1" x 2 1/2" | 25 | 1 1/2" x 2 1/2" | 10 | 2 1/2" x 3 1/2" | 10 | 4" x 5" | 10 |
| 1/4" x 2 1/2" | 25 | 1/2" x 2 1/2" | 25 | 1" x 3" | 25 | 1 1/2" x 3" | 10 | 2 1/2" x 4" | 10 | 4" x 5 1/2" | 10 |
| 1/4" x 3" | 25 | 1/2" x 3" | 25 | 1" x 3 1/2" | 25 | 1 1/2" x 3 1/2" | 10 | 2 1/2" x 4 1/2" | 10 | 4" x 6" | 10 |
| 1/4" x 3 1/2" | 25 | 1/2" x 3 1/2" | 25 | 1" x 4" | 25 | 1 1/2" x 4" | 10 | 2 1/2" x 5" | 10 | 4" x 7" | 10 |
| 1/4" x 4" | 25 | 1/2" x 4" | 25 | 1" x 4 1/2" | 25 | 1 1/2" x 4 1/2" | 10 | 2 1/2" x 5 1/2" | 10 | 4" x 8" | 10 |
| 1/4" x 4 1/2" | 25 | 1/2" x 4 1/2" | 25 | 1" x 5" | 25 | 1 1/2" x 5" | 10 | 2 1/2" x 6" | 10 | 4" x 9" | 10 |
| 1/4" x 5" | 25 | 1/2" x 5" | 25 | 1" x 5 1/2" | 25 | 1 1/2" x 5 1/2" | 10 | 2 1/2" x 7" | 10 | 4" x 10" | 10 |
| 1/4" x 5 1/2" | 25 | 1/2" x 5 1/2" | 25 | 1" x 6" | 25 | 1 1/2" x 6" | 10 | 2 1/2" x 8" | 10 | 4" x 11" | 10 |
| 1/4" x 6" | 25 | 1/2" x 6" | 25 | 1" x 7" | 25 | 1 1/2" x 7" | 10 | 2 1/2" x 9" | 10 | 4" x 12" | 10 |
| 1/4" x 7" | 25 | 1/2" x 7" | 25 | 1" x 8" | 25 | 1 1/2" x 8" | 10 | 2 1/2" x 10" | 10 | | |
| 1/4" x 8" | 25 | 1/2" x 8" | 25 | 1" x 9" | 25 | 1 1/2" x 9" | 10 | 2 1/2" x 11" | 10 | | |
| 1/4" x 9" | 25 | 1/2" x 9" | 25 | 1" x 10" | 25 | 1 1/2" x 10" | 10 | 2 1/2" x 12" | 10 | | |
| 1/4" x 10" | 25 | 1/2" x 10" | 25 | 1" x 11" | 25 | 1 1/2" x 11" | 10 | | | | |
| 1/4" x 11" | 25 | 1/2" x 11" | 25 | 1" x 12" | 25 | 1 1/2" x 12" | 10 | | | | |
| 1/4" x 12" | 25 | 1/2" x 12" | 25 | | | | | | | | |

SUBMITTAL INFORMATION

- Standards

WW-U-516B, MIL-U-18249
A0A059617, ASME B16.24-1991
MSS SP-25, MSS SP-9, MSS SP-6

- Country of Origin - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



A.Y. McDonald Mfg. Co.
P.O. Box 508
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www.aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

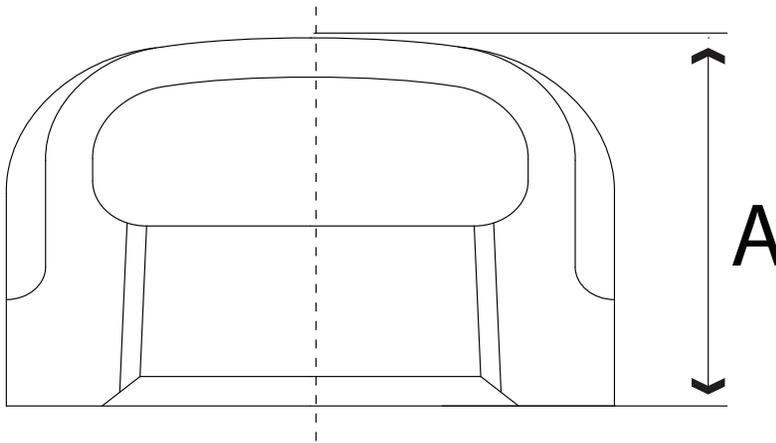
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Brass Pipe Fittings Brass Cap - No-Lead - 72201D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | Ctn Qty | Wt. |
|--------|-------|---------|------|
| 1/4" | 0.63" | 25 | 0.06 |
| 3/8" | 0.68" | 25 | 0.1 |
| 1/2" | 0.80" | 25 | 0.1 |
| 3/4" | 0.90" | 25 | 0.1 |
| 1" | 1.08" | 25 | 0.3 |
| 1 1/4" | 1.12" | 25 | 0.5 |
| 1 1/2" | 1.17" | 25 | 0.6 |
| 2" | 1.36" | 10 | 0.9 |
| 3" | | 5 | |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- Country of Origin - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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Submitted by:

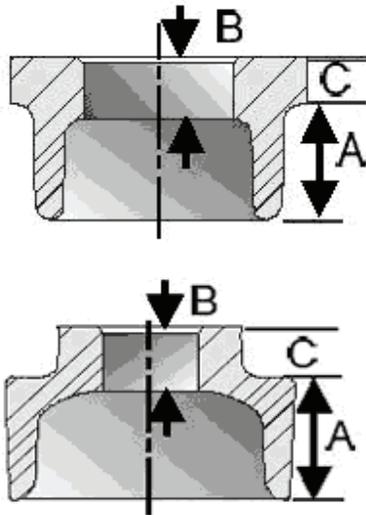
SUBMITTAL DATA SHEET

No-Lead Brass 125Lb. Domestic Threaded Hex Bushing Hex Bushing - 72206D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.

Dimensions



| Size | A | B | C | Ctn Qty |
|-----------------|------|------|------|---------|
| 1/2" x 1/8" | | | | 25 |
| 1/2" x 1/4" | | | | 25 |
| 1/2" x 3/8" | | | | 25 |
| 3/4" x 1/8" | | | | 25 |
| 3/4" x 1/4" | 0.93 | 1.18 | | 25 |
| 3/4" x 3/8" | | | | 25 |
| 3/4" x 1/2" | | | | 25 |
| 1" x 1/8" | | | | 25 |
| 1" x 1/4" | 0.75 | 0.32 | 0.30 | 25 |
| 1" x 3/8" | 0.75 | 0.36 | 0.30 | 25 |
| 1" x 1/2" | 0.75 | 0.43 | 0.25 | 25 |
| 1" x 3/4" | 0.75 | 0.50 | 0.25 | 25 |
| 1 1/4" x 1/8" | | | | 25 |
| 1 1/4" x 1/4" | | | | 25 |
| 1 1/4" x 3/8" | | | | 25 |
| 1 1/4" x 1/2" | 0.80 | 0.43 | 0.34 | 25 |
| 1 1/4" x 3/4" | 0.80 | 0.50 | 0.28 | 25 |
| 1 1/4" x 1" | 0.80 | 0.58 | 0.28 | 25 |
| 1 1/2" x 1/8" | | | | 25 |
| 1 1/2" x 1/4" | | | | 25 |
| 1 1/2" x 3/8" | | | | 25 |
| 1 1/2" x 1/2" | 0.83 | 0.43 | 0.37 | 25 |
| 1 1/2" x 3/4" | 0.83 | 0.50 | 0.37 | 25 |
| 1 1/2" x 1" | 0.83 | 0.58 | 0.31 | 25 |
| 1 1/2" x 1 1/4" | 0.83 | 0.71 | 0.31 | 25 |
| 2" x 1/8" | | | | 10 |
| 2" x 1/4" | | | | 10 |

| Size | A | B | C | Ctn Qty |
|-----------------|------|------|------|---------|
| 2" x 3/8" | | | | 10 |
| 2" x 1/2" | | | | 10 |
| 2" x 3/4" | | | | 10 |
| 2" x 1" | 0.88 | 0.58 | 0.41 | 10 |
| 2" x 1 1/4" | 0.88 | 0.67 | 0.34 | 10 |
| 2" x 1 1/2" | 0.88 | 0.70 | 0.34 | 10 |
| 2 1/2" x 1/2" | | | | 5 |
| 2 1/2" x 3/4" | | | | 5 |
| 2 1/2" x 1" | | | | 5 |
| 2 1/2" x 1 1/4" | | | | 5 |
| 2 1/2" x 1 1/2" | | | | 5 |
| 2 1/2" x 2" | 1.07 | 0.75 | 0.37 | 5 |
| 3" x 1/2" | | | | 5 |
| 3" x 3/4" | | | | 5 |
| 3" x 1" | | | | 5 |
| 3" x 1 1/4" | | | | 5 |
| 3" x 1 1/2" | | | | 5 |
| 3" x 2" | | | | 5 |
| 3" x 2 1/2" | | | | 5 |
| 4" x 3/4" | | | | 1 |
| 4" x 1" | | | | 1 |
| 4" x 1 1/4" | | | | 1 |
| 4" x 1 1/2" | | | | 1 |
| 4" x 2" | | | | 1 |
| 4" x 2 1/2" | | | | 1 |
| 4" x 3" | | | | 1 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- **Country of Origin** - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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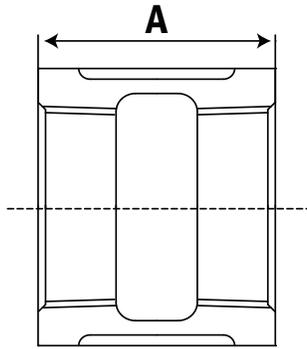
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125Lb. Domestic Threaded Fitting Brass Coupling - 72210D

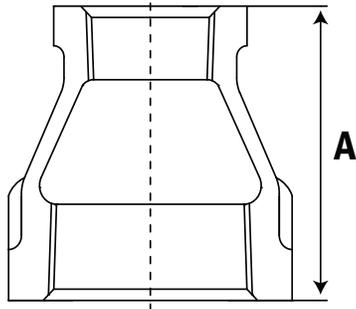


A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Brass Coupling - 72210

| Item Number | Size | Dimensions A | Carton Qty | Weight Per Pcs. |
|-------------|-------|--------------|------------|-----------------|
| 72210 | 1/4 | 0.97 | 25 | 0.1 |
| 72210 | 3/8 | 1.05 | 25 | 0.1 |
| 72210 | 1/2 | 1.29 | 25 | 0.1 |
| 72210 | 3/4 | 1.43 | 25 | 0.2 |
| 72210 | 1 | 1.68 | 25 | 0.4 |
| 72210 | 1 1/4 | 1.86 | 25 | 0.6 |
| 72210 | 1 1/2 | 1.92 | 10 | 0.8 |
| 72210 | 2 | 2.20 | 10 | 1.3 |
| 72210 | 2 1/2 | 2.88 | 5 | 2.6 |



Brass Reducing Coupling - 72210

| Item Number | Size | Dimensions A | Carton Qty | Weight Per Pcs. |
|-------------|---------------|--------------|------------|-----------------|
| 72210 | 3/8 x 1/4 | 1.01 | 25 | 0.1 |
| 72210 | 1/2 x 1/4 | 1.13 | 25 | 0.1 |
| 72210 | 1/2 x 3/8 | 1.17 | 25 | 0.1 |
| 72210 | 3/4 x 1/4 | 1.24 | 25 | 0.2 |
| 72210 | 3/4 x 3/8 | 1.24 | 25 | 0.2 |
| 72210 | 3/4 x 1/2 | 1.36 | 25 | 0.2 |
| 72210 | 1 x 1/2 | 1.49 | 25 | 0.3 |
| 72210 | 1 x 3/4 | 1.56 | 25 | 0.4 |
| 72210 | 1 1/4 x 1 | 1.77 | 10 | 0.5 |
| 72210 | 1 1/2 x 1 | 1.8 | 10 | 0.6 |
| 72210 | 1 1/2 x 1 1/4 | 1.89 | 10 | 0.9 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- **Country of Origin** - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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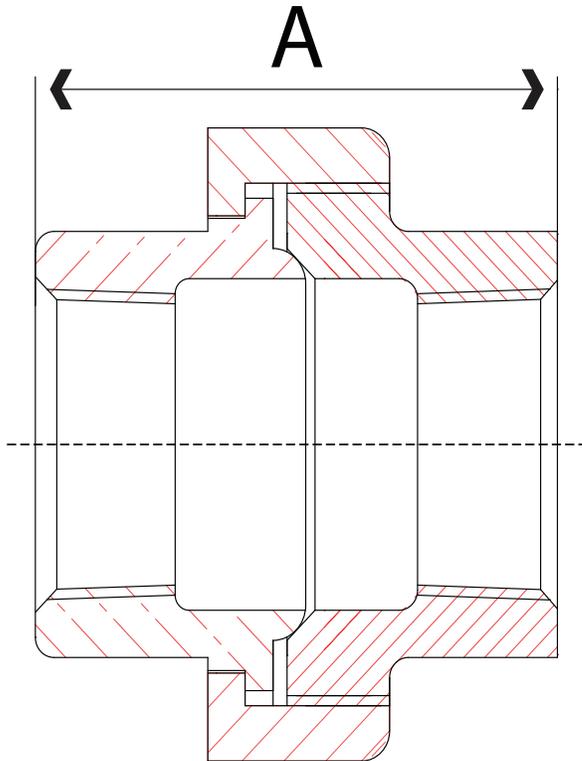
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Bronze Pipe Fittings Brass Unions - No-Lead - 72220D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | Ctn Qty | Wt. |
|--------|-------|---------|-----|
| 1/4" | 1.50" | 25 | 0.2 |
| 3/8" | 1.53" | 25 | 0.3 |
| 1/2" | 1.81" | 25 | 0.5 |
| 3/4" | 1.93" | 25 | 0.7 |
| 1" | 2.11" | 10 | 1.1 |
| 1 1/4" | 2.37" | 5 | 1.6 |
| 1 1/2" | 2.60" | 5 | 2.0 |
| 2" | 2.91" | 3 | 3.2 |
| 2 1/2" | 3.30" | 1 | 5.3 |
| 3" | 3.60" | 1 | 6.9 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- Country of Origin - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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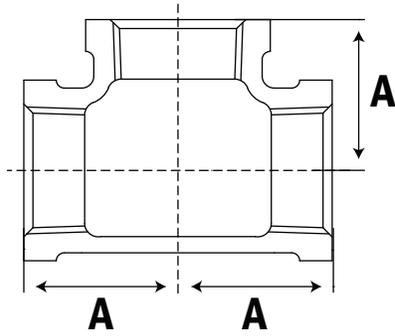
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125Lb. Domestic Threaded Fitting Brass Tee - 72230D

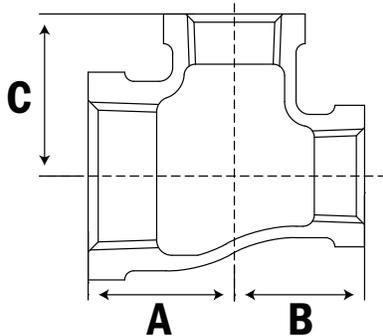


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Brass Tee - 72230

| Item Number | Size | Dimensions A | Carton Qty | Weight Per Pcs. |
|-------------|-------|--------------|------------|-----------------|
| 72230 | 1/4 | 0.71 | 25 | 0.1 |
| 72230 | 3/8 | 0.82 | 25 | 0.2 |
| 72230 | 1/2 | 1.01 | 25 | 0.3 |
| 72230 | 3/4 | 1.18 | 25 | 0.5 |
| 72230 | 1 | 1.43 | 10 | 0.8 |
| 72230 | 1 1/4 | 1.69 | 5 | 1.2 |
| 72230 | 1 1/2 | 1.84 | 5 | 1.6 |
| 72230 | 2 | 2.12 | 4 | 2.7 |



Brass Reducing Tee - 72230

| Item Number | Size | Dimensions | | | Carton Qty | Weight Per Pcs. |
|-------------|------------------------|------------|------|------|------------|-----------------|
| | | A | B | C | | |
| 72230 | 1 x 1/2 | 1.20 | 1.20 | 1.24 | 10 | 0.6 |
| 72230 | 1 1/4" x 1/2" 1 1/4" | | | | 5 | |
| 72230 | 1 1/4" x 3/4" x 1 1/4" | | | | 5 | |
| 72230 | 1 1/4 x 1/2 | 1.29 | 1.29 | 1.41 | 10 | 0.8 |
| 72230 | 2 x 3/4 | 1.47 | 1.47 | 1.84 | 5 | 1.9 |
| 72230 | 2 x 1 | 1.59 | 1.59 | 1.95 | 5 | 2.0 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- **Country of Origin** - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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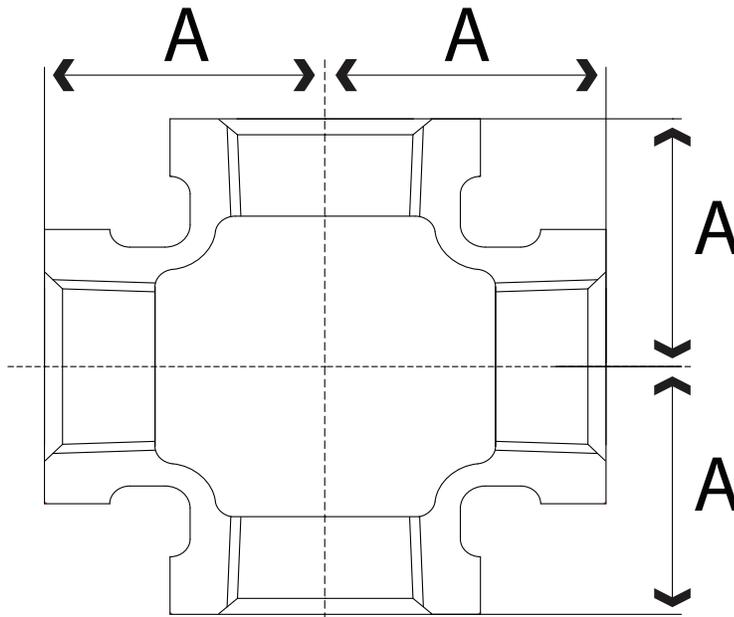
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Bronze Pipe Fittings Brass Cross - No-Lead - 72240D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | Ctn Qty | Wt. |
|--------|-------|---------|-----|
| 1/4" | 0.71" | 5 | 0.2 |
| 3/8" | 0.82" | 5 | 0.1 |
| 1/2" | 1.01" | 5 | 0.4 |
| 3/4" | 1.18" | 5 | 0.7 |
| 1" | 1.43" | 5 | 1.0 |
| 1 1/4" | 1.69" | 5 | 1.6 |
| 1 1/2" | 1.84" | 5 | 2.1 |
| 2" | 2.12" | 5 | 3.2 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- Country of Origin - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



A.Y. McDonald Mfg. Co.
P.O. Box 508
Dubuque, IA 52004-0508

Toll Free: 1-800-292-2737
Fax: 1-800-832-9296
Hours: 7:00 a.m. - 5:00 p.m., CST

sales@aymcdonald.com
www.aymcdonald.com

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

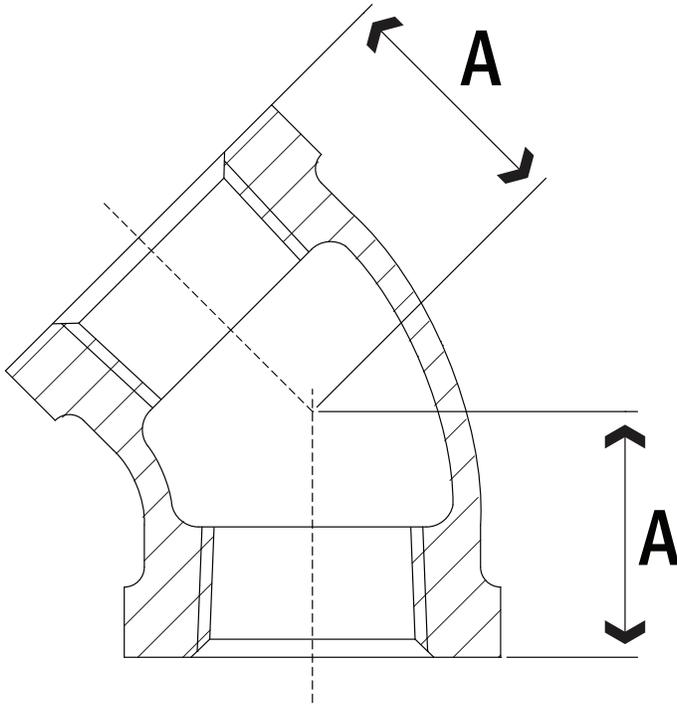
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Bronze Pipe Fittings 45° Brass Elbow - No-Lead - 72245D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | Ctn Qty | Wt. |
|------|-------|---------|-----|
| 2" | 1.45" | 5 | 1.7 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- Country of Origin - USA

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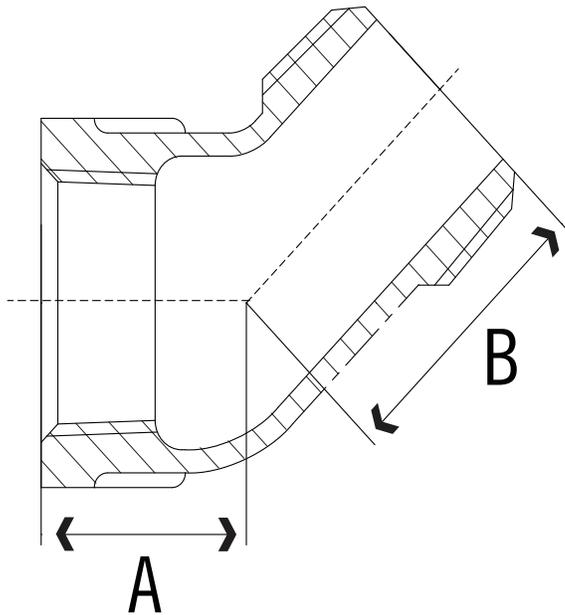
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Bronze Pipe Fittings 45° Brass Street Elbow - No-Lead - 72246D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | B | Wt. |
|--------|------|------|------|
| 1/8" | 0.42 | 0.78 | 0.05 |
| 1/4" | 0.56 | 0.88 | 0.1 |
| 3/8" | 0.63 | 0.92 | 0.1 |
| 1/2" | 0.78 | 1.06 | 0.2 |
| 3/4" | 0.89 | 1.23 | 0.3 |
| 1" | 1.06 | 1.40 | 0.5 |
| 1 1/4" | 1.22 | 1.64 | 0.7 |
| 1 1/2" | 1.30 | 1.80 | 1.0 |
| 2" | 1.45 | 2.14 | 1.5 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- **Country of Origin** - USA

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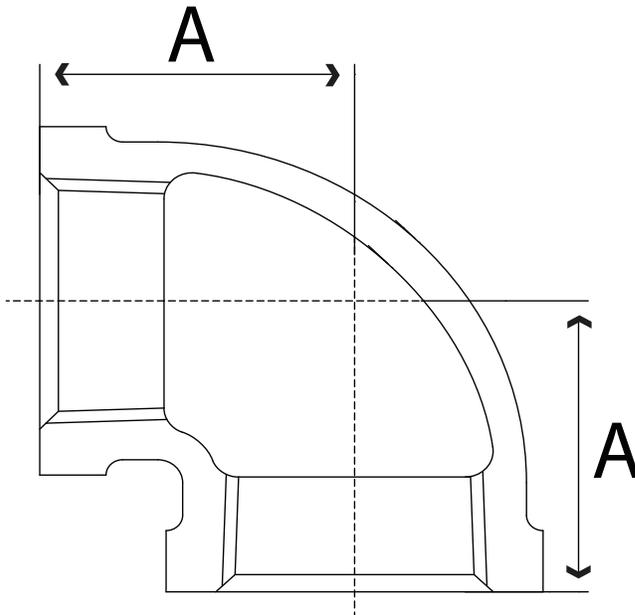
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Brass Pipe Fittings 90° Brass Elbow - No-Lead - 72290D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



Dimensions

| Size | A | Ctn Qty | Wt. |
|--------|-------|---------|-----|
| 1/4" | 0.71" | 25 | 0.1 |
| 3/8" | 0.82" | 25 | 0.1 |
| 1/2" | 1.01" | 25 | 0.2 |
| 3/4" | 1.18" | 25 | 0.3 |
| 1" | 1.43" | 25 | 0.6 |
| 1 1/4" | 1.69" | 10 | 0.9 |
| 1 1/2" | 1.84" | 5 | 1.2 |
| 2" | 2.12" | 5 | 2.0 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- **Country of Origin** - USA

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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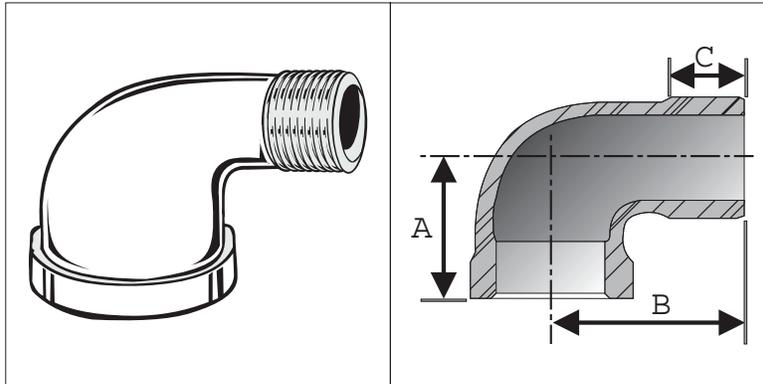
Submitted by:

SUBMITTAL DATA SHEET

No-Lead 125LB Domestic Threaded Bronze Pipe Fittings 90° Brass Street Elbow - 72291D



A.Y. McDonald Mfg. Co. No-Lead Domestic Pipe Fittings & Nipples are constructed from heavy duty brass and are rated for commercial, industrial and residential applications up to 125 WOG. Threads conform to ANSI B1.20.1 and fitting dimensions comply with ANSI B16.15.



| Item Number | Size | Dimensions | | | Ctn Qty | Weight Per Pcs. |
|-------------|--------|------------|------|------|---------|-----------------|
| | | A | B | C | | |
| 72291 | 1/4" | 0.72 | 1.11 | 0.32 | 25 | 0.073 |
| 72291 | 3/8" | 0.83 | 1.24 | 0.35 | 25 | 0.175 |
| 72291 | 1/2" | 1.03 | 1.51 | 0.45 | 25 | 0.239 |
| 72291 | 3/4" | 1.19 | 1.66 | 0.50 | 25 | 0.330 |
| 72291 | 1" | 1.43 | 1.98 | 0.58 | 25 | 0.69 |
| 72291 | 1 1/4" | 1.71 | 2.26 | 0.67 | 10 | 1.059 |
| 72291 | 1 1/2" | 1.87 | 2.46 | 0.75 | 5 | 1.277 |
| 72291 | 2" | 2.14 | 2.98 | 0.78 | 5 | 1.95 |

SUBMITTAL INFORMATION

- **Standards**
NSF / ANSI Standard 61-2012, AB1953,
ASTM B5841 UNS# C89833 (lead free),
ASTM B584 UNS# C86470 (lead free),
ANSI / ASME B16.15
ANSI / ASME B1.20.1
WW-P-460D
- **Markings** - Manufacturer's logo, Size, "LF"
- Country of Origin - USA

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