



**Bid Number 50 - 123263**

One year contract for a supply of couplings, restraining devices & related gaskets for the Jefferson Parish Department of Public Works – Water & Sewerage and all Jefferson Parish Agencies & Municipalities.

**June 28, 2018 AT 2:00 PM**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Donna Reamey  
Dreamey@Jeffparish.net  
504-364-2684**

**Couplings and Restraints**  
**Contract**

**Items Included In This Contract:**

1. Steel Body Transitional Couplings (Non-Restrained)
2. Ductile Iron Body Transitional Couplings (Non-Restrained)
3. Flange Coupling Adapter (Non-Restrained)
4. Flange Coupling Adapter (Restrained)
5. EBAA Series 1000 E-Z Flange
6. EBAA Series 1100DEC Megalug Mechanical Joint Restraint
7. EBAA Series 1500 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12")
8. EBAA Series 1600 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12")
9. EBAA Series 1700 Megalug Restraint Harness For Ductile Iron Bells
10. EBAA Series 2000PEC Mechanical Joint Restraint
11. Transition Gaskets (Asbestos Cement To Cast Iron)
12. Mechanical Joint Gaskets (For Ductile Iron Pipe)
13. Pipe Lubricant

**Contract Terms:**

This is a one year contract for supply of couplings, restraining devices, and the related gaskets for the Department of Water and Sewer, and all Jefferson Parish agencies and municipalities.

**Warranty:**

Products shall be warranted that they are manufactured in accordance with the applicable material specifications and are free from defects in workmanship and materials for one year after delivery. Any defective items sold under this contract shall be replaced at no cost to the purchaser.

**General Specifications:**

This specification is prepared for a one (1) year contract for a supply of couplings, restraining devices and related gaskets for the Parish of Jefferson, Department of Water and Sewerage, East and West Banks.

The quantities shown on the proposal guide are approximate quantities to be acquired by Jefferson Parish over a one (1) year period. Actual usage will be on an "as needed" basis.

Bid price shall include all freight and delivery costs to Jefferson Parish warehouse locations on the East and West Banks of Jefferson Parish.

The successful bidder shall not substitute any items on this bid throughout the one (1) year period without the written consent of the Jefferson Parish Engineering Dept.

# SPECIFICATIONS FOR BID # 50-123263

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**All technical literature must be submitted with the bid. Failure to honor such request will result in the bid being considered non-responsive.**

## **Technical Specifications:**

1. **Steel Body Transition Couplings 2"-24" (Non-Restrained):**

Coupling shall accommodate pipe offset up to 7/16", pipe deflection up to 8 degrees, and pipe gaps up to 7.5.

Coupling shall join pipes with difference diameters up to 1.30" (2.10" in the 16" size).

Coupling shall be of the long pattern design and meet or exceed AWWA C-219 and be NSF 61 approved.

Couplings shall have a working pressure of 260 PSI with a maximum test pressure of 390 PSI with a 1.5:1 safety factor.

- **Material:**

Transition couplings shall have a lightweight middle ring that is properly flanged with confined steel followers. Transition coupling shall have an epoxy coating of 10-12 mils in thickness.

- **Follower Track (Spanners):**

Follower track (spanners) shall be type 304 stainless steel with two (2) type 304 stainless steel carriage-type, compression bolts and nuts with corresponding stainless steel retainers (one at each end) located on the top of the coupling. Nuts shall be coated to prevent galling.

- **Gaskets:**

Gaskets shall be wide range, multi-layered EDPM peel-off hydraulically pressure assisted, superior dual seal gaskets (seals mechanically and hydraulically) for permanently sealed joints.

- **Assembly:**

Coupling shall be totally assembled as in integral unit having stab-on feature, with bolts staved to prevent disassembly and required no disassembly during installation.

Coupling shall be "Hymax" or approved equal.

2. **Ductile Iron Body Transition Couplings 4"-12" (Non-Restrained):**

Coupling shall accommodate pipe deflection up to 8 degrees (4 degrees on each end).

## SPECIFICATIONS FOR BID # 50-123263

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Coupling shall have an extended range up to 1.25".

Coupling coating shall be center ring fusion bonded epoxy in accordance with AWWA C213 and NSF 61 certified. End rings shall be e-coated epoxy.

Couplings shall have a working pressure of 260 PSI.

- **Material:**  
Transition coupling components (end rings, center ring, and bolt guides) shall be ductile iron, meeting or exceeding the requirements of ASTM A536, Grade 65-45-12.
- **Follower Track (Spanners):**  
Follower track (spanners) shall be type 304 stainless steel with two (2) type 304 stainless steel carriage-type, compression bolts and nuts with corresponding stainless steel retainers (one at each end) located on the top of the coupling. Nuts shall be coated to prevent galling.
- **Gaskets:**  
Gaskets shall be formed from virgin nitrile butadiene rubber (NBR) compounded for water and sewer service in accordance with ASTM D2000.
- **Assembly:**  
Coupling shall be totally assembled as in integral. End rings shall be segmented and joined with an integrated hinge.

Coupling shall be Macro™ by Romac or an approved equal.

### **3. Flanged Coupling Adapters (Non-Restrained):**

Adapter shall meet or exceed AWWA c-219 and be NSF 61 approved, but shall have one compression end with one nut and bolt, and one flanged end which complies with AWWA C-207-94 or ANSI B16-5.

Please note that the 2" flanged coupling adapter shall be available in 2" oval meter flanged size.

Flanged coupling adapter shall be "Hymax Flanged Adapter" or an approved equal.

### **Note to Vendor:**

The coating system for all restraining devices shall be mega bond by EBAA Iron, Inc. or an approved (factory applied, fusion bonded epoxy) equal.

## SPECIFICATIONS FOR BID # 50-123263

**4. Flange Coupling Adapters (Restrained) (Ductile/Cast Iron Pipe, 3"-60"; Steel Pipe, 3"-12"):**

Pipe Material	DR Rating	Sizes Available
IPS OD PVC Pipe	All SDR's	3"-12"
C-900	14	4"-12"
C-900	18	4"-20"
C-900	25	4"-24"
C-900	32.5	14"-24"

For PVC pipe, the flange adapter shall have a pressure rating equal to the pipe.

For ductile iron pipe, the flange adapter shall have a safety factor of 2:1 minimum.

The flange adapter shall be UL listed 3"-12" for above and below ground use on schedule 40 steel pipes, and below-ground on all classes of listed ductile iron pipe.

The flange adapter shall be FM approved for use on C-900 Class 150 (DR-18) and class 200 (DR-14 PVC pipe, 4"-12", and on all classes of listed ductile iron pipe, and for above ground flanged pipe systems (treatment plants, pumping stations, or underground).

- **Restrained Gland And Gasket Ring:**

The flange adapter restrained gland and gasket ring shall be made of grade 60-42-12 ductile iron, which exceeds the minimum requirements of ASTM A-536-84, and shall have flange bolts circles that are compatible with ANSI/AWWA C-115/1-21.15. The flange adapter gasket ring shall be fusion-bonded epoxy coated inside and out.

- **Flange Adapter Restraint Ring:**

The flange adapter restraint ring shall consist of a plurality of individual actuated gripping wedges to maximize restraint capability. Torque-limiting actuated screws shall be used to ensure proper initial set of the gripping wedges.

- **Assembly:**

The flange adapter shall be capable of deflecting during assembly, or permit lengths of pipe to be field cut to allow a minimum of 0.6" of gap through 2.0" of gap (depending on pipe diameter) between the end of the pipe and the mating flange without affecting the integrity of the seal.

- **Nuts and Bolts:**

The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.

Flange adapter shall be EBAA Series 2100 "Megaflange" adapter, or an approved equal.

## SPECIFICATIONS FOR BID # 50-123263

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5. **EBAA Series 1000 E-Z Flange:**

The flange adapter shall be used in lieu of threaded or welded flanges on plain end ductile iron and steel pipe.

These flanges shall be cast from 60-42-10 ductile iron per ASTM A536 and shall have bolt circles and bolt holes to meet ANSI/AWWA C100/A21.10.

These flanges shall contain set screws made from ductile iron which have a Rockwell hardness of C40-45 converted from Brinnell.

Flange adapters shall be as manufactured by EBAA Iron, Inc. or an approved equal.

6. **Series 110DEC Megalug Mechanical Joint Restraint:**

The wedges shall be ductile iron heat treated to a minimum hardness of 370 BHN. Dimensions of the gland shall be such that it can replace the standardized mechanical joint gland, and can be used with the standardized mechanical joint bell conforming to ANSI/AWWA C111/a21.11 and ANSI/AWWA C153/A.21.53 of the latest revision.

The mechanical joint restraint shall be available in the 3" through 48" sizes. They shall have a rated working pressure of 350 PSI in sizes 16" and smaller and 250 PSI in sizes 18" through 48" with 2 to 1 minimum safety factor. The devices shall be listed by Underwriter's Laboratories up through 24" size and approved by factory mutual up through 12" size.

All restraints shall be packaged. The package is to include the gland, EBAA-seal improved mechanical joint gasket and adequate lubricate for gasket lubrication, necessary quantity, size and length of t-bolts and nuts made from a low-alloy steel conforming to AWWA C-111 and be blue flora polymer coated equal to xylon coating.

The EBAA-seal gasket shall deflect 30% during assembly of the mechanical joint, improving sealing capabilities and shall meet in design and material, ANSI/AWWA C110/A21.10, C111/A21.11 or C153/A21.53, section 11-6.4 or latest revision.

The restraint shall be the series 110DEC Megalug restraint produced by EBAA Iron, Inc. or approved equal.

- **Mechanical Joint Restraint For Ductile Iron Pipe:**

Mechanical joint restraint for ductile iron pipe shall be incorporated into the design of the follower gland. The restraining mechanism shall consist of a plurality of individual actuated wedges that increase their resistance to pullout as internal pressure or external forces increase; the device shall be capable of full mechanism joint deflection during assembly and the flexibility of the joint shall be maintained after burial. The joint restraint ring and its wedging components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536-84.

## SPECIFICATIONS FOR BID # 50-123263

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- **Flange Adapter Restraint Ring:**  
The flange adapter restraint ring shall consist of a plurality of individual actuated gripping wedges to maximize restraint capability. Torque-limiting actuated screws shall be used to ensure proper initial set of the gripping wedges.
  - **Assembly:**  
The flange adapter shall be capable of deflecting during assembly, or permit lengths of pipe to be field cut to allow a minimum of 0.6" of gap through 2.0" of gap (depending on pipe diameter) between the end of the pipe and the mating flange without affecting the integrity of the seal.
  - **Nuts and Bolts:**  
The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.
7. **Series 1500 Split Restraint Harness For C-900 Pipe Bells and Spigot (4"-12"):**  
All rings and components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536. A split ring shall be utilized behind the pipe bell. A split serrated ring shall be utilized to grip the pipe.
- **Tie Bolts:**  
A sufficient quantity, size and length of tie bolts which shall be made from a low-alloy steel conforming to AWWA C111. Tie bolts shall be used to connect the bell ring and gripping ring.
  - **Side Bolts:**  
The side bolts shall be grade 5 machine bolts and be blue flora polymer coated equal to xylon coating.
  - **Harness Restraint Device:**  
The harness restraint device shall have a minimum working pressure rating of 150 psi, and be tested with a minimum of 4 to 1 safety factor. All sizes shall be FM approved for class 150 (DR 18) PVC pipe. All sizes rated to 200 PSI class 200 (DR 14) PVC pipe shall have a 3 to 1 safety factor, and shall be EBAA Series 1500 or an approved equal.
8. **Series 1600 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12"):**  
All rings and components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536. A split ring shall be utilized behind the pipe bell. A split serrated ring shall be utilized to grip the pipe.
- **Tie Bolts:**  
A sufficient quantity, size and length of tie bolts which shall be made from a low-alloy steel conforming to AWWA C111. Tie bolts shall be used to connect the bell ring and gripping ring.

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- **Side Bolts:**  
The side bolts shall be grade 5 machine bolts and be blue flora polymer coated equal to xylon coating.
  - **Harness Restraint Device:**  
The harness restraint device shall have a minimum working pressure rating of 150 PSI, and be tested with a minimum of 4 to 1 safety factor. All sizes shall be FM approved for class 150 (DR 18) PVC pipe. All sizes rated to 200 PSI class 200 (DR 14) PVC pipe shall have a 3 to 1 safety factor, and shall be EBAA series 1600 or an approved equal.
9. **Series 1700 Megalug Restraint Harness for Ductile Iron Bells:**  
Ductile iron pipe bell restraint shall consist of a wedge action restraint ring on the spigot and joined to a ductile iron pipe follower gland behind the bell. The restraint ring shall have individually-actuated wedges that increase their resistance to pull out as pressure or external forces increases.
- **Restraint Ring and Wedging Components:**  
The restraint ring and its wedging components shall be made of ductile iron grade 60-42-12, which exceeds minimum requirements of ASTM A536.
  - **Wedges:**  
The wedges shall be heat-treated to a minimum hardness of 370 BHN. Torque limiting twist off nuts shall be used to ensure proper actuation of the restraining wedges.
  - **Follower Gland:**  
The follower gland shall be made of the same grade ductile iron as previously mentioned. The connecting tie rods that join the two rings shall be of low alloy steel, which conforms to ANSI/AWWA C111/A21.11.
  - **Assembly:**  
The assembly shall have a rated pressure with a minimum 2:1 safety factor for 350 PSI in sizes 16" and below, and 250 psi in sizes 18" through 36".
  - **Harness:**  
Harness shall be series 1700 Megalug restraint harness manufacture by EBAA Iron, or an approved equal.
  - **Nuts and Bolts:**  
The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.

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### **10. Series 2000 PEC Mechanical Joint Restraint:**

The mechanical joint restraint shall be available in 3" through 36" sizes. The restraining joint gland shall have a pressure rating and safety factor equal to that of the pipe on which it is used.

Mechanical joint restraint for PVC pipe shall be incorporated into the design of the follower gland. The restraint mechanism shall consist of a plurality of individually-actuated gripping wedges that increases their resistance to pullout as internal pressure or external forces increase. This evenly distributes the thrust forces around the circumference of the pipe, and is for use on all sizes of IPS diameter PVC pipe in 3" through 12" sizes, and all sizes of AWWA C-900 and C-905 pipe (4" through 36"). The device shall be capable of full mechanical joint deflection during assembly and flexibility of the joint shall be maintained after burial. The joint restraint ring and its wedging components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536.

Dimensions of the gland shall be such that it replaces the standardized mechanical joint gland and can be used with the standardized mechanical joint bell conforming to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 of latest revision. Torque limiting twist off nuts shall be used to insure proper actuating of restraining wedges.

- **Restraining Gland:**

The restraining glands shall have been tested to ASTM F1674, and all sizes shall be rated at the full pressure capacity of the pipe. The mechanical joint restraint shall be listed by Underwriter's Laboratories, and approved by factory mutual (4"-12").

- **Packaging:**

All restraints shall be packaged. The package is to include gland, EBAA-seal(tm) improved mechanical joint gasket with adequate lubricant for gasket, necessary quantity, size and length of t-bolts and nuts made from a low-alloy steel conforming to AWWA C111 and be blue flora polymer coated equal to xylon coating.

- **EBAA-Seal™ Gasket:**

The EBAA-Seal™ gasket shall deflect 30% during assembly of the mechanical joint improving sealing capabilities and shall meet in design and material the ANSI/AWWA C110/A21.10, C111/A21.11, or C153/A21.53, section 11-6.4 or latest revision.

The restraint shall be the series 2000 PEC Megalug restraint produced by EBAA Iron, Inc. or approved equal.

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**11. Transition Gaskets (Asbestos Cement to Cast Iron):**

Transition gaskets shall go from asbestos cement (ac) size down to cast iron size to be used on potable water and sewer lines, made from virgin SBR rubber material for use in salty and acidic soils with a temperature range of -65 degrees to 180 degrees Fahrenheit. Transition gaskets shall conform to the latest revision of ASTM D2000 3 BA715 to work with class 100, 150, and 200 machined "AC" pipe and ductile iron pipe Class 53.

Transition gaskets shall be manufactured by Romac Industries or an approved equal.

**12. Mechanical Joint Gaskets (For Ductile Iron Pipe):**

Mechanical joint gaskets for ductile iron pipe shall be used on potable water and sewer lines. Virgin SBR rubber material for the use in salty and acidic soils with a temperature range of -40 degrees to 150 degrees Fahrenheit, meet or exceed ASTM D2000 3 BA715, and to fit ANSI/AWWA A21.11/C111 and ANSI/AWWA A21.53/C153 latest revision standard, 250 PSI working pressure.

**13. Pipe Lubricant:**

Pipe lubricant shall be used for potable and waste water applications. Pipe lubricant shall be non-toxic, odorless, tasteless, and not be able to support bacterial growth. Lubricant shall come in one quart containers and be used to assemble "push-on" pipe and fittings.

DATE: 6/13/2018  
BID NO.: 50-00123263

INVITATION TO BID  
THIS IS NOT AN ORDER

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**JEFFERSON PARISH**

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

BUYER: DREAMY@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, 6/28/2018 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](http://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 via email to the buyer's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. 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.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

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](http://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 stated 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. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
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 or 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 \_\_\_\_\_.

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

7-9 Days

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

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME: Cimsco

ADDRESS: 1840 LTA RD

CITY, STATE: METairie, LA ZIP: 70001

TELEPHONE: (504) 835-7319 FAX: (504) 832-0820

EMAIL ADDRESS: JEFF@CIMS.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: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ 274833.07

AUTHORIZED SIGNATURE: [Signature]  
TITLE: SALES

JEFF DeVillar  
Printed Name

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.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			ONE YEAR CONTRACT FOR A SUPPLY OF COUPLINGS, RESTRAINING DEVICES & RELATED GASKETS FOR JEFFERSON PARISH DEPT. OF PUBLIC WORKS - WATER & SEWERAGE AND ALL JEFF. PARISH AGENCIES & MUNICIPALITIES.		
1	2.00	EA	0010 3 INCH FLANGE RESTRAINER PART #1003 (38418)	18.25	36.50
2	2.00	EA	0020 4 INCH FLANGE RESTRAINER PART #1004 (38417)	26.04	52.08
3	2.00	EA	0030 6 INCH FLANGE RESTRAINER PART #1006 (38415)	36.71	73.42
4	2.00	EA	0040 8 INCH FLANGE RESTRAINER PART #1008 (38416)	37-	74-
5	2.00	EA	0050 10 INCH FLANGE RESTRAINER PART #1010 (38419)	54.59	109.18
6	2.00	EA	0060 12 INCH FLANGE RESTRAINER PART #1012 (38411)	52.34	104.68
7	2.00	EA	0070 14 INCH FLANGE RESTRAINER PART #1014 (38412)	129.31	258.62
8	2.00	EA	0080 16 INCH FLANGE RESTRAINER PART #1016 (38413)	168.60	337.20
9	2.00	EA	0090 18 INCH FLANGE RESTRAINER PART #1018 (38424)	199.64	399.28
10	2.00	EA	0100 20 INCH FLANGE RESTRAINER PART #1020 (38420)	239.36	478.72
11	2.00	EA	0110 24 INCH FLANGE RESTRAINER PART #1024 (38414)	292.67	585.34
12	2.00	EA	0120 4 INCH BELL RESTRAINT HARNESS C900	36.20	72.40

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
13	16.00	EA	SPLIT SERRATED RING PART #1504 (51240)  0130 6 INCH BELL RESTRAINT HARNESS C900	48.56	776.96
14	2.00	EA	SPLIT SERRATED RING PART #1506 (51241)  0140 8 INCH BELL RESTRAINT HARNESS C900 SPLIT SERRATED RING  PART #1508 (51242)	78.30	156.60
15	2.00	EA	0150 4 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1604	37.08	74.16
16	2.00	EA	0160 6 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1606 (51241A)	48.86	97.72
17	2.00	EA	0170 8 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1608 (51242A)	68.07	136.14
18	2.00	EA	0180 10 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1610 (51243)	86.95	173.90
19	2.00	EA	0190 4 INCH BELL RESTRAINT HARNESS D.I. PART #1704	22.66	45.32
20	2.00	EA	0200 6 INCH BELL RESTRAINT HARNESS D.I.  PART #1706	40.63	81.26
21	1.00	EA	0210 8 INCH BELL RESTRAINT HARNESS D.I.  PART #1708	45.20	45.20
22	2.00	EA	0220 10 INCH BELL RESTRAINT HARNESS D.I. PART #1710 (51254)	78.07	156.14

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
23	2.00	EA	0230 12 INCH BELL RESTRAINT HARNESS D.I. PART #1712	98.27	196.54
24	2.00	EA	0240 14 INCH BELL RESTRAINT HARNESS D.I. PART #1714	100.40	200.80
25	2.00	EA	0250 16 INCH BELL RESTRAINT HARNESS D.I. PART #1716 (51253)	202.65	405.30
26	2.00	EA	0260 18 INCH BELL RESTRAINT HARNESS D.I. PART #1718	215.92	431.84
27	2.00	EA	0270 20 INCH BELL RESTRAINT HARNESS D.I. PART #1720	303.82	607.64
28	2.00	EA	0280 24 INCH BELL RESTRAINT HARNESS D.I. PART #1724	404.20	808.40
29	2.00	EA	0290 30 INCH BELL RESTRAINT HARNESS D.I. PART #1730	713.97	1427.94
30	2.00	EA	0300 36 INCH BELL RESTRAINT HARNESS D.I. PART #1736	1050.97	2101.94
31	2.00	EA	0310 1.5 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0213-260  (17980)	93.40	186.80
32	2.00	EA	0320 2 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0303-260  (17981)	100.45	200.90
33	2.00	EA	0330 3 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0433-260  (17982)	142.93	285.86
34	24.00	EA	0340 4 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0563-260	185.28	4446.72

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
35	12.00	EA	(17984) 0350 6 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0768-260	235.02	2820.24
36	16.00	EA	(17985) 0360 8 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0984-260	317.47	5079.52
37	2.00	EA	(17986) 0370 10 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1226-260 (17988)	533.85	1067.70
38	2.00	EA	(17989) 0380 12 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1366-260	450.51	901.02
39	2.00	EA	(17990) 0390 12 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1441-260	450.51	901.02
40	2.00	EA	0400 3 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2103 (17999A)	44.41	88.82
41	2.00	EA	0410 4 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2104 (18000A)	59.68	119.36
42	2.00	EA	0420 6 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2106 (18001A)	105.55	211.10
43	2.00	EA	0430 8 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2108 (18002A)	140.07	280.14
44	2.00	EA	0440 10 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2110 (18003A)	197.86	395.72
45	2.00	EA	0450 12 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2112 (18004A)	201.67	403.34

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
46	2.00	EA	0460 14 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2114 (18005A)	501.64	1003.28
47	2.00	EA	0470 16 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2116 (18006A)	745.60	1491.20
48	2.00	EA	0480 18 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2118 (18015A)	860.18	1720.36
49	2.00	EA	0490 20 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2120 (18016A)	1033.94	2067.88
50	2.00	EA	0500 24 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2124 (18017A)	1358.33	2716.66
51	2.00	EA	0510 30 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2130 (18018A)	1806.18	3612.36
52	2.00	EA	0520 36 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2136 (18019A)	2550.38	5100.76
53	2.00	EA	0530 42 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2142 (18014A)	5600-	11200-
54	2.00	EA	0540 48 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2148 (18013A)	7500-	15000-
55	36.00	EA	0550 1.5 INCH TRANSITION COUPLING PART #860-54-0041-16(18019)	77.33	2783.88
56	60.00	EA	0560 2 INCH TRANSITION COUPLING PART #860-54-0054-16(18020)	69.90	4194-
57	48.00	EA	0570 4 INCH TRANSITION COUPLING PART #860-54-0108-16C(18031)	137.12	6581.76
58	250.00	EA	0580 6 INCH TRANSITION COUPLING PART #860-54-0163-16(18041)	181.59	45397.50

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
59	150.00	EA	0590 8 INCH TRANSITION COUPLING PART #860-54-0217-16(18151)	206.06	30909
60	30.00	EA	0600 10 INCH TRANSITION COUPLING PART #860-54-0278-16(18079)	285.46	8563.80
61	24.00	EA	0610 12 INCH TRANSITION COUPLING PART #860-54-0334-16(18155)	381.83	9143.92
62	2.00	EA	0620 14 INCH TRANSITION COUPLING PART #862-56-0378-16P(18297A)	1177.70	2355.40
63	2.00	EA	0630 16 INCH TRANSITION COUPLING PART #862-56-0434-16P(18299)	1326.29	2652.58
64	2.00	EA	0640 18 INCH TRANSITION COUPLING PART #862-56-0488-16P(18300)	1302.01	2604.02
65	2.00	EA	0650 20 INCH TRANSITION COUPLING PART #862-56-0540-16P(18308)	1574.78	3149.56
66	2.00	EA	0660 3 INCH JOINT RESTRAINER (D.I.) PART # 1103 DEC (51799)	19.59	39.18
67	2.00	EA	0670 4 INCH JOINT RESTRAINER (D.I.) PART # 1104 DEC (51800)	28.38	56.76
68	24.00	EA	0680 6 INCH JOINT RESTRAINER (D.I.) PART # 1106 DEC (51801)	39.97	959.28
69	1.00	EA	0690 8 INCH JOINT RESTRAINER (D.I.) PART # 1108 DEC (51802)	47.15	47.15
70	2.00	EA	0700 10 INCH JOINT RESTRAINER (D.I.) PART # 1110 DEC (51803)	49.05	98.10
71	1.00	EA	0710 12 INCH JOINT RESTRAINER (D.I.) PART # 1112 DEC (51804)	78.29	78.29

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
72	2.00	EA	0720 14 INCH JOINT RESTRAINER (D.I.) PART # 1114 DEC (51805)	83.91	167.82
73	2.00	EA	0730 16 INCH JOINT RESTRAINER (D.I.) PART # 1116 DEC (51806)	135.09	270.18
74	2.00	EA	0740 18 INCH JOINT RESTRAINER (D.I.) PART # 1118 DEC (51807)	130.02	260.04
75	6.00	EA	0750 20 INCH JOINT RESTRAINER (D.I.) PART # 1120 DEC (51808)	165.97	995.82
76	2.00	EA	0760 24 INCH JOINT RESTRAINER (D.I.) PART # 1124 DEC (51809)	254.91	509.82
77	1.00	EA	0770 30 INCH JOINT RESTRAINER (D.I.) PART # 1130 DEC (51810)	575.66	575.66
78	1.00	EA	0780 36 INCH JOINT RESTRAINER (D.I.) PART # 1136 DEC (51811)	725.85	725.85
79	2.00	EA	0790 42 INCH JOINT RESTRAINER (D.I.) PART # 1142 DEC (51812)	1100.12	2200.24
80	2.00	EA	0800 48 INCH JOINT RESTRAINER (D.I.) PART # 1148 DEC (51813)	1574.59	3149.18
81	2.00	EA	0810 3 INCH JOINT RESTRAINER (C900) PART # 2003PEC (51819)	18.50	37-
82	120.00	EA	0820 4 INCH JOINT RESTRAINER (C900) PART # 2004PEC (51820)	33.01	3961.20
83	300.00	EA	0830 6 INCH JOINT RESTRAINER (C900) PART # 2006PEC (51821)	45.23	13569-
84	200.00	EA	0840 8 INCH JOINT RESTRAINER (C900) PART # 2008PEC (51822)	53.19	10638-

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
85	2.00	EA	0850 10 INCH JOINT RESTRAINER (C900) PART # 2010PEC (51823)	59.10	118.20
86	2.00	EA	0860 12 INCH JOINT RESTRAINER (C900) PART # 2012PEC (51824)	82-	164-
87	2.00	EA	0870 14 INCH JOINT RESTRAINER (C900) PART # 2014PEC (51825)	99.01	198.02
88	2.00	EA	0880 16 INCH JOINT RESTRAINER (C900) PART # 2016PEC (51826)	135.91	271.82
89	2.00	EA	0890 18 INCH JOINT RESTRAINER (C900) PART # 2018PEC (51827)	139.50	279-
90	2.00	EA	0900 20 INCH JOINT RESTRAINER (C900) PART # 2020PEC (51828)	177.29	354.58
91	4.00	EA	0910 24 INCH JOINT RESTRAINER (C900) PART # 2024PEC (51829)	265.04	1060.16
92	1.00	EA	0920 30 INCH JOINT RESTRAINER (C900) PART # 2030PEC (51830)	681.42	681.42
93	1.00	EA	0930 36 INCH JOINT RESTRAINER (C900) PART # 2036PEC (51831)	860-	860-
94	8.00	EA	0940 PIPE SIZE 6 INCH TRANSITION GASKET NOM (51132)	3.20	25.60
95	2.00	EA	0950 PIPE SIZE 8 INCH TRANSITION GASKET NOM (51133)	4.20	8.40
96	2.00	EA	0960 PIPE SIZE 10 INCH TRANSITION GASKET NOM (51134)	4.90	9.80

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
97	2.00	EA	0970 PIPE SIZE 12 INCH TRANSITION GASKET NOM (51135)	5.90	11.80
98	2.00	EA	0980 PIPE SIZE 3 INCH MECHANICAL JOINT GASKET; NOM: O.D. 4.875 INCH (51220)	3.01	6.02
99	2.00	EA	0990 PIPE SIZE 4 INCH MECHANICAL JOINT GASKET; NOM: O.D. 4.80 INCH (51221)	3.01	6.02
100	60.00	EA	1000 PIPE SIZE 6 INCH MECHANICAL JOINT GASKET; NOM: O.D. 6.90 INCH (51222)	3.01	180.60
101	2.00	EA	1010 PIPE SIZE 8 INCH MECHANICAL JOINT GASKET; NOM: O.D. 9.05 INCH (51223)	3.20	6.40
102	2.00	EA	1020 PIPE SIZE 10 INCH MECHANICAL JOINT GASKET; NOM: O.D. 11.10 INCH (51224)	3.20	6.40
103	2.00	EA	1030 PIPE SIZE 12 INCH MECHANICAL JOINT GASKET; NOM: O.D. 13.20 INCH (51225)	5.35	10.70
104	2.00	EA	1040 PIPE SIZE 14 INCH MECHANICAL JOINT GASKET; NOM: O.D. 15.30 INCH (51226)	7.50	15-
105	2.00	EA	1050 PIPE SIZE 16 INCH MECHANICAL JOINT GASKET; NOM: O.D. 17.40 INCH (51227)	7.50	15-
106	2.00	EA	1060 PIPE SIZE 18 INCH MECHANICAL JOINT GASKET; NOM: O.D. 19.50 INCH (51228)	8.20	16.40
107	2.00	EA	1070 PIPE SIZE 20 INCH MECHANICAL JOINT GASKET; NOM: O.D. 21.60 INCH (51229)	8.97	17.94
108	2.00	EA	1080 PIPE SIZE 24 INCH MECHANICAL JOINT GASKET; NOM: O.D. 25.80 INCH (51230)	11-	22-

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
109	2.00	EA	1090 PIPE SIZE 30 INCH MECHANICAL JOINT GASKET; NOM: O.D. 32.00 INCH (51231)	27 <sup>-</sup>	54 <sup>-</sup>
110	2.00	EA	1100 PIPE SIZE 36 INCH MECHANICAL JOINT GASKET; NOM: O.D. 38.30 INCH (51232)	28.30	56.60
111	2.00	EA	1110 PIPE SIZE 42 INCH MECHANICAL JOINT GASKET; NOM: O.D. 44.50 INCH (51233)	59.19	118.38
112	2.00	EA	1120 PIPE SIZE 48 INCH MECHANICAL JOINT GASKET; NOM: O.D. 50.80 INCH (51234)	63 <sup>-</sup>	126 <sup>-</sup>
113	24.00	CS	1130 PIPE LUBRICANT (50180) (12 QUARTS PER CASE)	42 <sup>-</sup>	1008 <sup>-</sup>
114	2.00	EA	1140 4 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES  (NON-RESTRAINED)	181.21	362.42
115	2.00	EA	1150 6 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES  (BIB-RESTRAINED)	239.15	478.30
116	2.00	EA	1160 8 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES  (NON-RESTRAINED)	270.81	541.62
117	2.00	EA	1170 10 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES  (NON-RESTRAINED)	350.31	700.62
118	2.00	EA	1180 12 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES  (NON-RESTRAINED)	412.27	824.54
119	24.00	EA	1190 14 INCH X 12 INCH REDUCING COUPLING HYMAX #861560315035316 (18156)	1571.56	37717.44

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			LARGE O.D. RANGE 13.90-16.00 SMALL O.D. RANGE 12.40-13.66		

## CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF  
Cimsco  
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Cimsco  
INCORPORATED, DULY NOTICED AND HELD ON March 27, 2018,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT  
WAS:

RESOLVED THAT Jeff Devillier, 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.

Alexis A. Pivon  
SECRETARY-TREASURER

June 27, 2018  
DATE



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

9/5/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> E B Ducasse Insurance Agency, Inc 3200 Ridgelake Dr, Suite 401  Metairie LA 70002		<b>CONTACT NAME:</b> Darly Oser <b>PHONE (A/C, No, Ext):</b> (504) 840-9883 <b>FAX (A/C, No):</b> (504) 840-9889 <b>E-MAIL ADDRESS:</b> doser@ebducasse.com	
<b>INSURED</b> CIMSCO INC 1840 L AND A ROAD  METAIRIE LA 70001-6237		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> United Fire and Indemnity Co <b>NAIC #</b> 19496 <b>INSURER B:</b> AmTrust North America Inc <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	

**COVERAGES** **CERTIFICATE NUMBER:** 17-18 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			60418952	9/1/2017	9/1/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Liquor Liability Exclusion \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			60418952	9/1/2017	9/1/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			60418952	9/1/2017	9/1/2018	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	TWC3658676	9/1/2017	9/1/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 The Parish of Jefferson, its districts, departments, and agencies under the direction of the Parish President and Parish Council are named as additional insured on the general liability and auto liability policies when required by written contract. The general liability and workers comp insurers will have no right of recovery or subrogation against the Parish of Jefferson, its Districts, Departments and Agencies under the direction of the Parish President and Parish Council, it being the intention of the parties that the General Liability and Workers Compensation policies described above shall protect both parties and be primary coverage for any and all losses covered by the described insurance. Bid No: 50-123263

<b>CERTIFICATE HOLDER</b>  The Parish of Jefferson, its Districts, Department & Agencies under the direction the Parish President & the Parish Council Department of Engineering 1221 Elmwood Park Blvd Ste 802 Jefferson, LA 70123	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE E Ducasse Sr./WAYNE <i>Edward B. Ducasse, Sr.</i>
---	---

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Non-Public Works Bid

AFFIDAVIT

STATE OF LA

PARISH/COUNTY OF JEFFERSON

BEFORE ME, the undersigned authority, personally came and appeared: JEFF  
DEVILIER, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized AGENT of CRMSLO (Entity),  
the party who submitted a bid in response to Bid Number 50-123263, 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

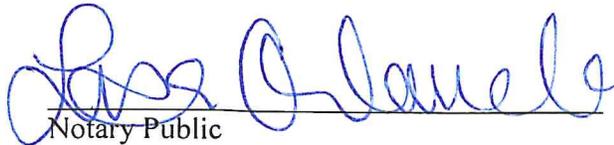
*[The remainder of this page is intentionally left blank.]*

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

JEFF DEVILLIER  
\_\_\_\_\_  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 27<sup>th</sup> DAY OF JUNE, 2018.

  
\_\_\_\_\_  
Notary Public

LISA ORLANDO  
\_\_\_\_\_  
Printed Name of Notary

146644  
\_\_\_\_\_  
Notary/Bar Roll Number

My commission expires upon death



OFFICIAL SEAL  
LISA ORLANDO  
NOTARY PUBLIC  
ORLEANS PARISH NOTARY NO. 146644  
COMMISSION ISSUED FOR LIFE

# Louisiana Secretary of State R. Kyle Ardoin

## SEARCH FOR LOUISIANA NOTARIES

A practicing notary in a parish may notarize in reciprocal parishes without additional bonding or examination.

You can also download information about all notaries on file. For more information, see Notary Bulk Data.

[Print](#)

### Notary Search - Detail

**Name:** MS. LISA ORLANDO

**Address:** 810 BIENVILLE ST. APT. 325  
NEW ORLEANS, LA 70112

**Phone:** (504) 606-2334

**Notary ID Number:** 146644

**Parish:** ORLEANS with STATEWIDE JURISDICTION

**Agency:** N/A

**Notary Type:** Attorney

**Bar Roll #:** 36612

**Status:** Active

**Commission Date:** 06/10/2016

**Oath Date:** 06/09/2016

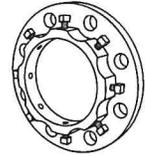
**Surety Expiration Date:** Not Required

**Annual Report Current:** Not Applicable

[Back to Search Results](#) [New Search](#)

# SUBMITTAL INFORMATION

## Adapter Flange (UFA400-C-x series)

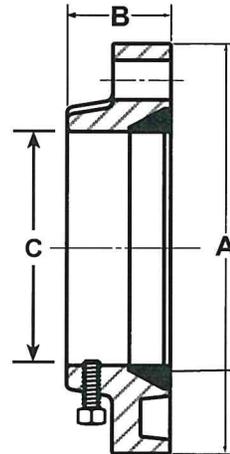
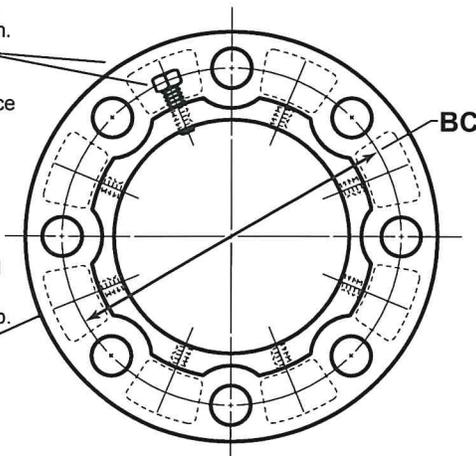


### UNI-FLANGE SERIES 400 ADAPTER FLANGE FOR DUCTILE IRON PIPE

Set Screw - AISI 4140 Steel;  
Tensile 190,000 psi minimum.  
Heat treated to  
Rockwell C 35-44, and zinc  
plated for corrosion resistance

Flange - Ductile Iron --ASTM  
A536. Grade 65-45-12.  
Drilling to ANSI B16.1 (125 lb.  
cast iron) or ANSI B16.5  
(150 lb. steel)

Color Code: Red for ductile  
iron applications



Gasket - SBR (optional Buna-N  
or EPDM)

NOM. PIPE SIZE	DUCTILE IRON PIPE		APPROX. Wt. LBS.	PRESSURE RATING PSI	SET SCREWS		FLANGE			BOLT CIRCLE DIA.	✓ SUBMITTED ITEM(S)
	OD	CATALOG No.			NUMBER	SIZE	OD A	THICKNESS B	APPROX. ID C		
2"	2.50	UFA400-C-2	5	250	4	1/2"x1"	6"	2"	2-5/8"	4-3/4"	
3"	3.96	UFA400-C-3	8	250	4	1/2"x1"	7-1/2"	2-1/16"	4-1/16"	6"	
4"	4.80	UFA400-C-4	11	250	8	1/2"x1"	9"	2-1/16"	4-7/8"	7-1/2"	
6"	6.90	UFA400-C-6	14	250	8	5/8"x1-1/4"	11"	2-1/8"	7"	9-1/2"	
8"	9.05	UFA400-C-8	21	250	8	5/8"x1-1/4"	13-1/2"	2-1/8"	9-1/8"	11-3/4"	
10"	11.10	UFA400-C-10	38	250	12	5/8"x1-1/4"	16"	2-3/16"	11-3/16"	14-1/4"	
12"	13.20	UFA400-C-12	56	250	12	5/8"x1-1/4"	19"	2-1/4"	13-5/16"	17"	
14"	15.30	UFA400-C-14	70	150	12	5/8"x1-1/4"	21"	2-5/8"	15-7/16"	18-3/4"	
16"	17.40	UFA400-C-16	79	150	16	5/8"x1-1/4"	23-1/2"	2-11/16"	17-9/16"	21-1/4"	
18"	19.50	UFA400-C-18	90	150	16	3/4"x2"	25"	2-13/16"	19-5/8"	22-3/4"	
20"	21.60	UFA400-C-20	145	150	20	3/4"x2"	27-1/2"	2-15/16"	21-3/4"	25"	
24"	25.80	UFA400-C-24	175	150	20	3/4"x2"	32"	3-1/8"	25-15/16"	29-1/2"	
30"	32.00	UFA400-C-30	270	100	28	1"x2-1/4"	38-3/4"	4"	32-3/16"	36"	
36"	38.30	UFA400-C-36	400	100	32	1"x2-1/4"	46"	4-1/2"	38-1/2"	42-3/4"	
42"	44.50	UFA400-C-42	495	100	36	1"x2-1/4"	53"	4-3/4"	44-3/4"	49-1/2"	
48"	5.80	UFA400-C-48	660	100	44	1"x2-1/4"	59-1/2"	4-7/8"	51-3/16"	56"	

### FEATURES

- Restraint is provided by a set screw locking device similar to that used in mechanical joint retainer glands.
- The gasket is the standard AWWA mechanical joint gasket.
- Designed for ease of on-site installation. Eliminates bolt hole alignment problems. Allows for pipe deflection.
- Series 400 adapter flanges are not recommended for use on PVC pipe. Use the Uni-Flange Series 900 flanges instead.
- Optional uni-torque set screws are available for use with 2"-16" Series 400 adapter flanges for ductile iron pipe, class 52-56.  
To order, add -UT to the catalog number. Example: UFA400-C-6-UT.

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



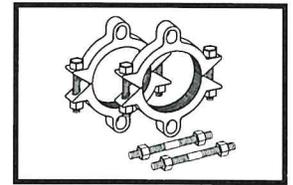
**The Ford Meter Box Company, Inc.**  
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
Phone: 260-563-3171 / Fax: 800-826-3487  
Overseas Fax: 260-563-0167  
www.fordmeterbox.com

05/27/14

Submitted By:

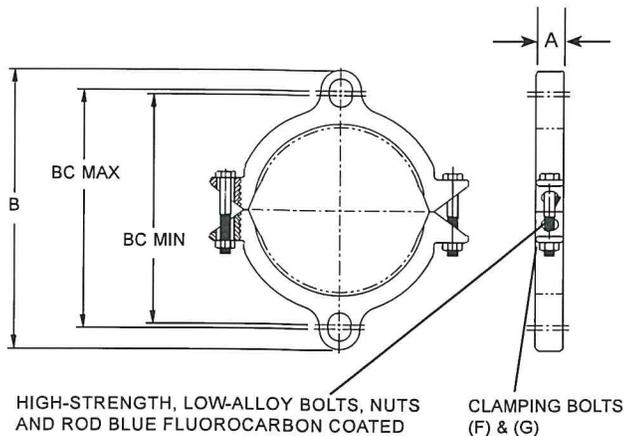
# SUBMITTAL INFORMATION

## Uni-Flange Restraint (*UFR1390-C-x-RB-I style*)

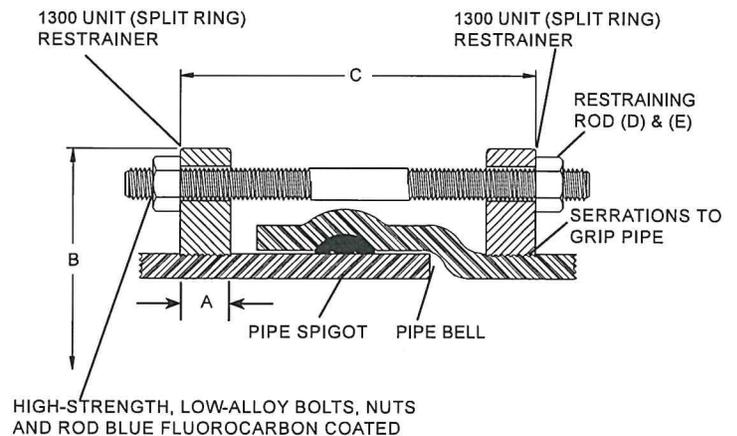


SERIES 1390-C RESTRAINT DEVICE FOR C900 PVC AND DUCTILE IRON PIPE PIPE BELL JOINTS WITH BLUE FLUOROCARBON-COATED ACCESSORIES

**1300 SPLIT RESTRAINER**



**1390 ASSEMBLY**



NOM PIPE SIZE	PVC PIPE WITH DI PIPE OD STYLE 1390-C		A	B APPROX	C MAX	RESTRAINING RODS		CLAMPING BOLTS		BC MAX	BC MIN	✓ SUBMITTED ITEMS
	OD	CATALOG No.				No. D	SIZE E	No. F	SIZE G			
4"	4.80	UFR1390-C-4-RB-I	1-1/8"	9-1/8"	15"	2	3/4" x 17"	4	5/8" x 3-1/2"	7.50"	7.14"	
6"	6.90	UFR1390-C-6-RB-I	1-1/8"	11-1/8"	15"	2	3/4" x 17"	4	5/8" x 3-1/2"	9.50"	9.14"	
8"	9.05	UFR1390-C-8-RB-I	1-1/4"	14-5/8"	15"	2	3/4" x 17"	4	3/4" x 4"	12.98"	11.36"	
10"	11.10	UFR1390-C-10-RB-I	1-3/8"	16-5/8"	22"	4	3/4" x 24"	4	7/8" x 5"	15.00"	13.50"	
12"	13.20	UFR1390-C-12-RB-I	1-3/8"	19-1/4"	22"	4	3/4" x 24"	4	7/8" x 5"	17.62"	15.62"	

### FEATURES

- 4" - 12" sizes: Cast ductile iron per ASTM A536 grade 65-45-12
- 360° contact and support of the pipe wall
- Restraining rods are high strength, low alloy steel per ANSI / AWWA C111 / A21.11, with blue fluorocarbon-coating
- Clamping bolts and nuts are Grade 5 with blue fluorocarbon coating
- Black e-coat epoxy-coated
- Rated at full-rated pressure of any class of PVC pipe, minimum 2:1 safety factor.
- Ductile iron pipe shall have the following pressure ratings: 4" through 8" = 250 psi  
10" and 12" = 200 psi

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



**The Ford Meter Box Company, Inc.**  
 P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
 Phone: 260-563-3171 / Fax: 800-826-3487  
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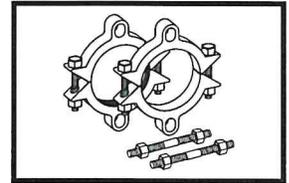


Submitted By:

08/01/16

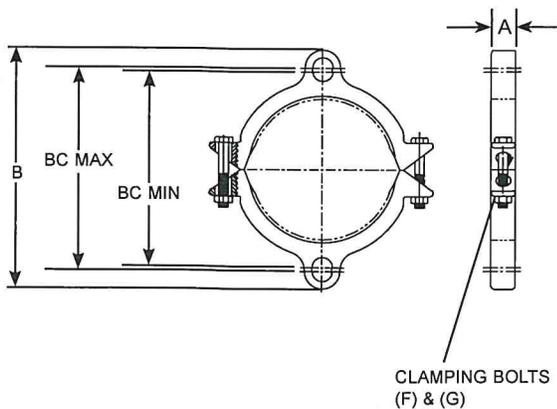
# SUBMITTAL INFORMATION

## Uni-Flange Restraint (*UFR1355-C-x-RB-U style*)

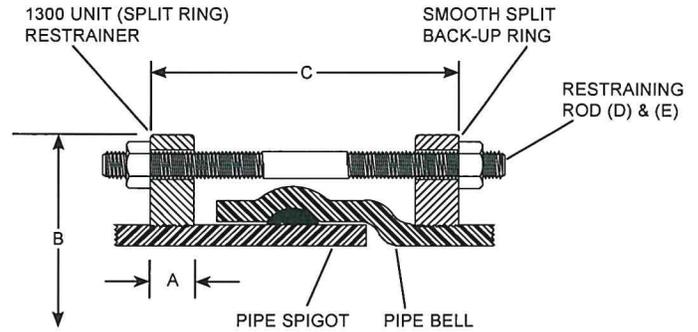


### 4"-12" SERIES 1355-C RESTRAINT DEVICE FOR C900 PVC PIPE BELL JOINTS WITH BLUE FLUOROCARBON-COATED ACCESSORIES

**1300 SPLIT RESTRAINER**



**1355 ASSEMBLY**



NOM PIPE SIZE	PVC PIPE WITH DI PIPE OD STYLE 1355-C		A	B APPROX	C MAX	RESTRAINING RODS		CLAMPING BOLTS		BC MAX	BC MIN	✓ SUBMITTED ITEMS
	OD	CATALOG No.				No. D	SIZE E	No. F	SIZE G			
4"	4.80	UFR1355-C-4-RB-U	1-1/8"	9-1/8"	12"	2	3/4" x 17"	4	5/8" x 3-1/2"	7.50"	7.14"	
6"	6.90	UFR1355-C-6-RB-U	1-1/8"	11-1/8"	13"	2	3/4" x 17"	4	5/8" x 3-1/2"	9.50"	9.14"	
8"	9.05	UFR1355-C-8-RB-U	1-1/4"	14-5/8"	15"	2	3/4" x 17"	4	3/4" x 4"	12.98"	11.36"	
10"	11.10	UFR1355-C-10-RB-U	1-3/8"	16-5/8"	16"	4	3/4" x 24"	4	7/8" x 5"	15.00"	13.50"	
12"	13.20	UFR1355-C-12-RB-U	1-3/8"	19-1/4"	18"	4	3/4" x 24"	4	7/8" x 5"	17.62"	15.62"	

### FEATURES

- 4" - 12" sizes: Cast ductile iron per ASTM A536, Grade 65-45-12
- 360° contact and support of the pipe wall
- Restraining rods are high strength, low alloy steel per ANSI / AWWA C111 / A21.11 with blue fluorocarbon coating
- Rated at full-rated pressure of any class of PVC pipe, minimum 2:1 safety factor
- Rated for 150 psi on ductile iron pipe up to 10". Rated for 125 psi on 12" size
- Castings are manufactured in the United States of America

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



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 P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
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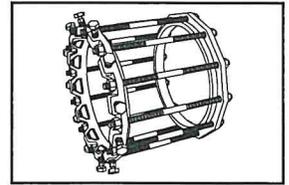


Submitted By:

04/26/16

# SUBMITTAL INFORMATION

## Uni-Flange Retainer (UFR1450-D-x-RB-I style)

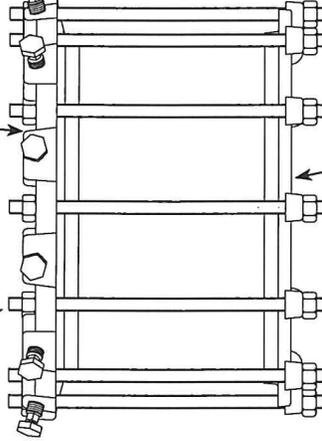


### WEDGE ACTION SERIES 1450-D RESTRAINT ASSEMBLY (WITH BLUE FLUOROCARBON-COATED ACCESSORIES) FOR DUCTILE IRON SLIP JOINT BELL PIPE

**Auto-Tork® Set Screw**  
Ductile Iron per ASTM  
A536-84 Grade 65-45-12  
ANSI/AWWA C111/  
A21.11

**Series 1400**  
Ductile Iron per ASTM  
A536-84 Grade 65-45-12  
ANSI/AWWA C111/  
A21.11

**Tie Rod and Nuts**  
High strength, low  
alloy steel per ANSI/  
AWWA C111/A21.11  
or high strength steel  
per ASTM A193, grade  
B7 (blue fluorocarbon-  
coated)



**Mechanical Joint Gland**  
Ductile Iron per ASTM  
A536-84 Grade 65-45-12  
ANSI/AWWA C111/  
A21.11 or Carbon Steel  
per ASTM A36  
(Assembled on bell end)

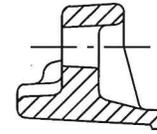
### 1400 PROFILE



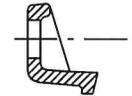
30" - 48"



3" - 24"



30" - 48"



3" - 24"

NOM. PIPE SIZE	PIPE O.D.	RODS No.	LENGTH	RATES DIA.	MAX. PRESSURE (psi)	**BELL DIA.	APPROX. Wt. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
3"	3.96	4	14"	5/8"	350	5.50"	12	UFR1450-D-3-RB-I	
4"	4.80	4	17"	3/4"	350	6.62"	20	UFR1450-D-4-RB-I	
6"	6.90	6	17"	3/4"	350	8.62"	29	UFR1450-D-6-RB-I	
8"	9.05	6	17"	3/4"	350	10.88"	35	UFR1450-D-8-RB-I	
10"	11.10	8	24"	3/4"	350	13.12"	56	UFR1450-D-10-RB-I	
12"	13.20	8	24"	3/4"	350	15.38"	62	UFR1450-D-12-RB-I	
14"	15.30	10	24"	3/4"	350	17.88"	90	UFR1450-D-14-RB-I	
16"	17.40	12	24"	3/4"	350	20.12"	113	UFR1450-D-16-RB-I	
18"	19.50	12	24"	3/4"	250	22.38"	132	UFR1450-D-18-RB-I	
20"	21.60	14	24"	3/4"	250	24.62"	160	UFR1450-D-20-RB-I	
24"	25.80	16	24"	3/4"	250	29.12"	181	UFR1450-D-24-RB-I	
30"	32.00	10	24"	1"	250	35.80"	341	* UFR1450-D-30-RB-I	
36"	38.30	12	24"	1"	250	42.60"	430	* UFR1450-D-36-RB-I	
42"	44.50	28	52"	1-1/4"	250	49.25"	1350	UFR1450-D-42-RB-I	
48"	50.80	32	52"	1-1/4"	250	56.125"	1570	UFR1450-D-48-RB-I	

\* Backup ring is steel for 30" and 36"

\*\* Connecting rods WILL NOT CLEAR a pipe bell with a maximum diameter larger than the listed measurement.

### FEATURES

- Mechanical joint gland: Ductile iron per ASTM A536 grade 65-45-12 or carbon steel per ASTM A36
- Wedge activating screw: Ductile iron per ASTM A536 grade 65-45-12
- Gland: Ductile iron per ASTM A536 grade 65-45-12
- Wedge: Ductile iron per ASTM A536 heat treated to hardness of 370 BHN minimum
- Restraining rods & nuts: High strength, low alloy steel per ANSI/AWWA C111/A21.11 or high strength steel per ASTM A193, grade B7, blue fluorocarbon coated
- Coating: Black e-coat epoxy
- New installations only

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



**The Ford Meter Box Company, Inc.**  
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Phone: 260-563-3171 / Fax: 800-826-3487  
Overseas Fax: 260-563-0167  
www.fordmeterbox.com

09/02/16

Submitted By:



# HYMAX® FLANGE ADAPTOR\* AND HYMAX LONG BODY FLANGE ADAPTOR (1.5"-60")

**HYMAX®**  
Repair the past. Connect the future.

## PRODUCT SPECIFICATIONS

### FEATURES

- USING THE GAME-CHANGING HYMAX TECHNOLOGY, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION, REDUCING FUTURE PIPE DAMAGE

### SPECIFICATIONS

#### STANDARDS

HYMAX FLANGE ADAPTOR AND LONG BODY FLANGE ADAPTOR MEET OR EXCEED REQUIREMENTS OF STANDARDS: AWWA C219, NSF-61 AND NSF-372.

#### SIZE/LENGTH

AVAILABLE IN NOMINAL DIAMETER FROM 1.5"-24" STANDARD. 26"-60" MTO (MADE TO ORDER). CONTACT KRAUSZ FOR DETAILS.

#### MATERIALS

##### FLANGED BODY

1.5"-12" ASTM A53 GRADE A STEEL.  
14"-60" ASTM A283 / A283M GRADE C STEEL.

##### FLANGE

1.5"-2" OVAL FLANGE FOR FLOW METER.  
3" MEETS ANSI B16.5.  
4"-24" MEETS AWWA CLASS D.  
26"-60" CONTACT KRAUSZ FOR DETAILS.

##### END RINGS

1.5"-12" ASTM A283 / A283M GRADE C STEEL.  
14"-16" ASTM A283 / A283M GRADE C STEEL.  
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18).  
18"-60" ASTM A283 / A283M GRADE C STEEL.

##### SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

##### GASKET

EPDM AND NBR AVAILABLE. BOTH ARE COMPOUNDED FOR WATER AND SEWAGE, MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

##### BRIDGE

AISI 304 STAINLESS STEEL.

##### COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.

##### NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

## PRODUCT PERFORMANCE (\*)

<b>WORKING TEMPERATURE</b>	EPDM: -20°F UP TO +125°F NBR: -4°F UP TO +125°F			
<b>DYNAMIC DEFLECTION</b>	UP TO 4°			
<b>MIN. PIPE INSERTION</b>	1.5"-12" 2.25"	14"- 60" 4"		
<b>MAXIMUM OFFSET FOR MISALIGNED PIPES</b>	1.5"- 3" 0.2"	4"-60" 0.24"		
<b>MAXIMUM OUT OF ROUNDNESS</b>	1.5" 0.08"	2"-3" 0.20"	4"-12" 0.31"	14"-60" 0.51"
<b>WORKING PRESSURE</b>	1.5"-24": 175 PSI (26"-60": CONTACT KRAUSZ FOR DETAILS)			
<b>RATED PRESSURE</b>	1.5"-24": 262 PSI (26"-60": CONTACT KRAUSZ FOR DETAILS)			
<b>VACUUM TEST</b>	12 PSI			

## PRODUCT TABLES

### TORQUE DATA for ND 1.5"-12"(\*)

ND (inch)	EPDM (Ft- Lb)	NBR (Ft-Lb)
1.5	35	NA
2	50	50
3	50	50
4	65	75
5	65	75
5	65	75
6	65	75
8	65	75
10	65	75
10	65	75
12	65	75
12	65	75

## PRODUCT CONFIGURATIONS

The product is offered in several different configurations. Note that the "xx" marking in the Cat. no. should be replaced as directed:

**Part Number 874-XX**

56 -> Product with EPDM gasket

57 -> Product with NBR gasket

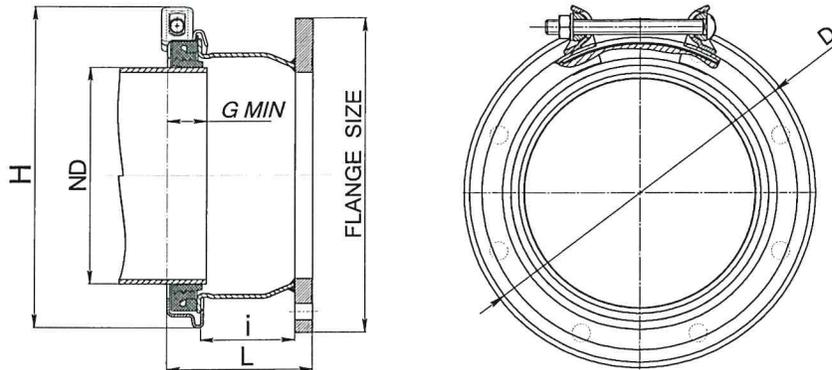
For example:

874-XX-03008812 should be read as 874-56-03008812 for EPDM gasket and 874-57-03008812 for NBR gasket.

\* NBR gasket available in sizes 2"-12"

## PRODUCT TABLES

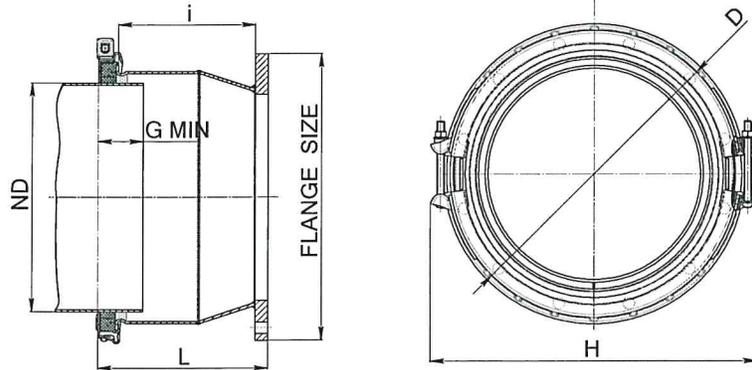
### HYMAX FLANGE ADAPTOR NOMINAL SIZES 1.5"-12"



Krausz Part Number	ND (mm)	Flange (inch)	Overall Range (inch)	Before removal of inner layer (inch)	After removal of inner layer	D1 (inch)	H (inch)	i (inch)	L (inch)	D2 (inch)	B (inch)	Bolts Qty. -Size	Approx. Weight (Lbs)
874-56-01004112	1.5	1.5	1.61-2.13	1.61-1.97	1.96-2.13	Ø3.9	5.0	4.1	5.8	5.4	Ø1.95	1 -M12	7
874-XX-02005412	2	2	2.10-3.03	2.10-2.60	2.56-3.03	Ø5.2	5.7	3.7	5.7	6.0	Ø2.44	1 -M12	8
874-XX-03008812	3	3	3.46-4.33	3.46-3.90	3.86-4.33	Ø6.7	7.1	2.9	4.8	Ø7.5	Ø4.02	1 -M12	12
874-XX-04010812	4	4	4.25-5.63	4.25-5.00	4.92-5.63	Ø8.7	9.3	2.9	5.1	Ø9.0	Ø5.24	1 -M14	14
874-XX-05013012	5	5	5.12-6.38	5.12-5.75	5.71-6.38	Ø9.5	10	4	6.2	Ø10.0	Ø6.14	1 -M14	21
874-XX-06013012	5	6	5.12-6.38	5.12-5.75	5.71-6.38	Ø9.5	10	4	6.2	Ø11.0	Ø7.24	1 -M14	22
874-XX-06016312	6	6	6.42-7.68	6.42-7.05	7.01-7.68	Ø10.8	11.3	4	6.2	Ø11.0	Ø7.24	1 -M14	23
874-XX-08019012	7	8	7.48-8.74	7.48-8.11	8.07-8.74	Ø11.7	12.2	4	6.2	Ø13.5	Ø9.41	1 -M14	31
874-XX-08021712	8	8	8.54-9.84	8.54-9.17	9.13-9.84	Ø12.9	13.1	4	6.2	Ø13.5	Ø9.41	1 -M14	32
874-XX-10027212	10	10	10.70-12.00	10.70-11.37	11.33-12.00	Ø15.0	15.6	4	6.2	Ø16.0	Ø11.61	1 -M14	38
874-XX-10027812	10	10	10.96-12.26	10.96-11.63	11.59-12.26	Ø15.3	15.8	4	6.2	Ø16.0	Ø11.61	1 -M14	41
874-XX-12031512	12	12	12.40-13.66	12.40-13.03	12.99-13.66	Ø16.6	17.5	4	6.2	Ø19.0	Ø14.02	1 -M14	52
874-XX-12033412	12	12	13.15-14.41	13.15-13.78	13.74-14.41	Ø17.3	18.1	4	6.2	Ø19.0	Ø14.02	1 -M14	57

## PRODUCT TABLES

### HYMAX FLANGE ADAPTOR NOMINAL SIZE 14"-24"



Krausz Part Number	ND (mm)	Flange (inch)	Overall Range (inch)	Before removal of inner layer (inch)	After removal of inner layer	D1 (inch)	H (inch)	i (inch)	L (inch)	D2 (inch)	B (inch)	Bolts Qty. -Size	Torque (Ft-Lbs)	Approx. Weight (Lbs)
874-56-14037812	14	14	15.00-17.10	15.00-16.10	16.02-17.10	Ø21.0	23.2	12.05	15.1	Ø21.0	Ø15.43	2 -M16	150	115
874-56-16043412	16	16	17.10-19.20	17.10-18.19	18.11-19.20	Ø23.2	25.6	12.05	15.1	Ø23.5	Ø17.91	2 -M16	150	125
874-56-18048812	18	18	19.20-21.30	19.20-20.29	20.21-21.30	Ø25.3	27.8	12.05	15.1	Ø25.0	Ø19.09	2 -M16	150	135
874-56-20054012	20	20	21.25-23.35	21.25-22.35	22.27-23.35	Ø27.3	29.8	12.05	15.2	Ø27.5	Ø21.34	2 -M16	150	155
874-56-24060612	24	24	23.85-25.95	23.85-24.96	24.88-25.95	Ø29.1	31.7	12.05	15.4	Ø32.0	Ø25.91	2 -M16	150	184
874-56-24062412	24	24	24.60-26.70	24.60-25.67	25.59-26.70	Ø30.6	33.2	12.05	15.4	Ø32.0	Ø25.91	2 -M16	150	187

### HYMAX FLANGE ADAPTOR NOMINAL SIZE 26"-60"

26"-60" - MTO (MADE TO ORDER) IS AVAILABLE

## PRODUCT TABLES

### HYMAX FLANGE ADAPTOR LONG BODY NOMINAL SIZE 1.5"-12"

Krausz Part Number	Nominal Diameter (inch)	Flange (inch)	Overall Range (inch)	Before Removal of Inner Layer (inch)	After Removal of Inner Layer (inch)	Bolts Num. and Size (mm)	Approx. Weight (Lbs)
974-56-01004112	1.5	1.5	1.61-2.13	1.61-1.97	1.96-2.13	1 -M12	9
974-XX-02005412	2	2	2.10-3.03	2.10-2.60	2.56-3.03	1 -M12	10
974-XX-03008812	3	3	3.46-4.33	3.46-3.90	3.86-4.33	1 -M12	16
974-XX-04010812	4	4	4.25-5.63	4.25-5.00	4.92-5.63	1 -M14	23
974-XX-05013012	5	5	5.12-6.38	5.12-5.75	5.71-6.38	1 -M14	30
974-XX-06013012	5	6	5.12-6.38	5.12-5.75	5.71-6.38	1 -M14	33
974-XX-06016312	6	6	6.42-7.68	6.42-7.05	7.01-7.68	1 -M14	36
974-XX-08019012	7	8	7.48-8.74	7.48-8.11	8.07-8.74	1 -M14	42
974-XX-08021712	8	8	8.54-9.84	8.54-9.17	9.13-9.84	1 -M14	49
974-XX-10027212	10	10	10.70-12.00	10.70-11.37	11.33-12.00	1 -M14	56
974-XX-10027812	10	10	10.96-12.26	10.96-11.63	11.59-12.26	1 -M14	60
974-XX-12031512	12	12	12.40-13.66	12.40-13.03	12.99-13.66	1 -M14	61
974-XX-12033412	12	12	13.15-14.41	13.15-13.78	13.74-14.41	1 -M14	63

### HYMAX FLANGE ADAPTOR LONG BODY NOMINAL SIZE 14"-24"

Krausz Part Number	ND (mm)	Flange (inch)	Overall Range (inch)	Before Removal of Inner Layer (inch)	After Removal of Inner Layer	D1 (inch)	H (inch)	i (inch)	L (inch)	D2 (inch)	B (inch)	Bolts Qty. -Size	Torque (Ft-Lbs)	Approx. Weight (Lbs)
974-56-14037812	14	14	15.00-17.10	15.00-16.10	16.02-17.10	Ø21.0	23.2	15.8	18.7	Ø21.0	Ø15.43	2 -M16	150	117
974-56-16043412	16	16	17.10-19.20	17.10-18.19	18.11-19.20	Ø23.2	25.6	15.8	18.7	Ø23.5	Ø17.91	2 -M16	150	133
974-56-18048812	18	18	19.20-21.30	19.20-20.29	20.21-21.30	Ø25.3	27.8	15.8	18.7	Ø25.0	Ø19.09	2 -M16	150	142
974-56-20054012	20	20	21.25-23.35	21.25-22.35	22.27-23.35	Ø27.3	29.8	15.8	18.8	Ø27.5	Ø21.34	2 -M16	150	151
974-56-24060612	24	24	23.85-25.95	23.85-24.96	24.88-25.95	Ø29.1	31.7	15.8	18.9	Ø32.0	Ø25.91	2 -M16	150	168
974-56-24062412	24	24	24.60-26.70	24.60-25.67	25.59-26.70	Ø30.6	33.2	15.8	18.9	Ø32.0	Ø25.91	2 -M16	150	173

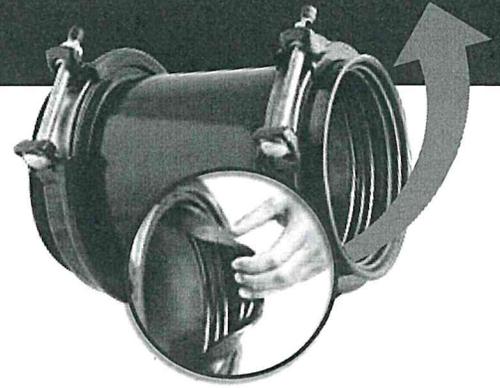
### HYMAX FLANGE ADAPTOR LONG BODY NOMINAL SIZE 26"-60"

26"-60" - MTO (MADE TO ORDER) IS AVAILABLE

# PRODUCT SPECIFICATIONS

# HYMAX 2

## HYMAX<sup>®</sup> 2 COUPLING (4" - 12")



### FEATURES

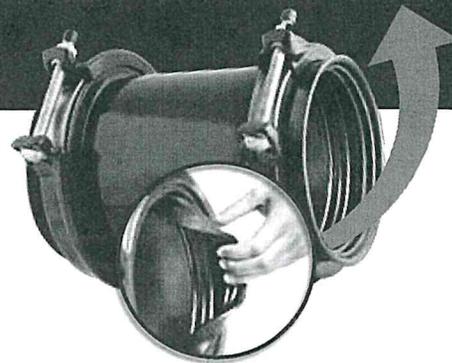
- ADVANCED WIDE-RANGE COUPLING WITH A PATENTED FLIP GASKET
- ELIMINATES GASKET REMOVAL MISTAKES AND MAXIMIZES INSTALLER WORK EFFICIENCY
- ONLY 2-4 TOP FACING BOLTS, FOR FASTER AND SAFER INSTALLATION
- READY-TO-USE DESIGN TO ELIMINATE EXTENSIVE PREPARATORY UNDER-PIPE DIGGING
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS
- BASED ON THE GAME-CHANGING HYMAX THAT HAS BEEN FIELD-PROVEN IN MILLIONS OF INSTALLATIONS IN THE US
- PRODUCT PERFORMANCE, OD RANGE AND PRESSURES ARE IDENTICAL TO THOSE OF THE ORIGINAL HYMAX

### SPECIFICATIONS

STANDARDS	SIZE	MATERIALS
HYMAX2 MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.	AVAILABLE IN NOMINAL DIAMETER FROM 4" - 12" STANDARD. CALL KRAUSZ FOR DETAILS.	<b>END RINGS</b> 4"- 12" ASTM A283 / A283M GRADE C STEEL.
		<b>CENTER RING</b> 4"- 12" ASTM A53 GRADE A STEEL.
		<b>GASKETS</b> EPDM COMPOUNDED FOR WATER AND SEWAGE, MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.
		<b>BRIDGE</b> AISI 304 STAINLESS STEEL.
		<b>SPHERICAL SPACERS</b> AISI 304L STAINLESS STEEL.
		<b>COATING</b> 100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.
		<b>NUTS &amp; BOLTS</b> AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

# PRODUCT SPECIFICATIONS

# HYMAX 2



## PRODUCT PERFORMANCE (\*)

<b>WORKING TEMPERATURE</b>	-20°F UP TO +125°F
<b>DYNAMIC DEFLECTION</b>	UP TO 4° PER SIDE
<b>MIN. PIPE INSERTION</b>	2.25"
<b>MAXIMUM OFFSET FOR MISALIGNED PIPES</b>	0.51"
<b>MAXIMUM OUT OF ROUNDES</b>	0.31"
<b>WORKING PRESSURE</b>	260
<b>RATED PRESSURE</b>	390
<b>VACUUM TEST</b>	12 PSI

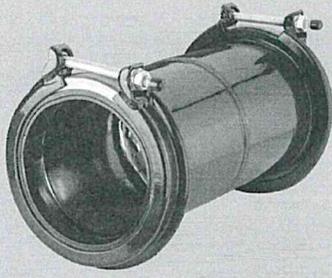
\* See Submittal Drawings For Details.

## PRODUCT TABLES

### HYMAX® 2 NOMINAL SIZES (4" - 12")

Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Range in closed gasket position (inch)	Range in open gasket position (inch)	Bolt Qty. and Size (mm)	Torque (Ft-Lbs)	Approx. Weight (Lbs)
860-54-0108-16	4	4.25-5.63	4.25-5.00	4.92-5.63	2 -M14	75	15
860-54-0130-16	5	5.12-6.38	5.12-5.75	5.71-6.38	2 -M14	75	19
860-54-0163-16	6	6.42-7.68	6.42-7.05	7.01-7.68	2 -M14	75	23
860-54-0190-16	7	7.48-8.74	7.48-8.11	8.07-8.74	2 -M14	75	24
860-54-0217-16	8	8.54-9.84	8.54-9.17	9.13-9.84	2 -M14	75	28
860-54-0272-16	10	10.70-12.00	10.70-11.37	11.33-12.00	2 -M14	75	32
860-54-0278-16	10	10.96-12.26	10.96-11.63	11.59-12.26	2 -M14	75	33
860-54-0315-16	12	12.40-13.66	12.40-13.03	12.99-13.66	2 -M14	80	39
860-54-0334-16	12	13.15-14.41	13.15-13.78	13.74-14.41	2 -M14	80	39

For specific sizes of products in stock, call Krausz for details.



# HYMAX<sup>®</sup> COUPLING LONG BODY (1.5"-60")

**HYMAX<sup>®</sup>**  
Repair the past. Connect the future.

## PRODUCT SPECIFICATIONS

### FEATURES

- GAME-CHANGING WIDE-RANGE COUPLING, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LONG BODY FOR EXTRA SIZE FLEXIBILITY
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS

### SPECIFICATIONS

#### STANDARDS

HYMAX LONG BODY MEETS OR EXCEEDS STANDARDS  
AWWA C-219, NSF 61, NSF 372.

#### SIZE

AVAILABLE IN NOMINAL DIAMETER FROM 1.5"-24" STANDARD.  
26"-60" MTO (MADE TO ORDER). CALL KRAUSZ FOR DETAILS.

#### MATERIALS

##### END RINGS

1.5" - 12" ASTM A283 / A283M GRADE C STEEL  
14" - 16" ASTM A283 / A283M GRADE C STEEL  
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18)  
18" - 60" ASTM A283 / A283M GRADE C STEEL.

##### CENTER RING

1.5" - 12" ASTM A53 GRADE A STEEL  
14" - 60" ASTM A283 / A283M GRADE C STEEL.

##### GASKETS

EPDM COMPOUNDED FOR WATER AND SEWERAGE.  
MEETS INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

##### BRIDGE

AISI 304 STAINLESS STEEL.

##### SPHERICAL SPACERS

AISI 304L STAINLESS STEEL.

##### COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION.  
NOMINAL THICKNESS 14 MIL.

##### NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

## PRODUCT PERFORMANCE (\*)

<b>WORKING TEMPERATURE</b>	-20°F UP TO +125°F.			
<b>DYNAMIC DEFLECTION</b>	UP TO 4° PER SIDE.			
<b>MIN. PIPE INSERTION</b>	1.5"	2" - 3"	26" - 60"	
	2.25"	5.5"	5.9"	
<b>MAXIMUM OFFSET FOR MISALIGNED PIPES</b>	1.5" - 3"	4" - 60"		
	0.39"	0.51"		
<b>MAXIMUM OUT OF ROUNDNESS</b>	1.5"	2" - 3"	4" - 12"	14" - 60"
	0.08"	0.20"	0.31"	0.51"
<b>WORKING PRESSURE</b>	1.5" - 16"	18" - 24"	26" - 60"	
	260 PSI	232 PSI	CALL KRAUSZ FOR DETAILS.	
<b>RATED PRESSURE</b>	1.5" - 16"	18" - 24"	26" - 60"	
	390 PSI	350 PSI	CALL KRAUSZ FOR DETAILS.	
<b>VACUUM TEST</b>	12 PSI			

\* SEE SUBMITTAL DRAWINGS FOR DETAILS.

## PRODUCT TABLES

### HYMAX LONG BODY NOMINAL SIZES 1.5"-12"

Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Bolts Num. and Size (mm)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
862-56-0041-16	1.5	1.61-2.13	1.61-1.97	1.96-2.13	2 -M12	35	260	390	7
862-56-0054-16	2	2.10-3.03	2.10-2.60	2.56-3.03	2 -M12	50	260	390	8
862-56-0088-16	3	3.46-4.33	3.46-3.90	3.86-4.33	2 -M12	50	260	390	14
862-56-0108-16C	4	4.25-5.63	4.25-5.00	4.92-5.63	2 -M14	65	260	390	21
862-56-0130-16	5	5.12-6.38	5.12-5.75	5.71-6.38	2 -M14	65	260	390	28
862-56-0163-16	6	6.42-7.68	6.42-7.05	7.01-7.68	2 -M14	65	260	390	32
862-56-0190-16	7	7.48-8.74	7.48-8.11	8.07-8.74	2 -M14	65	260	390	36
862-56-0217-16	8	8.54-9.84	8.54-9.17	9.13-9.84	2 -M14	65	260	390	42
862-56-0272-16	10	10.70-12.00	10.70-11.37	11.33-12.00	2 -M14	65	260	390	50
862-56-0278-16	10	10.96-12.26	10.96-11.63	11.59-12.26	2 -M14	65	260	390	53
862-56-0315-16	12	12.40-13.66	12.40-13.03	12.99-13.66	2 -M14	65	260	390	54
862-56-0334-16	12	13.15-14.41	13.15-13.78	13.74-14.41	2 -M14	65	260	390	56

## PRODUCT TABLES

### HYMAX LONG BODY NOMINAL SIZES 14"-24"

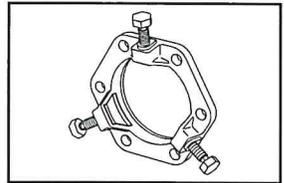
Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Bolts Num. and Size (mm)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
862-56-0378-16P	14	15.00-17.10	15.00-16.10	16.02-17.10	4 -M16	150	260	390	107
862-56-0434-16P	16	17.10-19.20	17.10-18.19	18.11-19.20	4 -M16	150	260	390	123
862-56-0488-16P	18	19.20-21.30	19.20-20.29	20.21-21.30	4 -M16	150	232	350	132
862-56-0497-16P	20	19.60-21.70	19.60-20.69	20.61-21.70	4 -M16	150	232	350	136
862-56-0540-16P	20	21.25-23.35	21.25-22.35	22.27-23.35	4 -M16	150	232	350	141
862-56-0606-16P	24	23.85-25.95	23.85-24.96	24.88-25.95	4 -M16	150	232	350	158
862-56-0624-16P	24	24.60-26.70	24.60-25.67	25.59-26.70	4 -M16	150	232	350	163

### HYMAX LONG BODY NOMINAL SIZES 26"-60"

Krausz Part Number	Nominal Diameter (inch)	Overall Range (inch)	Before removal of the inner layer (inch)	After removal of the inner layer (inch)	Torque (Ft-Lbs)	Working Pressure (PSI)	Rated Pressure (PSI)	Approx. Weight (Lbs)
862-56-0800-09P	30	31.50-33.60	31.50-32.60	32.50-33.60	250	130	195	256
862-56-0963-07P	36	37.90-40.00	37.90-39.00	38.90-40.00	300	110	165	278
862-56-1116-06P	42	43.90-46.00	43.90-45.00	44.90-46.00	300	95	142	335
862-56-1280-05P	48	50.40-52.50	50.40-51.50	51.40-52.50	350	80	120	342
862-56-1552-05P	60	61.10-63.20	61.10-62.20	62.10-63.20	350	65	97	405

# SUBMITTAL INFORMATION

## Uni-Flange Retainer (*UFR1400-DA-x-RB-I style*)



### WEDGE ACTION SERIES 1400-D RETAINER GLAND FOR DUCTILE IRON PIPE WITH BLUE FLUOROCARBON-COATED ACCESSORIES

Ductile iron wedge actuating screw, with the Auto-Tork break-away head design, ensures proper torque during installation.

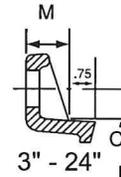
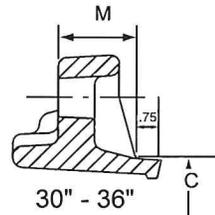
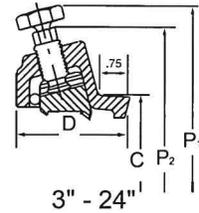
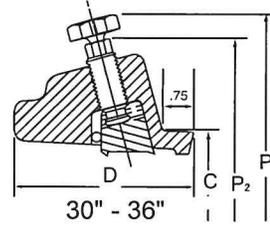
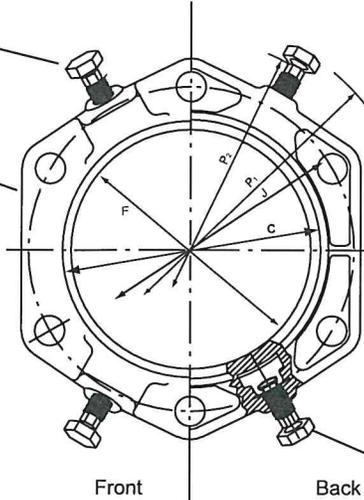
Gland body is of high strength ductile iron per ASTM A536, Grade 65-45-12. Compatible with all mechanical joints conforming to ANSI/AWWA C111/A21.11.



High strength low alloy T-bolts and nuts AWWA C111 blue fluorocarbon coated



Mechanical joint gasket AWWA C111



Wedges are ductile iron and heat treated to a hardness of 370 BHN minimum.



NOM. PIPE SIZE	O.D.	CATALOG NUMBER	PRESSURE RATING (PSI)	NO. OF WEDGES	APPROX. WEIGHT (LBS.)	P1*	P2**	C	D	F	M	J	✓ SUBMITTED ITEM(S)
3	3.96	UFR1400-DA-3-RB-I	350	2	8.6	11.04	9.06	4.84	2.65	4.06	0.68	6.19	
4	4.80	UFR1400-DA-4-RB-I	350	2	11.7	11.9	10.0	5.92	2.65	4.90	0.88	7.50	
6	6.90	UFR1400-DA-6-RB-I	350	3	17.6	14.0	12.1	8.02	2.65	7.00	0.88	9.50	
8	9.05	UFR1400-DA-8-RB-I	350	4	21.7	16.2	14.3	10.17	2.65	9.15	1.10	11.75	
10	11.10	UFR1400-DA-10-RB-I	350	6	31.9	18.2	16.3	12.22	2.75	11.20	1.10	14.00	
12	13.20	UFR1400-DA-12-RB-I	350	8	41.5	20.3	18.4	14.32	2.75	13.30	1.10	16.25	
14	15.30	UFR1400-DA-14-RB-I	350	10	57.0	22.9	20.9	16.40	3.00	15.50	1.50	18.75	
16	17.40	UFR1400-DA-16-RB-I	350	12	64.0	25.0	23.0	18.50	3.00	17.60	1.56	21.00	
18	19.50	UFR1400-DA-18-RB-I	250	12	81.0	28.1	25.8	20.60	3.05	19.70	1.65	23.25	
20	21.60	UFR1400-DA-20-RB-I	250	14	90.0	30.2	27.9	22.70	3.10	21.82	1.70	25.50	
24	25.80	UFR1400-DA-24-RB-I	250	16	107.0	34.4	32.1	26.90	3.20	26.04	1.85	30.00	
30	32.00	UFR1400-DA-30-RB-I	250	20	264.0	40.6	38.6	33.29	4.30	32.29	2.25	36.88	
36	38.30	UFR1400-DA-36-RB-I	250	24	318.0	46.9	44.9	39.59	4.50	38.62	2.25	43.75	

\* Maximum O.D. of gland on pipe before break-away heads have been removed (as received).

\*\* Maximum O.D. of gland on pipe after wedges have been activated and break-away heads have been removed.

### FEATURES

- Eliminates the need of costly and time consuming concrete thrust blocks and corrosion susceptible steel tie rods
- "Auto-Tork" wedge actuating screws assure proper installation
- Wedges are contoured to fit the pipe
- Set of high strength, low alloy T-Bolts and nuts (AWWA C111) with blue fluorocarbon coating
- Mechanical joint gasket (AWWA C111) 3"-24" sizes, Uni-Seal gasket 30" and 36" sizes
- Gland, screws and wedges are black e-coated
- Imported ductile iron castings
- Assembled, inspected and packaged in the U.S.A.
- FM Approved (4"-12") and UL Listed (4"- 48")

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



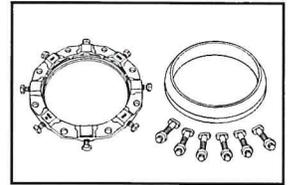
**The Ford Meter Box Company, Inc.**  
 P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
 Phone: 260-563-3171 / Fax: 800-826-3487  
 Overseas Fax: 260-563-0167  
 www.fordmeterbox.com

01/30/15

Submitted By:

# SUBMITTAL INFORMATION

## Mechanical Joint Retainer (UFR1500-CA-x-RB-I style)



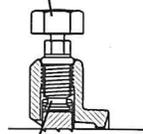
### 4" - 12" SERIES UFR1500 CIRCLE LOCK MECHANICAL JOINT RESTRAINT FOR C900 OR C909 PVC PACKAGED FLUOROCARBON-COATED WITH ACCESSORIES

Ductile iron actuating screw, with the Auto-Tork break-away head design, insures proper torque during installation.

Safety stop insures ring segments can never be over-tightened.

Mechanical joint gasket

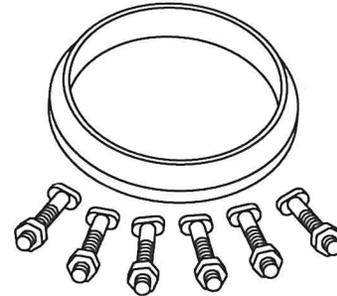
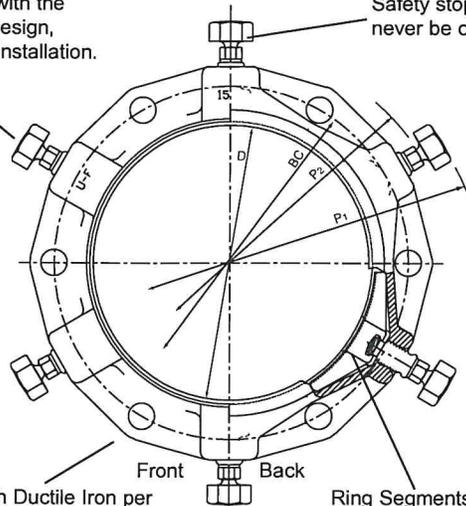
Auto-Tork Bolt



Restraint Segment



Bolt Hole Cross Section



Gland body is of High Strength Ductile Iron per ASTM A536, Grade 65-45-12. ==Compatible with all mechanical joints conforming to ANSI / AWWA C111 / A21.11.

Ring Segments are ductile iron per ASTM A536 and heat treated to a hardness of 370 BHN minimum

High strength, low alloy T-bolts & nuts (AWWA C111) blue fluorocarbon-coated

NOM PIPE SIZE	PIPE O.D.	CATALOG NUMBER	NO. OF SEGMENTS	APPROX. WEIGHT (LBS)	P1*	P2**	BC	D	PRESSURE RATING				✓ SUBMITTED ITEM(S)
									C900		C909		
									DR-14	DR-18	DR-25	PC-235	
4"	4.80	UFR1500-CA-4-RB-I	4	11.00	13.00"	9.40"	7.50"	4.90"	305	235	165		
6"	6.90	UFR1500-CA-6-RB-I	6	15.00	15.13"	11.60"	9.50"	7.00"	305	235	165	235	
8"	9.05	UFR1500-CA-8-RB-I	6	18.00	17.25"	13.75"	11.75"	9.15"	305	235	165	235	
10"	11.10	UFR1500-CA-10-RB-I	8	26.00	19.38"	16.00"	14.00"	11.20"	305	235	165	235	
12"	13.20	UFR1500-CA-12-RB-I	8	29.00	21.50"	18.05"	16.25"	13.30"	305	235	165	235	

\*Maximum O.D. of gland on pipe before Auto-Tork heads are removed (as shipped).

\*\*Maximum O.D. of gland on pipe after Auto-Tork heads are removed.

### FEATURES

- Full circle contact and support of the pipe wall.
- "Auto-Tork" actuating screws with heads specially designed to twist off at the correct installation torque, leaving a hex head in case future system maintenance or removal is required
- Set of high strength, low alloy T-Bolts and nuts with blue fluorocarbon-coating (AWWA C111)
- Mechanical joint gasket (AWWA C111)
- Series 1500 eliminates the need to pour expensive and time consuming concrete thrust blocks
- Restraining segments are mechanically retained in pockets
- Imported ductile iron castings
- Gland, screws and segments are black epoxy coated using the e-coat process
- Gland colored red for identification purposes
- Assembled, inspected and packaged in the U.S.A.

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



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<http://www.fordmeterbox.com>

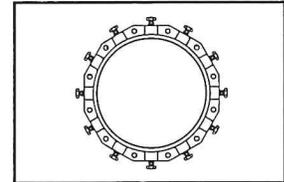


02/06/14

Submitted By:

# SUBMITTAL INFORMATION

## Mechanical Joint Retainer (UFR1500-CA-xx-RB-I style)

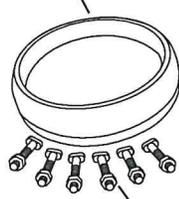


### 14" - 36" SERIES UFR1500-C MECHANICAL JOINT RESTRAINT FOR C905 PVC PIPE OR HDPE WITH BLUE FLUOROCARBON-COATED ACCESSORIES

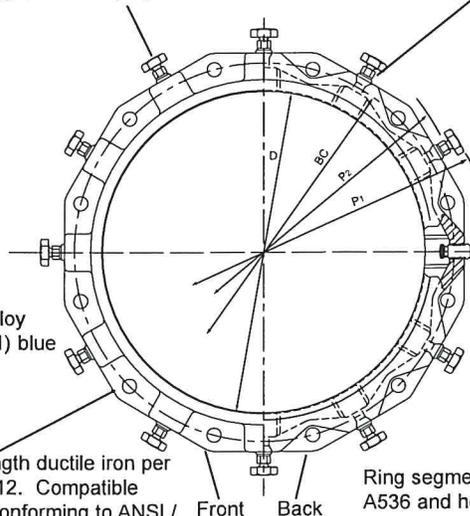
Ductile iron actuating screw, with the Auto-Tork break-away head design, ensures proper torque during installation

Safety stop ensures ring segments can never be over-tightened

Mechanical joint gasket



Set of high strength, low alloy t-bolts & nuts (AWWA C111) blue fluorocarbon-coated

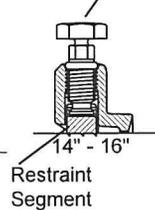


Gland body is of high strength ductile iron per ASTM A536, grade 65-45-12. Compatible with all mechanical joints conforming to ANSI / AWWA C111 / A21.11

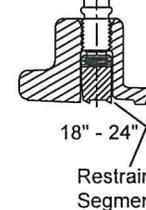
Front Back

Ring segments are ductile iron per ASTM A536 and heat treated to a hardness of 370 BHN minimum

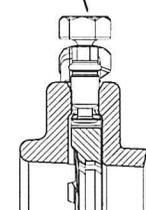
Auto-Tork Bolt



Auto-Tork Bolt



Auto-Tork Bolt



Restraint Segment

NOM. PIPE SIZE	O.D.	CATALOG NUMBER AWWA C905 PVC PIPE	NO. OF RESTRAINT SEGMENTS	APPROX. WEIGHT (LBS.)	P1*	P2**	BC	D	PRESSURE RATING			✓SUBMITTED ITEM(S)
									C905 DR-14	C905 DR-18	C905 DR-25	
14"	15.30	UFR1500-CA-14-RB-I	10	47	23.62	22.72	18.75	15.44	305 PSI	235 PSI	165 PSI	
16"	17.40	UFR1500-CA-16-RB-I	12	63	26.18	25.28	21.0	17.54	305 PSI	235 PSI	165 PSI	
18"	19.50	UFR1500-CA-18-RB-I	12	70	28.28	27.38	23.25	19.64	-	235 PSI	165 PSI	
20"	21.60	UFR1500-CA-20-RB-I	14	96	30.38	29.48	25.5	21.74	-	235 PSI	165 PSI	
24"	25.80	UFR1500-CA-24-RB-I	16	126	34.58	33.68	30.0	25.94	-	235 PSI	165 PSI	
30"	32.00	UFR1500-CA-30-RB-I	20	180	40.79	38.06	36.88	32.30	-	235 PSI	165 PSI	
36"	38.30	UFR1500-CA-36-RB-I	24	240	46.84	44.40	43.75	38.62	-	235 PSI	165 PSI	

\*Maximum O.D. of gland on pipe before Auto-Tork heads are removed (as shipped)

\*\*Maximum O.D. of gland on pipe after Auto-Tork heads are removed

**Note:** Ford recommends the use of a properly sized insert stiffener when using UFR1500 on HDPE

### FEATURES

- Full circle contact and support of the pipe wall. The Series 1500 can be used on any thickness class of AWWA C905 PVC pipe or HDPE without any point loading
- "Auto-Tork" actuating screws with heads specially designed to twist off at the correct installation torque, leaving a hex head in case future system maintenance or removal is required.
- Set of high strength, low alloy t-bolt and nuts (AWWA C111) with blue fluorocarbon coating
- Mechanical joint gasket (AWWA C111) 14"-24" sizes
- Series 1500 eliminates the need to pour expensive and time consuming concrete thrust blocks
- Restraining segments are mechanically retained in pockets
- Gland, screws and segments are black epoxy coated using the e-coat process
- Gland colored red for identification purposes

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www.fordmeterbox.com



Submitted By:

07/24/17



# A/C COMMON GROOVE TRANSITION GASKETS (FOR CI & IPS PIPE)

## MATERIAL SPECIFICATIONS

**GASKET:** SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.

**USE:** The gasket is designed to be used in cast iron fittings with an A/C common groove, or asbestos-cement couplings for adapting to C900 PVC or ductile iron pipe.



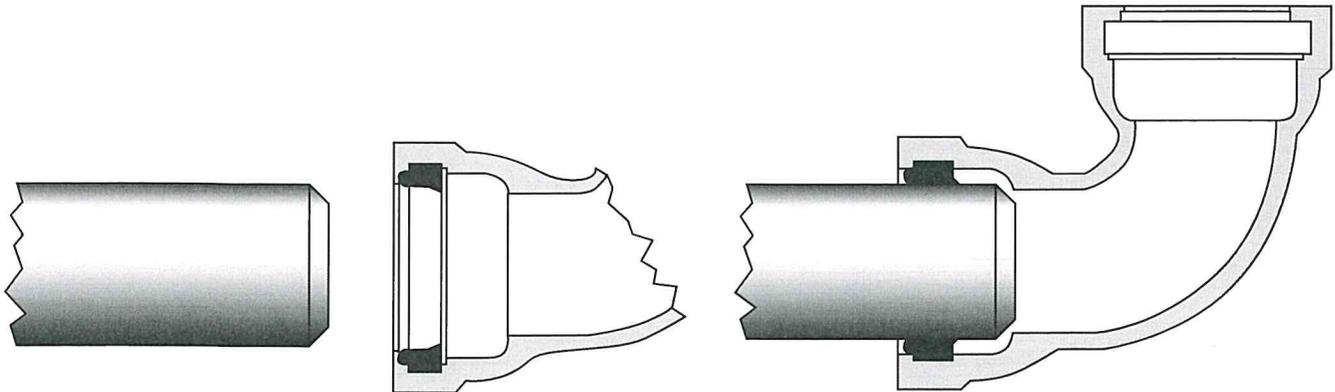
NSF61 certified upon request.



### A/C x CI TRANSITION GASKET

NOM. PIPE SIZE	CATALOG NUMBER	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	4" - A/C x CI Transition Gasket	0.3 #	\$14.42
6"	6" - A/C x CI Transition Gasket	0.5 #	17.79
8"	8" - A/C x CI Transition Gasket	0.8 #	21.03
10"	10" - A/C x CI Transition Gasket	1.0 #	29.53
12"	12" - A/C x CI Transition Gasket	1.0 #	37.99

**TO ORDER:** Specify catalog number.



## MATERIAL SPECIFICATIONS

**GASKET:** SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.

**USE:** The gasket is designed to be used in cast iron fittings with an A/C common groove, or asbestos-cement couplings for adapting to PVC or steel pipe (IPS dimension).



NSF61 certified upon request.



### A/C x IPS TRANSITION GASKET

NOM. PIPE SIZE	CATALOG NUMBER	APPROX. WEIGHT (lbs.)	LIST PRICE
4"	4" - A/C x IPS Transition Gasket	0.3 #	\$13.04
6"	6" - A/C x IPS Transition Gasket	0.5 #	15.35
8"	8" - A/C x IPS Transition Gasket	0.8 #	20.15

**TO ORDER:** Specify catalog number.

A/C x PVC Sewer Adapter Gasket available. See Page 7-9.



# Standard Mechanical Joint Gaskets

(SBR, NBR, EPDM, Neoprene, FKM)

ANSI/AWWA C111/A21.11

## GASKET GENERAL SPECIFICATIONS

Star Pipe Products Mechanical Joint (MJ) Gasket dimensions conform to the drawings set forth in ANSI/AWWA C111/A21.11. Gasket markings include size, Manufacturer's mark, Country of origin and product identification. No markings are positioned on sealing surfaces per the ANSI/AWWA C111/A21.11 standard. MJ transition gaskets follow the requirements of ANSI/AWWA C111/A21.11 where applicable.

Standard gasket material is vulcanized styrene butadiene rubber (SBR). Special application elastomers (EPDM, Nitrile, Neoprene & FKM) are available and shall be identified on all documentation and corresponding gaskets.

Star Pipe gaskets are manufactured under quality control standards and procedures that are maintained by the gasket supplier. Appropriate documentation is maintained by the manufacturer and available for review upon request.

Star Pipe gasket suppliers maintain a quality assurance program and manual that is reviewed and updated on an ongoing basis to ensure product quality. Star Pipe gasket suppliers perform in house testing and submit to random testing by Underwriters Laboratories, Inc. Star Pipe gasket providers are recognized under the component program (UL 194/ UL 157) of Underwriters Laboratories, Inc.

Star Pipe provides that our Mechanical Joint gaskets for potable or wastewater projects will perform as designed, based on the published chemical and environmental resistance data for "generic" rubber compounds. Star Pipe should be consulted for specific recommendations or for unusual applications.

GASKET PROPERTIES		
PROPERTY	ASTM TEST METHOD	REQUIRED VALUE
Hardness, Shore "A"	D2240	75 ± 5
Minimum Tensile	D412	1500 psi
Minimum Elongation	D412	150%
Minimum Aging	D573	60%
Maximum Compression Set	D395, Method B	20%
Resistance to Surface Ozone Cracking	D1149	No Cracking

GASKET TYPE	MAXIMUM CONTINUOUS TEMP	MAXIMUM EXPOSURE TEMP	STANDARD USAGE
<b>SBR</b> (Styrene Butadiene Rubber/ Buna-S)	160 F	180 F	Drinking water, Salt Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water. Not Recommended for Hydrocarbon Service
<b>EPDM</b> (Ethylene Propylene)	250 F	300 F	Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK/Acetone), Strong Oxidizing Chemicals; Drinking Water, Salt Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water. Not Recommended for Hydrocarbon Service
<b>Neoprene</b> (Polychlorprene / CR)	225 F	300 F	Hydrocarbons, Unrefined Petroleum Products, Greasy Waste; Salt Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water.
<b>Nitrile</b> (NBR / Buna-N)	160 F	180 F	Refined Oils and Fluids, Fats, Greases and Waste; Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water.
<b>FKM</b> (Flouroelastomer / Viton®)	400 F	500 F	Aromatic Hydrocarbons, Chlorinated Hydrocarbons, Vegetable Oils, Most Chemicals; Drinking Water, Reclaimed Water, Raw Water, Storm Water.

Viton® is a registered trademark of E.I. Du Pont De Nemours & Company.

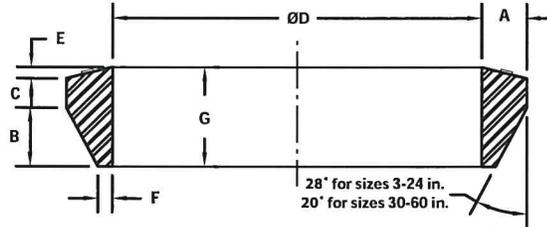
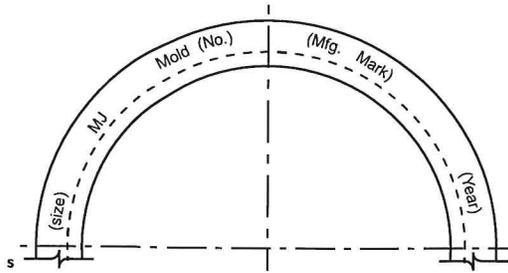
UCAT 15.01  
\*REGISTERED TRADEMARK OF STAR PIPE PRODUCTS



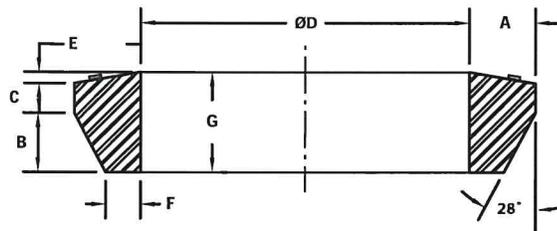
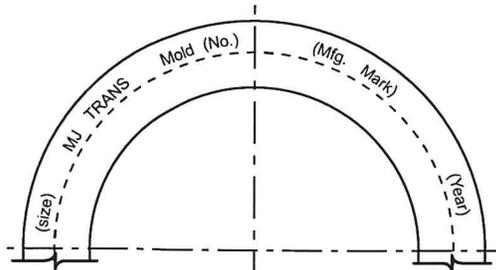


MJ Accessories

ANSI/AWWA C111/A21.11



MECHANICAL-JOINT GASKET								
NOM. SIZE	PIPE O.D.	A	B	C	ØD ±1 %	E	F	G
2	2.50	0.48	0.62	0.31	2.48	0.12	0.15	1.05
3	3.96	0.48	0.62	0.31	3.86	0.12	0.15	1.05
4	4.80	0.62	0.75	0.31	4.68	0.16	0.22	1.22
6	6.90	0.62	0.75	0.31	6.73	0.16	0.22	1.22
8	9.05	0.62	0.75	0.31	8.85	0.16	0.22	1.22
10	11.10	0.62	0.75	0.31	10.87	0.16	0.22	1.22
12	13.20	0.62	0.75	0.31	12.95	0.16	0.22	1.22
14	15.30	0.62	0.75	0.31	14.99	0.16	0.22	1.22
16	17.40	0.62	0.75	0.31	17.07	0.16	0.22	1.22
18	19.50	0.62	0.75	0.31	19.13	0.16	0.22	1.22
20	21.60	0.62	0.75	0.31	21.20	0.16	0.22	1.22
24	25.80	0.62	0.75	0.31	25.34	0.16	0.22	1.22
30	32.00	0.73	1.00	0.38	31.47	0.16	0.37	1.54
36	38.30	0.73	1.00	0.38	37.67	0.16	0.37	1.54
42	44.50	0.73	1.00	0.38	43.78	0.16	0.37	1.54
48	50.80	0.73	1.00	0.38	49.98	0.16	0.37	1.54



TRANSITION MECHANICAL-JOINT GASKET								
NOM. SIZE	PIPE O.D.	A	B	C (REF.)	ØD ±1 %	E	F	G
2	2.375	0.56	0.66	0.31	2.32	0.12	0.21	1.10
3	3.500	0.72	0.64	0.34	3.43	0.12	0.38	1.10
4	4.500	0.76	0.73	0.33	4.43	0.20	0.37	1.26
6	6.625	0.75	0.73	0.32	6.53	0.20	0.36	1.25
8	8.625	0.82	0.73	0.34	8.50	0.20	0.43	1.27
10	10.750	0.79	0.75	0.31	10.59	0.20	0.39	1.26
12	12.750	0.84	0.75	0.33	12.56	0.20	0.44	1.28

STAR® PIPE PRODUCTS



UCAT.15.01  
\* REGISTERED TRADEMARK OF STAR PIPE PRODUCTS

STAR PIPE PRODUCTS  
HOUSTON CORPORATE | TOLL FREE 1-800-999-3009 | FAX 281-558-9000  
www.starpipeproducts.com



4700 W. 160th St.  
Cleveland, OH 44135  
PH: 800-321-9532  
FX: 800-321-9535  
www.oatey.com

TECHNICAL SPECIFICATION

**ALL PURPOSE  
PIPE LUBRICANT**



**TECHNICAL SPECIFICATION:** Oatey All Purpose Pipe Lubricant is used for assembling pipelines including cast iron, concrete, plastic and clay pipe. Pipe Lubricant is a mixed fatty acid soap dispersed in glycols and water solvents with a clay pigment filler. Pipe Lubricant can be applied from -10° F to 150° F. It will not deteriorate natural or synthetic rubber, plastic gaskets or cast iron pipe. Pipe Lubricant contains no petroleum oils or phosphates and will not support bacterial growth.



**COMMON APPLICATIONS**

Oatey All Purpose Pipe Lubricant is used for assembling gasketed pipelines including cast iron, concrete, plastic and clay pipe.

Consult Oatey Technical Department for applications not specifically referenced above.

**INGREDIENTS**

Blend of soap and non-toxic ingredients.

**APPROVALS AND LISTINGS**



NSF Listed to  
Standard 61

**PHYSICAL/CHEMICAL PROPERTIES**

Bulk Density ~ 9.3 lb/gal  
Appearance Soft Amber Paste  
Shelf Life 1 year from manufacture date  
Free Fatty Acid 1-3%  
Total Alkalinity 100 mg KOH/g equivalent  
pH ~ 9.5

**DIRECTIONS FOR USE**

All Purpose Pipe Lubricant is ready to use from the container. Do not dilute, thin or otherwise alter the product's consistency. Follow guidelines for lubrication and assembly provided by pipe, fitting and gasket manufacturers. Clean both the inside of the bell and the outside of the spigot. Completely lubricate the inside surface of the bell and the gasket. The lubricant can be brushed on, swabbed on, or wiped on by hand with a cloth glove. Be sure to get full lubricant coverage. Don't leave any dry areas. Do not apply lubricant into the ring groove.

**PRECAUTIONS**

Read all cautions and directions carefully before using this product. Avoid contact with eyes. Prolonged contact with skin could cause irritation. Wash with soap and water. If irritation persists, contact physician. Keep container closed when not in use. DO NOT REUSE EMPTY CONTAINER. KEEP OUT OF REACH OF CHILDREN.

Refer to material safety data sheet for more information. For emergency first aid help, call 1-303-623-5716 COLLECT.

PRODUCT NUMBER	DESCRIPTION	PACK	CARTON WEIGHT
30599	16 oz. Pipe Lubricant	24	30 lbs.
30600	32 oz. Pipe Lubricant	12	25 lbs.
30601	Gallon Pipe Lubricant	4	34 lbs.
30605	5 Gallon Pipe Lubricant	1	42 lbs.



# MACRO HP™

## Two-Bolt Wide Range Ductile Iron Coupling

### MACRO HP™

#### TWO-BOLT EXTENDED RANGE COUPLING

- **New Sizes - Macro HP is now available for pipe sizes 2" through 12"**
- High Performance One-Piece Gasket
- Up To 25% Higher Working Pressure (up to 305 PSI)
- Up To 25% More Deflection (up to 10°)
- Stainless Steel Armors Are Bonded To Gaskets
- Patent Number: 8448993



Meets AWWA C219

A ROMAC ORIGINAL  
 2009 - M A C R O™

## MACRO HP ADVANTAGES

- **DUCTILE IRON**  
 Long-life ductile iron end-rings and center-ring.
- **WIDE RANGE**  
 Macro HP fits a wide variety of pipe materials and diameters.
- **SIMPLE INSTALLATION**  
 Macro HP is a fast stab-fit installation with only two bolts to tighten. The built-in handle makes the Macro HP simple to carry and maneuver.
- **EASY TO REMOVE**  
 In the event that the coupling needs to be removed, Macro HP can be quickly removed simply by loosening two bolts.
- **CATHODIC PROTECTION**  
 The Macro HP can be ordered with an adapter/connection for cathodic protection if desired.
- **ALLOWS DEFLECTION**  
 When properly installed the Macro HP can accommodate pipe deflection of up to 10 degrees (5 degrees on each end).
- **MANUFACTURED IN THE U.S.A. BY ROMAC INDUSTRIES, INC.**  
 Patent Number: 8448993

Material Specifications

**Castings:** All cast components (end rings, center ring, and bolt guides) are ductile iron, meeting or exceeding the requirements of ASTM A 536, grade 65-45-12. End rings are segmented and joined with a hinge.

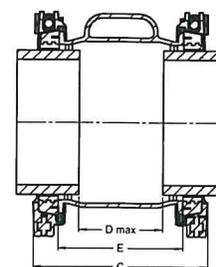
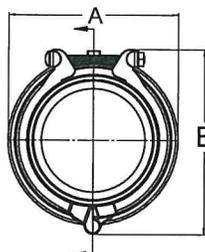
**Gaskets:** Gaskets formed from virgin Nitrile Butadiene Rubber (NBR) compounded for water and sewer service in accordance with ASTM D2000. Other compounds available on request.

**Bolts & Nuts:** 304 stainless steel, UNC carriage head bolts with heavy hex nuts. Sizes 2" & 3": 1/2-13. Sizes 4" - 12": 5/8-11. 316 stainless steel available upon request. Fasteners provided with anti-galling protection.

**Armor:** Heavy gauge 304 stainless steel bonded to gaskets.

**Coatings:** Center ring fusion bonded epoxy. End rings are E-Coated epoxy.

**Pressure:** When properly installed, the Romac MACRO HP coupling can be used at working pressures up to 305 psi. Contact Romac Engineering for details.



See following page for dimensions.

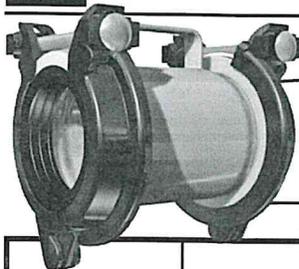


Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions.



# MACRO HP™

## Two-Bolt Wide Range Ductile Iron Coupling



**NEW SIZES**  
for applications on  
2" and 3" pipe

The 2 and 3 inch Macro HP Couplings are designed to fit most common pipe materials.

For other ranges and gasket configurations not shown in the table below, contact Romac Industries, Inc.

NOMINAL PIPE SIZE	COUPLING RANGE	DIMENSIONS					LIST PRICE	APPROX. WT. (LBS.)
		DIM. A (WIDTH)	DIM. B (HEIGHT)	DIM. C (LENGTH)	DIM. D (GAP BETWEEN PIPE ENDS)	DIM. E (CENTER RING LENGTH)		
2"	2.12 - 2.55	5.80	6.75	6.38	2.00	4.00	\$183.10	9
2" XL	2.50 - 2.90							
3"	3.13 - 3.63	7.20	8.36	8.38	4.00	6.00	240.25	12
3" XL	3.63 - 4.13							

**WIDE RANGE GASKETS**

MACRO HP Sizes 4 - 12 inch, are preassembled with standard wide range gaskets that accommodate IPS through cast iron pipe. XL sizes cover DI through Oversize Cast Iron pipe diameters.

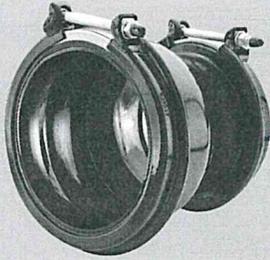
**A/C GASKET INCLUDED**

For larger pipe diameters such as some asbestos cement, a separate A/C gasket is included.

NOM. PIPE SIZE	OVERALL COUPLING RANGE		DIMENSIONS					LIST PRICE	APPROX. WT. (LBS.)
	FACTORY PREASSEMBLED	INCLUDED, REQUIRES GASKET CHANGE	DIM. A (WIDTH)	DIM. B (HEIGHT)	DIM. C (LENGTH)	DIM. D (GAP BETWEEN PIPE ENDS)	DIM. E (CENTER RING LENGTH)		
4"	4.40 - 5.05 WIDE RANGE GASKET	4.95 - 5.60 A/C GASKET RANGE	8.96	10.18	11.19	6.00	8.00	\$309.35	28
6"	6.60 - 7.15 WIDE RANGE GASKET	7.10 - 7.60 A/C GASKET RANGE	10.96	12.18	11.19	6.00	8.00	408.25	34
8"	8.60 - 9.30 WIDE RANGE GASKET	9.10 - 9.75 A/C GASKET RANGE	13.11	14.33	11.19	6.00	8.00	462.30	36
10"	10.70 - 11.30 WIDE RANGE GASKET	11.25 - 11.90 A/C GASKET RANGE	15.26	16.48	11.19	6.00	8.00	598.00	57
10" XL	11.00 - 11.65 WIDE RANGE GASKET	11.55 - 12.20 A/C GASKET RANGE	15.56	16.78	11.19	6.00	8.00	639.40	59
12"	12.70 - 13.30 WIDE RANGE GASKET	13.15 - 13.80 A/C GASKET RANGE	17.16	18.38	11.19	6.00	8.00	703.80	62
12" XL	13.15 - 13.80 WIDE RANGE GASKET	13.75 - 14.40 A/C GASKET RANGE	17.76	18.98	11.19	6.00	8.00	841.80	64

**To Order MACRO HP Coupling:** Determine the O.D. of the pipes to be coupled, and select coupling size which covers the pipe diameters of both pipe ends. Use the high range [shaded number in table above] of the overall coupling range to identify which coupling you're ordering.

**Example:** To couple 8" DI and 8" std. steel, order **MACRO HP 9.75**.



# HYMAX<sup>®</sup> REDUCER

(1.5"-60")

**HYMAX<sup>®</sup>**  
Repair the past. Connect the future.

## PRODUCT SPECIFICATIONS

### FEATURES

- USING THE GAME-CHANGING HYMAX TECHNOLOGY, PROVEN IN OVER 1M INSTALLATIONS IN THE US
- SUITABLE FOR ALL TYPES OF PIPES - DUCTILE IRON, CAST IRON, STEEL, COPPER, PE, PVC, AC, GRP
- JOINS PIPES OF DIFFERENT SIZES
- PATENTED HYDRAULICALLY-ASSISTED GASKET WITH 2-STAGE SEALING
- LIGHTWEIGHT CONSTRUCTION ENABLES FAST AND EASY INSTALLATION
- ALLOWS 4° DYNAMIC DEFLECTION ON EACH END, REDUCING FUTURE PIPE DAMAGE
- ONE PRODUCT CAN CONNECT PIPES OF TWO DIFFERENT MATERIALS

### SPECIFICATIONS

#### STANDARDS

HYMAX REDUCER MEETS OR EXCEEDS STANDARDS AWWA C-219, NSF 61, NSF 372.

#### SIZE

AVAILABLE IN NOMINAL DIAMETERS FROM 1.5"-24" STANDARD. 26"-60" MTO (MADE TO ORDER). CALL KRAUSZ FOR DETAILS.

#### MATERIALS

##### END RINGS

1.5"-12"- ASTM A283 / A 283M GRADE C STEEL.  
14"-16"- ASTM A283 / A 283M GRADE C STEEL.  
(OR DUCTILE IRON CASTING ASTM A536 GRADE 60-40-18)  
18"-60"- ASTM A283 / A283M GRADE C STEEL.

##### CENTER RING

1.5"-12"- ASTM A53 GRADE A STEEL.  
14"-60"- ASTM A283 / A283M GRADE C STEEL.

##### GASKETS

EPDM AND NBR AVAILABLE. BOTH ARE COMPOUNDED FOR WATER AND SEWAGE, MEET INTERNATIONAL STANDARDS FOR CONTACT WITH DRINKING WATER.

##### BRIDGE

AISI 304 STAINLESS STEEL.

##### SPHERICAL SPACERS

AISI 304 STAINLESS STEEL.

##### COATING

100% FUSION BONDED EPOXY FOR ENHANCED CORROSION PROTECTION. NOMINAL THICKNESS 14 MIL.

##### NUTS AND BOLTS

AISI 304 STAINLESS STEEL. ROLLED THREAD AND ANTI-GALLING COATING.

## PRODUCT PERFORMANCE (\*)

<b>WORKING TEMPERATURE</b>	EPDM: -20°F UP TO +125°F NBR: -4°F UP TO +125°F			
<b>DYNAMIC DEFLECTION</b>	1.5"-48" UP TO 4° PER SIDE		>48" UP TO 3° PER SIDE	
<b>MIN. PIPE INSERTION</b>	1.5"-12" 2.25"	14"-60" 4"		
<b>MAXIMUM OFFSET FOR MISALIGNED PIPES</b>	1.5"-3" 0.39"	4"-60" 0.51"		
<b>MAXIMUM OUT OF ROUNDNESS</b>	1.5" 0.08"	2"-3" 0.20"	4"-12" 0.31"	14"-60" 0.51"
<b>WORKING PRESSURE</b>	1.5"-16" 260 PSI	18"-24" 232 PSI	26"-60" CALL KRAUSZ FOR DETAILS	
<b>RATED PRESSURE</b>	1.5"-16" 390 PSI	18"-24" 350 PSI	26"-60" CALL KRAUSZ FOR DETAILS	
<b>VACUUM TEST</b>	12 PSI			

\* SEE SUBMITTAL DRAWINGS FOR DETAILS.

## PRODUCT TABLES

### ND 1.5"-12" EPDM/NBR

ND (inch)	EPDM (Ft- Lb)		NBR (Ft-Lb)	
	Torque Side 1 (Ft- Lb)	Torque Side 2 (Ft- Lb)	Torque Side 1 (Ft- Lb)	Torque Side 2 (Ft- Lb)
1.5X2	35	50	-	-
2X3	50	50	50	50
3X4	50	65	50	75
4X5	65	65	75	75
4X6	65	65	75	75
5X6	65	65	75	75
6X7	65	65	75	75
6X8	65	65	75	75
7X8	65	65	75	75
8X10	65	65	75	75
10X10	65	65	75	75
12X12	65	65	75	75

### ND 12"-24" EPDM

ND (inch)	Torque Side 1 (Ft- Lb)	Torque Side 2 (Ft- Lb)
12X14	65	150
14X16	150	150
16X18	150	150
18X20	150	150
20X24	150	150

## PRODUCT CONFIGURATIONS

The product is offered in several different configurations. Note that the "xx" marking in the Cat. no. should be replaced as directed:

### Part Number 861-XX

56 -> Product with EPDM gasket

57 -> Product with NBR gasket

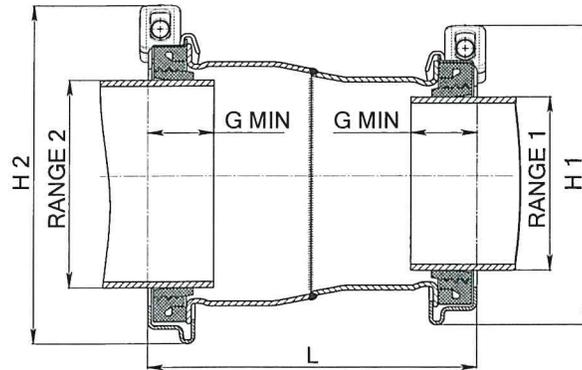
For example:

861XX0054008816 should be read as 861560054008816 for EPDM gasket and 861570054008816 for NBR gasket.

\* NBR gasket available in sizes 2"X3" - 12"X12"

## PRODUCT TABLES

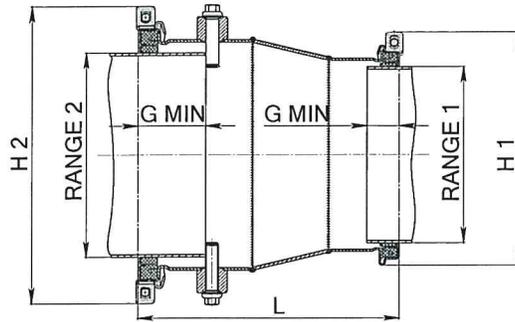
### HYMAX REDUCER NOMINAL SIZES 1.5"-12"



Krausz Part Number	ND (inch)	Overall Range 1 (inch)	Before Removal of Inner Layer 1 (inch)	After Removal of Inner Layer 1 (inch)	Overall Range 2 (inch)	Before Removal of Inner Layer 2 (inch)	After Removal of Inner Layer 2 (inch)	Bolts Qty. -Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (Lbs)
861560041005416	1.5 x 2	1.61-2.13	1.61-1.97	1.96-2.13	2.10-3.03	2.10-2.60	2.56-3.03	2 -M12	5.0	5.7	8.6	7
861XX0054008816	2 x 3	2.10-3.03	2.10-2.60	2.56-3.03	3.46-4.33	3.46-3.90	3.86-4.33	2 -M12	5.7	7.1	7.8	9
861XX0088010816	3 x 4	3.46-4.33	3.46-3.90	3.86-4.33	4.25-5.63	4.25-5.00	4.92-5.63	2 -M14	7.1	9.3	8.8	13
861XX0108013016	4 x 5	4.25-5.63	4.25-5.00	4.92-5.63	5.12-6.38	5.12-5.75	5.71-6.38	2 -M14	9.3	10.0	9.8	16
861XX0108016316	4 x 6	4.25-5.63	4.25-5.00	4.92-5.63	6.42-7.68	6.42-7.05	7.01-7.68	2 -M14	9.3	11.3	9.8	20
861XX0130016316	5 x 6	5.12-6.38	5.12-5.75	5.71-6.38	6.42-7.68	6.42-7.05	7.01-7.68	2 -M14	10.0	11.3	10.8	20
861XX0163019016	6 x 7	6.42-7.68	6.42-7.05	7.01-7.68	7.48-8.74	7.48-8.11	8.07-8.74	2 -M14	11.3	12.2	10.8	22
861XX0163021716	6 x 8	6.42-7.68	6.42-7.05	7.01-7.68	8.54-9.84	8.54-9.17	9.13-9.84	2 -M14	11.3	13.1	10.8	24
861XX0190021716	7 x 8	7.48-8.74	7.48-8.11	8.07-8.74	8.54-9.84	8.54-9.17	9.13-9.84	2 -M14	12.2	13.1	10.8	26
861XX0217027216	8 x 10	8.54-9.84	8.54-9.17	9.13-9.84	10.70-12.00	10.70-11.37	11.33-12.00	2 -M14	13.1	15.6	10.8	29
861XX0217027816	8 x 10	8.54-9.84	8.54-9.17	9.13-9.84	10.96-12.26	10.96-11.63	11.59-12.26	2 -M14	13.1	15.8	10.8	32
861XX0272027816	10 x 10	10.70-12.00	10.70-11.37	11.33-12.00	10.96-12.26	10.96-11.63	11.59-12.26	2 -M14	15.6	15.8	10.8	32
861XX0272031516	10 x 12	10.70-12.00	10.70-11.37	11.33-12.00	12.40-13.66	12.40-13.03	12.99-13.66	2 -M14	15.6	17.5	10.8	36
861XX0278031516	10 x 12	10.96-12.26	10.96-11.63	11.59-12.26	12.40-13.66	12.40-13.03	12.99-13.66	2 -M14	15.8	17.5	10.8	36
861XX0278033416	10 x 12	10.96-12.26	10.96-11.63	11.59-12.26	13.15-14.41	13.15-13.78	13.74-14.41	2 -M14	15.8	18.1	10.8	36
861XX0315033416	12 x 12	12.40-13.66	12.40-13.03	12.99-13.66	13.15-14.41	13.15-13.78	13.74-14.41	2 -M14	17.5	18.1	10.8	37

## PRODUCT TABLES

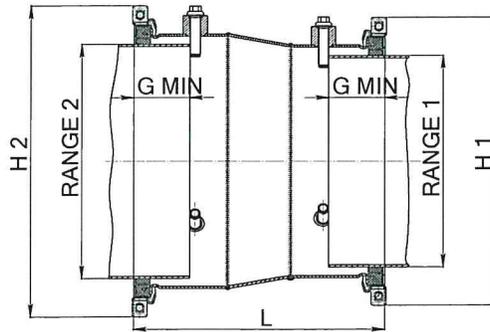
### HYMAX REDUCER NOMINAL SIZES 12"-14"



Krausz Part Number	ND (inch)	Overall Range 1 (inch)	Before Removal of Inner Layer 1 (inch)	After Removal of Inner Layer 1 (inch)	Overall Range 2 (inch)	Before Removal of Inner Layer 2 (inch)	After Removal of Inner Layer 2 (inch)	Bolts Qty. -Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (Lbs)
861560315035316	12 x 14	12.40-13.66	12.40-13.03	12.99-13.66	13.90-16.00	13.90-15.00	14.92-16.00	1 -M14 2 -M16	17.5	23.2	20.3	90
861560315037816	12 x 14	12.40-13.66	12.40-13.03	12.99-13.66	15.00-17.10	15.00-16.10	16.02-17.10	1 -M14 2 -M16	17.5	23.2	20.3	100
861560334037816	12 x 14	13.15-14.41	13.15-13.78	13.74-14.41	15.00-17.10	15.00-16.10	16.02-17.10	1 -M14 2 -M16	18.1	23.2	20.3	100

## PRODUCT TABLES

### HYMAX REDUCER NOMINAL SIZES 14"-24"



Krausz Part Number	ND (inch)	Overall Range 1 (inch)	Before Removal of Inner Layer 1 (inch)	After Removal of Inner Layer 1 (inch)	Overall Range 2 (inch)	Before Removal of Inner Layer 2 (inch)	After Removal of Inner Layer 2 (inch)	Bolts Qty. -Size	H1 (inch)	H2 (inch)	L (inch)	Approx. Weight (Lbs)
861560378043416	14 x 16	15.00-17.10	15.00-16.10	16.02-17.10	17.10-19.20	17.10-18.19	18.11-19.20	4 -M16	23.2	25.6	23.8	142
861560434048816	16 x 18	17.10-19.20	17.10-18.19	18.11-19.20	19.20-21.30	19.20-20.29	20.21-21.30	4 -M16	25.6	27.8	23.8	162
861560488054016	18 x 20	19.20-21.30	19.20-20.29	20.21-21.30	21.25-23.35	21.25-22.35	22.27-23.35	4 -M16	27.8	29.8	23.8	172
861560540060616	20 x 24	21.25-23.35	21.25-22.35	22.27-23.35	23.85-25.95	23.85-24.96	24.88-25.95	4 -M16	29.8	31.7	23.8	180
861560540062416	20 x 24	21.25-23.35	21.25-22.35	22.27-23.35	24.60-26.70	24.60-25.67	25.59-26.70	4 -M16	29.8	33.2	23.8	182

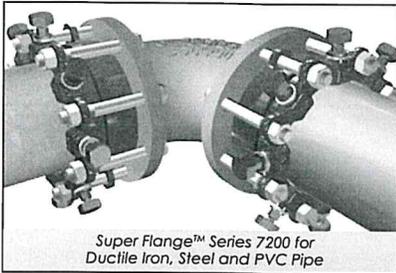
### HYMAX REDUCER NOMINAL SIZES 26"-60"

26"-60" - MTO (MADE TO ORDER) IS AVAILABLE

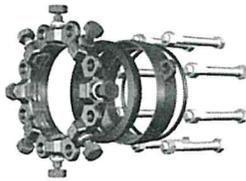


# Super Flange™ series 7200

Designed for use on Ductile Iron, Steel and PVC Pipes



Super Flange™ Series 7200 for Ductile Iron, Steel and PVC Pipe



### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Versatile product designed for adapting ductile iron (3"-48"), PVC (3"-24") & steel (3"-12") pipe to flange connections.
- 350 psi maximum pressure rating on ductile iron pipe and rated to the maximum pressure rating of PVC pipe
- Joint deflection up to 5° maximum
- Allows for field flanged ends on plain end pipe
- Flange meets ANSI Class 125/150 and ANSI/AWWA C115/A21.15 drill pattern.
- Includes restraint gland, flange adapter ring, gaskets and hex head bolts/nuts
- Super Flange™ sizes 3"-12" are listed with Underwriters Laboratories Inc. and Underwriters Laboratories of Canada for ductile iron and steel pipe.
- Super Flange™ sizes 4" – 12" are approved by Factory Mutual Research for use on C900 PVC pipe DR18 Class 235 at 150 psi and sizes 4"-10" on DR14 Class 305 at 200 psi.

### MATERIAL SPECIFICATIONS:

- Restraint Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Restraint Gland Finish: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Wedges: Ductile Iron per ASTM A536, Grade 65-45-12 heat treated to a minimum of 370 BHN
- Wedge Finish: Thermally cured fluoropolymer epoxy coating
- Flange adapter ring: coated with fusion bonded epoxy that meets ANSI/NSF 61
- MJ gasket and O-ring flange gasket are made from styrene butadiene rubber (SBR) per ANSI/AWWA C111/A-21.11.

### GASKET TYPE (Please check one):

- Standard: MJ Gasket
- Option: Transition Gasket (3" to 12" only)

### MJ GASKET MATERIAL OPTIONS (Please check one):

- Standard: Styrene butadiene rubber (SBR) per ANSI/AWWA C111/A-21.11
- Optional: EPDM
- Optional: NITRILE
- Other (specify) \_\_\_\_\_

### HARDWARE OPTIONS (Please check one):

- Standard: hex head bolts and nuts are manufactured in accordance with ASTM A307, Grade B and ASTM A563 - bolts and nuts are also zinc plated.
- Optional: hex head bolts and nuts alloy SS 304 per ASTM F593 and ASTM A194
- Optional: hex head bolts and nuts alloy SS 316 per ASTM F593 and ASTM A194
- Optional: hex head bolts and nuts Fluoropolymer Star-Blue coated

STAR® PIPE PRODUCTS





## **Non-Public Works Bid Affidavit Instructions**

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

*Instruction sheet may be omitted when submitting the affidavit*

## 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.

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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.

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### 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.



# JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni  
Parish President

Renny Simno  
Director

## CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The East bank Office of Purchasing is now open! We are located in the Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Suite 404, Jefferson, LA 70123. Bidders may submit bid responses at this location, pending authorization in each bid package. **Bidders should carefully read and must respond accordingly per the requirements of the bid packages. NOTE: Bidders submitting bids on the day of bid opening, bidders must submit at the West Bank location only.**

### **Other Changes Continued:**

- For all advertised sealed bids, written evidence of signature authority must be included with bid submission.
- Current W9 Forms 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, a current W-9 form must be supplied upon contract execution, should you be awarded a contract and/or issued a purchase order.
- Proof of insurance is required **with** bid submission. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.
- Upon contract execution, successful bidder must produce final insurance certificates per standard Jefferson Parish insurance requirements. Bidders should reference the "Additional Requirements" section of the bid instructions and/or the "Important Notice to Bidders" included in the bid package for specific requirements to respond accordingly.

For more information, please call Jefferson Parish Purchasing at 504-364-2678.

Joseph S. Yenni Building – 1221 Elmwood Park Blvd., Ste. 404, Jefferson, LA 70123  
Office 504.364.2678

General Government Bldg. – 200 Derbigny St – Suite 4400 - Gretna, LA 70053  
Office 504.364.2678

Email: [Purchasing@jelfparish.net](mailto:Purchasing@jelfparish.net) Website: [www.jelfparish.net](http://www.jelfparish.net)



**CENTRALBIDDING**  
FROM CENTRAL AUCTION HOUSE

**5000123263 ONE YEAR CONTRACT FOR A SUPPLY OF COUPLINGS,  
RESTRAINING DEVICES & RELATED GASKETS FOR THE JEFFERSON  
PARISH DEPARTMENT OF PUBLIC WORKS – WATER & SEWERAGE  
AND ALL JEFFERSON PARISH AGENCIES & MUNICIPALITIES.**  
Jefferson Parish Government

Project documents obtained from [www.CentralBidding.com](http://www.CentralBidding.com)  
15-Jun-2018 12:24:38 PM

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003



**Bid Number 50 - 123263**

One year contract for a supply of couplings, restraining devices & related gaskets for the Jefferson Parish Department of Public Works – Water & Sewerage and all Jefferson Parish Agencies & Municipalities.

**June 28, 2018 AT 2:00 PM**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Donna Reamey  
Dreamey@Jeffparish.net  
504-364-2684**

SPECIFICATIONS FOR BID # 50-123263

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**Couplings and Restraints**  
**Contract**

**Items Included In This Contract:**

1. Steel Body Transitional Couplings (Non-Restrained)
2. Ductile Iron Body Transitional Couplings (Non-Restrained)
3. Flange Coupling Adapter (Non-Restrained)
4. Flange Coupling Adapter (Restrained)
5. EBAA Series 1000 E-Z Flange
6. EBAA Series 1100DEC Megalug Mechanical Joint Restraint
7. EBAA Series 1500 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12")
8. EBAA Series 1600 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12")
9. EBAA Series 1700 Megalug Restraint Harness For Ductile Iron Bells
10. EBAA Series 2000PEC Mechanical Joint Restraint
11. Transition Gaskets (Asbestos Cement To Cast Iron)
12. Mechanical Joint Gaskets (For Ductile Iron Pipe)
13. Pipe Lubricant

**Contract Terms:**

This is a one year contract for supply of couplings, restraining devices, and the related gaskets for the Department of Water and Sewer, and all Jefferson Parish agencies and municipalities.

**Warranty:**

Products shall be warranted that they are manufactured in accordance with the applicable material specifications and are free from defects in workmanship and materials for one year after delivery. Any defective items sold under this contract shall be replaced at no cost to the purchaser.

**General Specifications:**

This specification is prepared for a one (1) year contract for a supply of couplings, restraining devices and related gaskets for the Parish of Jefferson, Department of Water and Sewerage, East and West Banks.

The quantities shown on the proposal guide are approximate quantities to be acquired by Jefferson Parish over a one (1) year period. Actual usage will be on an "as needed" basis.

Bid price shall include all freight and delivery costs to Jefferson Parish warehouse locations on the East and West Banks of Jefferson Parish.

The successful bidder shall not substitute any items on this bid throughout the one (1) year period without the written consent of the Jefferson Parish Engineering Dept.

# SPECIFICATIONS FOR BID # 50-123263

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**All technical literature must be submitted with the bid. Failure to honor such request will result in the bid being considered non-responsive.**

## **Technical Specifications:**

1. **Steel Body Transition Couplings 2"-24" (Non-Restrained):**

Coupling shall accommodate pipe offset up to 7/16", pipe deflection up to 8 degrees, and pipe gaps up to 7.5.

Coupling shall join pipes with difference diameters up to 1.30" (2.10" in the 16" size).

Coupling shall be of the long pattern design and meet or exceed AWWA C-219 and be NSF 61 approved.

Couplings shall have a working pressure of 260 PSI with a maximum test pressure of 390 PSI with a 1.5:1 safety factor.

- **Material:**

Transition couplings shall have a lightweight middle ring that is properly flanged with confined steel followers. Transition coupling shall have an epoxy coating of 10-12 mils in thickness.

- **Follower Track (Spanners):**

Follower track (spanners) shall be type 304 stainless steel with two (2) type 304 stainless steel carriage-type, compression bolts and nuts with corresponding stainless steel retainers (one at each end) located on the top of the coupling. Nuts shall be coated to prevent galling.

- **Gaskets:**

Gaskets shall be wide range, multi-layered EDPM peel-off hydraulically pressure assisted, superior dual seal gaskets (seals mechanically and hydraulically) for permanently sealed joints.

- **Assembly:**

Coupling shall be totally assembled as in integral unit having stab-on feature, with bolts staved to prevent disassembly and required no disassembly during installation.

Coupling shall be "Hymax" or approved equal.

2. **Ductile Iron Body Transition Couplings 4"-12" (Non-Restrained):**

Coupling shall accommodate pipe deflection up to 8 degrees (4 degrees on each end).

## SPECIFICATIONS FOR BID # 50-123263

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Coupling shall have an extended range up to 1.25".

Coupling coating shall be center ring fusion bonded epoxy in accordance with AWWA C213 and NSF 61 certified. End rings shall be e-coated epoxy.

Couplings shall have a working pressure of 260 PSI.

- **Material:**  
Transition coupling components (end rings, center ring, and bolt guides) shall be ductile iron, meeting or exceeding the requirements of ASTM A536, Grade 65-45-12.
- **Follower Track (Spanners):**  
Follower track (spanners) shall be type 304 stainless steel with two (2) type 304 stainless steel carriage-type, compression bolts and nuts with corresponding stainless steel retainers (one at each end) located on the top of the coupling. Nuts shall be coated to prevent galling.
- **Gaskets:**  
Gaskets shall be formed from virgin nitrile butadiene rubber (NBR) compounded for water and sewer service in accordance with ASTM D2000.
- **Assembly:**  
Coupling shall be totally assembled as in integral. End rings shall be segmented and joined with an integrated hinge.

Coupling shall be Macro™ by Romac or an approved equal.

### **3. Flanged Coupling Adapters (Non-Restrained):**

Adapter shall meet or exceed AWWA c-219 and be NSF 61 approved, but shall have one compression end with one nut and bolt, and one flanged end which complies with AWWA C-207-94 or ANSI B16-5.

Please note that the 2" flanged coupling adapter shall be available in 2" oval meter flanged size.

Flanged coupling adapter shall be "Hymax Flanged Adapter" or an approved equal.

### **Note to Vendor:**

The coating system for all restraining devices shall be mega bond by EBAA Iron, Inc. or an approved (factory applied, fusion bonded epoxy) equal.

## SPECIFICATIONS FOR BID # 50-123263

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### 4. Flange Coupling Adapters (Restrained) (Ductile/Cast Iron Pipe, 3"-60"; Steel Pipe, 3"-12"):

Pipe Material	DR Rating	Sizes Available
IPS OD PVC Pipe	All SDR's	3"-12"
C-900	14	4"-12"
C-900	18	4"-20"
C-900	25	4"-24"
C-900	32.5	14"-24"

For PVC pipe, the flange adapter shall have a pressure rating equal to the pipe.

For ductile iron pipe, the flange adapter shall have a safety factor of 2:1 minimum.

The flange adapter shall be UL listed 3"-12" for above and below ground use on schedule 40 steel pipes, and below-ground on all classes of listed ductile iron pipe.

The flange adapter shall be FM approved for use on C-900 Class 150 (DR-18) and class 200 (DR-14 PVC pipe, 4"-12", and on all classes of listed ductile iron pipe, and for above ground flanged pipe systems (treatment plants, pumping stations, or underground).

- **Restrained Gland And Gasket Ring:**  
The flange adapter restrained gland and gasket ring shall be made of grade 60-42-12 ductile iron, which exceeds the minimum requirements of ASTM A-536-84, and shall have flange bolts circles that are compatible with ANSI/AWWA C-115/1-21.15. The flange adapter gasket ring shall be fusion-bonded epoxy coated inside and out.
- **Flange Adapter Restraint Ring:**  
The flange adapter restraint ring shall consist of a plurality of individual actuated gripping wedges to maximize restraint capability. Torque-limiting actuated screws shall be used to ensure proper initial set of the gripping wedges.
- **Assembly:**  
The flange adapter shall be capable of deflecting during assembly, or permit lengths of pipe to be field cut to allow a minimum of 0.6" of gap through 2.0" of gap (depending on pipe diameter) between the end of the pipe and the mating flange without affecting the integrity of the seal.
- **Nuts and Bolts:**  
The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.

Flange adapter shall be EBAA Series 2100 "Megaflange" adapter, or an approved equal.

## SPECIFICATIONS FOR BID # 50-123263

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5. **EBAA Series 1000 E-Z Flange:**

The flange adapter shall be used in lieu of threaded or welded flanges on plain end ductile iron and steel pipe.

These flanges shall be cast from 60-42-10 ductile iron per ASTM A536 and shall have bolt circles and bolt holes to meet ANSI/AWWA C100/A21.10.

These flanges shall contain set screws made from ductile iron which have a Rockwell hardness of C40-45 converted from Brinnell.

Flange adapters shall be as manufactured by EBAA Iron, Inc. or an approved equal.

6. **Series 1100DEC Megalug Mechanical Joint Restraint:**

The wedges shall be ductile iron heat treated to a minimum hardness of 370 BHN. Dimensions of the gland shall be such that it can replace the standardized mechanical joint gland, and can be used with the standardized mechanical joint bell conforming to ANSI/AWWA C111/a21.11 and ANSI/AWWA C153/A.21.53 of the latest revision.

The mechanical joint restraint shall be available in the 3" through 48" sizes. They shall have a rated working pressure of 350 PSI in sizes 16" and smaller and 250 PSI in sizes 18" through 48" with 2 to 1 minimum safety factor. The devices shall be listed by Underwriter's Laboratories up through 24" size and approved by factory mutual up through 12" size.

All restraints shall be packaged. The package is to include the gland, EBAA-seal improved mechanical joint gasket and adequate lubricate for gasket lubrication, necessary quantity, size and length of t-bolts and nuts made from a low-alloy steel conforming to AWWA C-111 and be blue flora polymer coated equal to xylon coating.

The EBAA-seal gasket shall deflect 30% during assembly of the mechanical joint, improving sealing capabilities and shall meet in design and material, ANSI/AWWA C110/A21.10, C111/A21.11 or C153/A21.53, section 11-6.4 or latest revision.

The restraint shall be the series 110DEC Megalug restraint produced by EBAA Iron, Inc. or approved equal.

- **Mechanical Joint Restraint For Ductile Iron Pipe:**

Mechanical joint restraint for ductile iron pipe shall be incorporated into the design of the follower gland. The restraining mechanism shall consist of a plurality of individual actuated wedges that increase their resistance to pullout as internal pressure or external forces increase; the device shall be capable of full mechanism joint deflection during assembly and the flexibility of the joint shall be maintained after burial. The joint restraint ring and its wedging components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536-84.

## SPECIFICATIONS FOR BID # 50-123263

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- **Flange Adapter Restraint Ring:**  
The flange adapter restraint ring shall consist of a plurality of individual actuated gripping wedges to maximize restraint capability. Torque-limiting actuated screws shall be used to ensure proper initial set of the gripping wedges.
  - **Assembly:**  
The flange adapter shall be capable of deflecting during assembly, or permit lengths of pipe to be field cut to allow a minimum of 0.6" of gap through 2.0" of gap (depending on pipe diameter) between the end of the pipe and the mating flange without affecting the integrity of the seal.
  - **Nuts and Bolts:**  
The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.
7. **Series 1500 Split Restraint Harness For C-900 Pipe Bells and Spigot (4"-12"):**  
All rings and components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536. A split ring shall be utilized behind the pipe bell. A split serrated ring shall be utilized to grip the pipe.
- **Tie Bolts:**  
A sufficient quantity, size and length of tie bolts which shall be made from a low-alloy steel conforming to AWWA C111. Tie bolts shall be used to connect the bell ring and gripping ring.
  - **Side Bolts:**  
The side bolts shall be grade 5 machine bolts and be blue flora polymer coated equal to xylon coating.
  - **Harness Restraint Device:**  
The harness restraint device shall have a minimum working pressure rating of 150 psi, and be tested with a minimum of 4 to 1 safety factor. All sizes shall be FM approved for class 150 (DR 18) PVC pipe. All sizes rated to 200 PSI class 200 (DR 14) PVC pipe shall have a 3 to 1 safety factor, and shall be EBAA Series 1500 or an approved equal.
8. **Series 1600 Split Restraint Harness For C-900 Pipe Bells And Spigot (4"-12"):**  
All rings and components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536. A split ring shall be utilized behind the pipe bell. A split serrated ring shall be utilized to grip the pipe.
- **Tie Bolts:**  
A sufficient quantity, size and length of tie bolts which shall be made from a low-alloy steel conforming to AWWA C111. Tie bolts shall be used to connect the bell ring and gripping ring.

## SPECIFICATIONS FOR BID # 50-123263

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- **Side Bolts:**  
The side bolts shall be grade 5 machine bolts and be blue flora polymer coated equal to xylon coating.
- **Harness Restraint Device:**  
The harness restraint device shall have a minimum working pressure rating of 150 PSI, and be tested with a minimum of 4 to 1 safety factor. All sizes shall be FM approved for class 150 (DR 18) PVC pipe. All sizes rated to 200 PSI class 200 (DR 14) PVC pipe shall have a 3 to 1 safety factor, and shall be EBAA series 1600 or an approved equal.

9. **Series 1700 Megalug Restraint Harness for Ductile Iron Bells:**

Ductile iron pipe bell restraint shall consist of a wedge action restraint ring on the spigot and joined to a ductile iron pipe follower gland behind the bell. The restraint ring shall have individually-actuated wedges that increase their resistance to pull out as pressure or external forces increases.

- **Restraint Ring and Wedging Components:**  
The restraint ring and its wedging components shall be made of ductile iron grade 60-42-12, which exceeds minimum requirements of ASTM A536.
- **Wedges:**  
The wedges shall be heat-treated to a minimum hardness of 370 BHN. Torque limiting twist off nuts shall be used to ensure proper actuation of the restraining wedges.
- **Follower Gland:**  
The follower gland shall be made of the same grade ductile iron as previously mentioned. The connecting tie rods that join the two rings shall be of low alloy steel, which conforms to ANSI/AWWA C111/A21.11.
- **Assembly:**  
The assembly shall have a rated pressure with a minimum 2:1 safety factor for 350 PSI in sizes 16" and below, and 250 psi in sizes 18" through 36".
- **Harness:**  
Harness shall be series 1700 Megalug restraint harness manufacture by EBAA Iron, or an approved equal.
- **Nuts and Bolts:**  
The flange adapters shall be furnished with type Xylan or Teflon coated machined bolts and nuts.

## SPECIFICATIONS FOR BID # 50-123263

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### **10. Series 2000 PEC Mechanical Joint Restraint:**

The mechanical joint restraint shall be available in 3" through 36" sizes. The restraining joint gland shall have a pressure rating and safety factor equal to that of the pipe on which it is used.

Mechanical joint restraint for PVC pipe shall be incorporated into the design of the follower gland. The restraint mechanism shall consist of a plurality of individually-actuated gripping wedges that increases their resistance to pullout as internal pressure or external forces increase. This evenly distributes the thrust forces around the circumference of the pipe, and is for use on all sizes of IPS diameter PVC pipe in 3" through 12" sizes, and all sizes of AWWA C-900 and C-905 pipe (4"through 36"). The device shall be capable of full mechanical joint deflection during assembly and flexibility of the joint shall be maintained after burial. The joint restraint ring and its wedging components shall be made of grade 60-42-12 ductile iron, which exceeds minimum requirements of ASTM A536.

Dimensions of the gland shall be such that it replaces the standardized mechanical joint gland and can be used with the standardized mechanical joint bell conforming to ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53 of latest revision. Torque limiting twist off nuts shall be used to insure proper actuating of restraining wedges.

- **Restraining Gland:**

The restraining glands shall have been tested to ASTM F1674, and all sizes shall be rated at the full pressure capacity of the pipe. The mechanical joint restraint shall be listed by Underwriter's Laboratories, and approved by factory mutual (4"-12").

- **Packaging:**

All restraints shall be packaged. The package is to include gland, EBAA-seal(tm) improved mechanical joint gasket with adequate lubricant for gasket, necessary quantity, size and length of t-bolts and nuts made from a low-alloy steel conforming to AWWA C111 and be blue flora polymer coated equal to xylon coating.

- **EBAA-Seal™ Gasket:**

The EBAA-Seal™ gasket shall deflect 30% during assembly of the mechanical joint improving sealing capabilities and shall meet in design and material the ANSI/AWWA C110/A21.10, C111/A21.11, or C153/A21.53, section 11-6.4 or latest revision.

The restraint shall be the series 2000 PEC Megalug restraint produced by EBAA Iron, Inc. or approved equal.

## SPECIFICATIONS FOR BID # 50-123263

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**11. Transition Gaskets (Asbestos Cement to Cast Iron):**

Transition gaskets shall go from asbestos cement (ac) size down to cast iron size to be used on potable water and sewer lines, made from virgin SBR rubber material for use in salty and acidic soils with a temperature range of -65 degrees to 180 degrees Fahrenheit. Transition gaskets shall conform to the latest revision of ASTM D2000 3 BA715 to work with class 100, 150, and 200 machined "AC" pipe and ductile iron pipe Class 53.

Transition gaskets shall be manufactured by Romac Industries or an approved equal.

**12. Mechanical Joint Gaskets (For Ductile Iron Pipe):**

Mechanical joint gaskets for ductile iron pipe shall be used on potable water and sewer lines. Virgin SBR rubber material for the use in salty and acidic soils with a temperature range of -40 degrees to 150 degrees Fahrenheit, meet or exceed ASTM D2000 3 BA715, and to fit ANSI/AWWA A21.11/C111 and ANSI/AWWA A21.53/C153 latest revision standard, 250 PSI working pressure.

**13. Pipe Lubricant:**

Pipe lubricant shall be used for potable and waste water applications. Pipe lubricant shall be non-toxic, odorless, tasteless, and not be able to support bacterial growth. Lubricant shall come in one quart containers and be used to assemble "push-on" pipe and fittings.

DATE: 6/13/2018

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00123263

**JEFFERSON PARISH**

**Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003**

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

BUYER: DREAMY@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, 6/28/2018 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](http://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 via email to the buyer's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. 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)**

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Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

BID NO.: 50-00123263

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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.

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INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

Page: 3

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](http://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(l), 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.

DATE: 6/13/2018

BID NO.: 50-00123263

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### 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. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
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.

DATE: 6/13/2018  
BID NO.: 50-00123263

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

**BID FORM**  
Non Public Works

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 (1) YEAR June 28, 2019

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 to 1 week

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

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME: Consolidated Pipe AND supply

ADDRESS: 812 Little Farms Ave

CITY, STATE: Metairie LA ZIP: 70003

TELEPHONE: (504) 737-1212 FAX: (504) 737-7909

EMAIL ADDRESS: TRANDALL@CONSOLIDATEDPIPE.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: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ 150,097.99

AUTHORIZED SIGNATURE: Timothy Randall

Timothy RANDALL  
Printed Name

TITLE: BRANCH MANAGER

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.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			ONE YEAR CONTRACT FOR A SUPPLY OF COUPLINGS, RESTRAINING DEVICES & RELATED GASKETS FOR JEFFERSON PARISH DEPT. OF PUBLIC WORKS - WATER & SEWERAGE AND ALL JEFF. PARISH AGENCIES & MUNICIPALITIES.		
1	2.00	EA	0010 3 INCH FLANGE RESTRAINER PART #1003 (38418)	20.16	40.32
2	2.00	EA	0020 4 INCH FLANGE RESTRAINER PART #1004 (38417)	27.26	54.52
3	2.00	EA	0030 6 INCH FLANGE RESTRAINER PART #1006 (38415)	29.36	58.72
4	2.00	EA	0040 8 INCH FLANGE RESTRAINER PART #1008 (38416)	40.78	81.56
5	2.00	EA	0050 10 INCH FLANGE RESTRAINER PART #1010 (38419)	73.26	146.52
6	2.00	EA	0060 12 INCH FLANGE RESTRAINER PART #1012 (38411)	85.45	170.90
7	2.00	EA	0070 14 INCH FLANGE RESTRAINER PART #1014 (38412)	194.28	388.56
8	2.00	EA	0080 16 INCH FLANGE RESTRAINER PART #1016 (38413)	243.37	486.74
9	2.00	EA	0090 18 INCH FLANGE RESTRAINER PART #1018 (38424)	275.18	550.36
10	2.00	EA	0100 20 INCH FLANGE RESTRAINER PART #1020 (38420)	332.71	665.42
11	2.00	EA	0110 24 INCH FLANGE RESTRAINER PART #1024 (38414)	448.45	896.90
12	2.00	EA	0120 4 INCH BELL RESTRAINT HARNESS C900	35.20	70.40

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
13	16.00	EA	SPLIT SERRATED RING PART #1504 (51240)  0130 6 INCH BELL RESTRAINT HARNESS C900	40.17	642.72
14	2.00	EA	SPLIT SERRATED RING PART #1506 (51241)  0140 8 INCH BELL RESTRAINT HARNESS C900 SPLIT SERRATED RING  PART #1508 (51242)	51.84	103.68
15	2.00	EA	0150 4 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1604	76.07	152.14
16	2.00	EA	0160 6 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1606 (51241A)	100.62	201.24
17	2.00	EA	0170 8 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1608 (51242A)	141.07	282.14
18	2.00	EA	0180 10 INCH BELL RESTRAINT HARNESS C900 SERRATED & NON-SERRATED RING  PART #1610 (51243)	220.57	441.14
19	2.00	EA	0190 4 INCH BELL RESTRAINT HARNESS D.I. PART #1704	27.94	55.88
20	2.00	EA	0200 6 INCH BELL RESTRAINT HARNESS D.I.  PART #1706	41.36	82.72
21	1.00	EA	0210 8 INCH BELL RESTRAINT HARNESS D.I.  PART #1708	53.89	53.89
22	2.00	EA	0220 10 INCH BELL RESTRAINT HARNESS D.I. PART #1710 (51254)	179.44	358.88

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
23	2.00	EA	0230 12 INCH BELL RESTRAINT HARNESS D.I. PART #1712	118.17	236.34
24	2.00	EA	0240 14 INCH BELL RESTRAINT HARNESS D.I. PART #1714	237.51	475.02
25	2.00	EA	0250 16 INCH BELL RESTRAINT HARNESS D.I. PART #1716 (51253)	264.93	529.86
26	2.00	EA	0260 18 INCH BELL RESTRAINT HARNESS D.I. PART #1718	292.13	584.26
27	2.00	EA	0270 20 INCH BELL RESTRAINT HARNESS D.I. PART #1720	414.20	828.40
28	2.00	EA	0280 24 INCH BELL RESTRAINT HARNESS D.I. PART #1724	536.48	1,072.96
29	2.00	EA	0290 30 INCH BELL RESTRAINT HARNESS D.I. PART #1730	1,373.91	2,746.20
30	2.00	EA	0300 36 INCH BELL RESTRAINT HARNESS D.I. PART #1736	1,489.36	2,978.72
31	2.00	EA	0310 1.5 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0213-260 (17980)	NO BID	NO BID
32	2.00	EA	0320 2 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0303-260 (17981)	NO BID	NO BID
33	2.00	EA	0330 3 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0433-260 (17982)	30.20	60.40
34	24.00	EA	0340 4 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0563-260	34.11	818.64

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
35	12.00	EA	(17984) 0350 6 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0768-260	56.67	680.04
36	16.00	EA	(17985) 0360 8 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-0984-260	94.90	1,518.40
37	2.00	EA	(17986) 0370 10 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1226-260 (17988)	128.44	256.88
38	2.00	EA	(17989) 0380 12 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1366-260	170.01	340.02
39	2.00	EA	(17990) 0390 12 INCH FLANGE COUPLING ADAPTER EPOXY COATED; PART #2100-1441-260	170.01	340.02
40	2.00	EA	0400 3 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2103 (17999A)	30.20	60.40
41	2.00	EA	0410 4 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2104 (18000A)	34.11	68.22
42	2.00	EA	0420 6 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2106 (18001A)	56.67	113.34
43	2.00	EA	0430 8 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2108 (18002A)	103.32	206.64
44	2.00	EA	0440 10 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2110 (18003A)	128.44	256.88
45	2.00	EA	0450 12 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2112 (18004A)	170.01	340.02

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
46	2.00	EA	0460 14 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2114 (18005A)	401.58	803.16
47	2.00	EA	0470 16 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2116 (18006A)	470.42	940.84
48	2.00	EA	0480 18 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2118 (18015A)	501.60	1,003.20
49	2.00	EA	0490 20 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2120 (18016A)	567.77	1,135.54
50	2.00	EA	0500 24 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2124 (18017A)	719.25	1,438.50
51	2.00	EA	0510 30 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2130 (18018A)	889.85	1,779.70
52	2.00	EA	0520 36 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2136 (18019A)	1160.35	2,320.70
53	2.00	EA	0530 42 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2142 (18014A)	2,607.22	5,214.44
54	2.00	EA	0540 48 INCH FLANGE COUPLING ADAPTER TEFLON COATED; PART #2148 (18013A)	2,976.25	5,952.50
55	36.00	EA	0550 1.5 INCH TRANSITION COUPLING PART #860-54-0041-16(18019)	24.94	897.84
56	60.00	EA	0560 2 INCH TRANSITION COUPLING PART #860-54-0054-16(18020)	30.44	1,826.40
57	48.00	EA	0570 4 INCH TRANSITION COUPLING PART #860-54-0108-16C(18031)	47.15	2,263.20
58	250.00	EA	0580 6 INCH TRANSITION COUPLING PART #860-54-0163-16(18041)	64.29	16,072.50

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
59	150.00	EA	0590 8 INCH TRANSITION COUPLING PART #860-54-0217-16(18151)	81.46	12,219.00
60	30.00	EA	0600 10 INCH TRANSITION COUPLING PART #860-54-0278-16(18079)	122.92	3,687.60
61	24.00	EA	0610 12 INCH TRANSITION COUPLING PART #860-54-0334-16(18155)	147.85	3,548.40
62	2.00	EA	0620 14 INCH TRANSITION COUPLING PART #862-56-0378-16P(18297A)	234.22	468.44
63	2.00	EA	0630 16 INCH TRANSITION COUPLING PART #862-56-0434-16P(18299)	282.17	564.34
64	2.00	EA	0640 18 INCH TRANSITION COUPLING PART #862-56-0488-16P(18300)	411.18	822.36
65	2.00	EA	0650 20 INCH TRANSITION COUPLING PART #862-56-0540-16P(18308)	493.11	986.22
66	2.00	EA	0660 3 INCH JOINT RESTRAINER (D.I.) PART # 1103 DEC (51799)	13.55	27.10
67	2.00	EA	0670 4 INCH JOINT RESTRAINER (D.I.) PART # 1104 DEC (51800)	14.36	28.72
68	24.00	EA	0680 6 INCH JOINT RESTRAINER (D.I.) PART # 1106 DEC (51801)	16.89	405.36
69	1.00	EA	0690 8 INCH JOINT RESTRAINER (D.I.) PART # 1108 DEC (51802)	25.40	25.40
70	2.00	EA	0700 10 INCH JOINT RESTRAINER (D.I.) PART # 1110 DEC (51803)	38.94	77.88
71	1.00	EA	0710 12 INCH JOINT RESTRAINER (D.I.) PART # 1112 DEC (51804)	54.84	54.84

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
72	2.00	EA	0720 14 INCH JOINT RESTRAINER (D.I.) PART # 1114 DEC (51805)	72.80	145.60
73	2.00	EA	0730 16 INCH JOINT RESTRAINER (D.I.) PART # 1116 DEC (51806)	103.89	207.78
74	2.00	EA	0740 18 INCH JOINT RESTRAINER (D.I.) PART # 1118 DEC (51807)	147.17	294.34
75	6.00	EA	0750 20 INCH JOINT RESTRAINER (D.I.) PART # 1120 DEC (51808)	182.77	1,096.62
76	2.00	EA	0760 24 INCH JOINT RESTRAINER (D.I.) PART # 1124 DEC (51809)	253.80	507.60
77	1.00	EA	0770 30 INCH JOINT RESTRAINER (D.I.) PART # 1130 DEC (51810)	602.10	602.10
78	1.00	EA	0780 36 INCH JOINT RESTRAINER (D.I.) PART # 1136 DEC (51811)	773.92	773.92
79	2.00	EA	0790 42 INCH JOINT RESTRAINER (D.I.) PART # 1142 DEC (51812)	1,023.72	2,047.44
80	2.00	EA	0800 48 INCH JOINT RESTRAINER (D.I.) PART # 1148 DEC (51813)	1,934.31	3,868.62
81	2.00	EA	0810 3 INCH JOINT RESTRAINER (C900) PART # 2003PEC (51819)	16.18	32.36
82	120.00	EA	0820 4 INCH JOINT RESTRAINER (C900) PART # 2004PEC (51820)	17.40	2,088.00
83	300.00	EA	0830 6 INCH JOINT RESTRAINER (C900) PART # 2006PEC (51821)	21.14	6,342.00
84	200.00	EA	0840 8 INCH JOINT RESTRAINER (C900) PART # 2008PEC (51822)	31.27	6,254.00

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
85	2.00	EA	0850 10 INCH JOINT RESTRAINER (C900) PART # 2010PEC (51823)	58.47	116.94
86	2.00	EA	0860 12 INCH JOINT RESTRAINER (C900) PART # 2012PEC (51824)	61.58	123.16
87	2.00	EA	0870 14 INCH JOINT RESTRAINER (C900) PART # 2014PEC (51825)	101.56	203.12
88	2.00	EA	0880 16 INCH JOINT RESTRAINER (C900) PART # 2016PEC (51826)	136.59	273.18
89	2.00	EA	0890 18 INCH JOINT RESTRAINER (C900) PART # 2018PEC (51827)	169.55	339.10
90	2.00	EA	0900 20 INCH JOINT RESTRAINER (C900) PART # 2020PEC (51828)	210.08	420.16
91	4.00	EA	0910 24 INCH JOINT RESTRAINER (C900) PART # 2024PEC (51829)	245.17	980.68
92	1.00	EA	0920 30 INCH JOINT RESTRAINER (C900) PART # 2030PEC (51830)	701.73	701.73
93	1.00	EA	0930 36 INCH JOINT RESTRAINER (C900) PART # 2036PEC (51831)	859.41	859.41
94	8.00	EA	0940 PIPE SIZE 6 INCH TRANSITION GASKET NOM (51132)	2.81	22.48
95	2.00	EA	0950 PIPE SIZE 8 INCH TRANSITION GASKET NOM (51133)	4.06	8.12
96	2.00	EA	0960 PIPE SIZE 10 INCH TRANSITION GASKET NOM (51134)	4.68	9.36

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
97	2.00	EA	0970 PIPE SIZE 12 INCH TRANSITION GASKET NOM (51135)	5.36	10.72
98	2.00	EA	0980 PIPE SIZE 3 INCH MECHANICAL JOINT GASKET; NOM: O.D. 4.875 INCH (51220)	2.21	4.42
99	2.00	EA	0990 PIPE SIZE 4 INCH MECHANICAL JOINT GASKET; NOM: O.D. 4.80 INCH (51221)	2.21	4.42
100	60.00	EA	1000 PIPE SIZE 6 INCH MECHANICAL JOINT GASKET; NOM: O.D. 6.90 INCH (51222)	2.21	132.60
101	2.00	EA	1010 PIPE SIZE 8 INCH MECHANICAL JOINT GASKET; NOM: O.D. 9.05 INCH (51223)	2.52	5.04
102	2.00	EA	1020 PIPE SIZE 10 INCH MECHANICAL JOINT GASKET; NOM: O.D. 11.10 INCH (51224)	3.47	6.94
103	2.00	EA	1030 PIPE SIZE 12 INCH MECHANICAL JOINT GASKET; NOM: O.D. 13.20 INCH (51225)	4.10	8.20
104	2.00	EA	1040 PIPE SIZE 14 INCH MECHANICAL JOINT GASKET; NOM: O.D. 15.30 INCH (51226)	6.94	13.88
105	2.00	EA	1050 PIPE SIZE 16 INCH MECHANICAL JOINT GASKET; NOM: O.D. 17.40 INCH (51227)	6.94	13.88
106	2.00	EA	1060 PIPE SIZE 18 INCH MECHANICAL JOINT GASKET; NOM: O.D. 19.50 INCH (51228)	7.89	15.78
107	2.00	EA	1070 PIPE SIZE 20 INCH MECHANICAL JOINT GASKET; NOM: O.D. 21.60 INCH (51229)	8.52	17.04
108	2.00	EA	1080 PIPE SIZE 24 INCH MECHANICAL JOINT GASKET; NOM: O.D. 25.80 INCH (51230)	10.73	21.46

Consolidated Pipe & Supply  
812 Little Farms Ave.  
Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
109	2.00	EA	1090 PIPE SIZE 30 INCH MECHANICAL JOINT GASKET; NOM: O.D. 32.00 INCH (51231)	25.57	51.14
110	2.00	EA	1100 PIPE SIZE 36 INCH MECHANICAL JOINT GASKET; NOM: O.D. 38.30 INCH (51232)	28.73	57.46
111	2.00	EA	1110 PIPE SIZE 42 INCH MECHANICAL JOINT GASKET; NOM: O.D. 44.50 INCH (51233)	60.63	121.26
112	2.00	EA	1120 PIPE SIZE 48 INCH MECHANICAL JOINT GASKET; NOM: O.D. 50.80 INCH (51234)	64.42	128.84
113	24.00	CS	1130 PIPE LUBRICANT (50180) (12 QUARTS PER CASE)	9.47	227.28
114	2.00	EA	1140 4 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES (NON-RESTRAINED)	47.15	94.30
115	2.00	EA	1150 6 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES (BIB-RESTRAINED)	64.29	128.58
116	2.00	EA	1160 8 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES (NON-RESTRAINED)	81.46	162.92
117	2.00	EA	1170 10 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES (NON-RESTRAINED)	112.40	224.80
118	2.00	EA	1180 12 INCH DUCTILE IRON BODY TRANSITIONAL COUPLINGS 4 - 12 INCHES (NON-RESTRAINED)	135.17	270.34
119	24.00	EA	1190 14 INCH X 12 INCH REDUCING COUPLING HYMAX #861560315035316 (18156)	1,717.71	41,225.07

Consolidated Pipe & Supply  
 812 Little Farms Ave.  
 Metairie, LA 70003

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00123263

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			<p>LARGE O.D. RANGE 13.90-16.00 SMALL O.D. RANGE 12.40-13.66</p> <p>Consolidated Pipe &amp; Supply 812 Little Farms Ave. Metairie, LA 70003</p>		



PHONE (205) 323-7261

P.O. BOX 2472  
BIRMINGHAM, ALABAMA 35201

**RESOLUTION  
OF THE BOARD OF DIRECTORS  
OF  
CONSOLIDATED PIPE & SUPPLY COMPANY, INC.**

Upon motion duly made, seconded and adopted, it was unanimously RESOLVED, that Timothy Randall, the Branch Manager of the Metairie, LA. Branch of Consolidated Pipe & Supply Co. Inc. of Birmingham, Alabama is authorized to sign and execute documents, relating to the Jefferson Parrish Bid No. 50-00123263 (Bid date 6/28/2018).

The undersigned, as President of Consolidated Pipe & Supply, Inc. certifies that the above and foregoing is a true and correct copy of the resolution adopted by the Board of Directors of Consolidated Pipe & Supply, Inc. in a session held on the 27th day of June, 2018.

WITNESS MY HAND, and the seal of the Corporation

This 27th day of June, 2018

Howard Kerr  
President & Chairman of the Board of Directors

6/27/2018  
Date





## **Non-Public Works Bid Affidavit Instructions**

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

*Instruction sheet may be omitted when submitting the affidavit*

Non-Public Works Bid

AFFIDAVIT

STATE OF LOUISIANA

PARISH/COUNTY OF JEFFERSON

BEFORE ME, the undersigned authority, personally came and appeared: Timothy  
RANDALL, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized Branch Manager of Consolidated Pipe and Supply (Entity),  
the party who submitted a bid in response to Bid Number 5000123263, 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.

Timothy Randall  
Signature of Affiant

Timothy RANDALL  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 27 DAY OF June, 2014.

[Signature]  
Notary Public

Louis L. Lussier  
Printed Name of Notary

52499  
Notary/Bar Roll Number

My commission expires For Life.



# Louisiana Secretary of State R. Kyle Ardoin

## SEARCH FOR LOUISIANA NOTARIES

A practicing notary in a parish may notarize in reciprocal parishes without additional bonding or examination.

You can also download information about all notaries on file. For more information, see Notary Bulk Data.

[Print](#)

### Notary Search - Detail

**Name:** MR. LOUIS L. LUSCO II

**Address:** 823 ST. LOUIS ST.  
NEW ORLEANS, LA 70112

**Phone:** (504) 522-0155

**Notary ID Number:** 52499

**Parish:** JEFFERSON with STATEWIDE JURISDICTION

**Agency:** N/A

**Notary Type:** Attorney  
**Bar Roll #:** 24159

**Status:** Active

**Commission Date:** 05/03/1996

**Oath Date:** 03/23/1996

**Surety Expiration Date:** Not Required

**Annual Report Current:** Not Applicable

[Back to Search Results](#) [New Search](#)

## 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.

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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.

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### 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.



# JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni  
Parish President

Renny Simno  
Director

## CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The East bank Office of Purchasing is now open! We are located in the Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Suite 404, Jefferson, LA 70123. Bidders may submit bid responses at this location, pending authorization in each bid package. **Bidders should carefully read and must respond accordingly per the requirements of the bid packages. NOTE: Bidders submitting bids on the day of bid opening, bidders must submit at the West Bank location only.**

### **Other Changes Continued:**

- For all advertised sealed bids, written evidence of signature authority must be included with bid submission.
- Current W9 Forms 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, a current W-9 form must be supplied upon contract execution, should you be awarded a contract and/or issued a purchase order.
- Proof of insurance is required **with** bid submission. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.
- Upon contract execution, successful bidder must produce final insurance certificates per standard Jefferson Parish insurance requirements. Bidders should reference the "Additional Requirements" section of the bid instructions and/or the "Important Notice to Bidders" included in the bid package for specific requirements to respond accordingly.

For more information, please call Jefferson Parish Purchasing at 504-364-2678.



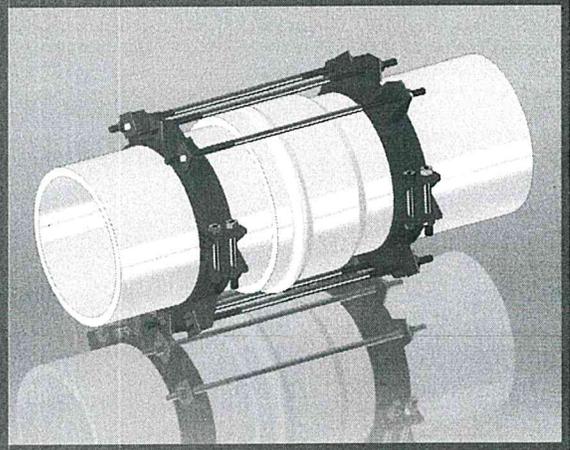
**SIP Industries**  
Quality Manufacturers Since 1960

**EZ GRIP™**  
PTP SERIES

BELL JOINT RESTRAINT FOR PVC PIPE

## The EZ GRIP®

Pipe-To-Pipe Joint Restraint is a proven design, offering an efficient, reliable, and inexpensive method of restraining PVC Bell and Spigot (Push-On) Joints by utilizing a series of rigid machined gripping serrations that grab, hold, and secure the PVC Bell and Spigot ends.



## ADVANTAGES, BENEFITS, FEATURES

- The PTP Joint Restraint eliminates the need of timely thrust blocks.
- The PTP Joint Restraint performs optimally with AWWA C900 (PVC), C905 (PVC), C906 (HDPE), C909 (PVCO), or ASTM D2241 IPS PVC Pipe.
- Composed of high strength Ductile Iron in compliance with the ASTM A536 Standard, Grade 65-45-12
- T-Bolts, Rods, and Hex nut are manufactured from high-strength low-alloy (HSLA) steel as per ANSI/AWWA C111/A21.11
- Machined to exact tolerances with a minimum safety factor of 2:1.
- Easily maintains a water working pressure equal to that of the PVC pipe on which it is installed
- The PTP Joint Restraint is designed and manufactured to be disassembled, reinstalled, and reusable.
- The PTP Joint Restraint can be installed on new or existing water systems.
- The PTP Joint Restraint allows full joint deflection and maintains the seal while under pressure, and while subjected to ground movements.
- The internal serrations offer 360° circumferential contact with the pipe wall and increase the grip as the hydrostatic pressure increases whilst concurrently offering support of the pipe wall.
- With the split castings, the PTP Joint Restraint can conveniently be installed in or outside the trench.
- The PTP Joint Restraint for PVC Pipe is provided with a coating that is compatible with most field applied coatings. The standard color of the PTP Joint Restraint is red.
- Offered in sizes from 4" up to 36".
- Approved by Factory Mutual (FM) for sizes 4"-12" at 200psi for AWWA C900 Class 305 DR-14 pipe and at 150psi for AWWA C900 Class 235 DR-18 pipe.



Available: Import

Toll Free 877-921-6111

[www.sipindustries.com](http://www.sipindustries.com)

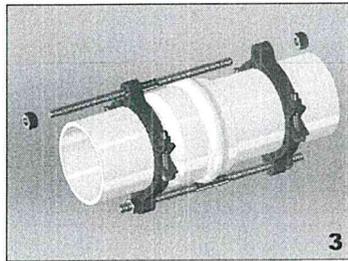
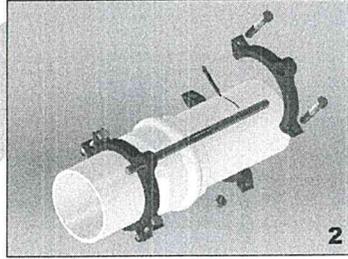
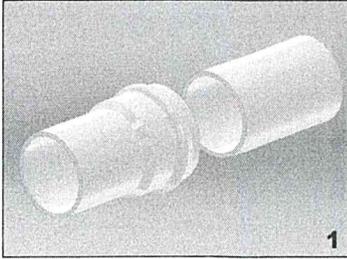


SIP Industries

# EZ GRIP™ PTP SERIES

BELL JOINT RESTRAINT FOR PVC PIPE

## Installation Procedure: 4"-12"



**1** Assemble the plain-end of the pipe into the pipe bell utilizing the normal procedure as per pipe manufacturer.

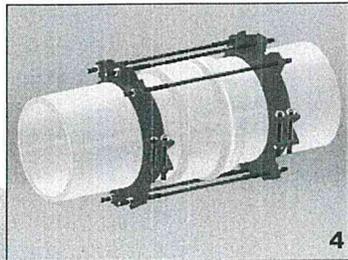
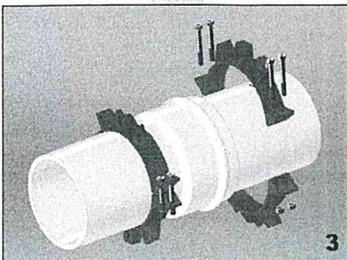
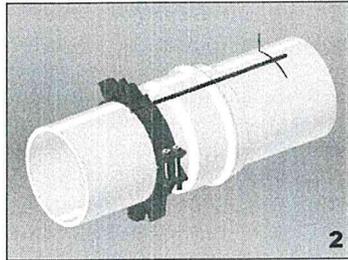
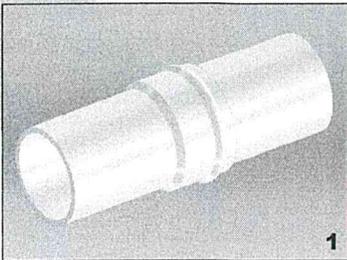
**2** Assemble one restrainer immediately behind the pipe bell and tighten the restrainer clamping bolts evenly to the recommended torque (see table below). Completely insert one of the provided restraint rods through one of the assembled restrainer gland holes so that approximately 1" of the rod remains on the backside of the gland (see pic. 2). Mark a line on the spigot side of the joint approximately 1" from the end of the rod (see pic. 2) as shown. Assemble the second restrainer evenly with the mark on the spigot end of the pipe. Align the restraint holes by using one of the provided restraining rods. Tighten restrainer clamping bolts to the recommended torque on the second restrainer after it is aligned with the first one.

**3** Insert the provided restrainer rods through the restrainers. Snug tight the remaining nuts behind the restrainer ears against the flat surface in a way that spigot end is secured into the bell pipe.

**NOTE:**

Do not over-tighten the restrainer nuts. Hand tight the nuts plus about one turn with wrench.

## Installation Procedure: 14"-36"



**1** Assemble the plain-end of the pipe into the pipe bell utilizing the normal procedure as per pipe manufacturer.

**2** Assemble one restrainer immediately behind the pipe bell and tight the restrainer clamping bolts evenly to the recommended torque (see table below). Completely insert one of the provided restraint rods through one of the assembled restrainer gland holes so that approximately 1" of the rod remains on the backside of the gland (see pic. 2). Mark a line on the spigot side of the joint approximately 1" from the end of the rod (see pic. 2) as shown.

**3** Assemble the second restrainer evenly with the mark on the spigot end of the pipe. Align the restraint holes by using one of the provided restraining rods. Tighten restrainer clamping bolts to the recommended torque on the second restrainer after it is aligned with the first one.

**4** Insert the provided restrainer rods through the restrainers. Place a washer behind each restrainer ear against the flat surface and snug tight all of the retainer nuts in a way that spigot end is secured into the bell pipe.

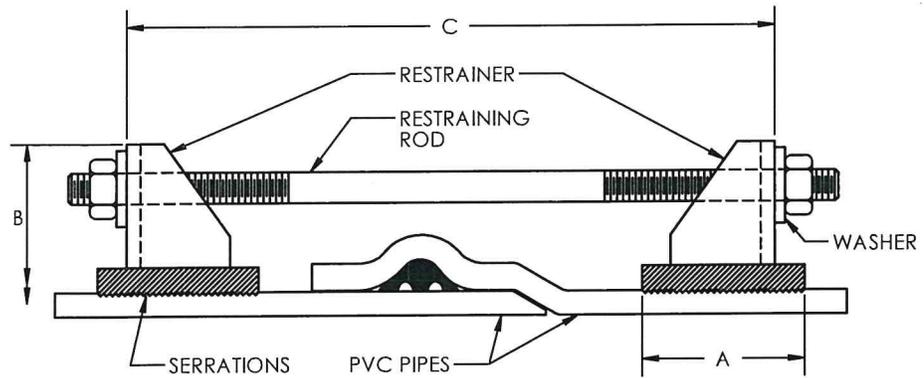
**NOTE:**

Do not over-tighten the restrainer nuts. Hand tight the nuts plus about one turn with wrench.

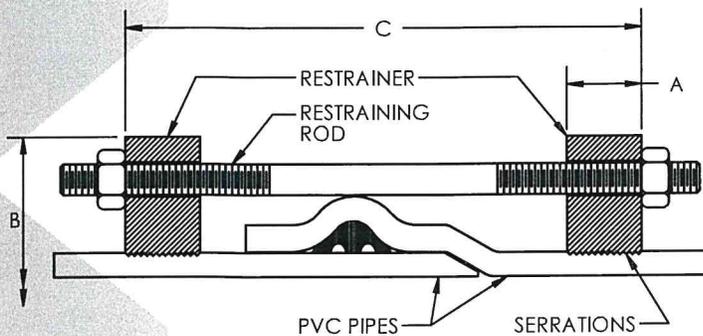
RECOMMENDED TORQUE (CLAMPING BOLTS)	
PIPE SIZE (IN)	RANGE OF TORQUE (FT/LBS)
4-12	90-110
14-16	150-200
18	175-225
20	200-250
24-36	225-275

Toll Free 877-921-6111

www.sipindustries.com

**Technical Data**


SIZES: 14" - 36"



SIZES: 4" - 12"

**PTPVC PIPE RESTRAINTS SPECIFICATIONS**

NOMINAL PIPE SIZE	C900/C909 PVC PIPES PTPVC SERIES		IPS PVC PIPES PTPVS SERIES		A	B (APPROX.)	C (MAX.)	RESTRAINT BOLTS/RODS		CLAMPING BOLTS		WEIGHT (APPROX.) LBS
	O.D.	ITEM CODE	O.D.	ITEM CODE				QTY	SIZE	QTY	SIZE	
4	4.80	PTPVC04	4.50	PTPVS04	1.12	9.15	12.00	2	3/4 X 17	4	5/8 X 3 1/2	16
6	6.90	PTPVC06	6.63	PTPVS06	1.15	11.12	13.00	2	3/4 X 17	4	5/8 X 3 1/2	20
8	9.05	PTPVC08	8.63	PTPVS08	1.47	14.75	15.00	2	3/4 X 17	4	3/4 X 4	32
10	11.10	PTPVC10	10.75	PTPVS10	1.38	16.82	16.00	4	3/4 X 24	4	7/8 X 5	52
12	13.20	PTPVC12	12.75	PTPVS12	1.42	19.45	18.00	4	3/4 X 24	4	7/8 X 5	56
14	15.30	PTPVC14	N/A	N/A	4.00	22.56	24.00	6	3/4 X 30	8	7/8 X 7	150
16	17.40	PTPVC16	N/A	N/A	4.00	24.64	28.00	6	3/4 X 30	8	7/8 X 7	154
18	19.50	PTPVC18	N/A	N/A	5.00	26.64	28.00	8	3/4 X 30	8	7/8 X 7	222
20	21.60	PTPVC20	N/A	N/A	5.00	28.75	28.00	8	3/4 X 36	8	1 1/8 X 9	195
24	25.80	PTPVC24	N/A	N/A	5.00	33.90	34.00	12	3/4 X 36	8	1 1/8 X 9	237
30	32.00	PTPVC30	N/A	N/A	5.50	40.75	38.00	10	1 X 40	8	1 1/4 X 9	475
36	38.30	PTPVC36	N/A	N/A	9.00	49.10	38.00	14	1 X 40	12	1 1/8 X 10	722



**SIP Industries**  
Quality Manufacturers Since 1960

**EZ GRIP™**  
PTP SERIES

BELL JOINT RESTRAINT FOR PVC PIPE

**SAMPLE SPECIFICATIONS**

The bell and spigot (push-on) joint restraining mechanism shall be designed and manufactured as two identical halves providing a joint restraint. The bell and spigot (push-on) joint restraint shall be compatible with AWWA C900, C905, C906, C909 and ASTM D2241 PVC Pipe and shall contain a series of rigid integrally machined serrations that grip the outside wall of the PVC Pipe. The bell and spigot (push-on) joint restraint shall have the same pressure rating as the pipe with a 2:1 safety factor. The grip of the serrations shall increase as the hydrostatic pressure increases.

There shall be no additional tool required for installation other than the tools required to install standard sizes of hex nuts from 5/8"-1 1/4". The hex heads, bolts and rods shall be designed to tighten clockwise. The hex heads, bolts and rods shall be manufactured to allow for disassembly and re-installation of the restraint.

The gland halves shall be manufactured of high strength ductile iron in accordance with the ASTM A536 Standard, Grade 65-45-12.

Rods and hex nuts are manufactured from high-strength low-alloy (HSLA) steel as per ANSI/AWWA C111/A21.11.

The restraining gland shall comply with all applicable dimensions of ANSI/AWWA C111/A21.11 and shall be compatible with all bell and spigot (push-on) joint sockets of the standard.

The EZGrip mechanical joint restraint mechanism for PVC pipe-to-pipe shall be approved by Factory Mutual for sizes 4"-12". The restraint device for PVC Pipe shall be SIP Industries series PTPVC or equal.

Available:  Import



**AWWA DI Fittings & Accessories**

C153 Compact MJ Fittings and Acc. 2" – 48"  
C110 Full Body MJ Fittings 2" - 48"  
C153 Push-On Fittings 4" - 24"  
C110 Flange Fittings 2" - 60"  
Stainless Steel & Blue T-Bolts  
Ductile Iron Retainer Glands  
Made in India, China & Mexico  
Cement, Fusion Bonded Epoxy & P401 lining.

**Joint Restraint System**

EZD Joint Restraint for DI Pipe 3" - 48"  
EZP Joint Restraint for PVC Pipe 3" - 36"  
PTP Pipe to Pipe Restraint 4" - 36"  
PTPDF Pipe to MJ Fittings Restraint 4" - 36"  
PTPFC Pipe to PVC Fittings Restraint 4" - 12"  
Made in China & USA  
Fusion Bonded Epoxy or Shop Coating.

**Municipal Construction Castings**

Manhole Rings and Cover  
Frames and Grates  
Valve Boxes and Service Boxes  
Water Meter Covers and Boxes  
Trench Grates and Tree Grates  
Made in India & USA

**Fabrication Products for DI Pipe**

High Hub Flanges Class 150 and 250. 3" - 64"  
Threaded Bell Flanges 3" - 48"  
Anchor Flanges 3" - 60"  
Filler Flanges 4" - 30"

**Other Products and Services**

All Thread Rod  
Pipe Lube and Hydraulic Cement  
Socket Clamps and Lugs  
Flange Packs  
OEM Castings

**SIP West**

8333 Almeria Avenue  
Fontana, CA 92335

**SIP Central**

2900 Patio Drive  
Houston, TX 77017

**SIP East**

600 Rayloc Drive  
Atlanta, GA 30336

**STANDARD FLANGE ADAPTER (for Steel or Ductile Iron Pipe)**

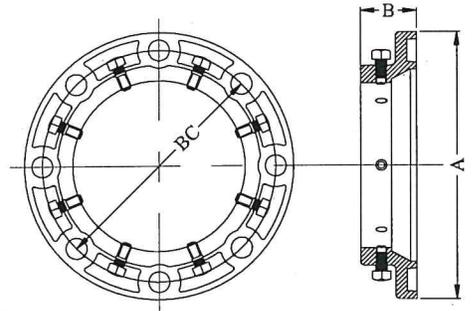
**General Specifications**

- Material** : Ductile Iron per ASTM A536 Grade 65-45-12
- Pressure** : 200 PSI for 3"- 8" sizes and 175 PSI for 10"- 12" sizes
- Bolt Hole Drilling** : In accordance with ANSI B16.1 Class 125
- Flange Ends** : In accordance with ANSI Class 125/150 & ANSI/AWWA C115/A21.15
- Applicable Dimensions** : In accordance with ANSI/AWWA C111/A21.11, C110/A21.10 & C153/A21.53.
- Used On** : Ductile Iron (PC350) or Steel (SCH40) Pipe
- Coating** : Standard gland color (Coral Red - RAL 3016)
- Gaskets** : SBR in accordance with ANSI/AWWA C111/A21.11
- Set Screws** : ANSI 4140 Steel, Heat Treated and Zinc Plated



**Technical Specifications**

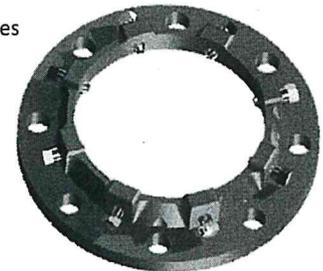
NOM. SIZE	OD PIPE THREAD		A	B	BC	BOLT HOLE DIA	SET SCREWS		WT. (LBS.)
	DI PIPE	STEEL PIPE					QTY.	SIZE	
2	2.50	2.38	6.00	1.80	4.75	3/4	2	1/2 X 1	4
3	3.96	3.50	7.50	2.00	6.00	3/4	4	1/2 X 1 1/4	6
4	4.80	4.50	9.00	2.07	7.50	3/4	4	1/2 X 1 1/4	9
6	6.90	6.63	11.00	2.19	9.50	7/8	8	1/2 X 1 1/4	12
8	9.05	8.63	13.50	2.31	11.75	7/8	8	5/8 X 1 1/2	19
10	11.10	10.75	16.00	2.50	14.25	1	12	5/8 X 1 1/2	27
12	13.20	12.75	19.00	2.50	17.00	1	12	5/8 X 1 1/2	37



**HEAVY DUTY FLANGE ADAPTER (for Steel or Ductile Iron Pipe)**

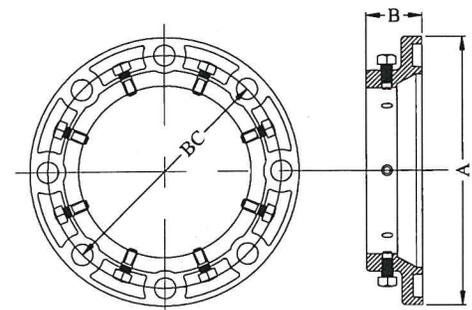
**General Specifications**

- Material** : Ductile Iron per ASTM A536 Grade 65-45-12
- Pressure** : 250 PSI for 3"- 12" sizes, 150 PSI for 14"- 24" sizes and 100 PSI for 30"- 36" sizes
- Bolt Hole Drilling** : In accordance with ANSI B16.1 Class 125
- Flange Ends** : In accordance with ANSI Class 125/150 & ANSI/AWWA C115/A21.15
- Applicable Dimensions** : In accordance with ANSI/AWWA C111/A21.11, C110/A21.10 & C153/A21.53
- Used On** : Ductile Iron (PC350) or Steel (SCH40) Pipe
- Coating** : Standard gland color (Coral Red - RAL 3016)
- Gaskets** : SBR in accordance with ANSI/AWWA C111/A21.11
- Set Screws** : ANSI 4140 Steel, Heat Treated and Zinc Plated



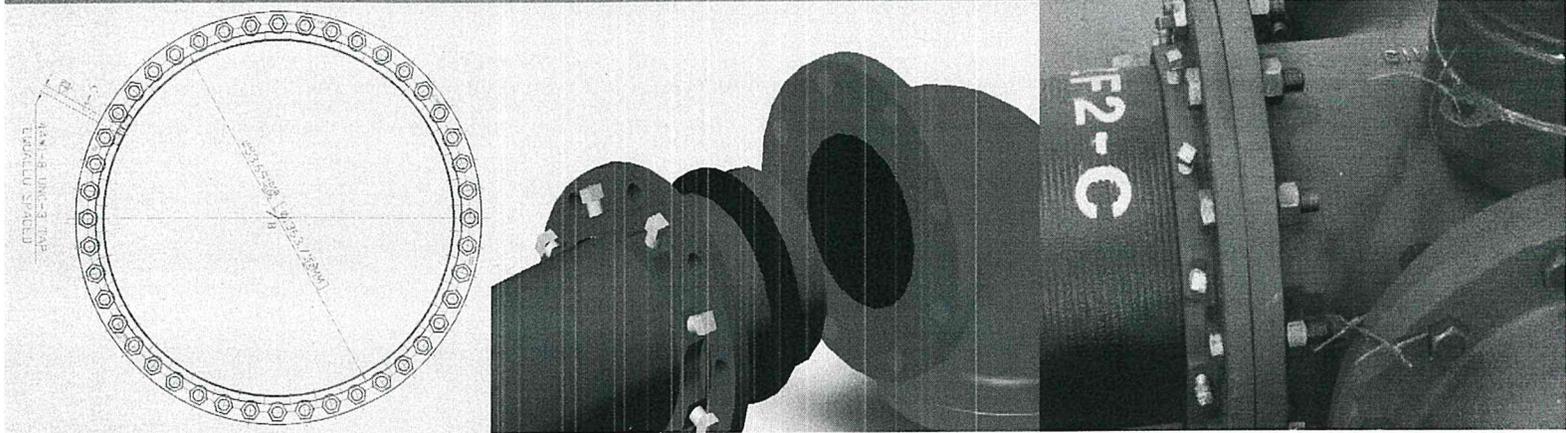
**Technical Specifications**

NOM. SIZE	OD PIPE THREAD		A	B	BC	BOLT HOLE DIA	SET SCREWS		WT. (LBS.)
	DI PIPE	STEEL PIPE					QTY.	SIZE	
3	3.96	3.50	7.50	2.00	6.00	3/4	4	1/2 X 1 1/4	6
4	4.80	4.50	9.00	2.07	7.50	3/4	4	1/2 X 1 1/4	9
6	6.90	6.63	11.00	2.19	9.50	3/4	8	1/2 X 1 1/4	11
8	9.05	8.63	13.50	2.31	11.75	7/8	8	5/8 X 1 1/2	18
10	11.10	10.75	16.00	2.50	14.25	7/8	12	5/8 X 1 1/2	26
12	13.20	12.75	19.00	2.50	17.00	1	12	5/8 X 1 1/2	35
14	15.30	----	21.00	2.75	18.75	1	12	5/8 X 1 1/2	53
16	17.40	----	23.50	2.75	21.25	1 1/8	16	5/8 X 1 1/2	70
18	19.50	----	25.00	3.25	22.75	1 1/8	16	3/4 X 2	78
20	21.60	----	27.50	3.25	25.00	1 1/8	20	3/4 X 2	95
24	25.80	----	32.00	3.69	29.50	1 1/8	20	3/4 X 2	133
30	32.00	----	38.75	4.25	36.00	1 1/8	28	1 X 2 1/4	210
36	38.30	----	46.00	4.38	42.75	1 1/8	32	1 X 2 1/4	300



All dimensions are in inches, unless otherwise stated.

## ZIP FLANGE ZF2/ZF4 SET SCREW ADAPTER FOR DUCTILE IRON OR STEEL PIPE TO FLANGE FITTING, PUMP, VALVE

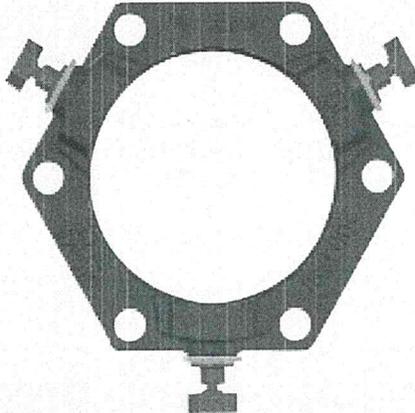
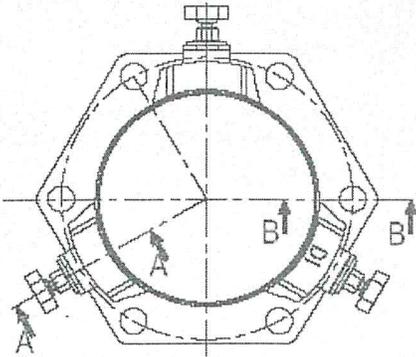


### PRODUCT SPECIFICATIONS

- MATERIAL:**
- Adapter flange sleeve is manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12.
  - Gasket is manufactured of SBR and alternative materials like EPDM, NBR, and CR are available upon request.
  - Set screws are manufactured from AISI 4140 steel, heat-treated and zinc-plated.
- SIZE RANGE:**
- 2" through 48"
- DIMENSION:**
- Manufactured in accordance with ANSI/AWWA C110/A21.10 and ASME B16.1 standards.
- PRESSURE RATINGS:**
- 200 psi on sizes 2"-8", 175 psi on 10"-12", 150 psi on 14"-24" and 100 psi on 30"-48".
- COATING:**
- Red Alkyd paint
- TRACEABILITY:**
- Adapter flange is individually cast with exact heat code information.
- INSTALLATION:**
- In accordance with manufacturer's recommendation and applicable AWWA/ANSI standards.

*Note: This product is not designed to be used on plain end fittings.*

## ONE-LOK™ MODEL SLCE WEDGE RESTRAINT FOR PVC PIPE



### PRODUCT SPECIFICATIONS

**MATERIAL:**

- Gland body, wedge inserts and break-off top actuating bolts are manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12.

**SIZE RANGE:**

- 3" - 36", 42" 54", 60"

**DIMENSION:**

- Conform to ANSI/AWWA C111/A21.11 & ANSI/AWWA C153/A21.53 standards

**PRESSURE RATING:**

- Equal to the water working pressure rating of the pipe upon which it is installed with a minimum 2:1 factor of safety.

**COATING:**

- Red Alkyd paint
- Electro-deposition "CORRSAFE™" available upon request. For further information, please refer to our CORRSAFE Product Information sheet at <http://www.sigmaco.com/pipe-restraint-product-coatings-linings/>

**APPROVALS:**

- Underwriters Laboratories' listed in sizes 4"-12" to ASTM F1674 (latest revision) and Factory Mutual approved in sizes 4"-12".

**DEFLECTION:**

- 5° on 3"-12", 2° on 14"-16", 1.5° on 18"-30" and 1° on 36", 42" 54" and 60"

**TRACEABILITY:**

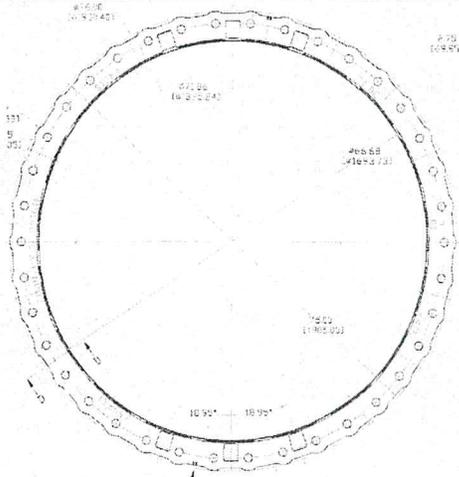
- Gland body, wedge inserts and break-off top actuating bolts are individually cast with exact heat code information.

**INSTALLATION:**

- In accordance with manufacturer's recommendation and applicable AWWA standards.



## ONE-LOK™ MODEL SLDE WEDGE RESTRAINT FOR DUCTILE IRON PIPE



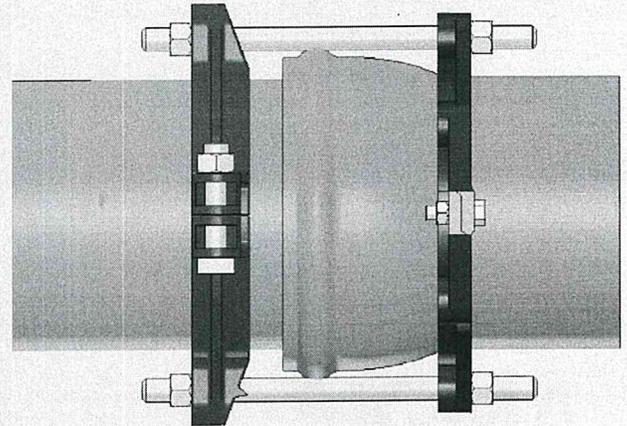
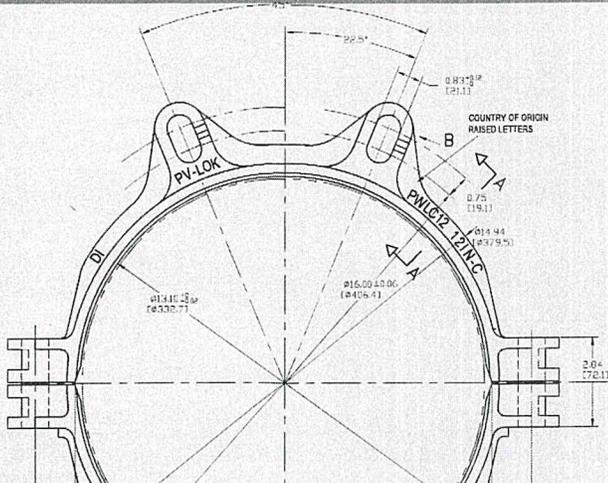
### PRODUCT SPECIFICATIONS

- MATERIAL:**
- Gland body, wedge inserts and break-off top actuating bolts are manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12. Wedge inserts are heat-treated to a hardness of 370 BHN minimum.
- SIZE RANGE:**
- 3" through 64"
- DIMENSION:**
- Conform to ANSI/AWWA C111/A21.11 & ANSI/AWWA C153/A21.53 standards
- PRESSURE RATING:**
- Sizes 3"-16" carry a 350 psi WWP and sizes 18"- 64" carry a 250 psi WWP while providing a minimum 2:1 factor of safety.
- COATING:**
- Asphaltic black enamel
  - Electro-deposition "CORRSAFE™" available upon request. For further information, please refer to our CORRSAFE Product Information sheet at <http://www.sigmaco.com/pipe-restraint-product-coatings-linings/>
- APPROVALS:**
- Underwriters Laboratories' listed in sizes 3"-36" and Factory Mutual approved in sizes 3"-12".
- DEFLECTION:**
- 5° on 3"-12", 2° on 14"-16", 1.5° on 18"-30" and 1° on 36"- 64"
- TRACEABILITY:**
- Gland body, wedge inserts and break-off top actuating bolts are individually cast with exact heat code information.
- INSTALLATION:**
- In accordance with manufacturer's recommendation and applicable AWWA standards.



*Note: This product is not designed to be used on plain end fittings.*

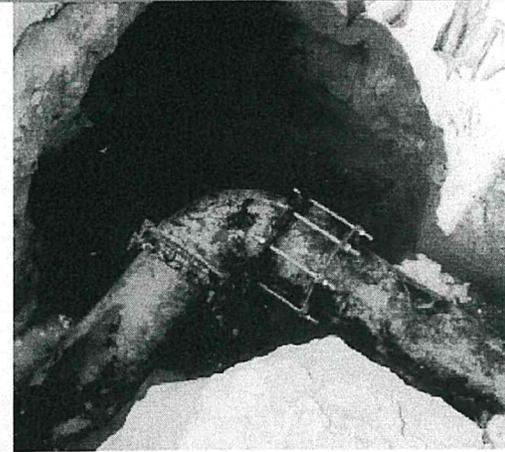
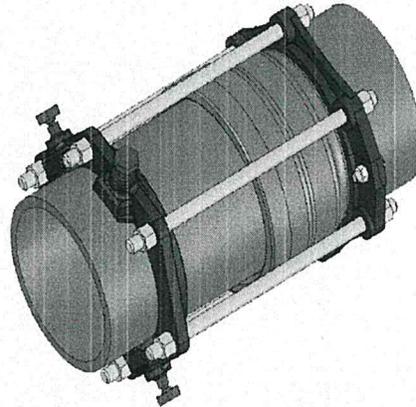
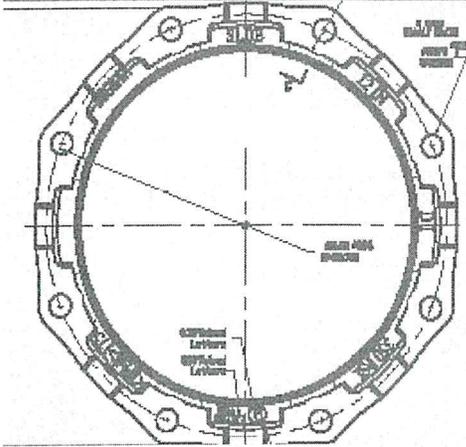
## PV-LOK™ MODEL PWH SERRATED HARNESS RESTRAINT FOR AWWA C900 PVC PIPE



### PRODUCT SPECIFICATIONS

- MATERIAL:**
- Machine-serrated clamping ring and split non-serrated back-up ring are manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12.
  - Side clamping bolts and hex nuts are manufactured of high strength steel in accordance with ASTM A449 and zinc-plated to B663, Type III Sec.1 for corrosion resistance.
- SIZE RANGE:**
- 4" through 12"
- DIMENSION:**
- Manufactured in accordance with AWWA C900 PVC pipe
- PRESSURE RATINGS:**
- Equal to the water working pressure rating of the pipe upon which it is installed with a minimum 2:1 factor of safety.
- COATING:**
- Red Alkyd paint
  - Electro-deposition "CORRSAFE™" available upon request. For further information, please refer to our CORRSAFE Product Information sheet at <http://www.sigmaco.com/pipe-restraint-product-coatings-linings/>
- DEFLECTION:**
- Maintains the allowable nominal deflection within the PVC pipe manufacturer's recommendation for AWWA C900 PVC pipe bells.
- TRACEABILITY:**
- Machine-serrated clamping ring and split non-serrated back-up ring are individually cast with exact heat code information.
- INSTALLATION:**
- In accordance with manufacturer's recommendation and applicable AWWA standards.

## ONE-LOK™ MODEL SLDEH WEDGE HARNESS RESTRAINT FOR DUCTILE IRON PIPE



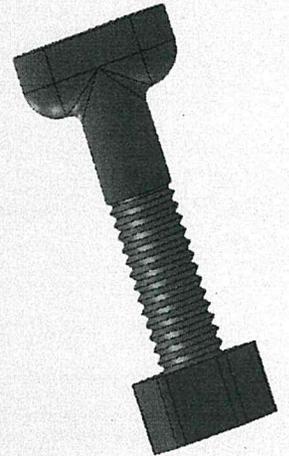
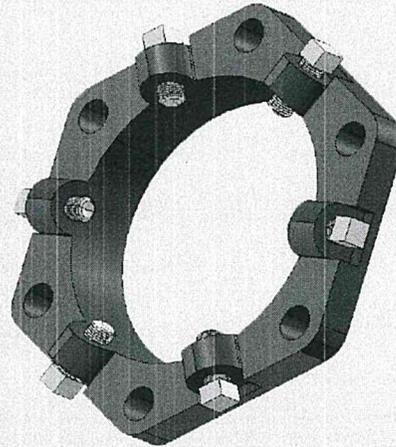
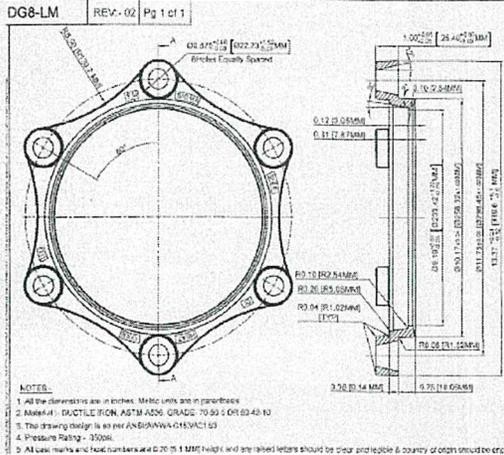
### PRODUCT SPECIFICATIONS

- MATERIAL:**
- Gland body, wedge inserts, break-off top actuating bolts and split back-up ring are manufactured of high strength ductile iron in accordance with ASTM A536, Grade 65-45-12.
  - Wedge inserts are heat-treated to a hardness of 370 BHN minimum.
- SIZE RANGE:**
- 3" through 36"
- DIMENSION:**
- Conform to ANSI/AWWA C151/A21.51 standard
- PRESSURE RATINGS:**
- Sizes 3"-16" carry a 350 psi WWP and sizes 18"-36" carry a 250 psi WWP while providing a minimum 2:1 factor of safety.
- COATING:**
- Asphaltic black enamel
  - Electro-deposition "CORRSAFE™" available upon request. For further information please refer to our CORRSAFE Product Information sheet at <http://www.sigmaco.com/pipe-restraint-product-coatings-linings/>
- APPROVALS:**
- Wedge glands are Underwriters Laboratories' Listed in sizes 3"– 36" and Factory Mutual approved in sizes 3" – 12". Split glands are Underwriters Laboratories' Listed & Factory Mutual approved in sizes 3"-16".
- DEFLECTION:**
- 5° for 3"-12", 2° for 14"-16", 1-1/2° for 18"-24" and 1° for 30"-36"
- TRACEABILITY:**
- Gland body, wedge inserts, break-off top actuating bolts and split back-up ring are individually cast with exact heat code information.
- INSTALLATION:**
- In accordance with manufacturer's recommendation and applicable AWWA standards.



Quality – Service – Commitment – Delivered.

## Accessory Products



- Ductile Iron Set Screw Retainer Glands
- Mechanical Joint And Transition Gaskets
- Mechanical Joint Glands
- Mechanical Joint T-Bolts And Nuts
- Prepackaged Mechanical Joint Accessories
- SIGMASEAL™ Improved MJ Gasket

SIGMA Corporation

700 Goldman Drive  
Cream Ridge, NJ 08514

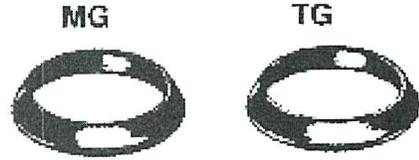
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[www.sigmaco.com](http://www.sigmaco.com)

# Accessory Products

## Mechanical Joint Compact Fittings Accessories

Ductile Iron Class 350 as per ANSI/AWWA C153/A21.53



### MJ Glands

Size	Item No.	Wt.
2	DG2	2
3	DG3	4
4	DG4	5
6	DG6	6
8	DG8	7
10	DG10	10
12	DG12	15
14	DG14	23
16	DG16	28
18	DG18	30
20	DG20	43
24	DG24	50
30	DG30	85
36	DG36	115
42	DG42	180
48	DG48	275

### MJ Gland Packs

Size	Item No.	Wt.
2	DGP2	6
3	DGP3	7
4	DGP4	8
6	DGP6	12
8	DGP8	15
10	DGP10	20
12	DGP12	25
14	DGP14	37
16	DGP16	43
18	DGP18	47
20	DGP20	61
24	DGP24	72
30	DGP30	117
36	DGP36	157
42	DGP42	255
48	DGP48	361

### MJ Gaskets & MJ Transition Gasket

Size	Item No.	Wt.	Item No.	Wt.
2	MG2			
3	MG3	0.25	TG3	0.50
4	MG4	0.30	TG4	0.60
6	MG6	0.50	TG6	0.75
8	MG8	0.75	TG8	1.10
10	MG10	0.80	TG10	1.30
12	MG12	1.00	TG12	1.65
14	MG14	1.30	TG14	
16	MG16	1.45	TG16	
18	MG18	1.60		
20	MG20	1.90		
24	MG24	2.10		
30	MG30	2.30		
36	MG36	2.75		
42	MG42	3.20		
48	MG48	3.65		

Includes: Gland, MJ Gasket, and Standard Tee Bolts & Nuts

TG14-TG16 are not standard and AWWA TG14-TG16 are not pressure rated

### MJ Retainer Glands

Pipe Size	Item No.	Wt.	IRON PIPE O.D	Rating (psi)	Qty	Size	Torque (ft-lbs)
3	RMG3	5	3.96	350	4	5/8 X 2	85
4	RMG4	7	4.80	350	4	5/8 X 2	85
6	RMG6	12	6.90	350	6	5/8 X 2	85
8	RMG8	16	9.05	250	9	5/8 X 2	85
10	RMG10	22	11.10	250	16	5/8 X 2	85
12	RMG12	28	13.20	250	16	5/8 X 2	85
14	RMG14	45	15.30	250	20	5/8 X 2	85
16	RMG16	52	17.40	250	24	5/8 X 2	85
18	RMG18	62	19.50	200	24	5/8 X 2	85
20	RMG20	75	21.60	200	28	3/4 X 2-1/2	110
24	RMG24	97	25.80	200	32	3/4 X 2-1/2	110
30	RMG30	196	32.00	100	40	3/4 X 2-1/2	110
36	RMG36	246	38.30	100	48	3/4 X 2-1/2	110
42	RMG42	302	44.50	100	56	3/4 X 2-1/2	110
48	RMG48	380	50.80	100	64	3/4 X 2-1/2	110



RGP (Retainer gland pack)

Available in packs: Packs include RMG, T-Bolts and MG

Material: DI 65-45-12

Material of Set Screws: Low alloy carbon steel

**Packaged Accessories**

**Retainer Gland Pack - Includes Gland, MJ Gasket and Std. T-Head Bolts**

Size	Item No.	Wt.
3	RGP3	9
4	RGP4	10
6	RGP6	15
8	RGP8	19
10	RGP10	25
12	RGP12	32

**Gland Pack - Includes Gland, MJ Transition Gasket and Std. T-Head Bolts**

Size (in.)	Item No.	Wt. (lb.)
3	DXP3	7
4	DXP4	8
6	DXP6	12
8	DXP8	15
10	DXP10	20
12	DXP12	25

**MJ Bolt & Gasket (Less Gland)**

Size (in.)	Item No.	Wt. (lb.)
2	MGP2	2
3	MGP3	3
4	MGP4	4
6	MGP6	6
8	MGP8	7
10	MGP10	8
12	MGP12	9
14	MGP14	11
16	MGP16	12
18	MGP18	12.32
20	MGP20	14.25
24	MGP24	17.30
30	MGP30	40
36	MGP36	40
42	MGP42	76
48	MGP48	101

**MJ Transition Bolt & Gasket Pack (Less Gland)**

Size (in.)	Item No.	Wt. (lb.)
2	TGP2	1
3	TGP3	3
4	TGP4	4
6	TGP6	6
8	TGP8	7
10	TGP10	8
12	TGP12	9

**SIGMA SEAL MJ Gasket**

Size (in.)	Item No.	Wt. (lb.)
3	MGS3	1.0
4	MGS4	.42
6	MGS6	.55
8	MGS8	.76
10	MGS10	.93
12	MGS12	1.02
14	MGS14	1.00
16	MGS16	1.00
18	MGS18	2.00
20	MGS20	2.00
24	MGS24	2.00
30	MGS30	4.2
36	MGS36	4.00
42	MGS42	5.00
48	MGS48	6.00

**MJxSDR35 Transition Gasket**

Size	Item No.	Wt.
4	TSG04	0.66
6	TSG06	0.90
8	TSG08	1.22
10	TSG10	1.4
12	TSG12	1.8

**High-Strength, Low Alloy Steel T-Head Bolts**

**Standard Bolts**

Size (in.)	Item No.	Wt. (lb.)
5/8x3	TB30	.50
3/4x3 1/2	TB35	.75
3/4x4	TB40	.85
3/4x4 1/2	TB45	1.00
3/4x5	TB50	1.25
1x5	TB60	1.25
1x6	TB61	2.25
1 1/4x6	TB65	2.50
1 1/4x6 1/2	TB65	4.00
3/4x7	TB70	.63
1x8	TB80	3.00
3/4x9	TB90	.72

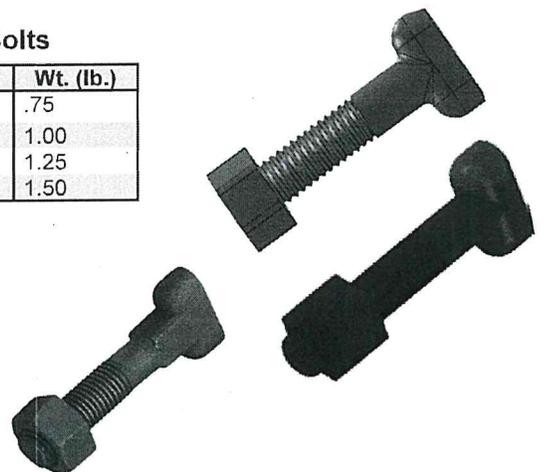
**Anti-Rotation Bolts**

Size (in.)	Item No.	Wt. (lb.)
3/4X3 1/2	ATB35	.75
3/4X4	ATB40	1.00
3/4X4 1/2	ATB45	1.25
3/4X5	ATB50	1.50

Material: Corten ASTM A242 – Standard, Anti-Rotation T-Bolts  
 Finish: Bare plain finish with antirust corrosion preventative coating

Sigma also offer other materials, coatings & sizes  
 SS 304,316  
 Fluoropolymer, Galvanized, Plated

Please contact your territory representative for more information and submittals



## LOCATIONS

**Northeast Region**  
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 Victoriaville, Qc G6P 1B1  
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 Fax (819) 758-1153  
 jboucher@repcoc.ca

**Concord Supply**  
 2353 Bowman Street  
 Innisfil, Ontario L9S 3V6  
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 Fax (705) 436-6338  
 tanya@concordsupply.ca

**Midwest Region**  
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 Sauk Village, IL 60411  
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 Fax (708) 758-6790  
 chicsr@sigmaco.com

**Southeast Region**  
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 1500 Highway 22 W  
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 ontcsr@sigmaco.com

[www.sigmaco.com](http://www.sigmaco.com)

Terms and Conditions of Sales available at our website.

## AWWA Ductile Iron Fittings



- 2-64" C153 Ductile Iron Mechanical Joint Fittings
- 2-48" C110 Ductile Iron Mechanical Joint Fittings
- 2-64" C110 Ductile Iron Flanged Fittings
- 3-24" C153 Ductile Iron Push-On Fittings
- 4-24" C110 Ductile Iron Push-On Fittings
- 3-36" Ductile Iron Mechanical Joint Connector
- C116 Fusion Bonded Epoxy Lining Available
- PROTECTO 401<sup>®</sup> Ceramic Epoxy Lining Available

Visit our website for available special coatings. <http://www.sigmaco.com/fittings-coatings-linings/>

## Mechanical Joint Accessories



- Prepackaged and Loose Mechanical Joint Accessories
- SIGMASEAL™ Improved Mechanical Joint Gasket
- Snap-On Multi-Purpose Gasket for Ductile Iron or PVC Pressure Pipes
- OMNI-SLEEVE™ Improved Wall Penetration Sleeve
- Specialty Bolts and Nuts for Mechanical Joint Assemblies

## ONE-LOK™ Wedge Action Restraints



- 3-48" ONE-LOK D-SLDE Domestic Wedge Restraint for Ductile Iron Pipe
- 3-64" ONE-LOK SLDE Wedge Restraint for Ductile Iron Pipe (Import)
- 4-48" ONE-LOK T-SLDE Tandem Wedge Restraint for High Pressure Ductile Iron Pipe
- 3-36" ONE-LOK D-SLCE Domestic Wedge Restraint for PVC Pipe
- 3-36" ONE-LOK SLCE Wedge Restraint for PVC Pipe (Import)
- 3-36" ONE-LOK SLDEH Wedge Harness Restraint for Ductile Iron Pipe
- 4-12" / 20" ONE-LOK SLDM Wedge Restraint for Oversized Cast Iron Pipe
- 4-36" ONE-LOK SSLD Split Wedge Restraint for Installed Ductile Iron Pipe & Fitting
- 4-36" ONE-LOK SSLDH Split Wedge Harness Restraint for Installed Ductile Iron Pipe
- 4-12" ONE-LOK SLCEH Wedge Harness Restraint for AWWA C900 PVC Pipe

Visit our website for available special coatings. <http://www.sigmaco.com/pipe-restraint-product-coatings-linings/>

## PV-LOK™ Serration Lock Restraints



- 4-48" PV-LOK PWM Serrated Restraint for Ductile Iron Fitting & AWWA C900/905 PVC Pipe
- 4-48" PV-LOK PWP Serrated Bell Joint Restraint for AWWA C900/905 PVC Pipe
- 4-12" PV-LOK D-PWP Domestic Serrated Bell Joint Restraint for AWWA C900 PVC Pipe
- 4-48" PV-LOK PVPF Restraint for AWWA C900/905 PVC Pipe & PVC Fitting
- 4-12" PV-LOK PWH Serrated Harness Restraint for AWWA C900 PVC Pipe
- 2-12" PV-LOK PVM Serrated Restraint for Ductile Iron & IPS OD PVC pipe
- 2-12" PV-LOK PVP Serrated Bell Joint Restraint for IPS OD PVC Pipe
- 4-8" PV-LOK PVPF Serrated Restraint for IPS OD PVC Pipe & PVC Fitting
- 4-12" PV-LOK PWP Serrated Bell Joint Restraint for Ductile Iron Pipe

## HDPE (Raven) Products



- Rotational Molded Meter Boxes & Pits
- Optional White Interior Available
- Light & Medium Duty Load Capacities
- Extensive Nationwide Inventory
- Rotational Molded Oil-Water Separators
- OEM Service Available

## Municipal Construction Castings



- Manhole Rings and Covers
- Curb and Meter Boxes
- Frames and Grates
- Storm Inlets
- Valve Boxes, Risers, and Extensions

## Products for the Ductile Iron Fabricator



- 3-64" High Hub Threaded Flanges
- 3-48" Tapped High Hub Threaded Flanges
- 3-36" Extra Heavy 250lb Drilled Threaded Flanges
- 3-48" Threaded MJ Bell Adapters
- 3-48" MJ x PE Bell adapter
- 3-48" Anchor Flanges
- 3-16" Filler Flanges

## Extended Range Products



- Flange-Pak™ Prepackaged Flange Accessory Sets
- Polyethylene Encasement for Ductile Iron Pipe
- Copper Tubing Products
- Tracer Wire & Detectable/Non-Detectable Marking Tape
- Pipe Joint Lubricant & Hydraulic Cement
- Socket Clamps and Tie Rod Accessories
- Boxlok Valve Box Alignment Device
- Cast Iron Companion Flanges

## Flange Adapters



- 3-36" SIGMAFLANGE Flange Adapter Sleeve for PVC and Ductile Iron Pipe
- 2-48" ZIP FLANGE Set Screw Style Flange Adapter
- 3-12" SIGMAFLANGE Universal Joint for Flanged Fittings, Flanged Pipes & Valves

# FC400 COUPLING CLASS D FLANGE

## SUBMITTAL INFORMATION



## STANDARD

The Romac Series 400 style couplings meet all specifications set forth in the AWWA Standard C219.

## MATERIALS

### FLANGE

AWWA Class D Steel Ring Flange, compatible with ANSI Class 125 and 150 bolt circles.

### END RING AND BODY

The end ring and body are made from ASTM A 36 steel or ductile (nodular) iron meeting or exceeding ASTM A 536, Grade 65-45-12. When anchor pins are requested on FC400's, the wall thickness of the body will be 3/8".

### GASKETS

Nitrile Butadiene Rubber (NBR) compounded for water and sewer service also resistant to hydrocarbons. Meet-

ing the requirements of ASTM D 2000. Other compounds available on request.

### BOLTS AND NUTS

High strength low alloy steel bolts and nuts. Steel meets AWWA Standard C111. Type 304 and 316 Stainless Steel bolt material optional.

### COATINGS

Shop coat applied to parts for corrosion protection in transit. Fusion bonded epoxy, liquid epoxy and other coatings available on request.

## PRESSURE

When properly installed on a pipe that is within the coupling manufacturer's tolerances, Romac style FC400 Flanged Coupling Adapters can work at pressures up to the maximum rating of the flange. AWWA Class D flanges are rated for 175 psi in 4" through 12" sizes and 150 psi in 14" and larger. Test pressures are one and a half time that of working pressure. Higher working pressures can be accommodated with AWWA Class E or F flanges. Consult your representative.

## ANCHOR PINS

Anchor pins (12L14 carbon steel) to restrain fitting, available as option.

## SIZES & RANGES

See Catalog.

*This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.*

# MACRO HP EXTENDED RANGE COUPLING 2 – 12 INCH CATHODIC PROTECTION VERSION

## SUBMITTAL INFORMATION



### USE

Provides an Extended Range Coupling for multi-purpose use from steel pipe up through class 200 asbestos cement pipe with added cathodic protection. Each end requires only one bolt to compress the gasket around the pipe. The MACRO can accommodate up to 10 degrees of deflection.

### STANDARD

The MACRO coupling is in accordance with the requirements of AWWA Standard C219.

### MATERIALS

#### CASTINGS

End rings and center ring are ductile iron, meeting or exceeding the requirements of ASTM A 536, grade 65-45-12.

#### END RINGS

4–12 inch End Rings are segmented and joined with an integrated hinge. 2 and 3 inch use a type 316 stainless steel pin. The gap is spanned by the armor.

#### CENTER RINGS

Cast with integral handle for ease of assembly.

#### GASKETS

Gaskets formed from virgin Nitrile Butadiene Rubber (NBR) compounded for water and sewer service in accordance with ASTM D2000, also resistant to hydrocarbons. NSF 61 Certified.

#### ARMOR

Heavy gauge 304 stainless steel.

#### BOLTS AND NUTS

5/8-11 UNC carriage head bolts with heavy hex nuts, 304 stainless steel. Fasteners provided with anti-galling protection.

#### BOLT CAMS

Type 304 stainless steel.

#### CATHODIC STRIPS & BOLTS

Type 304 stainless steel.

#### ANODE WIRE PORT

ASTM A 36 carbon steel.

#### COATINGS

Fusion bonded epoxy in accordance with AWWA C213 and NSF 61 Certified.

### PRESSURE

When properly installed on a pipe that is within the outside diameter range of the Romac MACRO HP coupling, the 2-8 inch can be used at working pressures up to 305 psi and the 10" and 12" up to 260 psi. The LR (Low-Range) Macro can be use up to 200 psi working pressure 4" - 12". The Macro can be tested up to 1.5 times working pressure.

### SIZES & RANGES

See Catalog.

*This information is based on the best data available at the date printed above. Please check with Romac for any updates or changes.*



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# Stargrip® series 3100P

Wedge Action Restraint  
for Ductile Iron Pipe Bells - New Installations



Stargrip® series 3100P for Ductile Iron Pipe

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Includes Stargrip® and Split Back-Up Ring (for sizes 3"-36") or two Stargrips® (for sizes 42"-48") and high strength low alloy steel double ended rods and nuts which meet the requirements of ANSI/AWWA C111/A21.11
- Minimum Safety Factor 2:1
- For use on all classes of Ductile Iron Pipe
- For new pipe-to-pipe installations only
- Pipe OD must be gauged overall to assure restraint will fit properly.
- Please refer to chart for maximum bell outside diameter for rod clearance.
- May also be used on steel pipe up to 12". For 14" and larger steel applications, contact Star Pipe.

### MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Wedges: Ductile Iron per ASTM A536, Grade 65-45-12 heat treated to a minimum of 370 BHN
  - Wedge Finish: Thermally cured fluoropolymer epoxy coating

### GLAND FINISH OPTIONS (Please check one):

- Standard: alkyd enamel coating
- Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Optional: Other (specify) \_\_\_\_\_

### COUNTRY OF ORIGIN OPTION (Please check one):

- Import
- 100% Domestic<sup>1</sup>
- Domestic gland with import components<sup>1</sup>  
(<sup>1</sup>Please see Domestic Restraint Options Available on our website.)

### HARDWARE OPTIONS (Please check):

- Standard: Restraint rods and nuts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00
- Optional: Restraint rods and nuts alloy SS 304 per ASTM F593
- Optional: Restraint rods and nuts alloy SS 316 per ASTM F593
- Optional: Restraint rods and nuts Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00

STAR® PIPE PRODUCTS







PVC Stargrip® series 4000
Mechanical Joint Wedge Action Restraint
for Plastic Pressure Pipe



SUBMITTAL INFORMATION

PROJECT NAME:
ENGINEER:
CONTRACTOR:
SPEC. SECTION:



FEATURES & ADVANTAGES

- The design has been proven in the market since 1992.
Can be used on AWWA C900 PVC pipe, IPS PVC pipe, AWWA C909 PVCO pipe, and HDPE pipe.
Gland is made from high strength Ductile Iron per ASTM A536 Grade 65-45-12...
Eliminates the need for tie rods and thrust blocks
Listed with Underwriters Laboratories and approved by Factory Mutual reserach in sizes 4"-12".
Tested to and meets the requirements of ASTM F1674 through 14".
The safety factor is twice (2:1) the standardized pressure rating listed on Page 19.
Will fit any Mechanical Joint configuration, meaning compatibility with different types of installations.
PVC Stargrip® offers 5° deflection through 12", 3° on 14"-24" and 2° on 30"-36".
Larger ID allows easier installation on out-of-round pipe.
Torque limiting bolts are designed to prevent over torquing.
All sizes have curved wedges that do not flatten pipe.
Standard gland color is Coral Red (RAL 3016).

MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
Wedges: Ductile Iron per ASTM A536, Grade 65-45-12
Wedge Finish: Thermally cured fluoropolymer epoxy coating

GLAND FINISH OPTIONS (Please check one):

- Standard: alkyd enamel coating
Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
Optional: Other (specify)

COUNTRY OF ORIGIN OPTION (Please check one):

- Import
100% Domestic¹
Domestic gland with import components¹

¹Please see Domestic Restraint Options Available on our website.

HARDWARE OPTIONS (Please check):

- Standard: T-bolts and nuts are high strength low alloy steel manufactured in accordance with ANSI/ AWWA C111/A21.11
Optional: T-bolts alloy SS 304 per ASTM F593; Nuts alloy SS 304 per ASTM F594 CW
Optional: T-bolts SS 316 per ASTM F593; Nuts SS 316 per ASTM A194 Grade 8M
Optional: T-bolts and nuts Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11

STAR PIPE PRODUCTS

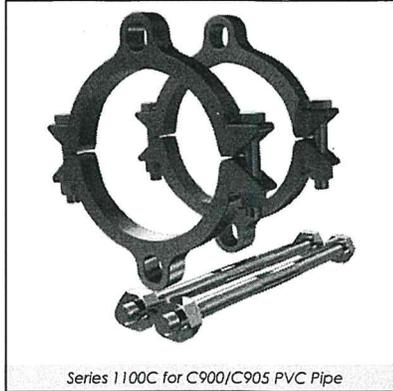






Pipe Restrainers series 1100

1100C Bell Restrainers for AWWA C900 PVC Pipe and 1100S Bell Joint for IPS PVC Pipe



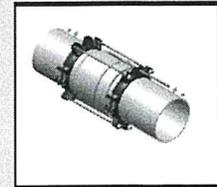
Series 1100C for C900/C905 PVC Pipe

SUBMITTAL INFORMATION
PROJECT NAME:
ENGINEER:
CONTRACTOR:
SPEC. SECTION:



FEATURES & ADVANTAGES

- 360° contact, no pipe distortion or point loading
• Restrainers work with Push-On Pipe Bells.
• All restrainers are machined to exact tolerances.
• Rated pressures carry a 2:1 safety factor.
• Can be installed outside the trench, to ease installation
• Clamping Bolts: SAE J429 Grade 5
• Series 1100C is approved by Factory Mutual Research in sizes 4"-6" for use on C900 PVC DR18, for 150 PSI.
• Available in sizes 4"-48"



1100C on pipe bell

MATERIAL SPECIFICATIONS:

- Restrainer Castings: Ductile Iron per ASTM A536, Grade 65-45-12

PIPE RESTRAINER OPTIONS (Please check one):

- [ ] SERIES 1100C (Bell Restrainers for AWWA C900 PVC Pipe)
[ ] SERIES 1100S (Bell Restrainers for IPS PVC Pipe - NOT available in domestic.)

RESTRAINER CASTINGS FINISH OPTIONS (Please check one):

- [x] Standard: alkyd enamel coating
[ ] Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
[ ] Optional: Other (specify) \_\_\_\_\_

COUNTRY OF ORIGIN OPTION (Please check one):

- [x] Import
[ ] 100% Domestic! (Series 1100S is NOT available in domestic.)
[ ] Domestic restrainer castings with import components! (Series 1100S is NOT available in domestic.)
\*Please see Domestic Restraint Options Available on our website.

HARDWARE OPTIONS (Please check one):

- [x] STANDARD:
- Clamp Bolt: SAE J429 Grade 5
- Clamp Nut: SAE J995 Grade 2 or ASTM A563 Grade "A" or "B"
- Restraint Bolt/Rod/Nut: High strength low alloy steel per ANSI/AWWA C111/A21.11
- Washer: carbon steel per ASTM F844
[ ] OPTIONAL SS ALLOY 304:
- Clamp Bolt: SS alloy 304 per ASTM A193 Grade B8, Class 2
- Clamp Nut: SS alloy 304 per ASTM A194 Grade 8, S1
- Restraint Bolt/Rod: SS alloy 304 per ASTM F593 CW
- Restraint Nut: SS alloy 304 per ASTM F594 CW
- Washer: SS alloy 304
[ ] OPTIONAL SS ALLOY 316:
- Clamp Bolt: SS alloy 316 per ASTM A193 Grade B8M, Class 2
- Clamp Nut: SS alloy 316 per ASTM A194 Grade 8M, S1
- Restraint Bolt/Rod: SS alloy 316 per ASTM F593 CW
- Restraint Nut: SS alloy 316 per ASTM A194 Grade 8M
- Washer: SS alloy 316
[ ] OPTIONAL STAR BLUE:
- Clamp Bolt: Fluoropolymer Star Blue coated SAE J429 Grade 5
- Clamp Nut: Fluoropolymer Star Blue coated SAE J995 Grade 2 or ASTM A563 Grade "A" or "B"
- Restraint Bolt/Rod/Nut: Fluoropolymer Star Blue coated high strength low alloy steel per ANSI/AWWA C111/A21.11
- Washer: Fluoropolymer Star Blue coated carbon steel per ASTM F844

STAR® PIPE PRODUCTS

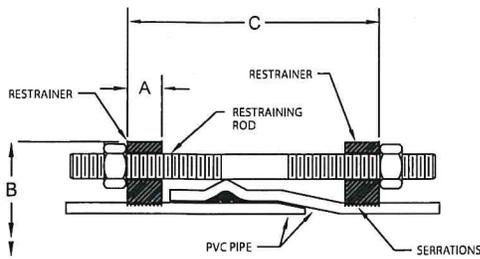




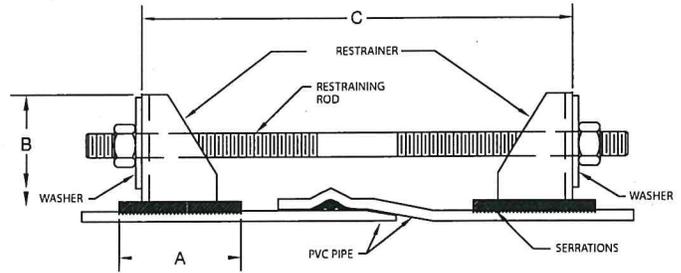
# Pipe Restrainers series 1100

1100C Bell Restrainers for AWWA C900 PVC Pipe and 1100S Bell Joint for IPS PVC Pipe

TECHNICAL INFORMATION



4" - 12" Sizes



14" - 48" Sizes

PIPE RESTRAINERS 1100 SPECIFICATIONS\*

Please check sizes:

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NOM. SIZE	PVC PIPE WITH DUCTILE IRON PIPE O.D. STYLE 1100C	PVC PIPE WITH STEEL PIPE O.D. STYLE 1100S	A	B APPROX.	C MAX.	RESTRAINT BOLTS/RODS		CLAMPING BOLTS		APPROX WT. (LBS)
	O.D.	O.D.				QTY	SIZE	QTY	SIZE	
4	4.80	4.50	1.12	9.29	12.00	2	3/4 x 17	4	5/8 x 3 1/2	16
6	6.90	6.63	1.15	11.13	13.00	2	3/4 x 17	4	5/8 x 3 1/2	20
8	9.05	8.63	1.47	14.76	15.00	2	3/4 x 17	4	3/4 x 4	32
10	11.10	10.75	1.38	16.82	16.00	4	3/4 x 24	4	7/8 x 5	52
12	13.20	12.75	1.42	19.46	18.00	4	3/4 x 24	4	7/8 x 5	56
14	15.30	N/A	4.00	22.68	24.00	6	3/4 x 30	8	7/8 x 7	150
16	17.40	N/A	3.75	24.65	28.00	6	3/4 x 30	8	7/8 x 6 1/2	117
18	19.50	N/A	4.25	26.65	28.00	8	3/4 x 30	8	7/8 x 6 1/2	147
20	21.60	N/A	5.00	28.88	28.00	8	3/4 x 36	8	1 1/8 x 8 1/2	206
24	25.80	N/A	5.00	33.98	34.00	12	3/4 x 36	8	1 1/8 x 8 1/2	265
30	32.00	N/A	7.00	42.48	38.00	12	1 x 48	12	1 1/8 x 6	492
36	38.30	N/A	9.00	49.10	38.00	12	1 x 48	12	1 1/8 x 6	561
42	44.50	N/A	11.00	57.00	46.00	16	1 1/4 x 54	12	1 1/2 x 10	1916
48	50.80	N/A	11.00	63.88	46.00	16	1 1/4 x 54	12	1 1/2 x 10	2242

\*All dimensions in inches except where indicated.

NOM. SIZE (IN.)	Standardized Pressure Ratings**														
	AWWA C900 (CIOD)									AWWA C909 PVC0			ASTMD2241* (IPS OD)		
	DR14	DR17	DR18	DR21	DR25	DR27.5	DR32.5	DR41	DR51	IPEX PVC0	JM EAGLE PVC0		SDR 17	SDR 21	SDR 26
4	200	-	150	-	100	-	-	-	-	-	-	-	250	200	160
6	200	-	150	-	100	-	-	-	-	-	-	-	250	200	160
8	200	-	150	-	100	-	-	-	-	-	-	-	250	200	160
10	200	-	150	-	100	-	-	-	-	-	-	-	250	200	160
12	200	-	150	-	100	-	-	-	-	-	-	-	250	200	160
14	305	250	235	200	165	-	-	-	-	235	-	-	-	-	-
16	-	250	235	200	165	-	-	-	-	200	-	165	-	-	-
18	-	250	235	200	165	-	-	-	-	200	-	-	-	-	-
20	-	-	235	200	165	-	-	-	-	-	-	-	-	-	-
24	-	-	235	200	165	-	-	-	-	-	-	-	-	-	-
30	-	-	235	200	165	-	-	-	-	-	-	-	-	-	-
36	-	-	235	200	165	-	-	-	-	-	-	-	-	-	-
42	-	-	-	200	165	150	125	100	80	-	-	-	-	-	-
48	-	-	-	-	165	150	125	100	80	-	-	-	-	-	-

\* Transition Push-On Gasket Required

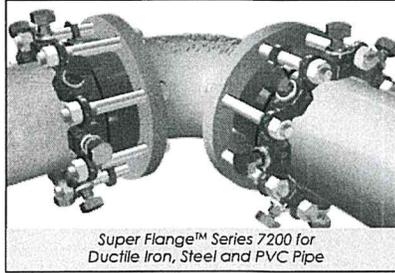
\*\*For ordinary water works with transient surges only. Ratings are for PVC pipes with SERIES 1100 Restraint.

STAR® PIPE PRODUCTS

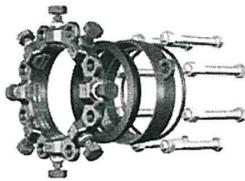


# Super Flange™ series 7200

Designed for use on Ductile Iron, Steel, PVC, PVCO and HDPE Pipes



Super Flange™ Series 7200 for Ductile Iron, Steel and PVC Pipe



### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Versatile product designed for adapting ductile iron (3"-48"), PVC (3"-24") & steel (3"-12") pipe to flange connections.
- 350 psi maximum pressure rating on ductile iron pipe and rated to the maximum pressure rating of PVC pipe
- Approved on AWWA C900 PVC pipe, IPS PVC pipe, AWWA C909 PVCO pipe, and HDPE pipe. See pressure rating table for approved DRs and sizes. Plastic pressure pipes manufactured to an IPS diameter regimen will require a transition gasket.
- Joint deflection up to 5° maximum
- Allows for field flanged ends on plain end pipe
- Flange meets ANSI Class 125/150 and ANSI/AWWA C115/A21.15 drill pattern.
- Includes restraint gland, flange adapter ring, gaskets and hex head bolts/nuts
- Super Flange™ sizes 3"-12" are listed with Underwriters Laboratories Inc. and Underwriters Laboratories of Canada for ductile iron and steel pipe.
- Super Flange™ sizes 4" - 12" are approved by Factory Mutual Research for use on C900 PVC pipe DR18 Class 235 at 150 psi and sizes 4"-10" on DR14 Class 305 at 200 psi.

### MATERIAL SPECIFICATIONS:

- Restraint Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Restraint Gland Finish: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Wedges: Ductile Iron per ASTM A536, Grade 65-45-12 heat treated to a minimum of 370 BHN
- Wedge Finish: Thermally cured fluoropolymer epoxy coating
- Flange adapter ring: coated with fusion bonded epoxy that meets ANSI/NSF 61
- MJ gasket and O-ring flange gasket are made from styrene butadiene rubber (SBR) per ANSI/AWWA C111/A-21.11.

#### GASKET TYPE (Please check one):

- Standard: MJ Gasket
- Option: Transition Gasket (3" to 12" only)

#### MJ GASKET MATERIAL OPTIONS (Please check one):

- Standard: Styrene butadiene rubber (SBR) per ANSI/AWWA C111/A-21.11
- Optional: EPDM
- Optional: NITRILE
- Other (specify) \_\_\_\_\_

#### HARDWARE OPTIONS (Please check one):

- Standard: hex head bolts and nuts are manufactured in accordance with ASTM A307, Grade B and ASTM A563 - bolts and nuts are also zinc plated.
- Optional: hex head bolts and nuts alloy SS 304 per ASTM F593 and ASTM A194
- Optional: hex head bolts and nuts alloy SS 316 per ASTM F593 and ASTM A194
- Optional: hex head bolts and nuts Fluoropolymer Star-Blue coated

STAR® PIPE PRODUCTS







# Super Flange™ series 7200

Designed for use on Ductile Iron, Steel, PVC, PVC0 and HDPE Pipes

**TECHNICAL INFORMATION (cont'd)**

**TABLE A. Maximum Working Pressure Rating with Occasional or Recurring Surges in PSI for Pipes Made to a CIOD Diameter Regimen**

NOM. SIZE (IN)	ACTUAL PLASTIC PIPE OD	DUCTILE IRON	AWWA C900 PVC									AWWA C909 PVC0	AWWA C906 HDPE*						
			DR14	DR17	DR18	DR21	DR25	DR27.5	DR32.5	DR41	DR51		PC235	DR 7.3	DR 9	DR 9.3	DR11	DR13.5	DR17
3	3.96	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	4.80	350	305	250	235	200	165	-	-	-	-	235	254	200	193	160	130	100	
6	6.90	350	305	250	235	200	165	-	-	-	-	235	254	200	193	160	130	100	
8	9.05	350	305	250	235	200	165	-	-	-	-	235	254	200	193	160	130	100	
10	11.10	350	305	250	235	200	165	-	-	-	-	***	254	200	193	160	130	100	
12	13.20	350	305	250	235	200	165	-	-	-	-	200	254	200	193	160	130	100	
14	15.30	350	305	250	235	200	165	150	125	-	-	165	-	200	193	160	130	100	
16	17.40	350	305	250	235	200	165	150	125	-	-	165	-	-	-	160	-	-	
18	19.50	300	-	-	235	200	165	150	125	-	-	150	-	-	-	160	-	-	
20	21.60	250	-	-	235	200	165	150	125	-	-	-	-	-	-	-	-	-	
24	25.80	200	-	-	-	-	165	150	125	-	-	-	-	-	-	-	-	-	
30	32.00	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	38.30	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
** 42	44.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
** 48	50.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

\* A stainless steel pipe stiffener (provided by others) is required for the Series 7200 to be installed on HDPE pressure pipe. The stiffener must be installed in the HDPE pipe before installing the Series 7200. The stainless steel pipe stiffener must be of sufficient length to support the full bearing length of the restrainer.

\*\* Contact Star Pipe Products for price and availability.

\*\*\* The Series 7200 is not recommended for 10-inch AWWA C909 PVC0 pressure pipe.

**TABLE B. Maximum Working Pressure Rating with Occasional or Recurring Surges in PSI for Pipes Made to an IPS Diameter Regimen**

NOM. SIZE (IN)	ACTUAL PLASTIC PIPE OD*	STEEL PIPE	ASTM D2241 PVC			AWWA C901 and AWWA C906 HDPE**					
			SDR17	SDR21	SDR26	DR 7.3	DR 9	DR 9.3	DR 11	DR 13.5	DR 17
3	3.50	350	250	200	160	254	200	-	160	130	100
4	4.50	350	250	200	160	254	200	193	160	130	100
6	6.63	350	250	200	160	254	200	193	160	130	100
8	8.63	350	250	200	160	254	200	193	160	130	100
10	10.75	350	250	200	160	254	200	193	160	130	100
12	12.75	350	250	200	160	254	200	193	160	130	100

\* A transition gasket is required for use with pipes made to an IPS diameter regimen.

\*\* A stainless steel pipe stiffener (provided by others) is required for the Series 7200 to be installed on HDPE pressure pipe. The stiffener must be installed in the HDPE pipe before installing the Series 7200. The stainless steel pipe stiffener must be of sufficient length to support the full bearing length of the restrainer.



STAR® PIPE PRODUCTS



# Flange Adapters series 200

For Steel (3"-12") and Ductile Iron (3"-12") Pipe - Flange Drilling ANSI B16.1 125 lbs  
Working Pressure: 3"-8" 200 PSI, 10"-12" 175 PSI



Flange Adapter Series 200 for Steel and Ductile Iron Pipe

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Sizes 3"-12" are Underwriters Laboratories Inc. Listed at 200 PSI for 3"-8" sizes and 175 PSI for 10"-12" sizes. For use on PC350 ductile iron and SCH40 steel pipe.
- Bolt hole drilling is to ANSI B16.1 class 125.
- Uses standard mechanical joint gasket for seal on DI Pipe and Transition Gasket on steel pipe.
- Pipe fabrication can be done on site, using plain end pipe.
- Flange Adapters are ideal for jobs involving retro-fitting.
- Can be used on Ductile Iron (3"-12") and Steel (3"-12") Pipe – steel pipe sizes require a transition gasket.
- Can be used in above or below ground applications
- If future maintenance is required, Flange Adapters can be easily disassembled.

### MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Retainer set screws are made from medium carbon alloy steel through hardened, quenched and tempered to hardness of rockwell C43-53.

### GASKET OPTIONS (Please check one):

Standard: SBR Gasket

Optional: Transition Gasket (for Steel Pipe)

STAR® PIPE PRODUCTS

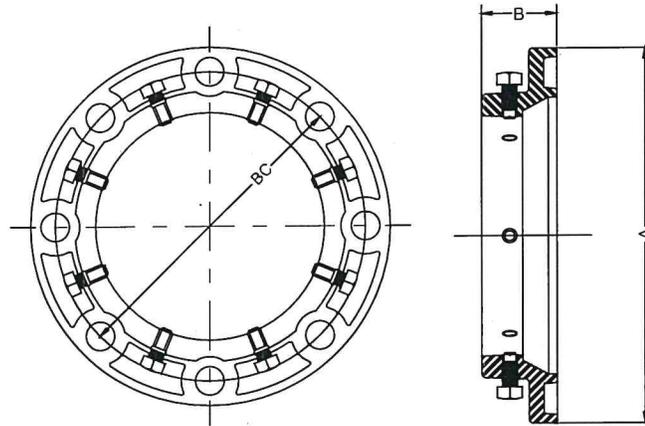




# Flange Adapters series 200

For Steel (3"-12") and Ductile Iron (3"-36") Pipe - Flange Drilling ANSI B16.1 125 lbs

## TECHNICAL INFORMATION



FLANGE ADAPTER 200 SPECIFICATIONS*									
NOM. SIZE	DUCTILE PIPE O.D.	STEEL PIPE <sup>†</sup> O.D.	APPROX WT. (LBS)	A	B	BC	BOLT HOLE DIA.	SET SCREWS	
								QTY	SIZE
3	3.96	3.50	5.84	7.50	2.00	6.00	3/4	4	1/2 x 1 1/4
4	4.80	4.50	8.12	9.00	2.07	7.50	3/4	4	1/2 x 1 1/4
6	6.90	6.63	11.05	11.00	2.19	9.50	7/8	8	1/2 x 1 1/4
8	9.05	8.63	17.13	13.50	2.31	11.75	7/8	8	5/8 x 1 1/2
10	11.10	10.75	25.15	16.00	2.50	14.25	1	12	5/8 x 1 1/2
12	13.20	12.75	34.38	19.00	2.50	17.00	1	12	5/8 x 1 1/2

Please check sizes:

- 
- 
- 
- 
- 
- 

\*All dimensions in inches except where indicated.

### Notes:

<sup>†</sup> Transition gasket required on steel pipe.

STAR® PIPE PRODUCTS



# Flange Adapters series 400

For Steel (3"-12") and Ductile Iron (3"-36") Pipe - Flange Drilling ANSI B16.1 125 lbs Working Pressure: 3"-12" 250 PSI, 14"-24" 150 PSI, 30"-36" 100 PSI



Flange Adapter Series 400 for Steel and Ductile Iron Pipe

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Sizes 3"-12" are Underwriters Laboratories Inc. Listed at 200 PSI for 3"-8" sizes and 175 PSI for 10"-12" sizes. For use on PC350 ductile iron and SCH40 steel pipe.
- Bolt hole drilling is to ANSI B16.1 class 125.
- Uses standard mechanical joint gasket for seal on DI Pipe and Transition Gasket on steel pipe.
- Pipe fabrication can be done on site, using plain end pipe.
- Flange Adapters are ideal for jobs involving retro-fitting.
- Can be used on Ductile Iron (3"-36") and Steel (3"-12") Pipe – steel pipe sizes require a transition gasket.
- Can be used in above or below ground applications
- If future maintenance is required, Flange Adapters can be easily disassembled.

### MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Retainer set screws are made from medium carbon alloy steel through hardened, quenched and tempered to hardness of rockwell C43-53.

### GASKET OPTIONS (Please check one):

Standard: SBR Gasket

Optional: Transition Gasket (for Steel Pipe)

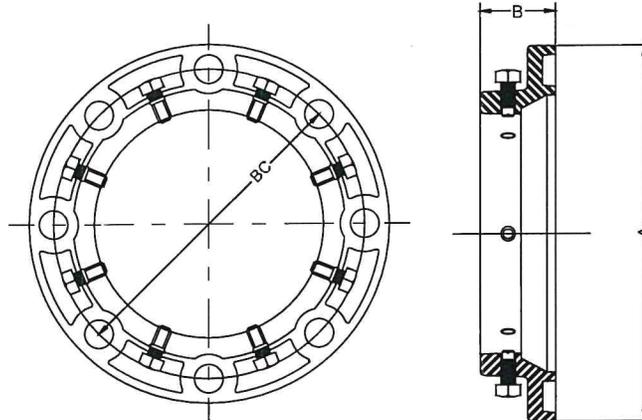
STAR<sup>®</sup> PIPE PRODUCTS



# Flange Adapters series 400

For Steel (3"-12") and Ductile Iron (3"-36") Pipe - Flange Drilling ANSI B16.1 125 lbs

TECHNICAL INFORMATION



FLANGE ADAPTER 400 SPECIFICATIONS*									
NOM. SIZE	DUCTILE PIPE O.D.	STEEL PIPE O.D.	APPROX. WT. (LBS)	A	B	BC	BOLT HOLE DIA.	SET SCREWS	
								QTY	SIZE
3	3.96	3.50	5.84	7.50	2.00	6.00	3/4	4	1/2 x 1 1/4
4	4.80	4.50	8.12	9.00	2.07	7.50	3/4	4	1/2 x 1 1/4
6	6.90	6.63	11.05	11.00	2.19	9.50	7/8	8	1/2 x 1 1/4
8	9.05	8.63	17.13	13.50	2.31	11.75	7/8	8	5/8 x 1 1/2
10	11.10	10.75	25.15	16.00	2.50	14.25	1	12	5/8 x 1 1/2
12	13.20	12.75	34.38	19.00	2.50	17.00	1	12	5/8 x 1 1/2
14	15.30	N/A	53.00	21.00	2.75	18.75	1 1/8	12	5/8 x 1 1/2
16	17.40	N/A	69.00	23.50	2.75	21.25	1 1/8	16	5/8 x 1 1/2
18	19.50	N/A	76.00	25.00	3.25	22.75	1 1/4	16	3/4 x 2
20	21.60	N/A	95.00	27.50	3.25	25.00	1 1/4	20	3/4 x 2
24	25.80	N/A	131.00	32.00	3.69	29.50	1 3/8	20	3/4 x 2
30	32.00	N/A	206.00	38.75	4.25	36.00	1 3/8	28	1 x 2 1/4
36	38.30	N/A	300.00	46.00	4.38	42.75	1 5/8	32	1 x 2 1/4

Please check sizes:

\*All dimensions in inches except where indicated.

**Notes:**

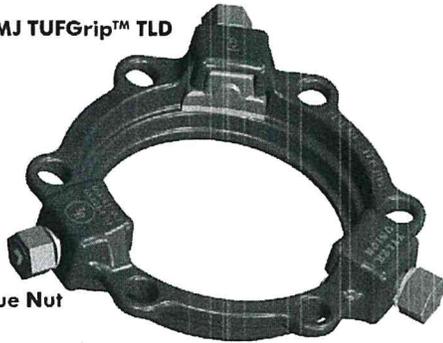
\* Transition gasket required on steel pipe.

STAR® PIPE PRODUCTS

# TUFGRIP<sup>™</sup>

**Series 1000 - For Ductile Iron Pipe**  
"A Proven Third Generation Mechanical Joint Restraint"

MJ TUFGrip<sup>™</sup> TLD



Torque Nut



Tyler Union's TUF Grip restraints represent the culmination of 20 years of engineering and testing. As a 3rd generation restraint, TUF Grip is the best available technology in the Waterworks market for use in restraining Ductile Iron Pipe.



## "BETTER BY DESIGN"

### SPECIFICATIONS:

- Designed and proven to restrain plain end ductile iron pipe conforming to ANSI/AWWA C151/A21.51 in diameters 3" thru 48"
- Proven for use on heavy wall \*\*Schedule 40 or greater steel pipe in sizes 3" - 12" and on all sizes 3" to 16" when pipe O.D. and wall thickness conforms to C151 \*\*Note: IPS diameter steel pipe requires the use of an MJ Transition gasket
- Restraint design conforms with applicable requirements of ANSI/AWWA C111, ANSI/AWWA C153, and ANSI/AWWA C110
- Restraint engineered for securing plain end pipe to mechanical joint fittings conforming to ANSI/AWWA C110, C111, and C153
- Restraints rated for working water pressure of 350 psi and transitory surges of 100psi for 3" thru 16" and 250 psi for 18" thru 48"
- Cast of ASTM A536 compliant 65-45-12 ductile iron complete with a cast on date code and country of origin for traceability
- Restraints and all components are designed and proven for a 2:1 safety factor based on the pipe pressure rating
- Restraint deflection rating when installed on nominal diameter pipe is 3"- 3", 4"-12" - 5°, 14"-16" - 2°, and 18"-48" - 1.5°
- Standard coating for Non-Domestic restraint is 4-6 mil of \*Alkyd resin baking enamel **\*Note: Epoxy coatings available upon request**
- Gripping wedges are heat treated to a minimum 420 Brinell Hardness
- Gripping wedge, wedge collar bolt, and twist off torque limiting nut shall be e-coated
- FM approved for 4" thru 12" applications and UL listed and approved for 3" thru 24" applications
- Not recommended for use on plain end fittings
- Color coded black for pipe type(ductile/\*cast iron/\*\*steel) - **\*Note: Refer to the following pages for cast iron and steel pipe applications**

### FEATURES & ADVANTAGES:

- Torque limiting nut on gripping wedge assembly twists off within a designed torque range eliminating the need for specialized tools
- Gripping wedge assembly pivots providing stronger engagement of pipe wall at lower torque requirement (45-60 ft.-lbs.)
- Proven restraint technology utilizing fewer gripping wedges in frequently applied diameters, reducing trench time and project cost
- Restraint's heavy duty construction and design eliminates the need for costly thrust blocks and tie rods
- Suitable for Potable and Wastewater applications

ISO 9001-2008 Registered

Listed with Underwriters Laboratory

Factory Mutual Approved

Product Source/Type	Name of Project	Name of Contractor	Project Engineer	Spec. Section and/or Project No.

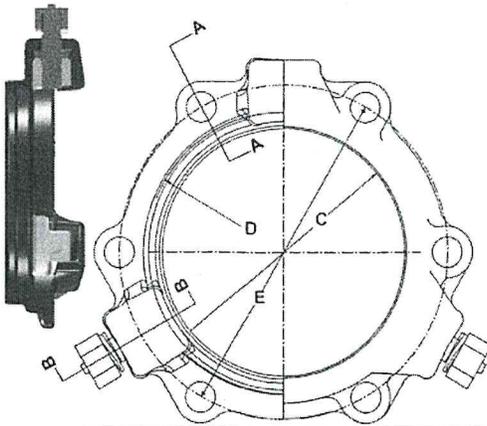
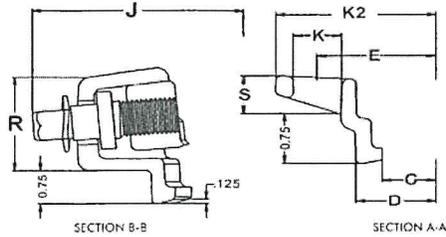
### \*Tyler Union Waterworks Contact Information\*

**Tyler:** 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478

**Anniston:** 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601

**Corona:** 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471

## Series 1000-Ductile Pipe Restraint



TUFGRIP<sup>™</sup> MJ Restraint Dimensions

Size (inches)	C	D	E	K2	J	K	R	S
3	4.08	4.88	6.19	7.67	9.82	3/4	2.20	0.86
4	4.93	5.92	7.50	8.98	10.67	7/8	2.20	0.73
6	7.03	8.02	9.50	10.98	12.77	7/8	2.24	0.82
8	9.18	10.17	11.75	13.23	14.92	7/8	2.28	0.82
10	11.23	12.22	14.00	15.70	16.97	7/8	2.37	0.93
12	13.33	14.32	16.25	17.95	19.07	7/8	2.40	0.93
14	15.44	16.40	18.75	20.43	21.18	7/8	2.57	0.91
16	17.54	18.50	21.00	22.88	23.28	7/8	2.57	1.05
18	19.64	20.60	23.25	25.43	25.38	7/8	2.57	1.05
20	21.74	22.70	25.50	27.50	27.48	7/8	2.66	1.15
24	25.94	26.90	30.00	32.00	31.68	7/8	2.72	1.35
30	32.18	33.30	36.88	39.42	39.78	1-1/8	3.86	1.53
36	38.48	39.60	43.75	46.29	46.08	1-1/8	3.86	1.53
42	44.68	45.80	50.62	53.62	53.08	1-3/8	4.56	2.05
48	50.98	52.10	57.50	60.50	59.28	1-3/8	4.56	2.05

SERIES 1000 TLD-DUCTILE TUFGRIP<sup>™</sup> - APPLICATION CHART

Size (Inches)	Part No. - Gland Only Domestic / Non-Domestic	Wedge Qty.	T-Head Bolt Qty.	Bolt Size	Gland Weight(lbs.)	Weight (w/Acc.)	Pressure Rating	Pipe O.D.
3	CALL / 113805	2	4	5/8" x 3"	6.5	10.5	350	3.96
4	515944 / 113812	2	4	3/4" x 3.5"	7.1	11.8	350	4.80
6	515968 / 113829	3	6	3/4" x 4"	11.2	18.8	350	6.90
8	515975 / 113836	3	6	3/4" x 4"	13.1	20.3	350	9.05
10	515982 / 113843	6	8	3/4" x 4"	26.0	32.5	350	11.10
12	515999 / 113850	8	8	3/4" x 4"	31.5	40.4	350	13.20
14	516231 / 113867	10	10	3/4" x 4.5"	43.3	53.6	350	15.30
16	516255 / 113874	12	12	3/4" x 4.5"	54.1	66.3	350	17.40
18	516279 / 113898	12	12	3/4" x 4.5"	59.8	72.2	250	19.50
20	516293 / 113904	14	14	3/4" x 4.5"	69.8	83.8	250	21.60
24	516316 / 113911	16	16	3/4" x 5"	90.4	106.9	250	25.80
30	CALL / 461289	20	20	1" x 7.5"	248	290	250	32.00
36	CALL / 461333	24	24	1" x 7.5"	277	327	250	38.30
42	CALL / 461319	28	28	1-1/4" x 8.5"	448	512	250	44.50
48	CALL / 461326	32	32	1-1/4" x 8.5"	519	597	250	50.80

ISO 9001-2008 Registered

Listed with Underwriters Laboratory

Factory Mutual Approved

**STOP-LOOK :**

- Extra length T-Head bolts are provided with 30 thru 48 inch restraints to facilitate mechanical joint assembly
- For UL/FM Approvals, 3-12 inch were tested at 5° of deflection and 14-24 inch were tested at 3° of deflection; all test were to 700 psi
- The Series 1000 TUF Grip is specified for use on ductile iron pipe but can be used on some sizes of cast grey iron or pit cast pipe if the pipe is not severely corroded, is in sound condition, and has an outside diameter compatible with the as provided dimensions
- TUF Grip 30 to 48 inch provided with TRU-Lock<sup>™</sup> mechanical joint gasket to ensure pressure ratings and safety factors are met
- Installation and hydrostatic testing shall be in accordance with AWWA C600 and AWWA C651
- Some vertical applications where piping is partially buried may require additional restraint – Contact Tyler Union Waterworks
- **Caution:** Pressure testing of piping systems restrained or un-restrained with insufficient backfill or bracing is not recommended

\*Tyler Union Waterworks Contact Information\*

**Tyler:** 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478

**Anniston:** 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601

**Corona:** 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471

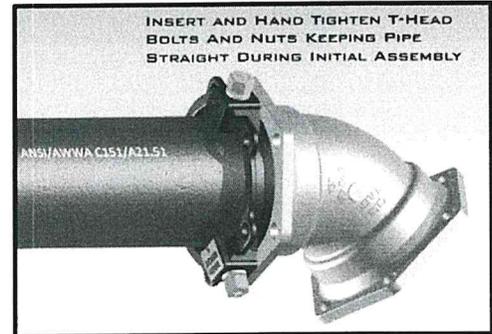
# NON-DOMESTIC - TLD TUF Grip™

## Assembly Steps – Series 1000 – For Ductile Iron Pipe

Steps : 1 and 2

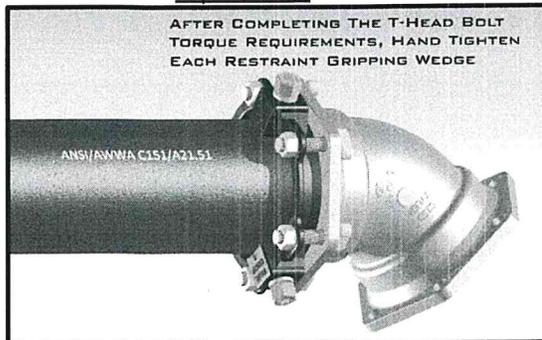


Step : 3

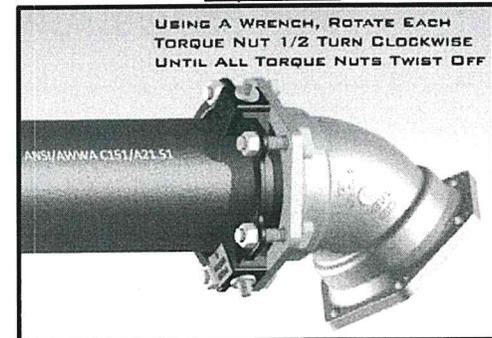


1. Insure the beveled pipe end to be joined and mechanical joint socket are clean and free of debris. Slide the BLACK TUF Grip onto the pipe to be restrained. The TUF Grip compression lip extension must be toward the beveled end of the pipe to be restrained.
2. Evenly lubricate the beveled pipe end, pipe wall exterior, and inside surface of the MJ gasket with a lubricant that meets the requirements of AWWA C111. Now place the \*\*MJ gasket over the plain beveled end of the pipe with the narrow edge of the tapered gasket toward the beveled end of the pipe to be restrained. **\*\*NOTE** : For Steel pipe with IPS diameter in sizes 3"-12", use of a MJ Transition gasket is required.
3. Fully insert the pipe end into the MJ socket pipe landing. Keeping the pipe straight, slide/push the MJ gasket firmly and evenly into the socket recess. Joint must be kept straight during assembly.

Steps : 4 and 5



Steps : 6 and 7



4. Push the TUF Grip compression lip extension evenly against the thick side of the gasket and insert T-Head bolts with the T-Head against the back side of the MJ fitting bolt flange. Use only T-Head bolts and nuts that meet AWWA C111 requirements. Evenly hand-tighten the nuts on the T-Head bolts making sure the gland is centered around the pipe and within the MJ socket. If joint deflection is needed, only deflect the pipe in the joint after hand tightening of all nuts is completed. \*Joint deflection is 3° max for 3", 5° max for 4"-12", 2° max for 14"-16", and 1.5° max for 18"-48".  
**\*NOTE** : Maximum deflection values provided apply with nominal pipe, fitting, and restraint diameters.
5. Using a wrench, tighten the nuts on the T-Head bolts a few turns at a time in an alternating or star pattern maintaining equal spacing or distance between the TUF Grip bolt flange and face of the MJ socket bolt flange as the MJ gasket is compressed. The T-Head bolt and nut torque requirement is 3"- 45-60 ft.-lbs., 4"- 24"-75-90 ft.-lbs., 30"- 36"- 100-120 ft.-lbs., and 42"- 48"- 120-150 ft.-lbs.. **DO NOT OVER-TORQUE!**
6. Hand-tighten the torque limiting nut attached to each TUF Grip wedge assembly in a clockwise direction with an alternating or star pattern until all gripping wedges are in contact with the pipe wall. Rotational direction of torque limiting nut is indicated by recessed arrow on the face of the nut. With a wrench (box, socket, or pneumatic), continue to tighten each torque nut ½ turn in an alternating or star pattern around the restraint until all torque limiting nuts twist off. **NEVER** turn a torque limiting nut more than ½ turn without turning the remaining torque nuts an equal amount!
7. When all torque limiting nuts twist off, the assembly of the mechanical joint is complete.

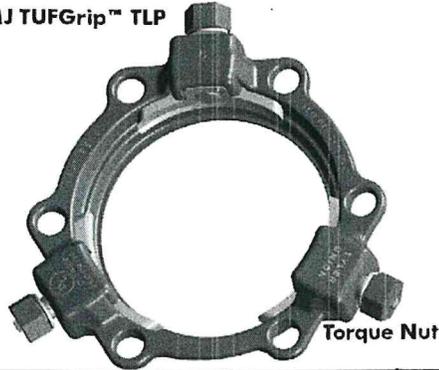
\*Tyler Union Waterworks Contact Information\*

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[www.tylerunion.com](http://www.tylerunion.com)

# TUFGRIP<sup>™</sup>

**Series 2000 for PVC & PVCO Pipe**  
"A Proven Third Generation Mechanical Joint Restraint"

MJ TUFGrip<sup>™</sup> TLP



Torque Nut



Tyler Union's TUF Grip restraints represent the culmination of 20 years of engineering and testing. As a 3rd generation restraint, TUF Grip is the best available technology in the Waterworks market for use in restraining PVC pipe.



**"BETTER BY DESIGN"**

**SPECIFICATIONS:**

- Proven to restrain plain end PVC pipe in diameters 3" thru 36", PVCO pipe in diameters 4" thru 12", and HDPE Pipe 4" thru 16"
- Restraint design conforms to applicable requirements of ANSI/AWWA C111, ANSI/AWWA C153, and ANSI/AWWA C110
- Restraint engineered for securing plain end pipe to mechanical joint fittings conforming to ANSI/AWWA C110, C111, and C153
- Rated for working water pressure of 305 psi for 3"-12", 235 psi for 14"-24", 150 psi for 30", and 125 psi for 36" (**details on next page**)
- Cast of ASTM compliant 65-45-12 ductile iron complete with cast on date code and country of origin for traceability
- Restraint and all components are designed and proven for a 2:1 safety factor based on the PVC, PVCO, and HDPE pipe pressure rating **Note: Refer to the following pages for pressure rating**
- Deflection rating when installed on pipe with nominal diameter shall be 3° for 3" thru 12", 2° for 14" thru 16", and 1.5° for 18" thru 36"
- Standard coating for Non-Domestic restraint is 4-6 mil of Alkyd resin baking enamel
- Gripping wedge, wedge collar bolt and twist off torque limiting nut shall be e-coated
- FM approved for 4" thru 12" applications and UL listed and approved for 3" thru 12" applications
- Color coded red for pipe type (C900 PVC/C905 PVC/ \*C909 PVCO/D2241 PVC) - **\*Note: Refer to next page for C909 pipe applications**

**FEATURES & ADVANTAGES:**

- Torque limiting nut on gripping wedge assembly twists off within a designed torque range eliminating the need for specialized tools
- Gripping wedge assembly pivots providing stronger engagement of pipe wall at lower torque requirement (45-60 ft.-lbs.)
- Proven restraint technology utilizing fewer gripping wedges in frequently applied diameters, reducing trench time and project cost
- There is no washer or spacer to remove when installing restraints on 3" to 12" ASTM D2241 PVC pipe with IPS outside diameter
- Restraint's heavy duty construction and design eliminates the need for costly thrust blocks and tie rods
- Suitable for Potable and Wastewater applications
- Approved for use on multiple classes of pipe - **Additional pressure ratings and associated pipe classes provided on the following pages**

ISO 9001-2008 Registered

Listed with Underwriters Laboratory

Factory Mutual Approved

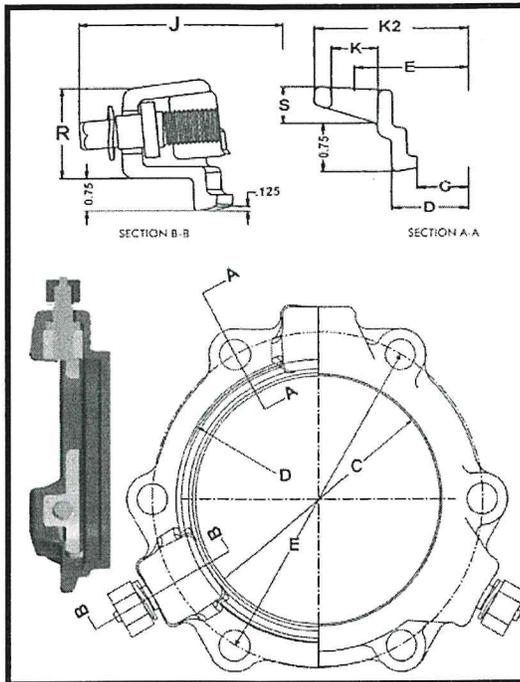
Product Source/Type	Name of Project	Name of Contractor	Project Engineer	Spec. Section and/or Project No.

**\*Tyler Union Waterworks Contact Information\***

**Tyler:** 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478

**Anniston:** 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601

**Corona:** 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471



**TUFGrip<sup>™</sup> MJ Restraint Dimensions**

Size (inches)	C	D	E	K2	J	K	R	S
3	4.08	4.88	6.19	7.67	9.82	3/4	2.20	0.86
4	4.93	5.92	7.50	8.98	10.67	7/8	2.20	0.73
6	7.03	8.02	9.50	10.98	12.77	7/8	2.24	0.82
8	9.18	10.17	11.75	13.23	14.92	7/8	2.28	0.82
10	11.23	12.22	14.00	15.70	16.97	7/8	2.37	0.93
12	13.33	14.32	16.25	17.95	19.07	7/8	2.40	0.93
14	15.44	16.40	18.75	20.43	21.18	7/8	2.57	0.91
16	17.54	18.50	21.00	22.88	23.28	7/8	2.57	1.05
18	19.64	20.60	23.25	25.43	25.38	7/8	2.57	1.05
20	21.74	22.70	25.50	27.50	27.48	7/8	2.66	1.15
24	25.94	26.90	30.00	32.00	31.68	7/8	2.72	1.35
30	32.18	33.30	36.88	39.42	39.78	1-1/8	3.86	1.53
36	38.48	39.60	43.75	46.29	46.08	1-1/8	3.86	1.53

**SERIES 2000 TLP-PVC TUF Grip<sup>™</sup> - APPLICATION CHART**

Size (Inches)	Part No. - Gland Only Domestic / Non-Domestic	Wedge Qty.	T-Head Bolt Qty.	Bolt Size	Gland Weight (lbs.)	Weight (w/Acc.)	*Pressure Rating	Pipe O.D. (Inches)
3	CALL / 113928	2	4	5/8" x 3"	7.0	11.0	*305 / DR14	3.50
4	516002 / 113935	2	4	3/4" x 3.5"	8.3	12.2	*305 / DR14	4.50-4.80
6	516019 / 113942	3	6	3/4" x 4"	12.4	18.3	*305 / DR14	6.63-6.90
8	516026 / 113959	3	6	3/4" x 4"	14.9	20.8	*305 / DR14	8.63-9.12
10	516033 / 113973	6	8	3/4" x 4"	25.7	33.4	*305 / DR14	10.75-11.10
12	516040 / 113980	8	8	3/4" x 4"	34.1	42.0	*305 / DR14	12.75-13.20
14	516248 / 113997	10	10	3/4" x 4.5"	45.1	55.4	*235 / DR18	15.30
16	516262 / 114000	12	12	3/4" x 4.5"	56.2	68.4	*235 / DR18	17.40
18	516286 / 114017	12	12	3/4" x 4.5"	62.4	74.8	*235 / DR25	19.50
20	516309 / 114024	14	14	3/4" x 4.5"	72.9	86.9	*235 / DR25	21.60
24	516323 / 114031	16	16	3/4" x 5"	93.2	109.8	*235 / DR25	25.80
30	CALL / 461302	20	20	1" x 7.5"	251	293	*150 / DR25	32.00
36	CALL / 461357	24	24	1" x 7.5"	281	331	*125 / DR25	38.30

\*Note: The pressure ratings are rated working water pressures for the restraint. See page 3 for additional ratings.

ISO 9001-2008 Registered

Listed with Underwriters Laboratory

Factory Mutual Approved

**STOP-LOOK :**

- Extra length T-Head bolts are provided with 30"- 36" restraints to facilitate mechanical joint assembly per AWWA C600
- For UL/FM Approvals, 3"- 12" were tested to 755 psi, 14"-16" were tested to 755 psi and 18"- 24" inch were tested to 535 psi
- TUF Grip 30-36 inch provided with TRU-Lock<sup>™</sup> mechanical joint gasket to ensure pressure rating and safety factors are met
- Mechanical joint T-head bolt torques for C909 applications are as provided; \*55-65 ft.-lbs for 4" to 8" and \*65 to 75 ft.-lbs. for 10" to 12" assembly. You must specify restraints are for C909 PVCO pipe upon order placement. Call for availability
- Installation and hydrostatic testing shall be in accordance with AWWA C600 and AWWA C651
- TUF Grip 4" to 24" restraints shall meet the requirements of ASTM F1674, current revision
- **Caution:** Pressure testing of piping systems restrained or un-restrained with insufficient backfill or bracing is not recommended

\*Tyler Union Waterworks Contact Information\*

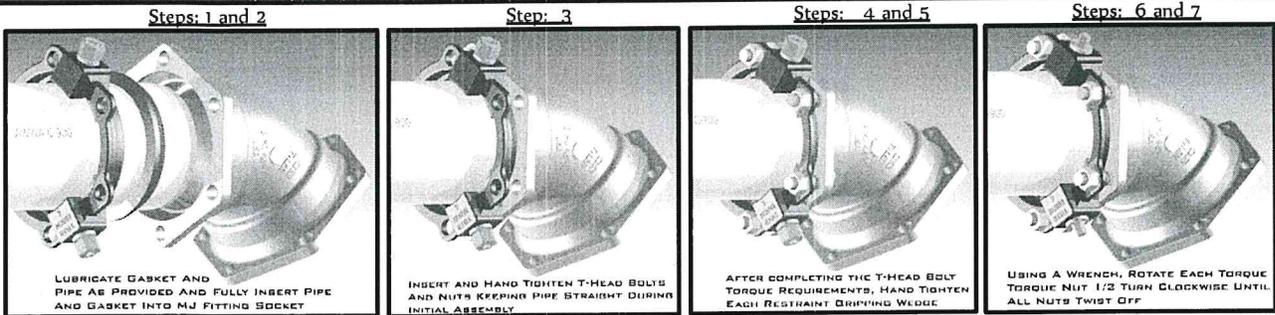
**Tyler:** 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478

**Anniston:** 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601

**Corona:** 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471

<b>**ADDITIONAL SERIES 2000 TLP-TUF GRIP™ RESTRAINT RATINGS</b>														
SIZE (Inches)	AWWA C900			AWWA C905			ASTM D2241			HDPE* AWWA C906				
	DR14	DR18	DR25	DR18	DR25	DR32.5	SDR17	SDR21	SDR26	DR7.3	DR9	DR11	DR13.5	DR17
3	-	-	-	-	-	-	250	200	160	254	200	160	128	100
4	305	235	165	-	-	-	250	200	160	254	200	160	128	100
6	305	235	165	-	-	-	250	200	160	254	200	160	128	100
8	305	235	165	-	-	-	250	200	160	254	200	160	128	100
10	305	235	165	-	-	-	250	200	160	254	200	160	128	100
12	305	235	165	-	-	-	250	200	-	254	200	160	128	100
14	-	-	-	235	165	125	-	-	-	254	200	160	128	100
16	-	-	-	235	165	125	-	-	-	254	200	160	128	100
18	-	-	-	200	165	-	-	-	-	-	-	-	-	-
20	-	-	-	200	165	-	-	-	-	-	-	-	-	-
24	-	-	-	165	165	125	-	-	-	-	-	-	-	-
30	-	-	-	-	165	125	-	-	-	-	-	-	-	-
36	-	-	-	-	125	125	-	-	-	-	-	-	-	-

**\*\*Note:** Pressure Ratings for Ordinary Water Works Restraint Application with Transitory Surges Only  
**\*\*Note:** AWWA C909 PVC O Restraint Pressure Rating is per the Pressure Rating Listed on the Pipe  
**\* Note:** HDPE application require a separate stiffener ring. 4-16 for DI OD Pipe and 4-12 for IPS Pipe  
 Assembly steps for (3"-12" ASTM D2241 IPS PVC), (4"-12" AWWA C909 PVC O), and (4"-36" AWWAC900/C905 PVC)



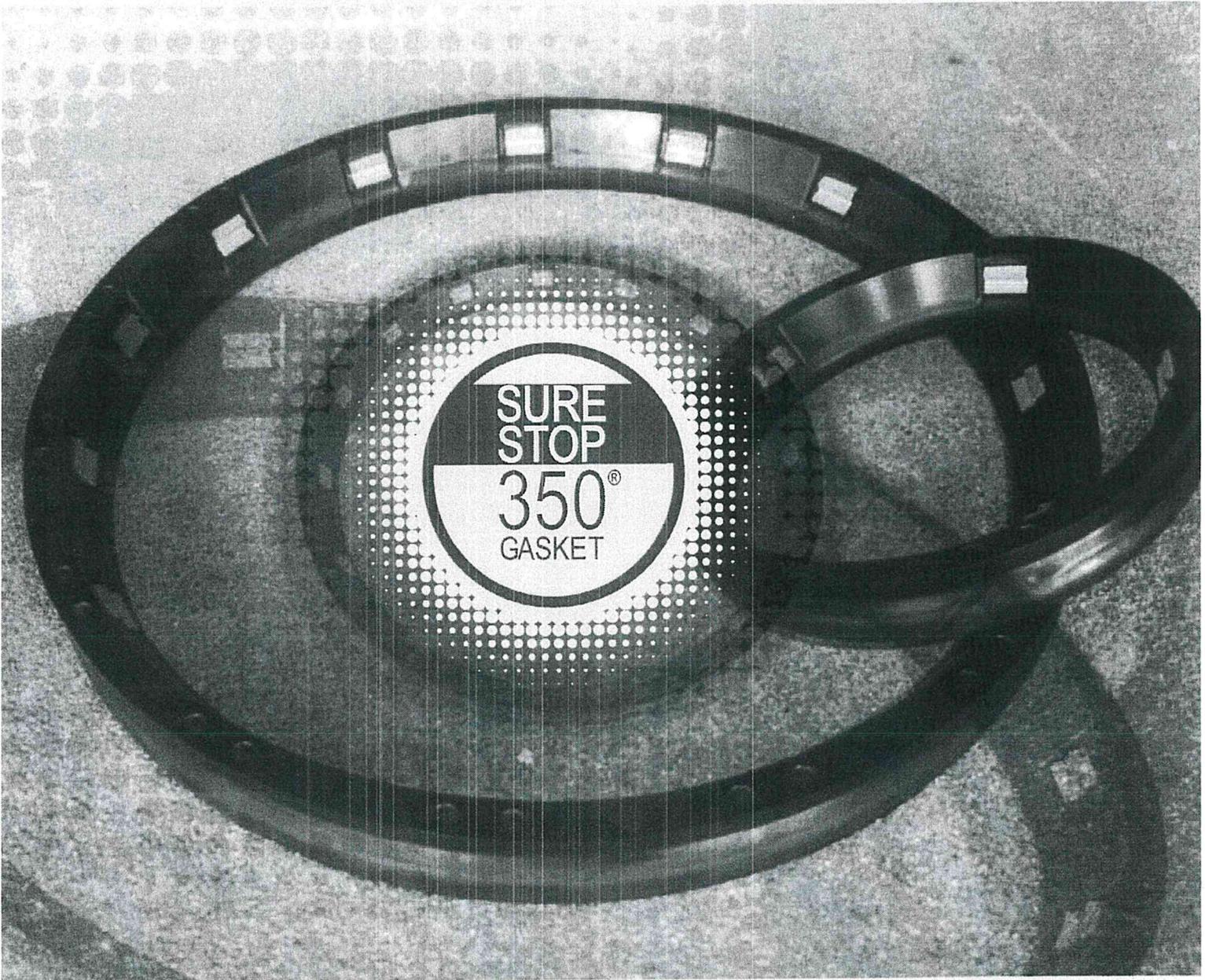
1. Insure the beveled pipe end to be joined and mechanical joint socket are clean and free of debris. Slide the RED TUF Grip onto the beveled end of the pipe to be restrained. The TUF Grip compression lip extension must be toward the beveled end of the pipe being restrained.
2. Evenly lubricate the beveled pipe end, exterior pipe wall, and inside surface of the gasket with a lubricant that meets the requirements of AWWA C111. Now place the \*\*MJ gasket over the plain beveled end of the pipe with the narrow edge of the tapered gasket toward the pipe end. **\*\*NOTE:** Use MJ transition gasket with IPS diameter pipe.
3. Fully insert the beveled pipe end into the MJ socket pipe landing. Keeping the pipe straight in the MJ socket, slide/push the MJ gasket firmly and evenly into the MJ socket recess. Joint must be kept straight during assembly.
4. Push the TUF Grip compression lip extension evenly against the thick side of the MJ gasket and insert all T-Head bolts with nuts. Use only T-Head bolts and nuts that meet AWWA C111 requirements. With the TUF Grip restraint lip extension against the MJ gasket, evenly hand-tighten the nuts on the T-Head bolts making sure the restraint body is centered on the pipe and within in the MJ socket. If joint deflection is needed, deflect the pipe only after hand tightening of all nuts is completed. Joint deflection is 3° max for 3", 5° max for 4"-12", 2° max for 14"-16", 1.5° max for 18"-36". **NOTE:** Maximum deflection values provided apply with nominal pipe, fitting, and restraint diameters.
5. Using a wrench, tighten the T-Head bolts and nuts a few turns at a time in an alternating or star pattern. Maintain equal spacing or distance between the TUF Grip bolt flange and the MJ socket bolt flange as the MJ gasket is compressed. Repeat the process in an alternating pattern for all T-Head bolts and nuts. The T-Head bolt and nut torque requirement for restraints is 3"- 45-60 ft.-lbs., 4"- 24"-75-90 ft.-lbs., and 30"- 36"- 100-120 ft.-lbs.  
**NOTE:** The C909 PVC O T-Head bolt and nut torque is 55-65 ft.-lbs. for 4"-8" and 65-75 ft.-lbs. for 10"-12"restraints.  
**DO NOT OVER-TORQUE T-HEAD BOLTS and NUTS WHEN ASSEMBLING PVC and PVCO PIPE!**
6. **\*\*Hand-tighten** the torque limiting nuts attached to the TUF Grip wedge assemblies in a clockwise direction with an alternating or star pattern until all gripping wedges are in contact with the pipe wall. Rotational direction of torque nut is indicated by recessed arrow on the face of the nut. With a wrench (box, socket, or pneumatic), continue to tighten each torque nut ½ turn in an alternating or star pattern around the restraint until all torque limiting nuts twist off. **NEVER** turn a torque limiting nut more than ½ turn without turning the remaining torque nuts an equal amount! **\*\*NOTE:** For IPS and PVCO applications, ensure step 5 is completed before engaging wedges. Failure to comply will result in excessive pipe wall deflection and torque nuts will not twist off as designed.
7. When all torque limiting nuts twist off, the mechanical joint and restraint assembly are complete.

**\*Tyler Union Waterworks Contact Information\***  
**Tyler:** 11910 CR 492 • Tyler, Texas 75706 • (800) 527-8478  
**Anniston:** 1501 W 17<sup>th</sup> St. • Anniston, AL 36201 • (800) 226-7601  
**Corona:** 1001 El Camino Ave. • Corona, CA 92879 • (866) 527-8471  
[www.tylerunion.com](http://www.tylerunion.com)

# INSTANT JOINT RESTRAINT WITH McWANE'S NEW SURE STOP 350® GASKET



UL Listed at 350 PSI • NSF 61 Approved  
3"- 24" Listed and Approved



Atlantic States  
183 Sitgraves Street  
Phillipsburg, NJ 08865  
(908) 454-1161

Canada Pipe Company  
1757 Burlington Street East  
Hamilton, ON L8H 3L5  
(905) 547-3251

Clow Water Systems  
2266 South 6th Street  
Coshocton, OH 43812  
(740) 622-6651

McWane Pipe  
1201 Vanderbilt Road  
Birmingham, AL 35234  
(205) 322-3521

Pacific States  
1401 East 2000 South  
Provo, UT 84606  
(801) 373-6910

# SURE STOP 350<sup>®</sup> GASKETS



McWane's SURE STOP 350<sup>®</sup> GASKETS are a fast and easy way of restraining TYTON<sup>®</sup>, TRIM TYTON<sup>®</sup>, or TYTON JOINT<sup>®</sup> pipe, valves and fittings. The gaskets are suitable for water, wastewater, fire protection and other related applications. Simply install the gasket in a TYTON JOINT<sup>®</sup> pipe, valve or fitting socket, assemble the joint in accordance with proper procedures, and the joint is restrained for working pressures up to 350 psi.

The gaskets are available in sizes 3" - 24", and with a rating of 350 psi they will meet or exceed the capabilities of ductile iron pipe, valves and fittings. SURE STOP 350<sup>®</sup> GASKETS are NSF 61 approved, UL listed and approved by FM Approvals. There is no need to use bolts, clamps, rods, thrust blocks or other restraining devices when you can use an easy push on restraining SURE STOP 350<sup>®</sup> GASKET. SURE STOP 350<sup>®</sup> GASKETS are produced and tested in accordance with ANSI/AWWA C111/A21.11, and have a 350 psi pressure rating. The gaskets have been successfully tested at a minimum of 700 psi to nationally recognized listing agency requirements, as witnessed by independent testing agencies (certificates available upon request).

## Application Notes

1. For ductile iron applications utilizing TYTON<sup>®</sup> pipe, valves, and fittings made to AWWA specifications.
2. In cold weather assembly maintain the temperature of the gasket above 40° F.
3. The socket of the joint should be clean and free of debris or significant corrosion.
4. Gasket should be properly seated in the bell socket.
5. Keep the pipe and joint in alignment during assembly. If installed out of alignment, the gasket can be pushed out of position, creating the potential for leaks or failure.
6. If deflection is wanted in the joint, deflect before fully inserting the joint.
7. Some extension of the joint will occur when pressurized. To avoid this, the joint should be pulled out after assembly to "set" the stainless steel teeth in the inserted pipe.
8. Once assembled, the joint can be disassembled using steel shims.
9. When cut pipe are used, the following steps are required:
  - a. Ensure that the spigot end is properly beveled.
  - b. Mark the joint depth on the spigot so it is clear when the joint is fully inserted.
  - c. Ensure that the pipe meets the required dimensional tolerances, as follows:

Pipe Size (Nominal)	Circumference (Maximum) Minimum		Diameter (Maximum) Minimum		Pipe Size (Nominal)	Circumference (Maximum) Minimum		Diameter (Maximum) Minimum	
3"	12-5/8"	12-1/4"	4.02"	3.90"	12"	41-21/32"	41-9/32"	13.26"	13.14"
4"	15-9/32"	14-29/32"	4.86"	4.74"	14"	48-7/32"	47-13/16"	15.35"	15.22"
6"	21-7/8"	21-1/2"	6.96"	6.84"	16"	54-13/16"	54-13/32"	17.45"	17.32"
8"	28-5/8"	28-1/4"	9.11"	8.99"	18"	61-13/32"	61"	19.55"	19.42"
10"	35-1/16"	34-11/16"	11.16"	11.04"	20"	68"	67-19/32"	21.65"	21.52"
					24"	81-7/32"	80-13/16"	25.85"	25.72"

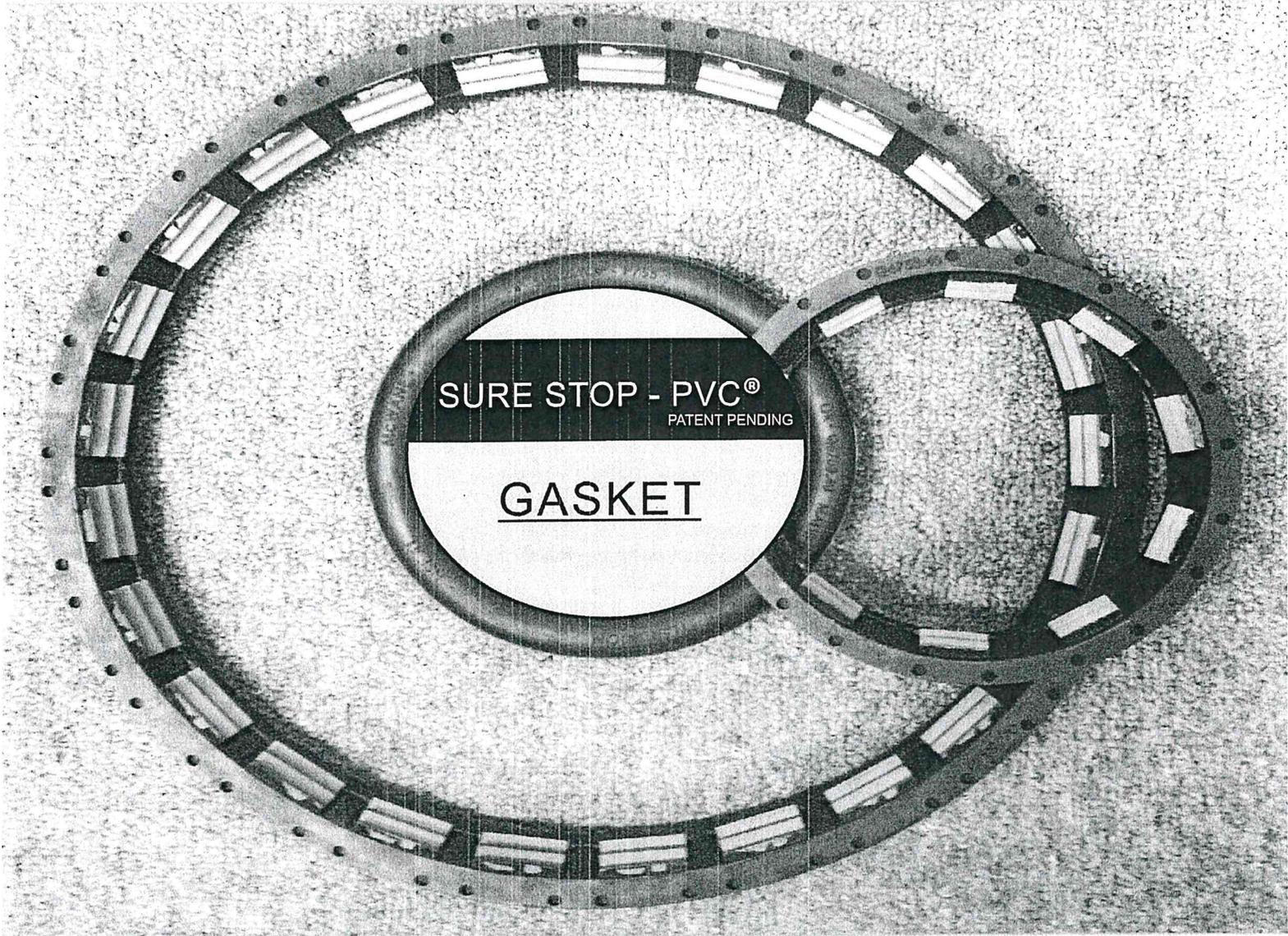
10. Do not reuse SURE STOP 350<sup>®</sup> GASKETS, as they may have been damaged during any previous installation or during removal.
11. Do not use SURE STOP 350<sup>®</sup> GASKETS to conduct electricity through the pipe joint, as they could be damaged and fail.
12. Do not use SURE STOP 350<sup>®</sup> GASKETS in above ground applications.
13. Do not use SURE STOP 350<sup>®</sup> GASKETS with thick coatings on the pipe exterior.

McWANE'S SURE STOP 350<sup>®</sup> GASKETS ARE A FAST AND EASY WAY OF RESTRAINING TYTON JOINT PIPE, VALVES AND FITTINGS.

**INSTANT JOINT RESTRAINT WITH McWANE'S**

**NEW SURE STOP - PVC® GASKET 4" - 12"**  
PATENT PENDING

**NSF - 61 APPROVED**



**TYLER UNION WATERWORKS SHIPPING LOCATIONS**

**Anniston:**  
1501 W 17<sup>th</sup> St.  
Anniston, AL 36201  
(800) 226-7601

**Corona:**  
1001 El Camino Ave.  
Corona, CA 92879  
(866) 527-8471

**Elmira:**  
1021 East Water  
Elmira, NY 14902

**New Lenox:**  
2200 West Haven  
New Lenox, IL 60451

**Portland:**  
6204 N. Marine Dr.  
Portland, OR 97203

**Tyler:**  
11910 CR 492  
Tyler, Texas 75706  
(800) 527-8478

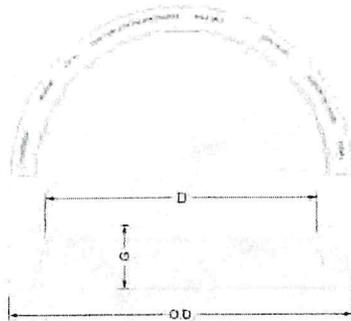
# SURE STOP - PVC® GASKETS

Patent Pending

SURE STOP - PVC® Gaskets are a fast and easy way of restraining UNION TITE, TYTON®, TRIM TYTON®, OR TYTON JOINT® fittings and valves. The gaskets are suitable for water, wastewater, fire protection and other related applications. Simply install the gasket in a UNION TITE fitting or valve socket, and assemble the joint according to proper procedure. The joint is now restrained for working pressures up to 305 psi. **The gaskets are available in sizes 4" - 12". Refer to table below for pressure ratings. Gaskets will meet or exceed the capabilities of AWWA PVC pipe, valves, and fittings. SURE STOP - PVC® GASKETS are NSF 61 approved and listed by Factory Mutual.** There is no need to use bolts, clamps, rods, thrust blocks, or other restraining devices when you can use an easy push on restraining SURE STOP - PVC® GASKET.



PRESSURE RATING			
AWWA C-900			
SIZE (Inches)	DR14	DR18	DR25
4	305	235	165
6	305	235	165
8	305	235	165
10	305	235	165
12	305	235	165

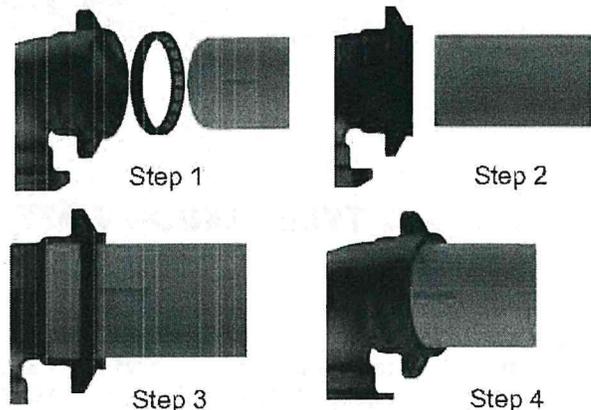


Pipe Size	Pipe O.D.	D	G	O.D.
4"	4.80"	4.68"	1.00"	5.74"
6"	6.90"	6.73"	1.00"	7.86"
8"	9.05"	8.85"	1.29"	10.12"
10"	11.10"	10.87"	1.29"	12.23"
12"	13.20"	12.95"	1.29"	14.34"

## Installation Notes

- For PVC applications utilizing UNION TITE, TYTON®, TRIM TYTON®, or TYTON JOINT® fittings and valves made to AWWA specifications.
- In cold weather assembly maintain the temperature of the gasket above 40° F.
- The socket of the joint should be clean and free of debris (excess paint, cement etc.).
- The gasket should be properly seated in the bell socket.
- Keep the pipe and joint in alignment during assembly. If installed out of alignment, the gasket can be pushed out of position thus creating the potential for leaks and failures.
- If deflection is wanted in the joint, deflect before fully inserting the joint.
- Some extension of the joint will occur when pressurized.
- When cut pipe is used, the following steps are required:
  - Ensure that the spigot end is properly beveled.
  - Mark the joint depth on the spigot so it is clear when the joint is fully inserted.
  - Ensure that the pipe meets the required dimensional tolerances in the table below:
- Do not reuse SURE STOP - PVC® GASKETS as they may have been damaged during any previous installation or during removal.
- Do not use SURE STOP - PVC® GASKETS in above ground applications.

Pipe Size (Nominal)	Circumference		Diameter	
	(Maximum)	Minimum	(Maximum)	Minimum
4"	15-9/32"	14-29/32"	4.86"	4.74"
6"	21-7/8"	21-1/2"	6.96"	6.84"
8"	28-5/8"	28-1/4"	9.11"	8.99"
10"	35-1/16"	34-11/16"	11.16"	11.04"
12"	41-21/32"	41-9/32"	13.26"	13.14"



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