



**CENTRALBIDDING**  
FROM CENTRAL AUCTION HOUSE

**5000120319 - A ONE-TIME PURCHASE OF 24 INCH AND 36 INCH PLUG  
VALVES FOR THE JEFFERSON PARISH DEPARTMENT OF SEWERAGE**  
Jefferson Parish Government

Project documents obtained from [www.CentralBidding.com](http://www.CentralBidding.com)

26-Jul-2017 01:14:13 PM



**Bid Number 50 - 00120319**

**A ONE-TIME PURCHASE OF 24 INCH AND 36 INCH PLUG VALVES FOR  
THE JEFFERSON PARISH DEPARTMENT OF SEWERAGE**

**BID DUE: August 10, 2017, 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  
Buyer Name: Melissa Ovalle  
Buyer Email: [movalle@jeffparish.net](mailto:movalle@jeffparish.net)  
Buyer Phone: (504) 364-2687**



# JEFFERSON PARISH

Department of Purchasing

**Michael S. Yenni**  
Parish President

**Brenda C. Patel**  
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.
- Upon contract execution, successful bidder must produce final insurance certificates per standard Jefferson Parish insurance requirements. Proof of insurance is required for bidding purposes. Bidders must read the insurance requirements attachment included in each bid package for specific instructions.

**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.

**SPECIFICATIONS**  
**24 INCH & 36 INCH FLANGED PLUG VALVES**  
**JEFFERSON PARISH DEPARTMENT OF SEWERAGE**

The valves specified for this application shall be Crispin/K-Flo Series 700, or approved equal – for use in wastewater installations, where the pumped media can contain fouling or abrasive solids. The specified valve is a rectangular 100 percent ported Eccentric Plug valve, compliant to AWWA C517.

Plug Valves shall be of the non-lubricated eccentric type with an elastomer covering the entire plug seating surfaces, both front and back. The elastomer shall be chosen for the service intended.

Flanged valves shall be manufactured in accordance with ANSI B16.1 Class 125/150 including facing, drilling, and flange thickness. Mechanical joint ends shall be in compliance with AWWA/ANSI C-111-92.

Ports shall be rectangular 100% full port area design on valves 14 inches, and larger. All valves shall be capable of being "pigged" with a soft pig when required. Valve bodies shall be of ASTM A-126 Class B cast iron, in accordance with AWWA C-517.

Valves shall be furnished with a welded-in overlay seat of 1/8 inch thick, of not less than 99% nickel, in accordance with AWWA C-517-09, Section 4.3.3.4. Sprayed, plated, or screwed-in seats will not be accepted. Plugs shall be of ASTM A126 Class B Cast Iron for sizes 24" and larger, in compliance with AWWA C-517.

The plugs shall be of one piece solid construction with PTFE thrust bearings on the upper and lower bearing journals, to reduce torque, and to prevent dirt and grit from entering the bearing and seal area. Valves shall be furnished with replaceable Stainless Steel, sintered sleeve type bearings, conforming to AWWA C-517. Bearings shall be of sintered, oil impregnated, type 316 stainless steel ASTM A-743 Grade CF-8M.

Upper valve shaft packing shall be of the "Vee" type, in accordance with AWWA C-517. Packing shall be fully adjustable and replaceable without removing the actuator from the valve.

Wrench operated valves 2½ inches – 8 inches shall be capable of being converted to worm gear or automated operation without removing the bonnet or plug from the valve. All wrench operated valves shall be equipped with a 2 inch square nut for use with removable levers or extended "T" handles.

Worm gear operators, where required, shall be constructed with a ductile iron quadrant, a one-piece input worm shaft, and axial needle roller bearings. The one-piece worm shaft shall be manufactured of corrosion resistant Nittempered Steel.

The valves for this specification shall be designed and manufactured to shut off drip tight at 150 psi. Each valve shall be given a hydrostatic and seat test with the test results being certified when required by the customer. Certified copies of Proof-of-Design test reports shall be furnished as outlined in AWWA C-517, when requested. Plug valves shall be 700 Series as manufactured by Crispin/K-Flo of Berwick, PA, or approved equal.

DATE: 7/26/2017  
BID NO.: 50-00120319

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

**JEFFERSON PARISH**

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

BUYER: MOVALLE@jeffparish.net

BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETN, LA 70053 UNTIL 2:00 PM, 8/10/2017 AND PUBLICLY OPENED THEREAFTER.

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

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting [www.jeffparishbids.net](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 and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

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

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

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

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

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

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

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

## INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

## 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.

**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.



**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion 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: 7/26/2017

Page: 5

BID NO.: 50-00120319

**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 ☒

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

12-17 weeks

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

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

FIRM NAME: Coburn's Supply Company

ADDRESS: 1849 Commercial Drive

CITY, STATE: Harvey, LA

ZIP: 70058

TELEPHONE: ( 225 ) 369-3395

FAX: ( 504 ) 348-1095

EMAIL ADDRESS: mself@coburns.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: 1

NUMBER: 2

NUMBER: 3

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ 89,042.00

AUTHORIZED SIGNATURE: Michael Self

Michael Self

Printed Name

TITLE: OSR

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.

DATE: 7/26/2017

Page 6

## INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00120319

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	A ONE-TIME PURCHASE OF 24 INCH AND 36 INCH PLUG VALVES FOR THE JEFFERSON PARISH DEPARTMENT OF SEWERAGE		
			0001 - Valve, plug, 24 inch x 42 inch face to face, ANSI 125 flanged,  eccentric, cast iron body, solid ductile iron plug with nitrile elastomer coating, 100 percent port, nickel seat Item no. NS24FPV  WITH ABOVE GROUND GEAR WITH INDICATOR AND HAND WHEEL. ALSO WITH UNATTACHED OPERATING NUT Quoting Kennedy Valve	19,072.00	38,144.00
2	1.00	EA	0002 - Valve, plug, 36 inch x 60 inch face to face, ANSI 125/150 flanged, eccentric, cast iron body, solid ductile iron plug with nitrile elastomer coating, 100 percent port, nickel seat Item no. NS36FPV  WITH ABOVE GROUND GEAR WITH INDICATOR AND HAND WHEEL. ALSO WITH UNATTACHED OPERATING NUT Quoting Kennedy Valve	50,898.00	50,898.00

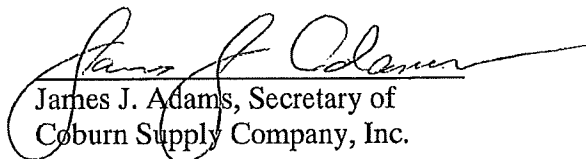
## **CORPORATE RESOLUTION**

**BE IT RESOLVED** by the Board of Directors of Coburn Supply Company Inc. (Corporation), in a special meeting duly assembled, that Michael Self (Agent) be and he is hereby authorized, empowered, and directed to act for and on behalf of this Corporation in all negotiations, bidding, concerns, and transactions and sign any and all documents which, in Agent s sole discretion, he deems necessary for this Corporation to transact and conduct business with the Jefferson Parish Government relative to the Jefferson Parish Government BID NO. 50-00120319 ,

## **CERTIFICATE**

I, James J. Adams, Secretary of Coburn Supply Company, Inc., do hereby certify that the above and foregoing is a true and correct copy of a Resolution unanimously adopted at a special meeting of the Board of Directors of Coburn Supply Company, Inc. held on August 30, 2016, at which meeting at least a majority of the Board of Directors were present and voted thereon and that said Resolution has been spread upon the minute books of Coburn Supply Company, Inc., and same is now in full force and effect.

**WITNESS MY SIGNATURE** this 30<sup>th</sup> day of August, 2016 at Beaumont, Texas.

  
James J. Adams, Secretary of  
Coburn Supply Company, Inc.

## **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** LA

**PARISH/COUNTY OF** Livingston, Parish

BEFORE ME, the undersigned authority, personally came and appeared: Michael Self  
, (Affiant) who after being by me duly sworn, deposed and said that  
 he/she is the fully authorized Representative of Coburn's Supply (Entity),  
 the party who submitted a bid in response to Bid Number 50-00120319, 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** ✓ 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 ☒ 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

Michael Self

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 8<sup>th</sup> DAY OF August, 20 17.



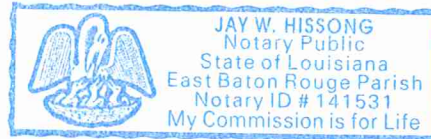
Notary Public

Jay Hissong

Printed Name of Notary

141531

Notary/Bar Roll Number



My commission expires e death.



Client#: 2492

COBSUP

**ACORD™****CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

11/10/2016

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).

PRODUCER <b>J. S. Edwards &amp; Sherlock Insurance Agency, LLP P. O. 22237 Beaumont, TX 77720</b>	CONTACT NAME: <b>Ginny Johnson</b>	
	PHONE (A/C, No, Ext): <b>409 832-7736</b>	FAX (A/C, No): <b>409-833-1721</b>
	E-MAIL ADDRESS: <b>ginny@edwardsandsherlock.com</b>	
INSURED <b>Coburn Supply Co Inc P O Box 2177 Beaumont, TX 77704</b>	INSURER(S) AFFORDING COVERAGE	
	INSURER A: <b>Liberty Insurance Corporation</b>	
	INSURER B: <b>Liberty Mutual Fire Insurance C</b>	
	INSURER C:	
	INSURER D:	
	INSURER E:	
INSURER F:		NAIC #
		<b>42404</b>
		<b>23035</b>

**COVERAGES****CERTIFICATE NUMBER:****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 SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		TB7691460237036	11/01/2016	11/01/2017	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 POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		AS2691460237026	11/01/2016	11/01/2017	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 <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$10000		TH7691460237056	11/01/2016	11/01/2017	EACH OCCURRENCE \$15,000,000 AGGREGATE \$15,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	WA769D460237016	11/01/2016	11/01/2017	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <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 (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Certificate Holder Continued: Its Districts, Departments, Agencies under the direction of the Parish President and Parish Council Engineering Department  
Resolution NO.: 125223

The General Liability & Auto Liability policies include a blanket automatic additional insured endorsement that provides additional insured status only when there is a written contract that requires such status.

(See Attached Descriptions)

**CERTIFICATE HOLDER****CANCELLATION**

The Parish of Jefferson,  
1221 Elmwood Park Blvd.,  
Ste. 802  
New Orleans, LA 70123

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



© 1988-2010 ACORD CORPORATION. All rights reserved.

## DESCRIPTIONS (Continued from Page 1)

Primary & Non-Contributory coverage is provided on a blanket basis when there is a written contract that requires such status with respects to the General Liability coverage. A Waiver of Subrogation is included on blanket basis with respects to the Workers' Compensation, General Liability & Auto Liability status only when there is a written contract that requires such status. Umbrella is written on follow form.



# JEFFERSON PARISH

## Department of Purchasing

Michael S. Yenni  
Parish President

Brenda C. Patel  
Director

July 31, 2017

### ADDENDUM # 1

Bid No.: 50-00120319

Bid Opening Date: August 10, 2017, 2:00 PM

For: A One-Time Purchase of 24 inch and 36 inch Plug Valves for the Jefferson Parish Department of Sewerage

---

#### ➤ CLARIFICATION OF SPECIFICATIONS:

**Question:**

Must valves be domestic as per JP green sheet specs?

**Response:**

Must be domestic.

**Question:**

Please confirm coatings needed on valves.

**Response:**

Epoxy Coating

**Question:**

Is a full 100% flow area through the valve required or is it just 100% at connection?

**Response:**

Full 100% flow area.

**Question:**

What is the experience years required for manufacturing large diameter 100% port plug valves?

**Response:**

A specific number of years of manufacturing experience is not required.

Sincerely,

*Melissa Ovalle*

Melissa Ovalle, Buyer II  
Jefferson Parish Purchasing Department



# JEFFERSON PARISH

## Department of Purchasing

**Michael S. Yenni**  
Parish President

**Brenda C. Patel**  
Director

**Bidders must acknowledge all addenda on the bid form. Bidder acknowledges receipt of this addendum on the bid form as indicated. Failure to do so will result in bid rejection.**

This addendum is a part of the contract documents and modifies the original bidding documents and specifications. The contents of this addendum shall be included in the contract documents. Changes made by this addendum shall take precedence over the documents of earlier date.



# JEFFERSON PARISH

## Department of Purchasing

Michael S. Yenni  
Parish President

Brenda C. Patel  
Director

August 1, 2017

### ADDENDUM # 2

Bid No.: 50-00120319

Bid Opening Date: August 10, 2017, 2:00 PM

For: A One-Time Purchase of 24 inch and 36 inch Plug Valves for the Jefferson Parish Department of Sewerage

---

- **CLARIFICATION AND REVISIONS OF SPECIFICATIONS:**  
This addendum is to clarify and revise the response on Addendum # 1 that valves must be domestic.

Valves are not required to be 100% domestic made.

100% domestic is not required as long as valves meet or exceed the same specifications (materials, size, AWWA, ANSI, ASTM, etc.) as the valves specified on the bid.

Sincerely,

Melissa Ovalle

Melissa Ovalle, Buyer II  
Jefferson Parish Purchasing Department

<p>Bidders must acknowledge all addenda on the bid form. Bidder acknowledges receipt of this addendum on the bid form as indicated. Failure to do so will result in bid rejection.</p>
--

This addendum is a part of the contract documents and modifies the original bidding documents and specifications. The contents of this addendum shall be included in the contract documents. Changes made by this addendum shall take precedence over the documents of earlier date.



# JEFFERSON PARISH

## Department of Purchasing

Michael S. Yenni  
Parish President

Brenda C. Patel  
Director

August 7, 2017

### ADDENDUM # 3

Bid No.: 50-00120319

Bid Opening Date: August 10, 2017, 2:00 PM

For: A One-Time Purchase of 24 inch and 36 inch Plug Valves for the Jefferson Parish Department of Sewerage

---

#### ➤ CLARIFICATION OF SPECIFICATIONS:

**Question:**

"Also with unattached operating nut" – does that mean that you want a 2" nut as a separate item?

**Response:**

Yes, both operating options are required. Per the bid we are requesting hand wheel attached and separate operating nut unattached.

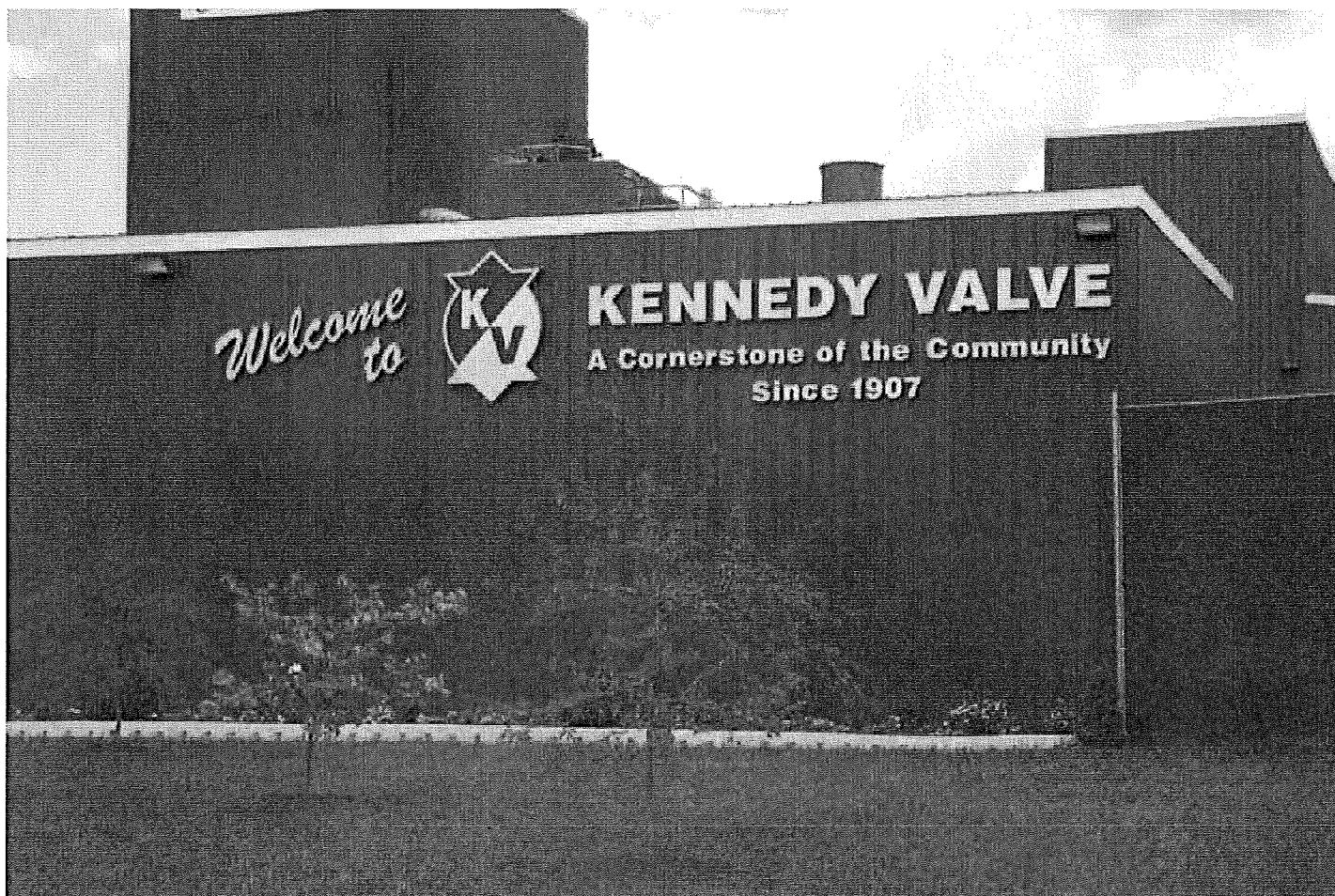
Sincerely,

*Melissa Ovalle*

Melissa Ovalle, Buyer II  
Jefferson Parish Purchasing Department

<b>Bidders must acknowledge all addenda on the bid form. Bidder acknowledges receipt of this addendum on the bid form as indicated. Failure to do so will result in bid rejection.</b>
--

This addendum is a part of the contract documents and modifies the original bidding documents and specifications. The contents of this addendum shall be included in the contract documents. Changes made by this addendum shall take precedence over the documents of earlier date.



## **Kennedy Valve**

A DIVISION OF McWANE, INC.

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

1021 E. Water Street • Elmira, New York 14901  
P.O. Box 981  
PHONE: (607) 734-2211 • FAX: 1-800-952-4771

**NOTE:**

- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.

ITEM NO.	PART NUMBER	ASIM DESIGNATION
1	Body - Flanged	AS36 CR. 15-45.12 OR 70-50-05
2	Plug	AS36 CR. 15-45.12 OR 70-50-05, EPDM 24"
3	Cover	AS36 CR. 15-45.12 OR 70-50-05
4	Bottom Thrust	PTE
5	Bottom Bearing	SHIMMER ALLOY SS316
6	GRT GUARD SHAFT SEAL (LOWER)	EPDM 24" AND BELOW, NBR ABOVE 24"
7	GRT GUARD SHAFT SEAL (UPPER)	EPDM 24" AND BELOW, NBR ABOVE 24"
8	Upper Thrust	PTE
9	Upper Bearing	SHIMMER ALLOY SS316
10	30-36 V2 packing AN225-55	EPDM 24" AND BELOW, NBR ABOVE 24"
11	30-36 V2 top packing AN225-55	EPDM 24" AND BELOW, NBR ABOVE 24"
12	30-36 V2 bottom packing AN225-55	EPDM 24" AND BELOW, NBR ABOVE 24"
13	Gland (for Actuator)	AS36 CR. 15-45.12 OR 70-50-05
14	Bottom Cover	AS36 CR. 15-45.12 OR 70-50-05
15	Adapter Bolt	A276 1804 OR 1316
16	Top Cover Bolt	A276 1804 OR 1316
17	Bottom Cover Bolt	A276 1804 OR 1316
18	Adapter Bolt	A276 1804 OR 1316
19	Coring Stud Bolt	EPDM 24" AND BELOW, NBR ABOVE 24"
20	Coring Bottom Cover	EPDM 24" AND BELOW, NBR ABOVE 24"
21	Coring Top Cover	EPDM 24" AND BELOW, NBR ABOVE 24"
22	Clamp Bolt	AS36 CR. 15-45.12 OR 70-50-05
23	Balancing Valve Test Port	Schradner Valve

NOTE:

- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.

NOTE:

- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.

NOTE:

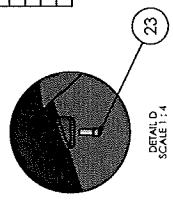
- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.

NOTE:

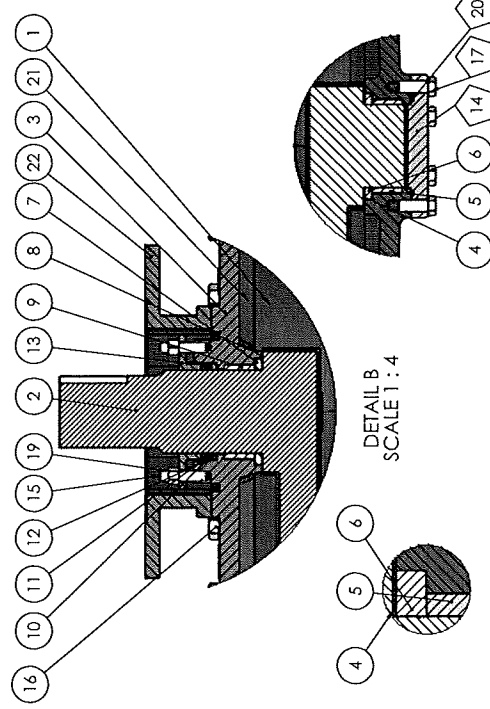
- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.

NOTE:

- Interior and exterior ferrous metal surfaces epoxy coated to comply with the AWWA standard.
- Standard with handwheel on flanged valves.
- 2 inch op nut with mechanical joint valves.
- Handwheel optional.
- Pentagon ballons refer to items only related to 30 and 36 inch valves.
- 30 and 36 inch valves are standard, 316 SS available upon request.



DETAIL D  
SCALE 1:4



DETAIL B  
SCALE 1:4

DETAIL A  
SCALE 1:1

DETAIL C  
SCALE 1:4

36 INCH SHOWN

A (VALVE SIZE)	B	C	D	E	F	G	H	I	WEIGHT (LBS)	ROTOR GEAR	GEAR RATIO	ROTOR HANDBHEEL	WATER WORKING PRESSURE PSI	HYDROSTATIC TEST PSI	FLANGE ISO
14	17.00	1.38	Ø21.00	8" x 1.00 x UN5-28	4 x Ø 1.13 THRU	Ø 18.75	12.88	18.00	720	A82000N	109:1	SG400	150 PSI	300 PSI	F16
16	17.75	1.44	Ø23.50	8" x 1.00 x UN5-28	8 x Ø 1.13 THRU	Ø 21.25	14.49	22.50	850	A82000N	109:1	SG400	150 PSI	300 PSI	F16
18	21.50	1.58	Ø25.00	8" x 1.125 x UN5-28	8 x Ø 1.35 THRU	Ø 22.75	16.42	21.50	1150	A82000L	109:1	SG600	150 PSI	300 PSI	F25
20	23.50	1.69	Ø27.50	8" x 1.125 x UN5-28	12 x Ø 1.25 THRU	Ø 23.00	17.09	22.25	1425	A81950N/PR4	217:1	SG600	150 PSI	300 PSI	F25
24	42.00	1.88	Ø32.00	8" x 1.25 x UN5-28	12 x Ø 1.38 THRU	Ø 29.50	21.06	28.00	3150	A83000L/PR4	243:1	SG600	150 PSI	300 PSI	F30
30	51.00	2.13	Ø39.75	8" x 1.25 x UN5-28	20 x Ø 1.38 THRU	Ø 36.00	22.19	30.09	5700	FW82	720:1	F700	150 PSI	300 PSI	F35
36	60.00	2.38	Ø45.00	8" x 1.50 x UN5-28	24 x Ø 1.43 THRU	Ø 42.75	25.81	34.75	12,000	FW9	960:1	F800	150 PSI	300 PSI	F40
48	84.00	2.75	Ø59.50	8" x 1.50 x UN5-28	36 x Ø 1.43 THRU	Ø 56.00	27.08	36.75	23,520	FW11	1080:1	F800	150 PSI	300 PSI	F40

NAME	DATE	REV
DRAWN	10/27/01	1
CHECKED		
APPROVED		
SEE SCALE DRAWING		
SEE TABLE		
D SUB910350T		
3		

KENNEDY VALVE	
Division of NewWater, Inc.	
1001 EAST WATER STREET, LAMAR, NEW YORK 14088	
TITLE: 14"-48" FULL FLOW" FLG EPV	
BALANCING w/ ROTOR GEAR	
DWG. NO. SUB910350T	
REV 3	
SHEET 1 OF 1	





## 

KENNEDY VALVE

Size Range	3"-24"	
	Water Working	Hydrostatic
Size Range	Pressure psi	Test psi
3"-12"	175	350
14"-24"	150	300

### Available End Connections & Size Range

### Figure No.

Flanged	3"-24"	F-5412
M.J.	3"-24"	F-5413
Grooved	3"-16"	F-5414
Flanged-Full Port	3"-12"	2725

### Accessories

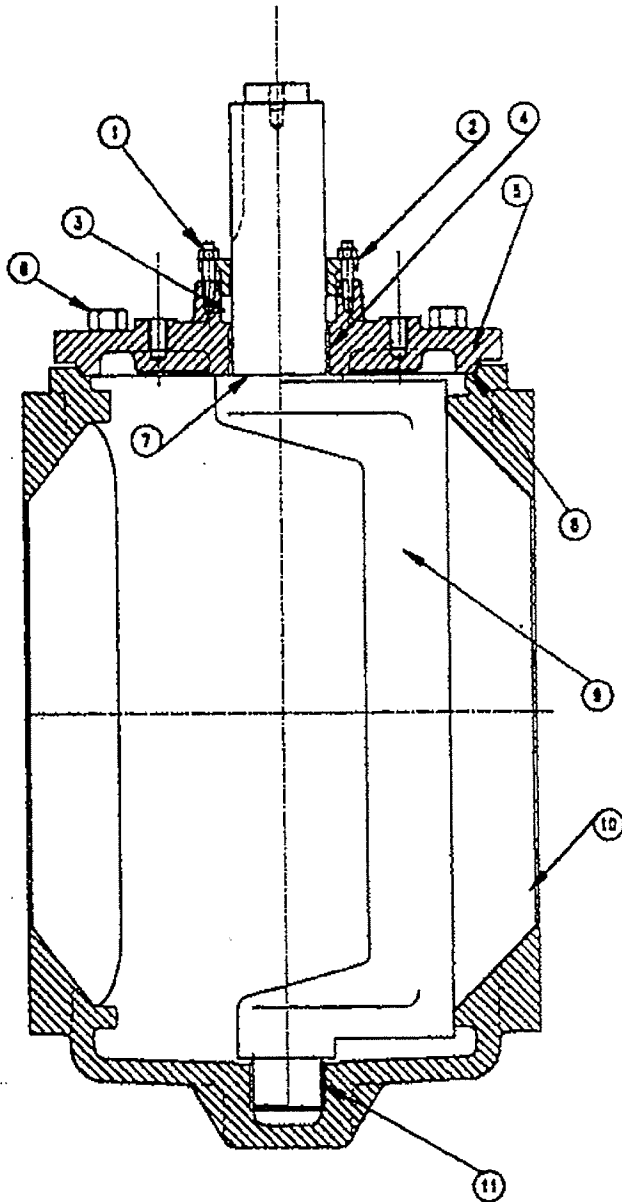
Floorstands	Electric Motor Actuators
Extension Stems	Cylinder Actuators
Extended Bonnets	Limit Switches
2" Sq. Operating Nuts	Stem Guides
Handwheels	Floor Boxes
Lever Wrench Head (3"-8")	"T" Handles
Chainwheels	Chainlevers (3"-8")
Worm Gear Actuators	

#### \*Note: Call Factory For Special Applications

Valves 3" through 8" are available with lever actuators. Geared actuators are recommended on 6" and larger valves. It is also recommended that valves installed in pipelines with high velocity or where water hammer conditions can be caused by sudden valve shut-off that geared actuators be installed. Lever actuators can only be used for pressure ratings of 100 psi maximum and 25 psi in the reverse flow condition.

# 14"-24" ECCENTRIC PLUG VALVE PARTS LIST

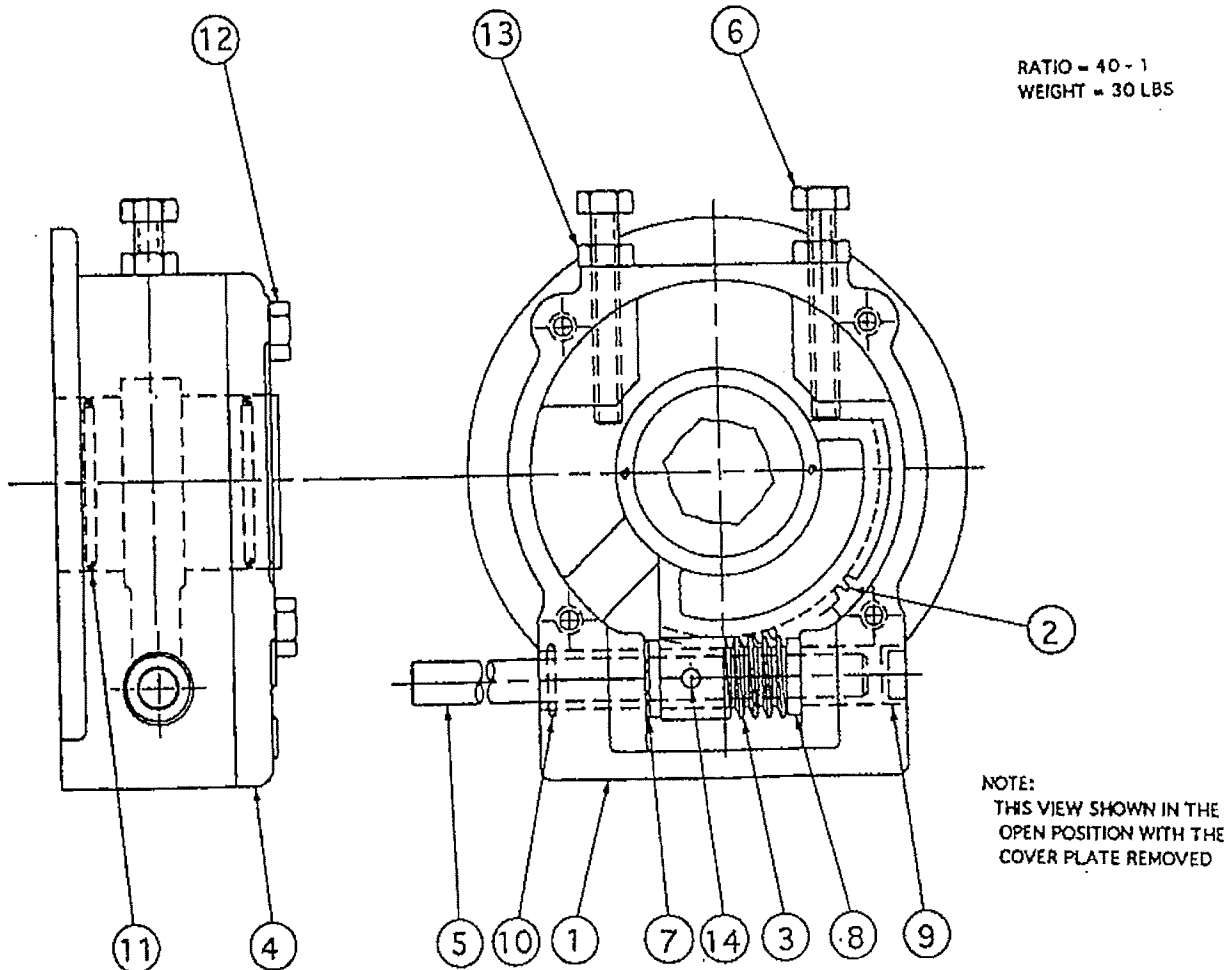
KENNEDY VALVE



ITEM NO.	DESCRIPTION		ASTM
1	Stud & Hex Nuts	Steel – Zinc Plated	
2	Follower Gland	Cast Iron	ASTM A-126 Class B
3	"V" Ring Seals	Buna-N	
4	316 S S Oil Impregnated Sleeve Bearing		
5	Cover	Cast Iron	ASTM A-126 Class B
6	Hex Head Capscrew	Steel – Zinc Plated	
7	Thrust Washer	Nylatron	
8	Cover O-Ring	Buna-N	
9	Plug	Cast Iron & Buna-N	ASTM A-126 Class B
10	Body	Cast Iron	ASTM A-126 Class B
11	316 S S Oil Impregnated Sleeve Bearing		

# 3"-24" ECCENTRIC PLUG VALVE WORM GEAR OPERATOR – PARTS LIST

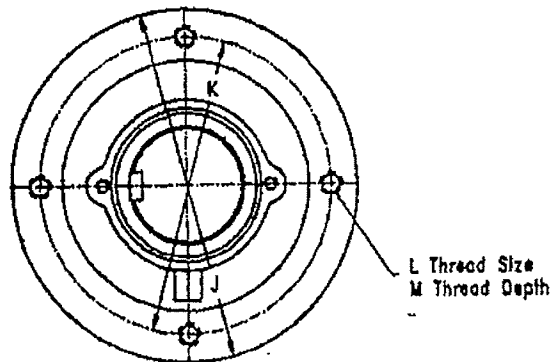
KENNEDY VALVE



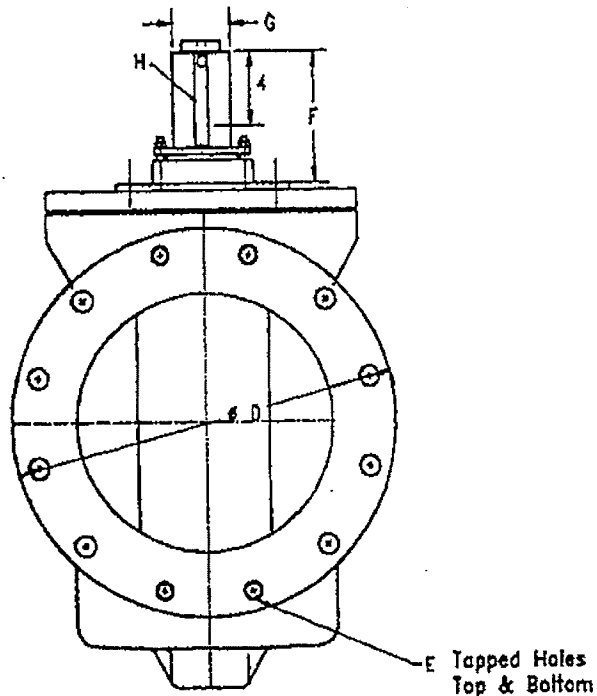
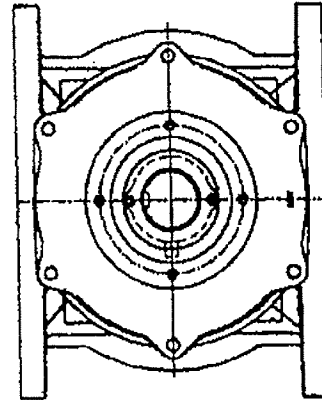
DET.	QTY.	DESCRIPTION	MATERIAL
1	1	Housing	Cast Iron ASTM A-126 Class B
2	1	Drive Sleeve	Manganese Bronze
3	1	Worm	AISI-11L41
4	1	Cover Plate	Cast Iron ASTM A-126 Class B
5	1	Worm Shaft	AISI-11L41
6	2	Stop Screw	ASTM A108
7	2	Shim	Mild Steel
8	2	Thrust Bearing	Oil Impregnated Bronze
9	1	Expansion Plug	ASTM A108
10	2	O-Ring	Buna-N
11	2	O-Ring	Buna-N
12	4	Hex Head Cap Screw	ASTM A100
13	2	Lock Nut	ASTM A-108
14	1	Spring Pin	High Tensile Steel

# 14"-24" ECCENTRIC PLUG VALVE FLANGED ENDS – GENERAL DIMENSIONS

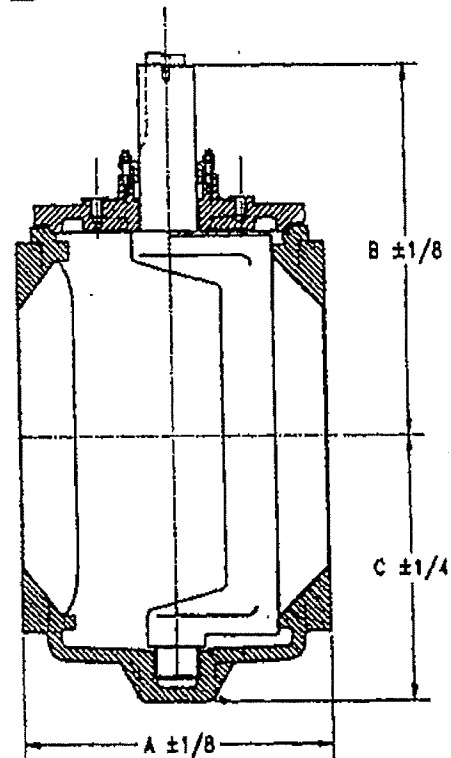
KENNEDY VALVE



Actuator Mounting Dimensions



End Flange Dimension  
Conform to Ansi B16.1

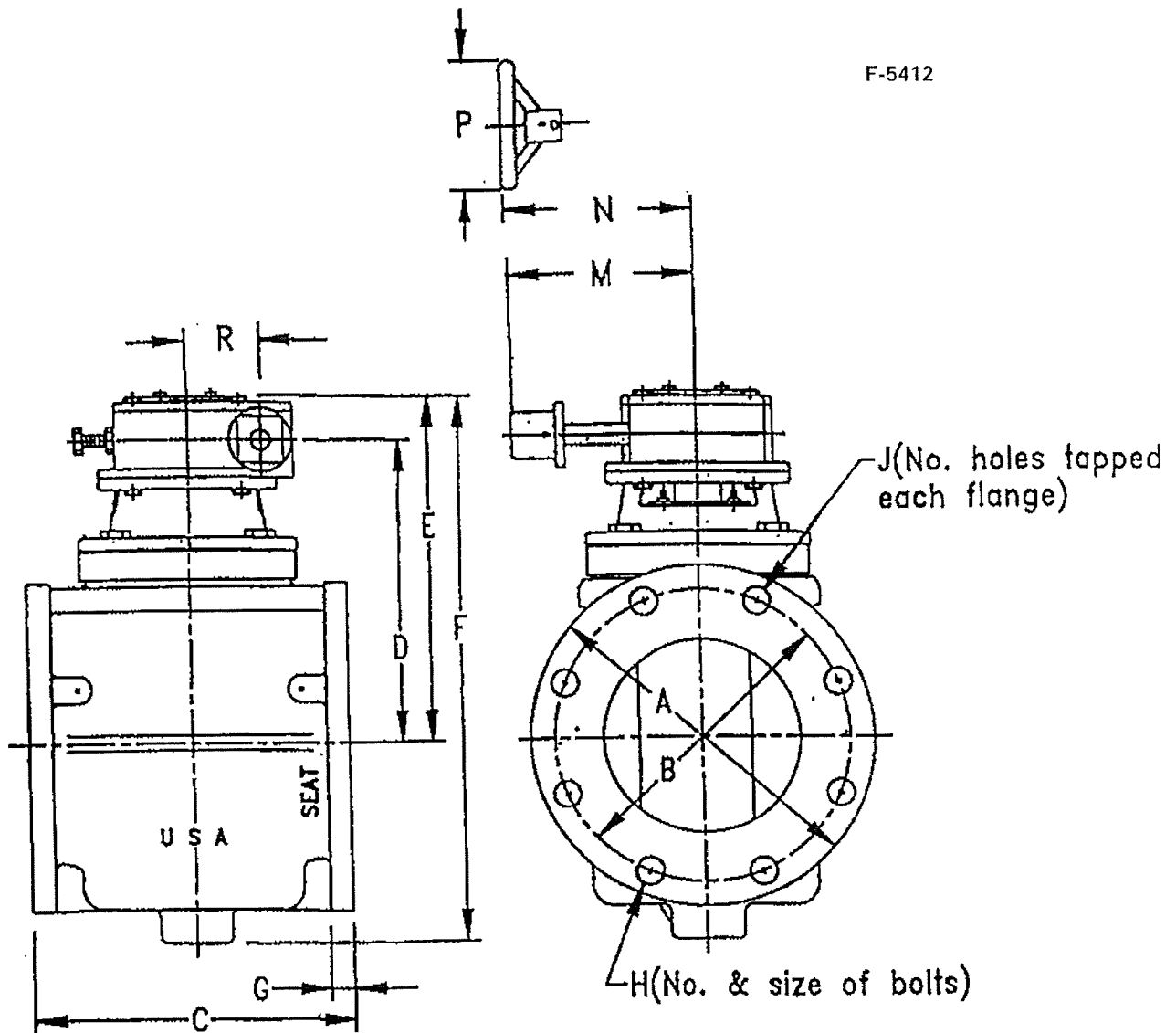


VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M
14	17.00	19.69	14.31	21.00	4	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
16	17.75	20.88	15.75	23.50	6	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
18	21.50	22.94	17.18	25.00	8	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
20	23.50	24.22	20.00	27.50	8	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
24	30.00	25.28	22.94	32.00	8	6.81	3.750	.875 sq	11.00	9.00	3/4—10	7/8

# 4"-24" ECCENTRIC PLUG VALVE FLANGED ENDS WITH WORM GEAR - GENERAL DIMENSIONS

KENNEDY VALVE

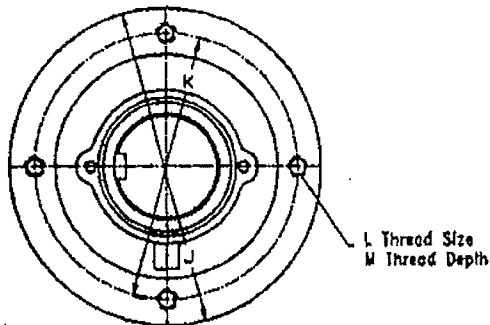
F-5412



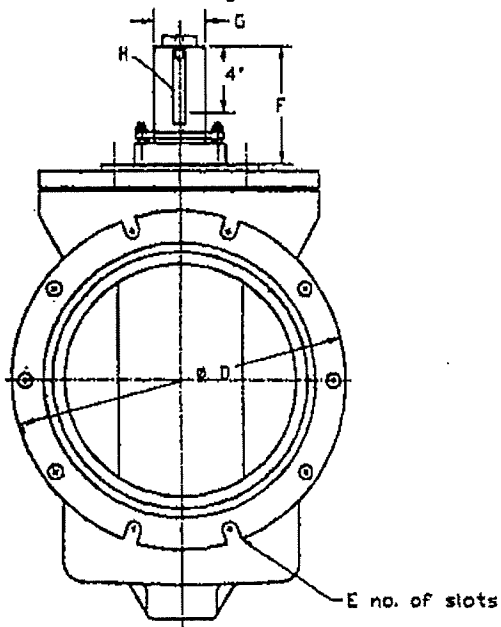
VALVE SIZE	A	B	C	D	E	F	G	H	J	M	N	P	R
4"	9	7 <sup>1</sup> / <sub>2</sub>	9	9 <sup>3</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	16 <sup>7</sup> / <sub>16</sub>	1	8— <sup>5</sup> / <sub>8</sub>	4	8	11	10"	3 <sup>1</sup> / <sub>4</sub>
6"	11	9 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	8— <sup>3</sup> / <sub>4</sub>	2	8	11	10"	3 <sup>1</sup> / <sub>4</sub>
8"	13 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>	22 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>16</sub>	8— <sup>3</sup> / <sub>4</sub>	4	8	11	10"	3 <sup>1</sup> / <sub>4</sub>
10"	16	14 <sup>1</sup> / <sub>4</sub>	13	14 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>8</sub>	26 <sup>11</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	12— <sup>7</sup> / <sub>8</sub>	4	8	11-12	10"-18"	3 <sup>1</sup> / <sub>4</sub>
12"	19	17	14	16 <sup>1</sup> / <sub>16</sub>	17 <sup>15</sup> / <sub>16</sub>	30	1 <sup>1</sup> / <sub>4</sub>	12— <sup>7</sup> / <sub>8</sub>	4	8	11-12	10"-18"	3 <sup>1</sup> / <sub>4</sub>
14"	21	18 <sup>3</sup> / <sub>4</sub>	17	18 <sup>7</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>4</sub>	36 <sup>9</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	12—1	4	10	16	24"	4 <sup>3</sup> / <sub>4</sub>
16"	23 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>16</sub>	23 <sup>3</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	16—1	6	12	18	24"	5
18"	25	22 <sup>3</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>2</sub>	42 <sup>11</sup> / <sub>16</sub>	1 <sup>9</sup> / <sub>16</sub>	16—1 <sup>1</sup> / <sub>8</sub>	8	12	18	24"	5
20"	27 <sup>1</sup> / <sub>2</sub>	25	23 <sup>1</sup> / <sub>2</sub>	23 <sup>7</sup> / <sub>16</sub>	26 <sup>13</sup> / <sub>16</sub>	46 <sup>13</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>16</sub>	20—1 <sup>1</sup> / <sub>8</sub>	8	12	18	24"	5
24"	32	29 <sup>1</sup> / <sub>2</sub>	30	25 <sup>1</sup> / <sub>16</sub>	28 <sup>7</sup> / <sub>16</sub>	51 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	20—1 <sup>1</sup> / <sub>4</sub>	8	12	18	24"	5

# 14"-24" ECCENTRIC PLUG VALVE SMJ ENDS – GENERAL DIMENSIONS

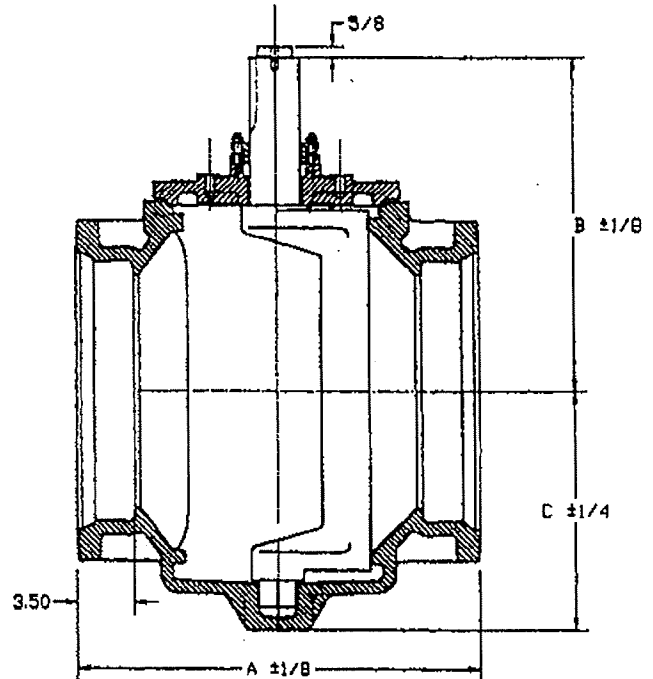
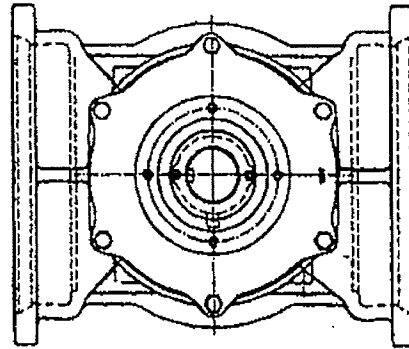
KENNEDY VALVE



Actuator Mounting Dimensions



SMJ Flange Dimension  
Conform to Ansl 21.11/AWWA C111

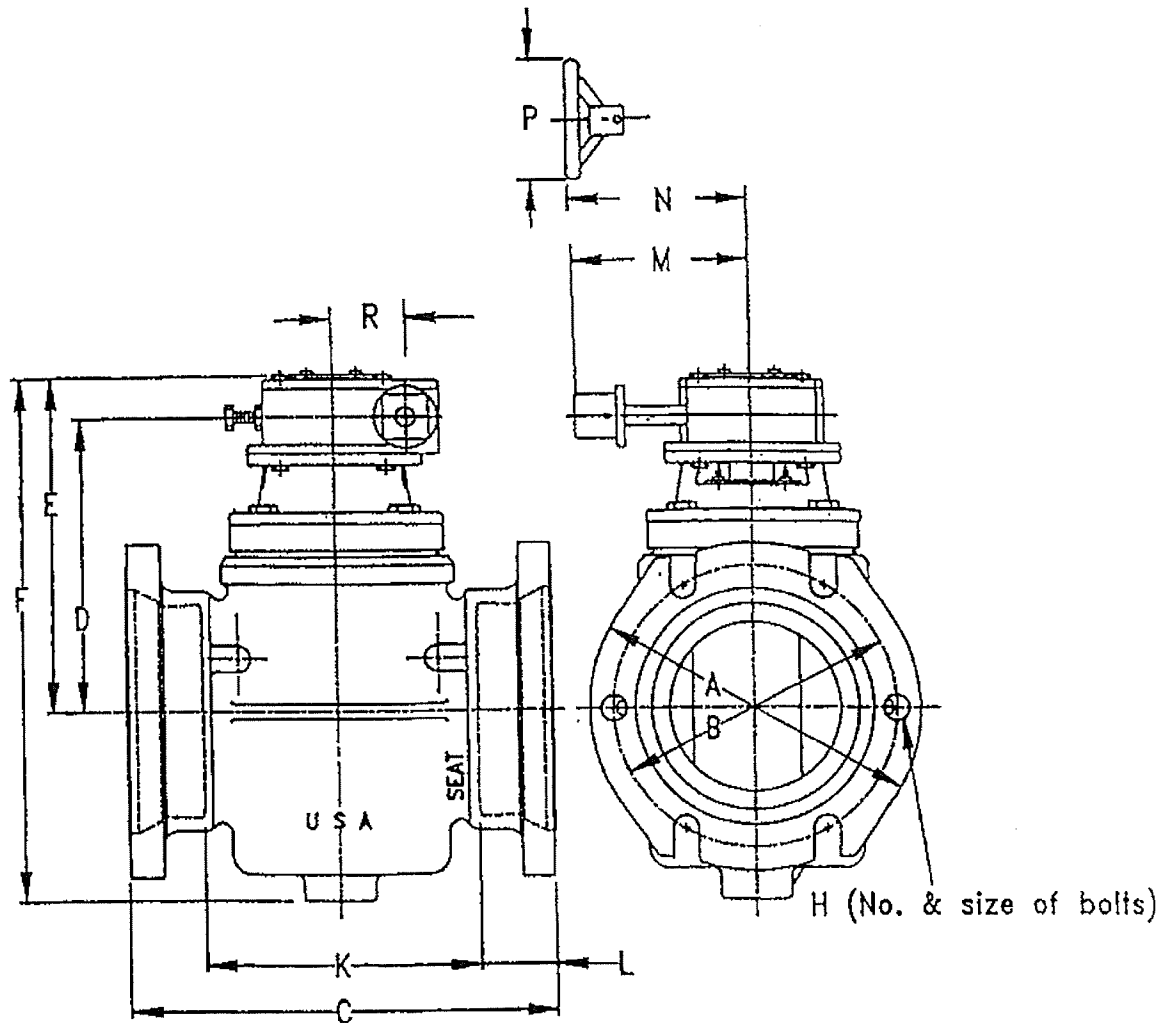


VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M
14	24.50	19.69	14.31	20.31	4	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
16	24.75	20.88	15.75	22.50	4	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
18	28.63	22.94	17.18	24.75	4	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
20	30.75	24.22	20.00	27.00	2	6.81	3.121	.75 sq	9.50	8.00	5/8—11	7/8
24	37.00	25.28	22.94	31.50	2	6.81	3.750	.875 sq	11.00	9.00	3/4—10	7/8

# 4"-24" ECCENTRIC PLUG VALVE SMJ ENDS WITH WORM GEAR - GENERAL DIMENSIONS

KENNEDY VALVE

F-5413



VALVE SIZE	A	B	C	D	E	F	H	K	L	M	R
4"	9 <sup>1</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>16</sub>	16 <sup>7</sup> / <sub>16</sub>	4— <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	8	3 <sup>1</sup> / <sub>4</sub>
6"	11 <sup>1</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	14 <sup>1</sup> / <sub>8</sub>	10 <sup>7</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>4</sub>	6— <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	8	3 <sup>1</sup> / <sub>4</sub>
8"	13 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	12 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>	22 <sup>1</sup> / <sub>2</sub>	6— <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	8	3 <sup>1</sup> / <sub>4</sub>
10"	15 <sup>3</sup> / <sub>4</sub>	14	19 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>8</sub>	26 <sup>11</sup> / <sub>16</sub>	8— <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	8	3 <sup>1</sup> / <sub>4</sub>
12"	18	16 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>4</sub>	16 <sup>1</sup> / <sub>16</sub>	17 <sup>15</sup> / <sub>16</sub>	30	8— <sup>3</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	8	3 <sup>1</sup> / <sub>4</sub>
14"	20 <sup>5</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>4</sub>	24 <sup>1</sup> / <sub>2</sub>	18 <sup>7</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>4</sub>	36 <sup>9</sup> / <sub>16</sub>	10— <sup>3</sup> / <sub>4</sub>	17 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	10	4 <sup>3</sup> / <sub>4</sub>
16"	22 <sup>1</sup> / <sub>2</sub>	21	24 <sup>3</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>16</sub>	23 <sup>7</sup> / <sub>16</sub>	39 <sup>3</sup> / <sub>16</sub>	12— <sup>3</sup> / <sub>4</sub>	17 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	12	5
18"	24 <sup>3</sup> / <sub>4</sub>	23 <sup>1</sup> / <sub>2</sub>	28 <sup>5</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>2</sub>	42 <sup>11</sup> / <sub>16</sub>	12— <sup>3</sup> / <sub>4</sub>	21 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	12	5
20"	27	25 <sup>1</sup> / <sub>2</sub>	30 <sup>3</sup> / <sub>4</sub>	23 <sup>7</sup> / <sub>16</sub>	26 <sup>13</sup> / <sub>16</sub>	46 <sup>13</sup> / <sub>16</sub>	14— <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	12	5
24"	31 <sup>1</sup> / <sub>2</sub>	30	37	25 <sup>1</sup> / <sub>16</sub>	28 <sup>7</sup> / <sub>16</sub>	51 <sup>3</sup> / <sub>8</sub>	16— <sup>3</sup> / <sub>4</sub>	30	3 <sup>1</sup> / <sub>2</sub>	12	5

**ECENTRIC PLUG VALVE  
MATERIALS AND SPECIFICATIONS**

KENNEDY VALVE

**MATERIAL SPECIFICATIONS**

**CAST IRON Specification ASTM A-126 Class B**

Physical Properties

Minimum tensile strength	31,000 psi
Minimum transverse strength	3,300 psi
Minimum deflection (12" centers)	.12 in.

Chemical Analysis (percent)

Phosphorus (maximum)	.75
Sulfur (maximum)	.12

**STAINLESS STEEL – 316 – ASTM A743 Grade CF-8M**

Physical Properties

Ultimate tensile strength	70,000 psi
Yield strength	30,000 psi
Elongation	30%
Rockwell hardness	B50

Chemical Analysis (percent)

Chromium	19
Nickel	9.0-12.0
Molybdenum	2.0-3.0
Silicon	2.0

**BUNA-N RUBBER (Acrylonitrile-Butadiene)**

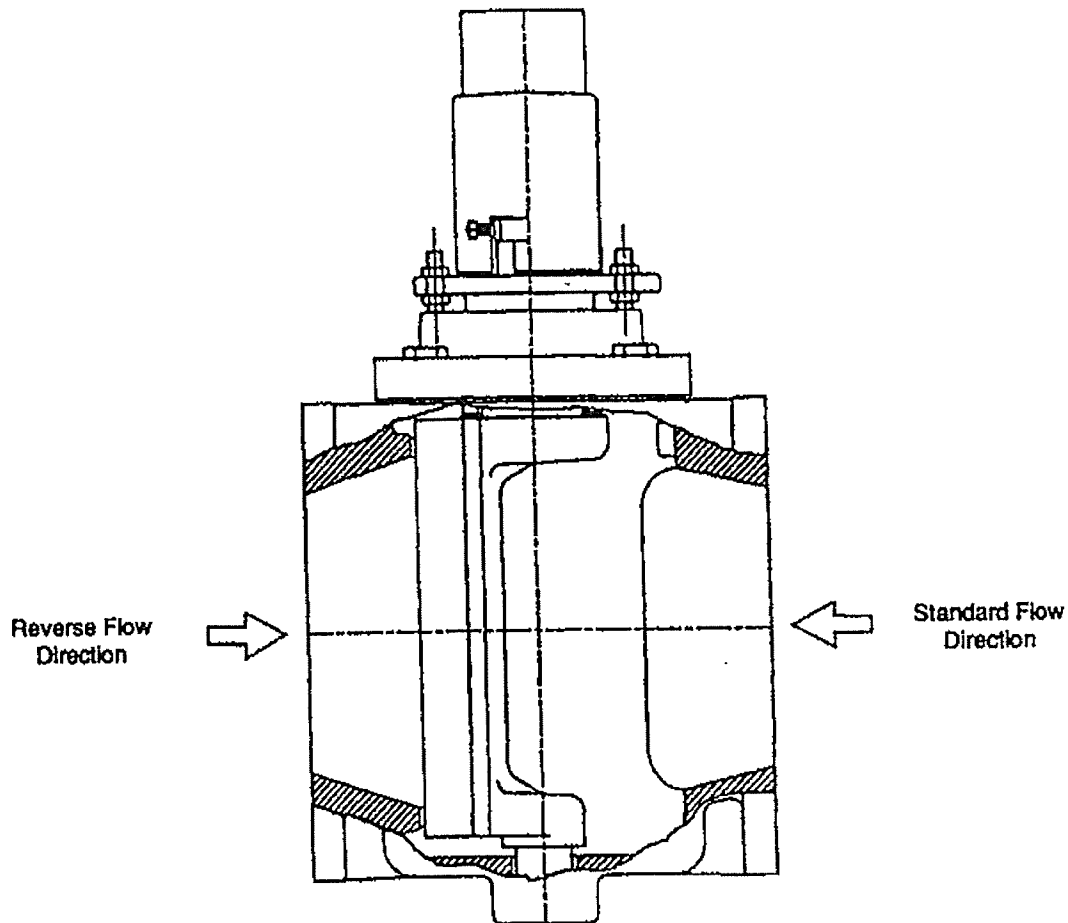
Physical and Mechanical Properties

Tensile strength	1,475 psi
Elongation	238%
Hardness (Shore A)	70
Compression set (Method B, 22 hrs. @ 150 F.)	18.7%
Specific Gravity	1.24



## 3"-24" ECCENTRIC PLUG VALVE OPERATING ACTION

KENNEDY VALVE



**FLOW DIRECTION DESIGNATION**

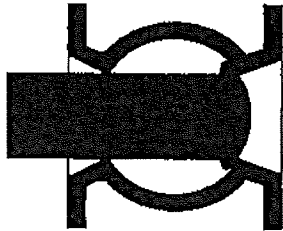
## FLOW DIRECTION DESIGNATION

Valves 3" through 8" are available with lever actuators. Geared actuators are recommended on 6" and larger valves. It is also recommended that valves installed in pipelines with high velocity or where water hammer conditions can be caused by sudden valve shut-off that geared actuators be installed. Lever actuators can only be used for pressure ratings of 100 psi maximum and 25 psi in the reverse flow conditions.

## ECCENTRIC PLUG VALVE FLOW DESIGNATED

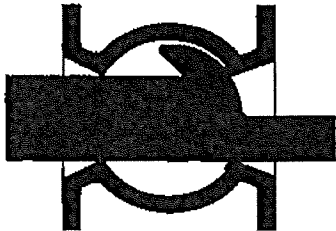
KENNEDY VALVE

**CLOSED**



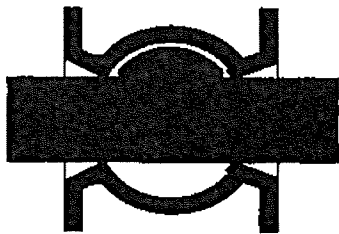
As the plug component is rotated to valve closure, the offset condition of the plug causes the seating surface to move axially downstream into the nickel. The results in a high seating force thereby crushing trapped solids and resulting in a bubble-tight seal. The upstream pressure acting on the convex side of the plug further improves the bubble-tight seal.

**OPENING**



Upon opening the valve, the initial rotation of the plug causes the resilient seating surface to move axially away from the nickel seat in the body. This action minimizes wear and scraping of the resilient seat, thereby improving the life of the valve. The plug can be positioned at any position between open and closed for throttling applications.

**OPEN**



In the full-open position, the plug is rotated out of the main fluid stream as shown. This allows for high capacity flow through the valve.

# **ECCENTRIC PLUG VALVE C<sub>v</sub> VALUES**

KENNEDY VALVE

VALVE SIZE	PORT AREA %	C <sub>v</sub>
3"	85	335
4"	88	565
6"	87	1210
8"	89	2050
10"	81	3100
12"	84	4170
14"	84	5460
16"	84	7420
18"	83	9675
20"	89	12920
24"	71	17670

Flow in GPM (gallons per minute) to equal a 1 psi pressure drop

Sizing Formula

Symbol Definitions

$$(1) C_v = \frac{Q}{\sqrt{\Delta}}$$

C<sub>v</sub> = Valve Sizing Coefficient

$$(2) Q = C \sqrt{\Delta}$$

ΔP = Pressure drop, pounds per square inch (psi)

$$(3) \Delta = \left( \frac{Q}{C_v} \right)^2$$

Q = Flow, gallons per minute (gpm)

**4"-24" ECCENTRIC PLUG VALVE  
WORM GEAR ACTUATOR SELECTION CHART**

KENNEDY VALVE

**Gear operators with 2" sq. operating nuts, 150 ft. – lb. max. input torque  
Consult factory for Reverse Flows above 50 psig.**

VALVE SIZE	50 psig	75 psig	100 psig	125 psig	150 psig	175 psig
4"	U10N	U10N	U10N	U10N	U10N	U10N
6"	U10N	U10N	U10N	U10N	U10N	U10N
8"	U10N	U10N	U10N	U10N	U10N	U10N
10"	U10N	U10N	U10N	U10N	U10N	U10N
12"	U10N	U10N	U10N	U10N	U10N	U10N
14"	U90N	U90N	U90N	U90N	U90N	—
16"	U90N	U90N	U90N	U90N	U100N	—
18"	U100N	U100N	U100N	U100N	U100N	—
20"	U100N	U100N	U100N	U100N	U100N	—
24"	U100N	U100N	U100N	U160N	U160N	—

U10N = 1KE/OP Nut Buried Service

U90N = 9KE/OP Nut Buried Service

U100N = 10KE 2.5/OP Nut Buried Service

U160 = 16KE/OP Nut Buried Service

**Gear operators with Handwheels & 80 lb. max, rim pull  
Consult factory for Reverse Flows above 50 psig.**

VALVE SIZE	50 psig	75 psig	100 psig	125 psig	150 psig	175 psig
4"	A110	A110	A110	A110	A110	A110
6"	A110	A110	A110	A110	A110	A110
8"	A110	A110	A110	A110	A110	A110
10"	A118	A118	A118	A118	A118	A118
12"	A118	A118	A118	A118	A118	A118
14"	A924	A924	A924	A924	A930	—
16"	A1024	A1024	A1024	A1024	A1624	—
18"	A1024	A1024	A1024	A1030	A1624	—
20"	A1024	A1024	A1030	A1624	A1624	—
24"	A1024	A1030	A1624	A1630	A1630	—

A110 = 1KE/10" Handwheel

A118 = 1KE/18" Handwheel

A924 = 9KE/24" Handwheel

A930 = 9KE/30" Handwheel

A1024 = 10KE 2.5/24" Handwheel

A1030 = 10KE 2.5/30" Handwheel

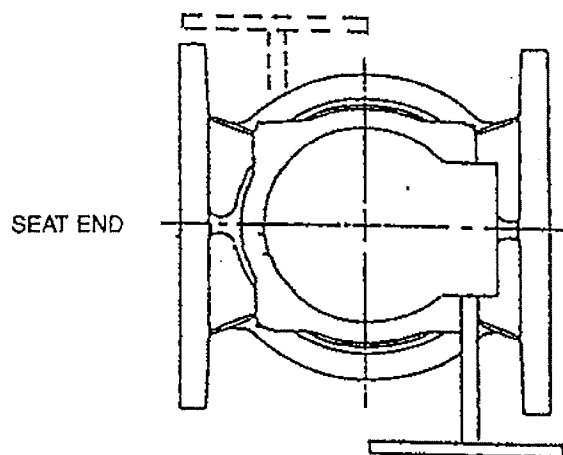
A1624 = 10KE 6/24" Handwheel

A1630 = 16KE/30" Handwheel

4"-24" ECCENTRIC PLUG VALVE  
OPERATION ORIENTATION OPTION

KENNEDY VALVE

OPTIONAL MOUNTING POSITION

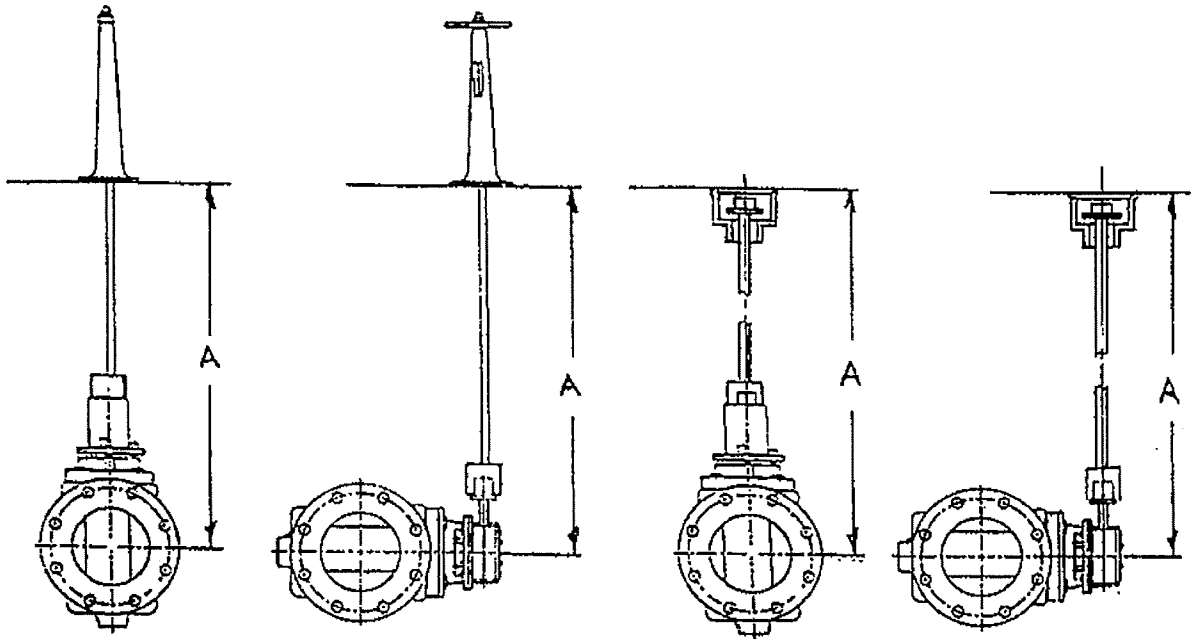


STANDARD MOUNTING POSITION

ACTUATOR MOUNTING POSITION AS VIEWED  
FROM THE TOP OF THE VALVE

# 3"-24" ECCENTRIC PLUG VALVE ACCESSORIES – REMOTE EQUIPMENT

KENNEDY VALVE

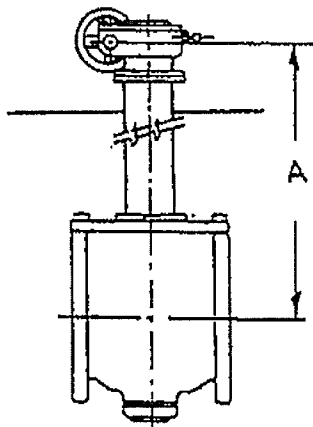


FLOORSTAND  
INSTALLATION  
WRENCH OPERATED  
VALVE

INDICATING FLOORSTAND  
INSTALLATION - GEAR  
ACTUATED VALVE

FLOORBOX  
INSTALLATION  
WRENCH OPERATED  
VALVE

FLOORBOX  
INSTALLATION  
GEAR ACTUATED  
VALVE



EXTENDED BONNET ASSEMBLY VALVES FOR  
BURIED OR SUBMERGED SERVICE. CAN BE  
FURNISHED WITH HANDWHEEL/GEAR,  
CYLINDER OR ELECTRICAL ACTUATOR.

"A" TO BE SPECIFIED BY THE CONTRACTOR FOR  
PROPER SIZING OF EXTENSION ASSEMBLY.

## ECCENTRIC PLUG VALVE SPECIFICATIONS

### KENNEDY VALVE

Eccentric Plug Valves shall be of the tight closing, resilient faced, non-lubricating variety and shall be of eccentric design such that the valves pressure member (plug) rises off the body seat contact area immediately upon shaft rotation during the opening movement. Valves shall be drop-tight at the rated pressure (175 psi through 12", 150 psi 14" and above) and shall be satisfactory for applications involving throttling service as well as frequent or infrequent on-off service. The valve closing member should rotate approximately 90 degrees from the full-open to full-close position and vice-versa.

The valve body shall be constructed of cast iron (semi-steel) conforming to ASTM A126, Class B. Body ends shall be:

- 1) Flanged with dimensions, facing, and drilling in full conformance with A – ANSI B16.1, Class 125. This includes Flange Thickness.
- 2) Mechanical Joint to meet the requirements of AWWA C111/ANSI A21.11.
- 3) Grooved ends to meet the requirements of AWWA C606.

Eccentric Plug Valves shall have a rectangular shaped port. Port areas for 3"-20" valves shall be a minimum 80% of full pipe area.

Valve seat surface shall be welded-in overlay, cylindrically shaped of not less than 90% pure nickel. Seat area shall be raised, with raised area completely covered with weld to insure proper seat contact. The machined seat area shall be a minimum of .125 thick and .500" wide.

The valve plug shall be constructed of cast iron (semi-steel) conforming to ASTM – A126, Class B. The plug shall have a cylindrical seating surface that is offset from the center of the plug shafts. The plug shafts shall be integral. The entire plug shall be 100% encapsulated with Buna-N rubber in all valve sizes. The rubber compound shall be approximately 70 (Shore A) durometer hardness. The Rubber to metal bond must withstand 75 lbs. pull under test procedure ASTM D – 429 – 73 Method B.

Shaft bearings, upper and lower, shall be sleeve type metal bearings, sintered, oil impregnated, and permanently lubricated type 316 stainless steel conforming to ASTM A743 Grade CF-8M. Thrust bearings shall be Nylatron.

Plug valve shaft seals shall be of the multiple V-ring type (Chevron) and shall be adjustable. All packing shall be replaceable without removing the bonnet or actuator and while the valve is in service. Shaft seals shall be made of Buna N.

Each valve shall be given a test against the seat at the full rated working pressure and a hydrostatic shell test at twice the rated working pressure. Certified copies of individual tests shall be submitted when requested. Certified copies of proof-of-design tests shall be submitted upon request.

Manual valves shall have lever or worm gear type actuators with handwheels, 2" square nuts, or chainwheels attached. Lever actuators shall be furnished on valves 8" and smaller where the maximum unseating pressure is 25 psig or less. Worm gear type actuators shall be furnished on all 4" or larger valves where the maximum unseating pressure is 25 psig or more.

All eccentric plug valves shall be Kennedy F5412 (Flanged), F5413 (Mechanical Joint), or F5414 (Grooved) or approved equal.