



**5000128784 A PURCHASE OF (2) 12" SLANTING DISK CHECK VALVES
FOR THE JEFFERSON PARISH EAST BANK WATER PLANT**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
14-Nov-2019 01:05:16 AM

***Please see our Equipment Proposal TII/LA/1119/12749 attached.



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

June 2019

CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The Jefferson Parish Purchasing Department would like to make vendors aware of the following changes:

DEDUCTIBLES: The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

PROTESTS: Only those vendors that submit bids in response to a solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

Please contact the Jefferson Parish Purchasing Department at 504-364-2678 if you have any questions or need assistance.

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@jeffparish.net Website: www.jeffparish.net



Bid Number 50 - 00128784

A purchase of 12" Slanting Disk Check Valves for the Jefferson Parish
EastBank Water Plant

November 19, 2019 at 11:00 am

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: Doris Abraham, Buyer I
Buyer Email: dabraham@jeffparish.net
Buyer Phone: 504-364-2690**

DATE: 11/12/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00128784

JEFFERSON PARISH

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

VENDOR:

BUYER: DABRAHAM@jeffparish.net

Bids will be received until 11:00 AM, 11/19/2019 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. 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 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. A copy of these resolutions 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 purchasing.jeffparish.net and clicking on On-line forms.

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.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. 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. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

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

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

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

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 warranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

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.

All formal Addenda require written acknowledgment 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.

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.

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 A117.1-1961).

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

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

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

ADDITIONAL REQUIREMENTS FOR THIS BID

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

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

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. 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.

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: 11/12/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00128784

JEFFERSON PARISH

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

VENDOR: Technology International, Inc.

BUYER: DABRAHAM

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order 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 at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH

Est. delivery is 30 WEEKS ARO & approved submittal.

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES _____

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK _____

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK _____

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: _____

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

***** ALL BIDDERS MUST COMPLETE SECTION BELOW *****

FIRM NAME:

Technology International, Inc.

SIGNATURE:

(Must be signed here)

Rifat Habib

TITLE:

Business Development Exec.

PRINT OR TYPE NAME:

Rifat Habib

ADDRESS:

1349 South International Pkwy, Suite 2411

CITY, STATE:

Lake Mary, Florida

ZIP:

32746

TELEPHONE:

(407) 359-2373

FAX:

(407) 359-2372

EMAIL ADDRESS:

tii@tii-usa.com

TOTAL PRICE OF ALL BID ITEMS: \$ \$54,240.00

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00128784

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>A purchase of (2) 12" Slanting Disk Check Valves</p> <p>0010 12 INCH SLANTING DISC CHECK VALVE WITH BOTTOM MOUNTED BUFFER</p> <p>WATER DEPT.- EAST BANK WATER PLANT</p> <p>PER THE ATTACHED SPECIFICATIONS **</p> <p>REPLACEMENT VALVES FOR P2 TRANSFER PUMPS</p> <p>LOCATION:</p> <p>JEFFERSON PARISH EB WATER PLANT 3600 JEFFERSON HWY., BLDG. D JEFFERSON, LA 70121</p>	\$27,120.00	\$54,240.00
***Please see our Equipment Proposal TII/LA/1119/12749 attached.					

Slanting Disk Check Valves for Jefferson Parish Eastbank Water Plant

Section 1.0 - Scope:

This bid shall cover purchase of valves at the East Bank Water Treatment Plant. Valves to be installed by plant personnel.

Section 2.0 – Shipping

Freight for all material covered by this solicitation must be included in the bid price; and all material must be F.O.B. Jefferson Parish East Bank Water Plant, freight prepaid to the plant.

Section 3.0 - Bid Specifications:

See attached.

12" Slanting Disk Check Valve for P2 Plant Transfer Pumps (Qty. of 2)

Slanting Disc Check Valves with Bottom Mounted Buffer to be 12" APCO model CSD (Body Style 800) with Bottom Mounted Buffer (BMB), as manufactured by DeZURIK, Inc or pre-approved equal.

Valve shall be 24" face to face.

The Body to be Ductile Iron ASTM A536 Grade 65-45-12. Bodies shall be a two piece-design, and each body half must have an access cover for internal inspection. Each half shall have a removable cover to accept optional attachment of a Bottom Mounted Buffer (BMB) or Top Mounted Oil Dashpot (TMD). Disc stabilizers shall be cast into the valve body.

Body halves shall be o-ring sealed and bolted together to capture the seat ring at a 55 degree angle. The area through the seat section shall be 40% larger than the inlet and outlet of the valve.

The Disc shall have a "hydrofoil" design to create lift and provide low head loss. Discs shall be Ductile Iron ASTM A536 Grade 65-45-12. A stainless steel indicator shall be provided to show the disc position.

The Body Seat and Disc Ring shall be Bronze ASTM B271 Alloy C92200 or 316 Stainless Steel per ASTM A296 and manufactured to be field replaceable without any special tools.

The Pivot Pins shall be 303 stainless steel per ASTM A562. Pivot pin bushings shall be 304 stainless steel per ASTM A296.

Bottom hydraulic buffer permits free opening, but positive non-slam closure of the disc. The oil hydraulic buffer shall make contact with the disc during the final 10% of closure to control the disc until shut-off in a manner to prevent slam and water hammer.

The buffer rod shall be 303 stainless steel per ASTM A582. The final closure is to be adjustable by means of a color-coded micrometer type control valve. Control valve to have a locking set screw to secure final setting.

The Oil Reservoir shall be 316 stainless steel per ASTM A240. Hydraulic hoses are to be S.A.E. certified.

Warranty: Valve shall be warranted by the manufacturer for defects in materials and workmanship for a period of two years (24 months) from date of shipment.



Technology International, Inc.
1349 South International Pkwy, Suite 2411
Lake Mary, FL 32746
Tel: (407) 359-2373
Fax: (407) 359-2372
E-mail: tii@tii-usa.com
Website: www.tii-usa.com

Equipment Proposal

Description: 12" Slanting Disk Check Valves
Solicitation #: 5000128784
Agency: The Jefferson Parish - East Bank Water Plant
Our Ref: TII/LA/1119/12749
Date: 11/19/2019

In response to your quote request for 12" Slanting Disk Check Valves, Technology International, Inc. is pleased to submit the following for consideration:

ITEM NO.	QTY	DESCRIPTION/ MODEL NO.	UNIT PRICE	EXTD. PRICE
1	2	CLAVAL Model 586B 12" Pivoting Disc Check Valve (with Bottom Mounted Buffer) ASTM A536 Grade 65-45-12 Ductile Iron Body	\$27,120.00	\$54,240.00
See attached data sheets				
<u>Total price for all above.....\$54,240.00</u>				

Warranty: Manufacturer's Standard warranty applies.

Delivery:

- Estimated delivery is **30 WEEKS** after receipt of order and approved submittal
- All delivery dates quoted are subject to manufacturer's confirmation at time of order.
- Submittal data will be provided for approval after receipt of order (if applicable).
- Customer to provide equipment and personnel to unload.
- TII will deliver good title (MSO) to the Agency upon payment confirmation. The Agency is responsible for its own title work and registration (if applicable).

Freight: Freight Included to Jefferson, LA 70121.

Validity: Quote is valid for 30 days.

Payment Terms: NET 30

Prompt Payment discount: 1/4 % 10 days

***** Notes:**

- Quoted price is an offer for a lump sum contract.

Technology International, Inc. Corporate data:

We are a small business and our Tax Payer Identification Number (TIN): 650342335. The above price quoted does not include any sales, excise or similar taxes. If applicable agency must accrue and remit it directly."

We trust that this proposal will meet your requirements and we look forward to hearing from you.

If you have any questions or need more information, please contact us by phone at 407-359-2373, fax at 407-359-2372 or email us at tii@tii-usa.com

Respectfully submitted,



Rifat Habib
Business Development Exec.
Technology International, Inc.



Series 586

Pivoting Disc Check Valve



Series 586CT Pivoting Disc
Check Valve with
Top Mounted Control



Series 586CB Pivoting
Disc Check Valve with
Bottom Mounted Control

Product Advantages

- Two accessory openings - one in each body half
- Double o-ring seals - each side of body seat
- Field replaceable seat and disc rings
- Metal-to-metal seating
- Precise pivot clearance for easy centering, no sticking
- Available in standard sizes 3 through 14-inches - For larger sizes, consult factory

The Cla-Val Series 586 Pivoting Disc Check Valve provides superior flow characteristics with lower head loss than any other comparable hinged disc check valve. The two-piece body design allows for a 40% expanded cross sectional flow area, compensating for the disc mass. The valve is available with top mounted or bottom mounted closing control features to meet a variety of applications. The Model 586CT features a top mounted control for slow opening and controlled closing. The Model 586CB features a bottom mounted control for unrestricted opening and controlled closing.

The unique disc design offers minimal resistance to flow when pivoting and stabilizing in the full open position. The longer laying length minimizes turbulence and cavitation. The off-center pivoting disc provides the least possible flow resistance while minimizing water column reversal and slamming during shutdown due to the short travel distance to the shut-off position.

The weight distribution of the pivoting disc enables it to fall into unrestricted into shut-off position, while a slight pressure differential will cause the disc to open. Because of the very low head loss, the Cla-Val Pivoting Disc Check Valve reduces power consumption and improves pumping efficiency.

Approvals & Certifications

- 125/150 & 250/300 Class Valves, 3" through 14" meets the Federal Mandate Limiting Lead in Drinking Water
- Meets AWWA standards for metal-to-metal seating

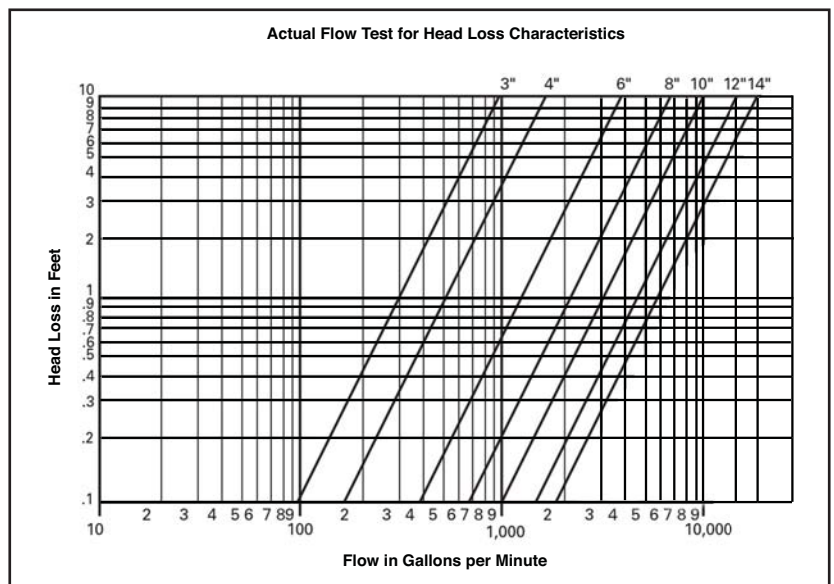
Note:

Standard offering is two-part epoxy coating interior and exterior.

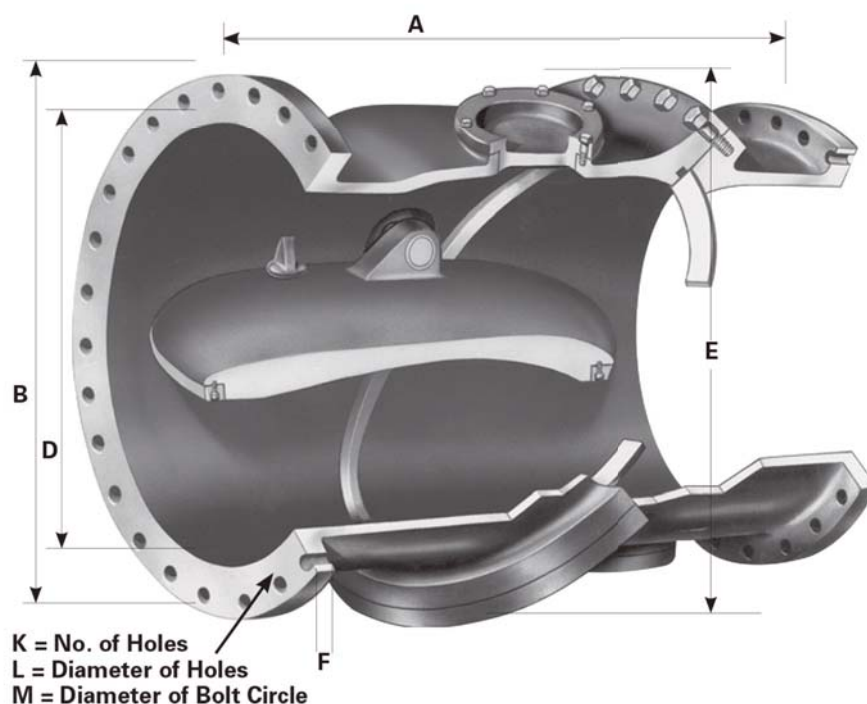
Certified Independent Laboratory Testing

- Certified flow test conducted at independent test research Laboratory
- Figure shown is based on certified tests on valves sizes 8 and 14-inches. Actual field conditions may vary

Note: When comparing similar published data, it is recommended that only certified flow test data be used



Series 586 Pivoting Disc Check Valve Dimensions



Series 586: 125/150# Flange Main Valve Dimensions

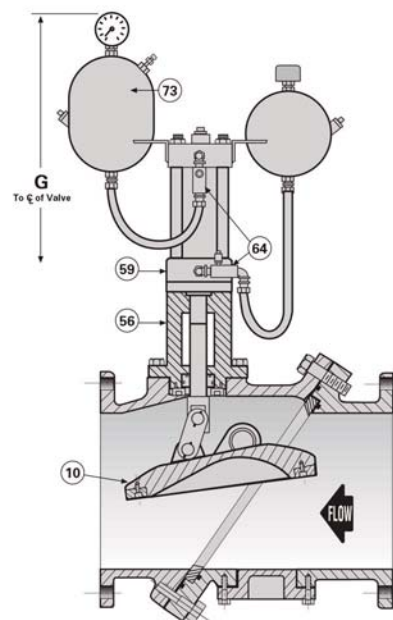
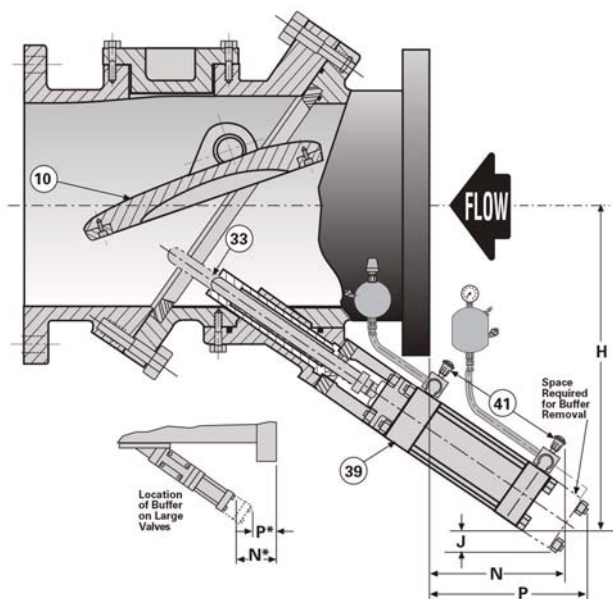
Size (inches)	A	B	D	E	F	G	K	L	M	Weight (lbs.)
3	9.5	7.5	3.0	8.5	.75	9.0	4	.75	6.0	55
4	11.5	9.0	4.0	9.75	.938	11.0	8	.75	7.5	82
6	15.0	11.0	6.0	13.75	1.0	17.5	8	.875	9.5	164
8	19.5	13.5	8.0	15.5	1.125	22.0	8	.875	11.75	265
10	24.5	16.0	10.0	18.0	1.188	25.5	12	1.0	14.25	510
12	24.0	19.0	12.0	21.0	1.25	27.0	12	1.0	17.0	650
14	30.0	21.0	14.0	25.0	1.375	33.0	12	1.125	18.75	1044

Series 586: 250/300# Flange Main Valve Dimensions

Size (inches)	A	B	D	E	F	G	K	L	M	Weight (lbs.)
3	12.5	8.25	3.0	8.5	1.125	9.0	8	.875	5.625	65
4	11.5	10.0	4.0	9.75	1.25	11.0	8	.875	7.875	93
6	15.0	12.5	6.0	13.75	1.438	17.5	12	.875	10.625	199
8	19.5	15.0	8.0	15.5	1.625	22.0	12	1.0	13.0	357
10	24.5	17.5	10.0	18.0	1.875	25.5	16	1.125	15.25	573
12	24.0	20.5	12.0	21.0	2.0	27.0	16	1.25	17.75	693
14	30.0	23.0	14.0	25.0	2.125	33.0	20	1.25	20.25	1179

Available in standard sizes 3 through 14-inches. For larger sizes, consult factory.

125/150 & 250/300 Pivoting Disc Check Valve: 3 thru 14-inches



Top and Bottom Control Dimensions

Valve Size (inches)	G	H	N	J	P
3	consult factory	consult factory	consult factory	consult factory	consult factory
4	consult factory	consult factory	consult factory	consult factory	consult factory
6	21.375	13.375	8.625	2.75	11.5
8	28.625	14.75	7.75	3.625	11.0
10	30.625	16.5	5.0	4.125	9.0
12	31.875	17.875	7.125	5.125	11.0
14	35.875	19.75	4.75	5.376	9.0

Note: Dimensions are the same for both 125/150 and 250/300 Class Valves and for 586CB and 586CT configurations.

Operating Principles

Model 586CT

This valve is highly recommended when slow open and full control closure of the disc (10) is essential. Slow gradual opening and control closing of the valve disc will prevent or greatly reduce surge pressures (water hammer) that can cause damage to the pipeline each time the pump starts and stops or during power failure.

Slow Gradual Opening

Slow gradual opening is accomplished as the piston inside the cylinder (59) moves upwards pushing oil through the upper control valve (64).

Fully Controlled Closing

1st Stage: Closing control occurs as the piston moves downward pushing oil through the lower control valve (64). **2nd Stage:** Final control stage occurs as the piston approaches the bottom of the cylinder and enters the internal cushion chamber, built into the cap of the cylinder.

By simply regulating each flow control valve (64), a slow gradual opening of the disc (10) can be achieved as well as variable control closing of the disc. Closing time adjustments can be made in the field to best suit your installation. This is a desirable feature because times for opening and closing computed during design of a pump station and pipeline may not coincide with actual field conditions.

Model 586CB

This unique bottom mounted control component arrangement allows the valve disc (10) to open fully without interference and to close freely for approximately 90% of its stroke. After the disc is 90% closed, it comes in contact with the buffer rod (33), at this point final control speed of the last 10% (adjustable) of closing is established.

The flow control valve (41) on the cylinder (39) is easily adjusted to allow slow closure to suit pipeline flow conditions. This prevents or minimizes slamming which greatly reduces pressure surges.

This valve is recommended where rapid flow reversal (caused by a hydro-pneumatic surge tank or a critical slope of discharge pipeline) is so fast that a free closing check valve cannot shut prior to reverse flow and therefore slams. The bottom mounted control component will stop the disc at approximately 90% (adjustable) of closure and control close the disc to shut-off without slamming. This is accomplished with minimal pressure rise. The control component is self contained. Auxillary equipment is not required.

Such control strategies have been used successfully for decades to eliminate slamming of the valve disc and resultant water hammer.

Series 586 Pivoting Disc Check Valve Technical Data

Materials

Valve Body:

Ductile Iron - ASTM GR 536 65-45-12

Disc:

3 - 10-inches Bronze Alloy C90700

12 - 14-inches Ductile Iron - ASTM GR 536 65-45-12

Seat Ring and Disc Ring:

Bronze ASTM B16 C360000

Pivot Pins:

Stainless Steel ASTM A582 T303

Pivot Pin Bushing:

11 - 14-inches Stainless Steel A269 T304

Exterior Paint:

Universal Metal Primer - FDA Approved for Potable Water Contact



Typical Applications

Cla-Val 586 Pivoting Disc Check Valves are used anywhere a quick, responsive and quiet closure is desired and in the majority of pump applications, including the following;

- Vertical Turbine Pumps
- Booster Pump Stations in High Rise Buildings
- House Pump Applications



Purchase Specifications

The valve body shall be two-piece ductile iron unit. The two body halves and body seat shall be o-ring sealed and bolted together in a manner to sandwich the body seat on a 55° angle. Each body half must have an access covered hole for internal inspection and each body half and disc fully machined to accept future attachments of a bottom control device or a top mounted control device. The seat ring and disc ring must be of the design that permits replaceability in the field without need for special tools or machining. The pivot pins in the body and the bushings in the disc lugs must be stainless steel of different hardness to prevent galling. The bushings shall be press-fit to prevent wear. An indicator shall be provided to show the position of the disc. The area throughout the valve body must be equal to full pipe area. The area through the seat section shall be 40% larger than the inlet and outlet of the valve to achieve low head loss.

The valve must be available in two configurations:

- (A) The first with a bottom device for unrestricted opening and controlled closing;
- (B) The second with a top mounted device for slow opening and controlled closing.



586CB

Configuration (A) Model 586CB: For unrestricted opening and positive non-slam closing, the valve must have a bottom mounted control component. The control component shall be designed to contact the disc during the last 10% (adjustable) of closure and control the final closing of the valve to prevent water hammer. The rate of closure to be externally adjustable and variable.



586CT

Configuration (B) Model 586CT: For slow open and non-slam closing, a top mounted control component must be provided with slow opening and full control closing features to prevent surge and water hammer. Control component must have (2) control closing flow rates. (1) 90% primary adjustable rate (2) 10% adjustable slow rate during final disc closure. The control component must be a self contained oil system, separate and independent from the water line media. The oil reservoir for closing cycle shall be open to atmosphere with an air breather cap to prevent dust and other media from contaminating the oil. The oil reservoir for opening cycle must be hermetically sealed to contain pressure if necessary (air over oil) and be equipped with a pressure gauge and pneumatic air valve.