

DATE: 6/24/2015

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00113687

**JEFFERSON PARISH**  
PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2676

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: MOVALLE

Bids will be received until 11:00 AM, 6/30/2015 via fax: 504-364-2693 or via online at [www.jeffparish.net](http://www.jeffparish.net)

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 [www.purchasing.jeffparish.net](http://www.purchasing.jeffparish.net) and clicking on On-line forms.

All vendors submitting bids must register as a Jefferson Parish vendor if not already yet registered. Bidders may be required to furnish current W-9 Forms and respective Tax Identification Numbers within 10 days after bid opening if such information is not on file or not up to date. Registration forms may be downloaded from [www.purchasing.jeffparish.net](http://www.purchasing.jeffparish.net) and clicking on Vendor Information.

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

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 alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

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).

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BID NO.: 50-00113687

Page: 2

## 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.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

**ADDITIONAL REQUIREMENTS FOR THIS BID**

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

13

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

DATE: 6/24/2015

Page: 3

BID NO.: 50-00113687

**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 indicted on the attached sheet. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected. JEFFERSON PARISH reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
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 (in Original Format) required;** Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit and E-Verify Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project, including but not limited to requirements found in LSA-RS 38:2212.9; LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1. Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. 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 for the bid to be considered responsive.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required;** Non-Collusion Affidavit, and Campaign Contribution Affidavit must be completed, signed, notarized and submitted by low bidder with bid submission or within 10 days after bid opening to the Purchasing Department. See LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1 Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. 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 for the bid to be considered responsive.
16. Since a bid surety is required, bid response may not be faxed. Bid submission will only be accepted online or as delivered to the Purchasing Department, 200 Derbigny Street, Suite 4400, Gretna, LA 70053 by 11am on the bid due date. All sureties must be in original format (no copies).

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.

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Page: 4

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**JEFFERSON PARISH**

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

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: MOVALLE

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.

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JEFFERSON PARISH is expecting all products to be new and all work is to be done in a workman-like manner, according to standard practices. Any deviations or alterations from the specifications must be indicated and backup documentation supplied with your quotation.

<b>DELIVERY: FOB JEFFERSON PARISH</b>	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>3-4 weeks</u>
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>—</u>
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	<u>—</u>

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) \_\_\_\_\_

<b>*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***</b>	
FIRM NAME:	<u>LOUISIANA Utilities Supply Co</u>
SIGNATURE: (Must be signed here)	<u>Kedje Toups</u> TITLE: <u>Sales</u>
PRINT OR TYPE NAME:	
ADDRESS:	<u>Louisiana Utilities Supply Co</u>
CITY, STATE:	<u>901 Labarre Rd</u> <u>Suite 206</u> <u>Metairie, LA 70001</u>
TELEPHONE:	<u>Phone: (504) 834-1106</u>
FAX:	<u>504 831-4179</u>
EMAIL ADDRESS:	<u>KATSE.TOUPS @ Ferguson. com</u>

TOTAL PRICE OF ALL BID ITEMS: \$ #15080.00

DATE: 6/24/2015

Page: 6

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00113687

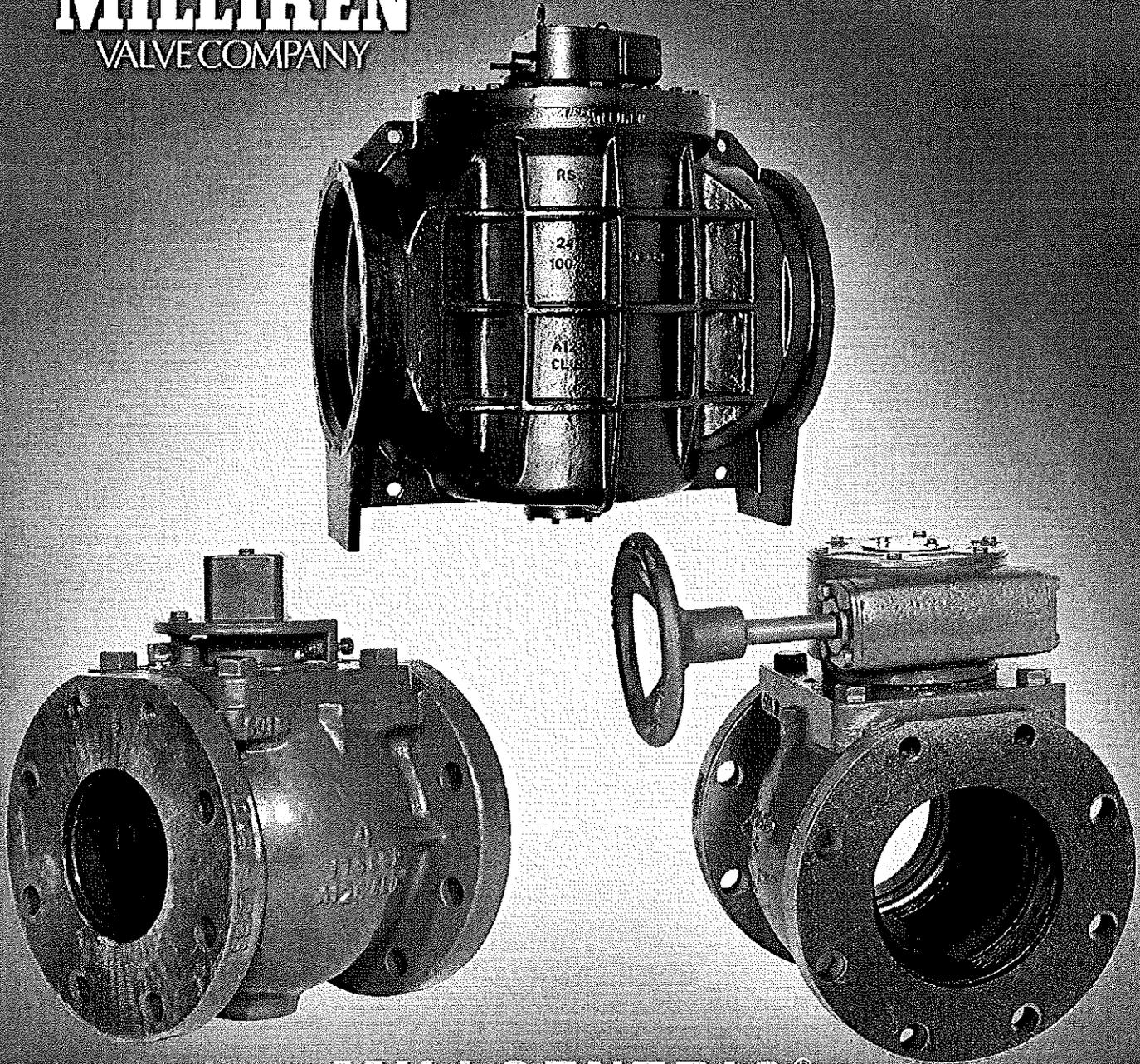
SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>A ONE TIME PURCHASE OF VALVES AND PIPE FITTINGS FOR JEFFERSON PARISH DEPARTMENT OF SEWERAGE, EAST BANK WAREHOUSE.</p> <p>0010 - Valve, plug, 16 inch x 17.75 in face to face, handwheel operated,</p>	<p>\$4975<sup>00</sup> ea.</p>	<p>\$9950<sup>00</sup></p>
2	6.00	EA	<p>flanged, eccentric, cast iron body, solid ductile iron plug with nitrile elastomer coating, 100 percent port, nickel seat, Milliken no. 601N1AG (0625110)</p> <p>0020 - Valve, check, 6 inch, 14 inch face to face, flanged, lever and weight,</p>	<p>\$830<sup>00</sup> ea</p>	<p>4980<sup>00</sup></p>
3	12.00	EA	<p>ibbm, bronze disk facing, stainless steel, bolts and nuts, epoxy coated, domestic, M &amp; H Style No. 159-02 (0628050)</p> <p>0030 - Bend, 90 degree, 6 inch, bell x spigot, SDR-35 PVC (0130810)</p> <p>Stock - r &amp; m l/s</p>	<p>\$12.50 each</p>	<p>\$150<sup>00</sup></p>

B# 205487

ISO 9001 CERTIFIED

**M**  
**MILLIKEN**  
VALVE COMPANY



**MILLCENTRIC®**  
**FULL/100% PORT**  
**ECCENTRIC PLUG VALVE**

## Suggested Specifications

The Milliken criteria of quality, reliability, safety and value are embodied in the Millcentric® Eccentric valve, setting higher standards for dependable performance with excellent features achieved by the utilization of the very latest design and manufacturing techniques.

- Computer Aided Design
- High Integrity Casting
- CNC manufacturing delivers consistent sizes on all components

### All complemented by rigorous Quality Control System

#### Body

Conforming to AWWA C504 wall thickness, the MILLCENTRIC valve body casting is in ASTM A126 CL B cast iron using high pressure molding techniques. Flanged or mechanical joint ends are available. Other materials are available upon request.

Flange diameter, thickness and drilling conform to ANSI B16.1 Class 125. Mechanical joints conform to AWWA C111 (ANSI A21.11).

#### Seat

The MILLCENTRIC valve incorporates as standard, on 3" and larger, a 1/8" thick welded 99% nickel seat for corrosion and erosion resistance specifically profiled for low torque and extended seat life.

#### Stem Seal

High integrity sealing by combining the advantages of a resilient and abrasion resistant U-Cup seal. From vacuum to high pressure, the self-adjusting sealing system (per AWWA C504) gives positive, trouble-free service and is retained independently of the plug stem or external torque device, thereby eliminating periodic maintenance.

#### Bearings

The plug rotates in permanently lubricated stainless steel bearings, located in the body and bonnet, along with upper and lower PTFE thrust washers, which ensure consistently low operating torque.

#### Plug

Supported on integral trunnions, the plug is totally encapsulated with an elastomer that is molded to the casting providing tight shut off even under vacuum conditions. High integrity corrosion-free sealing is achieved by a variety of abrasion resistant elastomers which protect the plug right up to the trunnions. When assembled, the light compression of the elastomers onto PTFE thrust washers, prevents entry of abrasive materials into the bearings.

#### Bonnet Seal

Superior "O" ring sealing with metal/metal contact means lower bolting stresses compared with compression gaskets.

#### Flow

The full port design (round on 2.5" – 12" and rectangular on 14" and larger) with streamlined internal contours gives the highest industry capacity straight through flow in the full open position, reducing turbulence and pressure drop and the effect of erosive media. Handling of sludges and slurries is therefore enhanced.

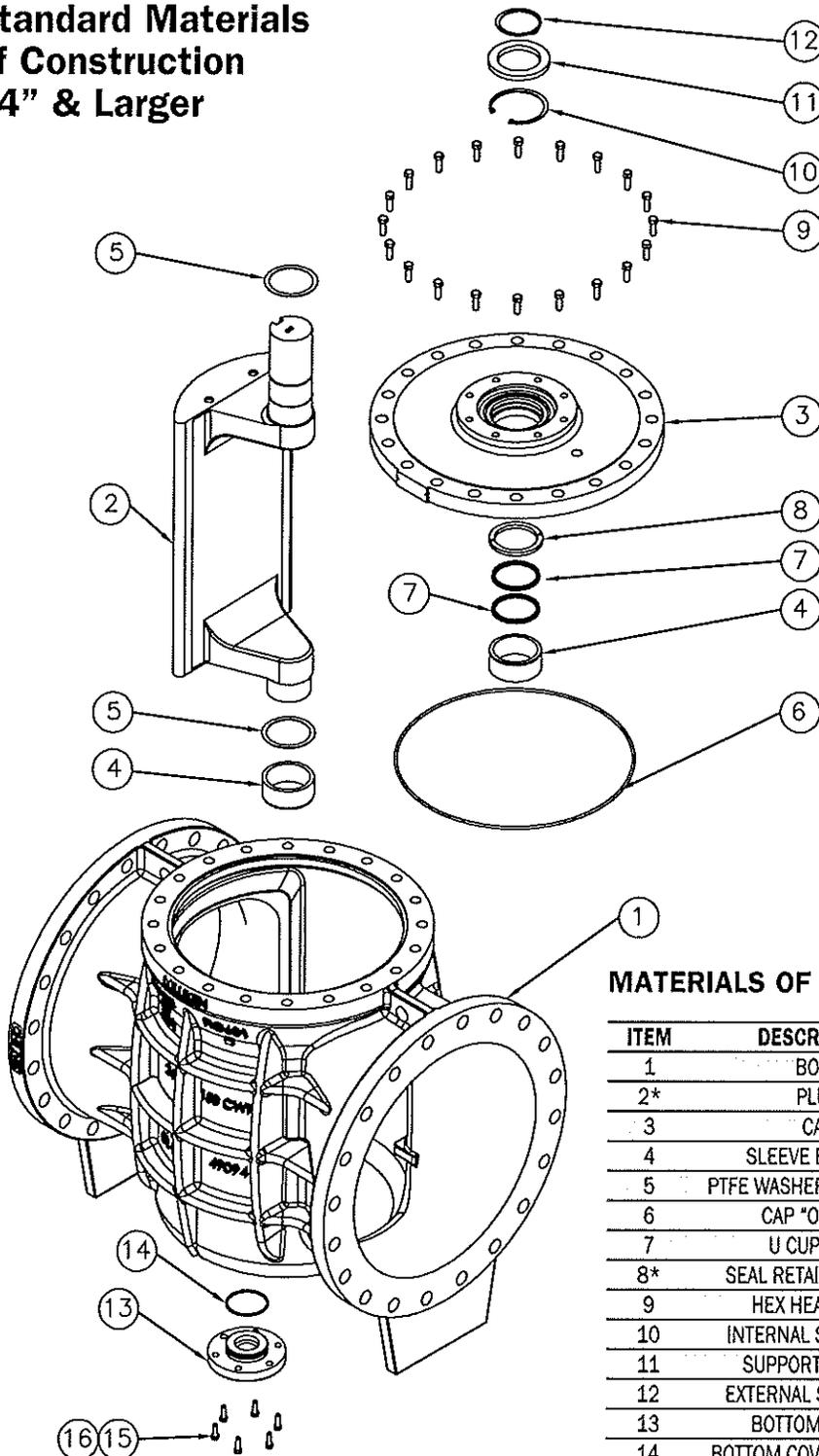
#### Interchangeable

Because of the common face to face dimension with wedge gate valves (3" – 12"), fitting the tight shut-off rotary MILLCENTRIC valve into existing systems is accomplished without pipeline modifications.

#### Travel Stops

Adjustable open and closed travel stops are fitted as standard on both wrench and gear operated MILLCENTRIC valves.

# Standard Materials of Construction 14" & Larger



## MATERIALS OF CONSTRUCTION

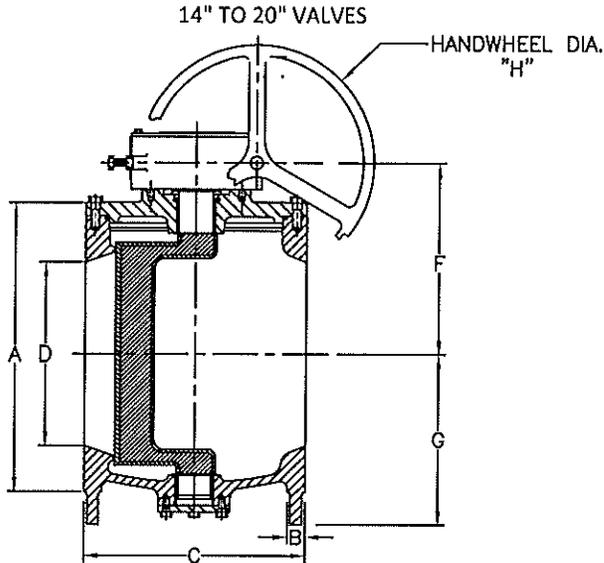
ITEM	DESCRIPTION	MATERIAL
1	BODY	CAST IRON A126 CLASS B
2*	PLUG	RUBBER COATED SEE NOTE 1
3	CAP	CAST IRON A126 CLASS B
4	SLEEVE BEARING	STAINLESS STEEL
5	PTFE WASHER (GRIT SEAL)	PTFE
6	CAP "O" RING	ELAS. AS SPEC.
7	U CUP SEAL	ELAS. AS SPEC.
8*	SEAL RETAINING RING	SEE NOTE 2
9	HEX HEAD BOLT	STEEL (ZINC PLATED)
10	INTERNAL SNAP RING	SPRING STEEL
11	SUPPORT COLLAR	STEEL
12	EXTERNAL SNAP RING	SPRING STEEL
13	BOTTOM COVER	CAST IRON A126 CLASS B
14	BOTTOM COVER "O" RING	ELAS. AS SPEC.
15	LOCK WASHER	SPRING STEEL
16	HEX HEAD BOLT	STEEL (ZINC PLATED)

\*NOTE 1: PLUGS DUCTILE IRON-ASTM A536 ON 14" - 20"  
CAST IRON-A126 CLASS B ON 24" AND LARGER

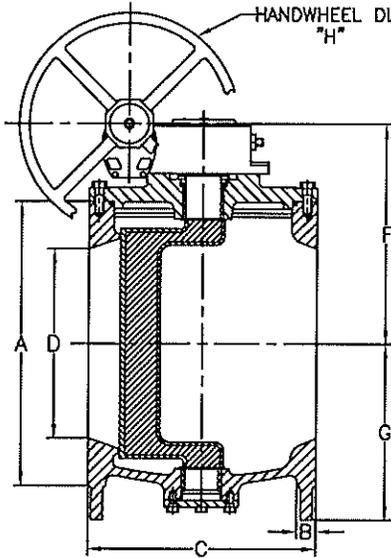
NOTE 2: SEAL RETAINING RING: BRASS-ASTM B-138-675 ON 14"-20"  
STEEL ON 24" AND LARGER

# Dimension Drawing 14" - 48"

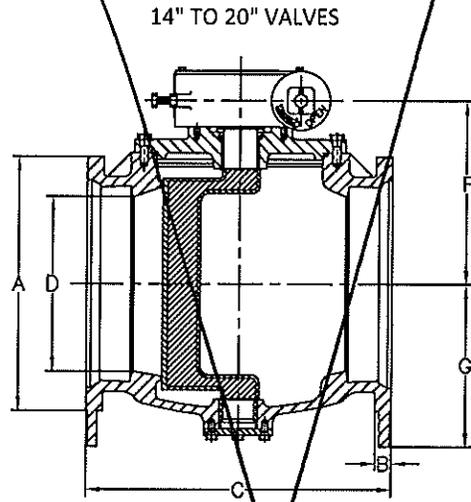
## FLANGED END FIG. 601FP 150 PSI



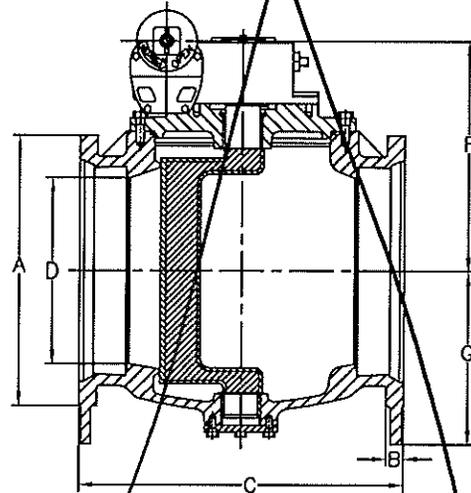
## 24" VALVES AND LARGER HANDWHEEL DIA. "H"



## MECHANICAL JOINT END FIG. 600FP 150 PSI



## 24" VALVES AND LARGER



FLANGED END - ANSI 125									
SIZE	14	16	18	20	24	30	36	42	48
A	21	23.5	25	27.5	32	38.75	46	53	59.5
B	1.38	1.44	1.56	1.69	1.88	2.13	2.38	2.63	3
C	17	17.75	21.5	23.5	42	51	60	72	84
D	14	16	18	20	24	30	36	42	48
F	16.81	17.48	18.63	21.75	30.25	33.88	38.38	38.91	46.41
G	15	16.13	17.64	20.7	24.75	29	33.38	36	42.5
H	18	18	18	18	24	24	24	32	32
WEIGHT (APPROX)	905	1080	1480	1800	4090	7125	8800	11842	14146

FLANGED VALVES MEET ANSI B16.1

MECHANICAL JOINT END									
SIZE	14	16	18	20	24	30	36	42	48
A	20.31	22.5	24.84	27.06	31.5	39.13	46	53	60
B	1.31	1.38	1.44	1.5	1.62	1.81	2	2	2
C	24.5	27.25	31	37.5	51	51	60	72	84
D	14	16	18	20	24	30	36	42	48
F	16.81	17.48	18.63	21.75	30.25	33.88	38.38	38.91	46.41
G	15	16.13	17.57	20	24.75	29	33.38	36	42.5
WEIGHT (APPROX)	1065	1353	1675	1800	4090	7125	8775	11842	13767

MECHANICAL JOINT VALVES MEET ANSI 21.11 & AWWA C-111

Weight includes gear operator

NOTE: Drawings are for information purposes only; please request certified drawings before preparing piping diagrams

NOTE: Dimensions on 54" and larger available upon request

NOTE: 100% Rectangular Port Valves

## Technical Specifications

### Full/100% Port Eccentric Plug Valves 2 1/2"- 48"

### AWWA C517-09 Standards

Valves shall be of the non-lubricated eccentric type with an elastomer covering all seating surfaces. The elastomer shall be suitable for the service intended. Flanged valves shall be manufactured in accordance with **ANSI B16.1 Class 125** including facing, drilling and flange thickness. Mechanical joint ends shall be in compliance with **AWWA/ANSI C-111-92**. Ports shall be round on sizes 2 1/2"-12" and rectangular port design on valves 14" 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-517-09 Section 4.3.3.1. Valves 3" and larger shall be furnished with a welded-in overlay seat of 1/8" 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 are not acceptable.

Plugs shall be of ASTM A-536-Grade 65-45-12 ductile iron for sizes 20" and smaller, and ASTM A126 Class B cast Iron for sizes 24" and larger in compliance with AWWA C-517-09 Sections 4.3.3.1 and 4.3.3.2. The plugs shall be of one piece solid construction with PTFE thrust bearings on the upper and lower bearing journals to reduce torque and prevent dirt and grit from entering the bearing and seal area.

Valves shall be furnished with replaceable sleeve type bearings conforming to AWWA C-517-09 Section 4.3.3.6. Bearings shall be of sintered, oil impregnated stainless steel.

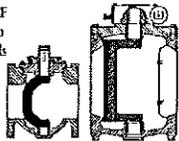
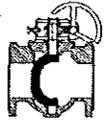
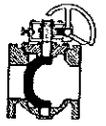
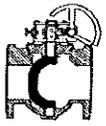
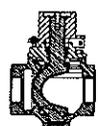
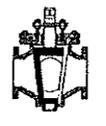
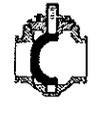
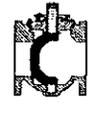
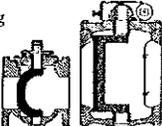
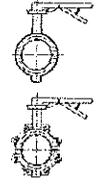
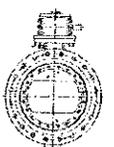
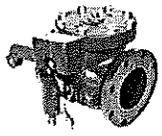
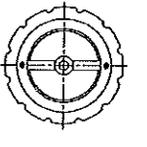
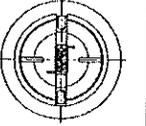
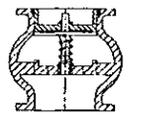
Valve shaft seals shall be of the "U" cup type in accordance with AWWA C-517-09 Section 4.4.7. Seals shall be self adjusting and repackable without removing the bonnet from the valve.

Wrench operated valves 2 1/2"-8" 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" square nut for use with removeable levers or extended "T" handles.

Worm gear operators, where required, shall be of the heavy duty construction with the ductile iron quadrant supported on the top and bottom by oil impregnated bronze bearings. The worm gear and shaft shall be manufactured of hardened steel and run on high efficiency roller bearings. All worm gear operators shall be sized for bi-directional shutoff at the valves design pressure rating.

Valves shall be designed and manufactured to shut off bubble tight at 175 psi for valves 2 1/2"-12" and 150 psi for valves 14" and larger. 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-517-09 Section 5.2.2 when requested.

Plug valves shall be Millcentric Series 601FP/600FP as manufactured by Milliken Valve Company of Bethlehem, Pennsylvania.

<p><b>Series 600/601</b> Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings ANSI-B16.1 Flanges Solid Ductile Iron F Low Pressure Drop Flanged &amp; MJ Ends Sizes 2"-72" FL Sizes 3"-45" MJ</p> <p>Flanged and MJ</p> 	<p><b>Series 601SS</b> Eccentric Plug Valve</p> <p>Integral Stainless Seat Stainless Bearings Stainless Steel Body ANSI B16.5 Class 150 Flanges Solid Stainless Steel Plug Low Pressure Drop Size: 1/2"-24"</p> 	<p><b>Series 601RL</b> Eccentric Plug Valve</p> <p>Soft or Hard Rubber Lining Stainless Steel Bearings ANSI B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Sizes 3"-54" Metal Plugs Available - Consult Factory</p> <p>Rubber Lined</p> 	<p><b>Series 602</b> Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings ANSI B16.1 Class 250 Flanges Solid Ductile Iron Plug Low Pressure Drop Sizes 2-1/2"-54"</p> <p>High Pressure</p> 
<p><b>Series 613A</b> Eccentric Plug Valve</p> <p>Ductile Iron Construction Round Port Stainless Steel Bearings Low Pressure Drop Memory Stop NPT End Connections Sizes 1/2"-2"</p> <p>Threaded End</p> 	<p><b>Series 604E</b> Eccentric Plug Valve</p> <p>Epoxy Seat Solid Ductile Iron Plug Stainless Steel Bearings Low Pressure Drop Lift &amp; Turn NOT Required High Solids &amp; Flow Capacity Sizes 3"-16"</p> <p>Three Way Valve</p> 	<p><b>Series 606</b> Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings AWWA C-606 Grooved Solid Ductile Iron Plug Low Pressure Drop Ductile or Steel Pipe Sizes 3"-24"</p> <p>Grooved End</p> 	<p><b>Series 611/610</b> Eccentric Plug Valve</p> <p>Ductile Iron Body ANSI B16.1 Flanges MJ AWWA C111 Welded Nickel Seat Solid Ductile Iron Plug Low Pressure Drop Sizes 2"-72" FL Sizes 3"-45" MJ</p> <p>Flanged and MJ</p> 
<p><b>Model 625</b> Eccentric Plug Valve</p> <p>Available in Threaded and Flanged Ends Rated for 175 psi Sizes 1/2"-4" UL/CGA Listed</p> 	<p><b>Series 600FP/601FP</b> Eccentric Plug Valve</p> <p>Full 100% PORT Welded Nickel Seat Stainless Steel Bearings ANSI-B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Flanged &amp; MJ Ends Sizes 2"-45" FL Sizes 3"-45" MJ</p> 	<p><b>Figure 396/397</b> General Service Butterfly Valve</p> <p>Meets MSS SP 67 Ductile Iron Body DI-NP Disc Other Materials Upon Request Wrench or Gear Operated Available 2"-45" Size Range</p> 	<p><b>Figure 510A/511A</b> AWWA Butterfly Valve</p> <p>Complies with AWWA C-504 Class 150B Flanged or MJ Cast Iron body and disc Seat in body Flow through disc on 24" and larger Epoxy Paint on all sizes standard 3" -72"</p> 
<p><b>Series 8500</b> AWWA Swing Check</p> <p>Full waterway Ductile Iron Construction Weight or Spring Air Cushion SS body seat ring Buna disc insert Sizes 3"-24"</p> 	<p><b>Series 8000</b> AWWA Swing Check</p> <p>Full waterway Weight or Spring Bronze/SS Body Seat Ring Bronze/Buna/EPDM disc insert Sizes 2"-36"</p> 	<p><b>Series 9000</b> AWWA Swing Check</p> <p>Clear waterway Weight or Spring Air or Oil Cushion Bronze/SS Body seat ring Bronze/Buna/EPDM disc insert Sizes 3"-72"</p> 	<p><b>Model 720A</b> Wafer Check Valve</p> <p>Center Guided Check Valve Rated for 250 psi SS Disc/EPDM Seat Sizes 2"-12"</p> 
<p><b>Series 700</b> Wafer Check Valve</p> <p>ANSI Class 125/150 High Flow Capacity Narrow Face-to-Face Sizes 3"-12" 316 SS Internals Disc Position Indicator</p> <p>Wafer Check Valve</p> 	<p><b>Figure 851</b> Flex Check</p> <p>Million Cycle Certification Complete Ductile Iron Construction 250 psi Pressure Rating Fully Epoxy Lined Interior No Internal Shafts, Bearings or Bushings No External Levers, Weights or Springs Mechanical Indicator (3"-16") 2"-24" Size Range Backflush Devices Proximity Switches</p> 	<p><b>Figure 740A</b> Double Disc Check Valve</p> <p>Wafer pattern check valve rated for 250 psi. Available in sizes 2"-36" with a SS Disc/EPDM Seat</p> 	<p><b>Figure 821A</b> Globe Style Check Valve</p> <p>Center guided check valve, SS Disc/EPDM Seat and is available in sizes 2"-24".</p> 

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