

DATE: 11/24/2015

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00115102

JEFFERSON PARISH

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

VENDOR:

BUYER:

LFRANCIS

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 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.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

3-5 Lks

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:

Cinco

SIGNATURE:

(Must be signed here)

[Signature]
Jeff Delvaux

TITLE:

SALES

PRINT OR TYPE NAME:

ADDRESS:

1840 LTA RD

CITY, STATE:

METairie, LA

ZIP:

70001

TELEPHONE:

(504) 835-7319

FAX:

(504) 832-0820

EMAIL ADDRESS:

Jeff C Cinco inc. com

TOTAL PRICE OF ALL BID ITEMS: \$ 17756.00

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00115102

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			VALVES AND RELATED ITEMS FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS - SEWERAGE		
1	6.00	EA	0010 - Valve, gate, 3 in, flanged, 8 inch face to face, cast iron body, bronze mounted, non-rising stem, double disc, open left, handwheel, domestic, epoxy coated, Clow No. F-5070 (0626290)	526 ⁰⁰	3156 ⁰⁰
2	6.00	EA	0020 - Flange, companion, ductile iron, threaded for 6 inch steel pipe, o.d. 06.63 in, 150 PSI, Tyler no. 5-750 (0076270)	34 ⁰⁰	204 ⁰⁰
3	3.00	EA	0030 - Valve, gate, 10 in, flanged, cast iron body, bronze mounted, non-rising stem, double disc, open left, handwheel, domestic, epoxy coated, Clow No. F-5070 (0622460)	1970 ⁰⁰	5910 ⁰⁰
4	4.00	EA	0040 - Valve, plug, 6 inch x 10-1/2 inch face to face, flanged, eccentric cast iron body, solid ductile iron plug with nitrile elastomer coating 100 percent port, nickel seat, Milliken no. 601N1FP-AG (0625020)	735 ⁰⁰	2940 ⁰⁰
5	5.00	EA	0050 - Valve, check, 4 inch, 13 inch face to face, flanged, lever and weight, ibbm, bronze disc facing, epoxy coated, stainless steel nuts and bolts, domestic, American Flow no. C504A4H0703PRPR (0621680)	853 ⁰⁰	4265 ⁰⁰
6	3.00	EA	0060 - Valve, check, wafer, 4 in, ductile iron body, external spring and lever, stainless steel hardware, 2-1/4 in face to face, ANSI class 150, ANSI B16.1, Enduro-bond, KF Eagle Series 18 No. 7392-126K419191 (0621920) Stock - r & m l/s	427 ⁰⁰	1281 ⁰⁰

CCNE Model 9001 AWWA Swing Check Valve Outside Lever and Weight or Spring

Model 9001 swing check valves are self-contained, free-swinging disc style with outside lever and weight or outside lever and spring. Valves conform to all standards set forth in AWWA C508, latest edition. These valves feature enlarged hinge pins and upgraded materials of construction set forth for air or oil cushion valves. Suitable for use in wastewater, water, sewage, oil and gas applications. Valves are produced in cast iron body, bronze or stainless steel seat rings, Buna-N or EPDM disc inserts, and hinge pins of corrosion resistant stainless steel. Internal and external epoxy coating conforming to AWWA C550 is a standard. Valves are designed for horizontal or vertical installations and for uninterrupted continuous service. Valves are field convertible to bronze air cushion or oil cushion systems.

Features/Specs

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valve may be installed in vertical line with flow up
- Disc seat standard with Buna-N insert for bubble tight shut off
- Body and disc seat rings are field replaceable
- Meets AWWA C508 standards
- Low zinc bronze or stainless steel seat rings
- Field convertible to air or oil systems
- Valves available in ductile iron (class 125/class 250)
- ANSI B16.1: Cast iron pipe flanges and flanges fittings Class 125
- AWWA C508: Swing check valves for waterworks service, 2" through 24"
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N,
Stainless Steel to Buna-N

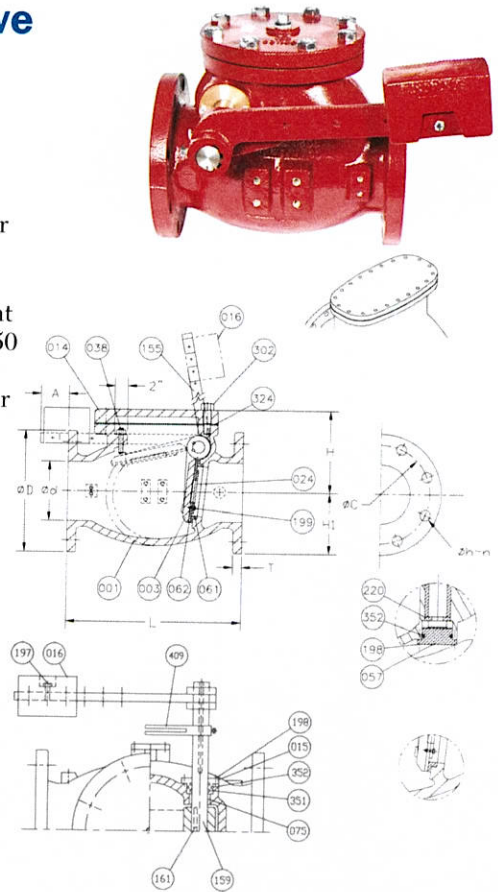
Uses: Water, Sludge, Sewer Service

Test Pressures:	Size	Seat ^o	Shell
	3" - 12"	200psi	400psi
	14" - 72"	150psi	300psi

^orated working pressure

Size Od		ANSI B16.1 CL.125						
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.



NO.	Parts	Material	ASTM Designation
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
057	END PLATE B	DUCTILE IRON	A536 GR.65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	3"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR 65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	CAST IRON	A126 CLASS B

* For reference ONLY. Contact Milliken for detailed sales drawings.



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Bethlehem, PA 18020
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Website: www.millikenvalve.com

Milliken Wafer Check Valve Figure 700



Right hand shown

- Narrow Face-to-Face
- Heavy Duty Cast Iron Body
- 316 Stainless Steel Internals
- Spring Assisted Closure
- Reversible Spring Arm Assembly
- Elastomer Seat in Body
- Unobstructed Round Port
- Disc Position Indicator
- Manual Override Lever
- Economical Alternative

SCOPE OF THE LINE: WAFER CHECK VALVE

SPECIAL: STAINLESS STEEL HARDWARE

Sizes
3" - 12"

Body

The compact wafer body is constructed of ASTM A-126 Class B cast iron. This short face-to-face dimension means less space is required than with traditional flanged swing check valves.

Seat

Numerous "O" ring seat materials are available. Positive retention of the seat is accomplished by the dovetail groove machined in the valve body. This groove reduces the possibility of the "O" ring being displaced from the body while allowing removal and replacement during maintenance.

Packing

Split rings of PTFE packing are employed to prevent leakage through the shaft, and can be adjusted when necessary.

Shaft / Bushings

The one piece 316 stainless steel shaft is supported by two (2) bronze bushings to insure proper alignment of the disc and seat. The design allows the shaft/arm to be field changed to either left or right hand positions.

Disc

A corrosion resistant 316 stainless steel disc is used to reduce the chance of disc failure. Precision machining of the mating surface provides uniform contact between the disc and seat.

Disc Arm

Continuing the concept of 316 stainless steel internals the disc arm is manufactured of 316 stainless steel. The arm is attached to the disc and shaft by use of stainless steel fasteners.

Spring / Arm Assembly

The spring arm assembly provides both positive indication of the disc position as well as serving as a manual override for use in back flushing the system. The spring allows the valve to operate properly even if installed in a vertical line. The spring also permits a predetermined line pressure to be reached prior to the valve opening. Optional weight is available.

Flow

Round unobstructed ports translate to higher flow capabilities than are possible with other types of wafer check valves.

WAFFER CHECK VALVE (FIGURE 700): TECHNICAL SPECIFICATIONS

General

Check valve shall be of the short face-to-face type with external spring to ensure tight shutoff. The pressure rating shall be 200 psi.

Valve Bodies

Valve bodies shall be of ASTM A-126 Class B cast iron. Disc and disc arm shall be of ASTM A-743 Grade CF8M stainless steel.

Valve Shaft

The valve shaft shall be manufactured of ASTM A-276 Grade 316 stainless steel and supported by two (2) SAE 660 bronze bearings. Shaft sealing shall be accomplished by multiple rings of braided PTFE Teflon rings. Packing shall be utilized on each side of the valve.

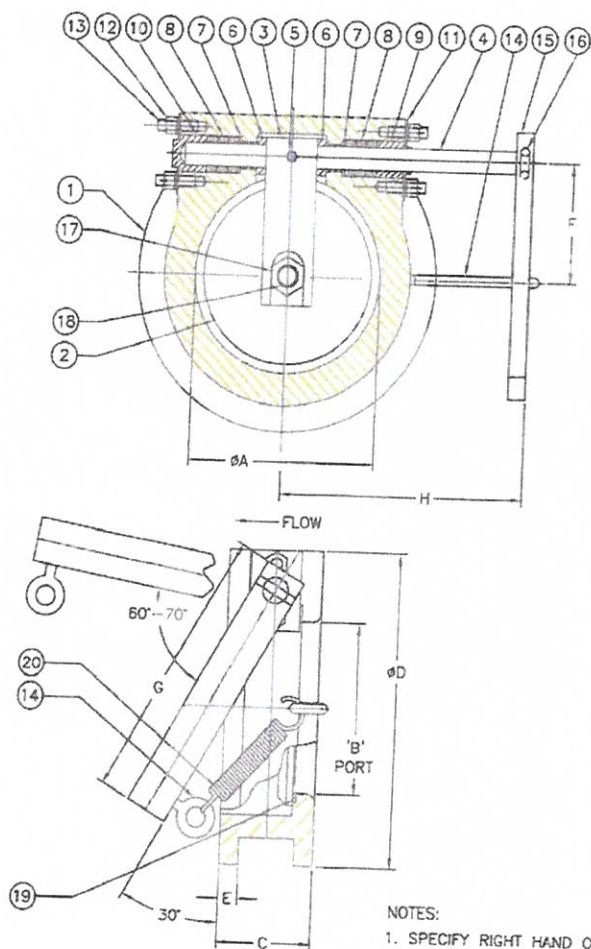
Arm Assembly

The design of the valve shall be such that spring/arm assembly can be field changed from right to left. The closure spring shall be manufactured of ASTM A-228 spring steel. The spring arm shall be constructed of carbon steel ASTM A-36 and designed to provide disc position indication. The spring arm shall be capable of overriding the spring action for use as an override lever.

Valve Seat

The valve seat shall be of specified O-ring material and retained in a dovetail groove in the valve body.

20	1	SPRING	STAINLESS STEEL
19	1	O-RING SEAT	AS SPECIFIED
18	1	THREADED ROD	316 S.S.
17	1	NUT	316 S.S.
16	1	SPRING PIN	STEEL
15	1	SPRING ARM	STEEL ASTM A36
14	2	EYEBOLT	STAINLESS STEEL
13	4	THREADED ROD	STAINLESS STEEL
12	4	NUT	STAINLESS STEEL
11	2	PLATE	STEEL ASTM A36
10	1	BLIND GLAND	BRONZE SAE 660
9	1	PACKING GLAND	BRONZE SAE 660
8	AR	PACKING	P.T.F.E.
7	2	WASHER	BRONZE SAE 660
6	2	BUSHING	BRONZE SAE 660
5	1	S.H. CAP SCREW	316 S.S.
4	1	SHAFT	316 S.S.
3	1	DISC ARM	ASTM A-743 CF8M
2	1	DISC	ASTM A-743 CF8M
1	1	BODY	A126 CL.B IRON
ITEM	QTY.	COMPONENT	MATERIAL/SPEC.



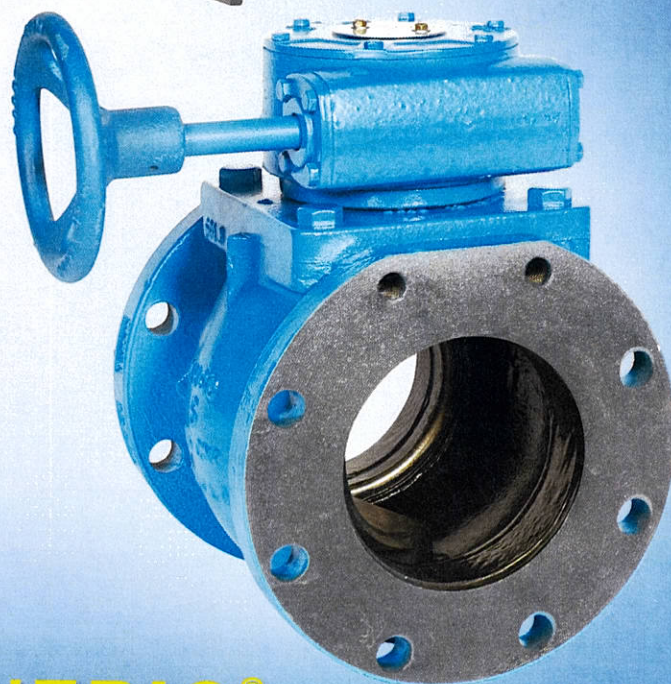
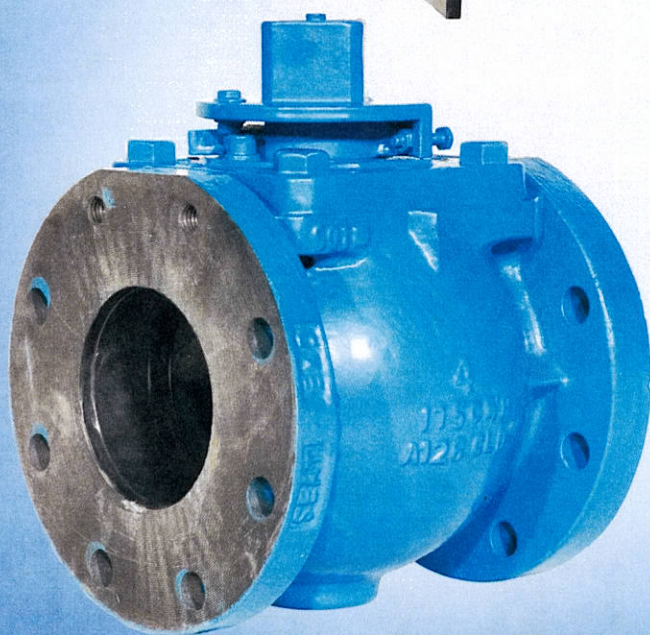
NOTES:

1. SPECIFY RIGHT HAND OR LEFT HAND WHEN ORDERING.
2. RIGHT HAND SHOWN.

SIZE	A	B	C	D	E	F	G	H	WT. LB.
3	2.63	2.06	3.75	5.25	0.50	2.13	3.75	5.00	18
4	3.63	3.03	2.25	6.88	0.44	2.13	7.00	6.00	13
6	5.44	4.75	2.75	8.75	0.56	3.25	7.25	7.13	27
8	7.25	6.44	2.88	11.00	0.63	4.00	8.75	8.06	42
10	8.50	7.63	3.13	13.13	0.88	4.88	11.25	9.50	63
12	10.44	9.50	3.50	16.13	0.88	5.88	13.25	13.88	96

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.

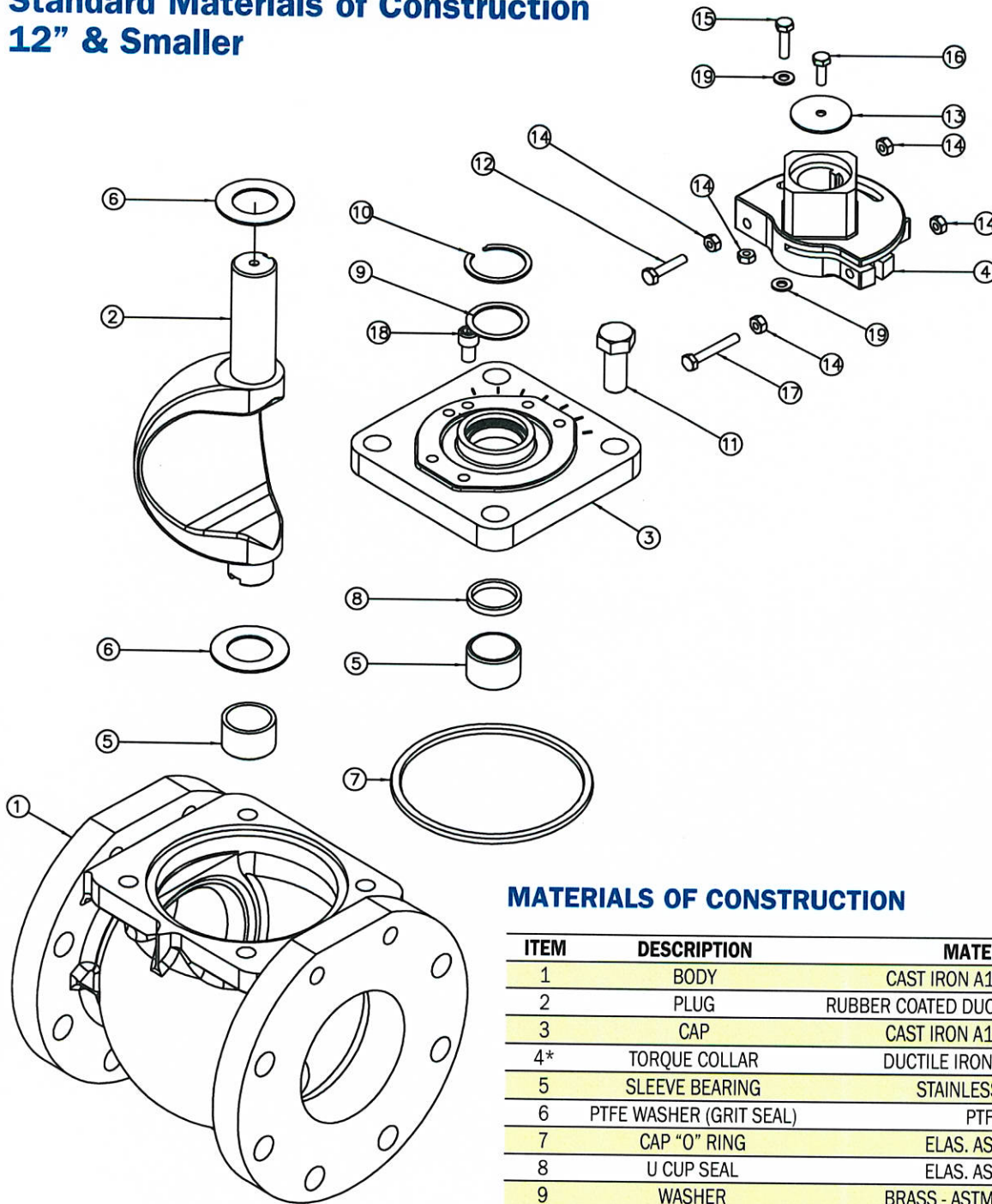
Interchangeable

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 12" & Smaller



MATERIALS OF CONSTRUCTION

ITEM	DESCRIPTION	MATERIAL
1	BODY	CAST IRON A126 CLASS B
2	PLUG	RUBBER COATED DUCT. IRON ASTM A536
3	CAP	CAST IRON A126 CLASS B
4*	TORQUE COLLAR	DUCTILE IRON ASTM A536
5	SLEEVE BEARING	STAINLESS STEEL
6	PTFE WASHER (GRIT SEAL)	PTFE
7	CAP "O" RING	ELAS. AS SPEC.
8	U CUP SEAL	ELAS. AS SPEC.
9	WASHER	BRASS - ASTM B-138-675
10	INTERNAL SNAP RING	SPRING STEEL
11	HEX HEAD BOLT	STEEL (ZINC PLATED)
12*	CLOSED STOP	STEEL (ZINC PLATED)
13*	LOCKING WASHER	STEEL
14*	NUT	STEEL (ZINC PLATED)
15*	OPEN STOP	STEEL (ZINC PLATED)
16*	CAP SCREW	STEEL (ZINC PLATED)
17*	TORQUE BOLT	STEEL (ZINC PLATED)
18*	TRAVEL STOP	STEEL
19*	WASHER	STEEL

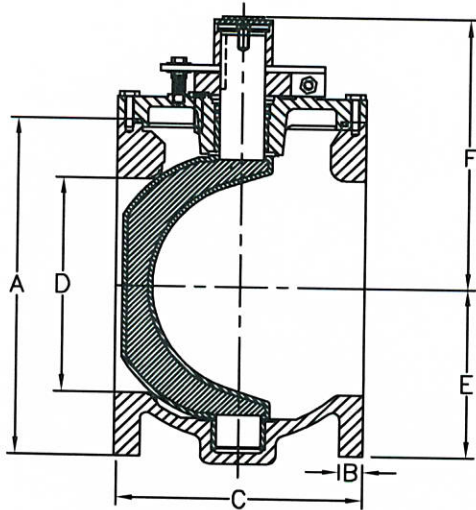
*NOTE: TORQUE COLLAR ASSEMBLY ON 8" AND SMALLER

Dimension Drawing 2.5" - 12"

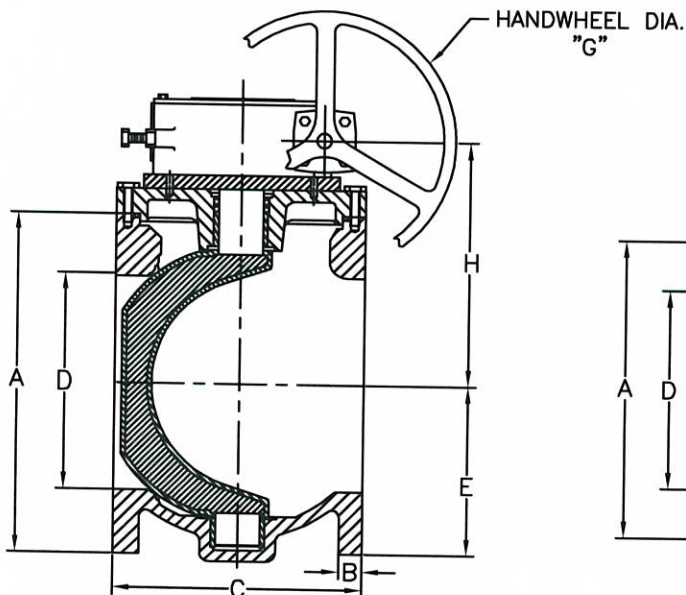
FLANGED END FIG. 601FP

175 PSI

2-1/2" - 8" VALVES ONLY



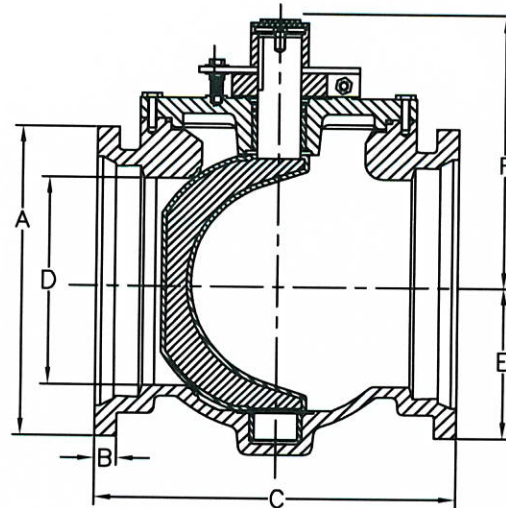
2-1/2" - 12" VALVES



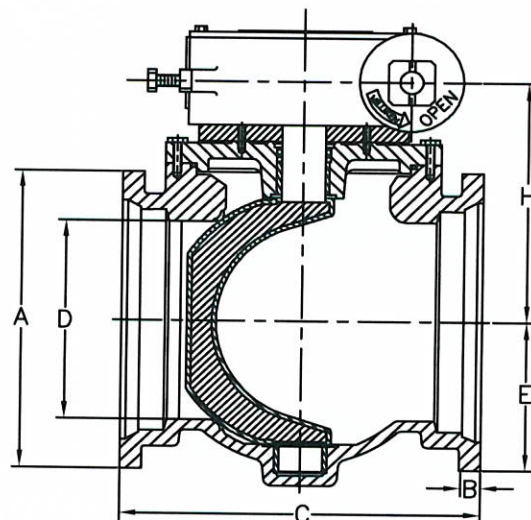
MECHANICAL JOINT END FIG. 600FP

175 PSI

3" - 8" VALVES ONLY



3" - 12" VALVES



FLANGED END - ANSI 125								
SIZE	2.50	3	4	5	6	8	10*	12*
A	7	7.5	9	10	11	13.5	16	19
B	.69	.75	.94	.94	1	1.13	1.19	1.25
C	7.5	8	9	10	10.5	11.5	13	14
D	2.5	3	4	5	6	8	10	12
E	3.5	3.75	4.5	5.75	5.75	7.63	8.88	10
F	6.19	6.19	7.25	8.38	8.38	10.69	-	-
G	6	6	6	6	6	12	12	12
H	5.16	5.16	6.31	7.56	7.56	9.63	11.13	12.81
WEIGHT (APPROX.)	30	40	70	105	115	190	345	440

MECHANICAL JOINT END						
SIZE	3	4	6	8	10*	12*
A	7.69	9.00	11.13	13.38	15.63	17.94
B	.94	1	1.06	1.13	1.19	1.25
C	11.5	14.25	15.75	17.38	19.38	20.75
D	3	4	6	8	10	12
E	3.84	4.50	5.69	7.63	8.88	10
F	6.19	7.25	8.38	10.69	-	-
H	5.16	6.31	7.56	9.63	11.13	12.81
WEIGHT (APPROX.)	50	80	125	200	360	480

*10" & above have gear operators as standard

**Weight includes gear operator

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

Technical Specifications

Full/100% Port Eccentric Plug Valves 2 ½"- 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 ½"-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 2½"-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 2½"-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.