

MILLIKEN[®]



MILLCENTRIC[®] PLUG VALVE

401 S. Highland Avenue
Aurora, IL 60506
phone: 877-655-6858
fax: 630-844-4160
www.millikenvalve.com



Millcentric® Plug Valve

| | |
|---|----|
| Scope of Line | 1 |
| Suggested Specifications..... | 2 |
| Technical Data..... | 3 |
| Standard Materials of Construction, Fig. 601/600, 12" & Smaller..... | 4 |
| Standard Materials of Construction, Fig. 601/600, 14" & Larger | 5 |
| Flanged End, Fig. 601 Cast Iron/611 Ductile Iron 2 1/2" - 12"..... | 6 |
| Mechanical Joint, Fig. 600 Cast Iron/620 Ductile Iron 3" - 12"..... | 7 |
| Flanged End Fig. 601 Cast Iron/611 Ductile Iron and Mechanical Joint End, Fig. 600 Cast Iron/620 Ductile Iron 14" & Larger | 8 |
| Flanged End Fig. 602 Class 250 2 1/2" and Larger..... | 9 |
| Flanged End Rubberlined 3" & Larger | 10 |
| Grooved End, Fig. 606 2 1/2" - 20"..... | 11 |
| Adaption | 12 |
| Technical Specification Series 601/600 Cast Iron Valves..... | 13 |
| Technical Specification Series 602 Class 250 Valves..... | 14 |
| Technical Specification Rubberlined Valves..... | 15 |
| Technical Specification Series 601S Stainless Steel Valves..... | 16 |
| Technical Specification Series 611 Ductile Iron Valves..... | 17 |
| Technical Specification Glass Lined Valves | 18 |

Scope of Line

The Milliken® criteria of quality, reliability, safety and value are embodied in the Millcentric® plug 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 C517 wall thickness, the Millcentric plug valve body casting is in ASTM A126 CL B cast iron using high pressure molding techniques. Alternative flanged, grooved or mechanical joint ends are available.

Flange diameter, thickness and drilling conform to ANSI B16.1 Class 125 or 250.

Grooved ends meet AWWA C-606 for ductile or steel pipe. Mechanical joints to AWWA C111 (ANSI A21.11).

Seat

The Millcentric plug 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 316 grade 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 on 2 1/2" – 48" and vulcanized on 54" and larger 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 port design (round on 2 1/2" – 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.

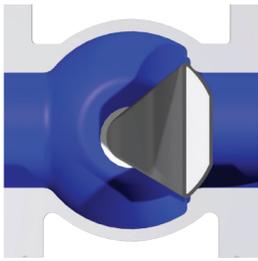
Interchangeable

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

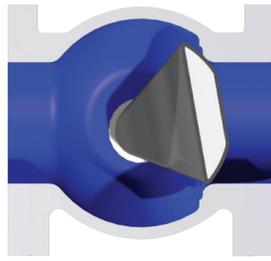
Travel Stops

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

Suggested Specifications



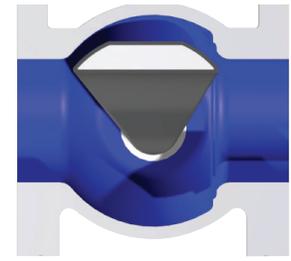
- Valve in closed position for bubble tight shut-off
- Normal flow direction gives pressure assisted sealing
- Torques are low even in reverse flow



- Plug rotates away from the seat for instant opening
- Seat wear and operating torque reduced
- No further seat contact until valve is closed again



- Design of Millcentric® plug valve allows modulating control over the full 90° travel
- Ideally suited for balancing service
- Standard rotary valve provides control and tight shut off in one valve



- Plug is out of flow path when fully open
- Straight through, uninterrupted smooth flow
- Round port reduces turbulence and erosion, lowers pumping costs and can be "pigged" to clean the pipeline

Installation

The Millcentric® plug valve is suitable for flow and shut-off in either direction. Seat end downstream is the preferred orientation and any reverse flow requirement should be stated at the time of order. For use on fluids with suspended solids, it is recommended that the valve should be installed with the seat upstream and the valve stem horizontal with plug rotation to the top of the valve ensuring smooth operation.

In-Line Maintenance

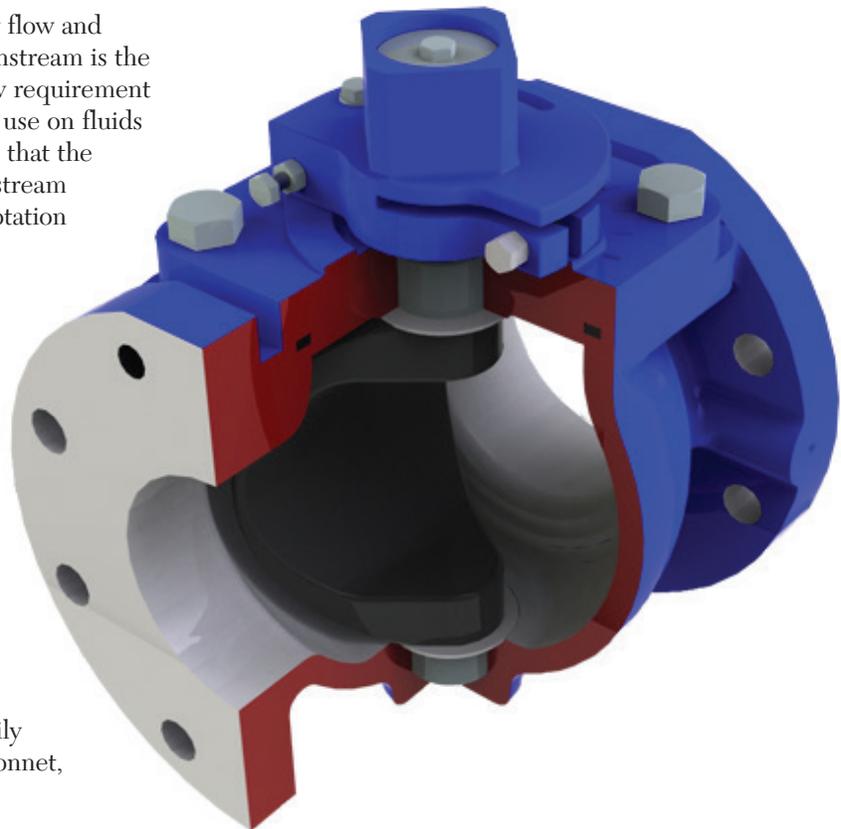
In the unlikely event of stem leakage, the stem seals can be easily replaced without removing the bonnet. Access to the body for cleaning or inspection does not require removal from the line.

Modular Construction

Design of the bonnet and stem allows for on-site adaption of gear operators, power actuators, or extension devices on to standard valves. Conversion can be easily undertaken without removing the valve bonnet, thereby minimizing downtime.

Power Operation

Pneumatic, electric or hydraulic operation is available, complete with accessories such as limit switches, solenoid valves and positioners when required.



ORDERING INFORMATION

Valve Types

| | Designation |
|---|-------------|
| Mechanical Joint Cast Iron | 600 |
| Mechanical Joint Ductile Iron | 620 |
| ANSI 125 Flanged Cast Iron Flat Face | 601 |
| ANSI 125 Flanged Ductile Iron Flat Face | 611 |
| ANSI 150 Flanged Ductile Iron Raised Face | 621 |
| ANSI 250 Flanged Ductile Iron Raised Face | 602 |
| ANSI 125 Grooved for Steel Pipe | 606S |
| ANSI 125 Grooved for Ductile Pipe | 606D |
| ANSI 150 Flanged 316SS | 601S |

SEAT

| | |
|---------------------------------------|----|
| Nickel (3" & Larger) | N |
| Epoxy (2½" ONLY) | E |
| 316SS (on stainless steel valve only) | S |
| Rubberlined | RL |
| Glasslined | GL |

ELASTOMER TRIM

| | |
|--------------|---|
| EPDM | 0 |
| Buna-Nitrile | 1 |
| Viton | 2 |
| Neoprene | 3 |
| Natural | 4 |

MANUAL OPERATORS

| | |
|---------------------------------|-------|
| Above Ground Gear and Handwheel | AGHW |
| Above Ground Gear with 2" Nut | AGNUT |
| Buried Gear with 2" Nut | BG |
| Memory Stop Gear with Handwheel | MGHW |
| Lever / Wrench (8" & smaller) | L |
| Direct Nut (8" & smaller) | TC |

Example: 4" 601N3AGHW = 4" ANSI 125 Flanged, Nickel Seat, Neoprene plug with Above Ground Gear and Handwheel

Valves are only tested for bi-directional shut-off if specified at time of order. Contact factory for bi-directional ratings.

NOTE: We recommend mechanical joint or buried flanged valves to have gear operators

NOTE: We recommend valves for bi-directional service to have gear operators

PRESSURE RATING

| | | |
|--|----------|---------|
| 12" and smaller | ANSI 125 | 175 psi |
| 14" and larger | ANSI 125 | 150 psi |
| 14" and larger | ANSI 150 | 235 psi |
| 20" and smaller | ANSI 150 | 285 psi |
| 12" and smaller | ANSI 250 | 400 psi |
| 14" and larger | ANSI 250 | 300 psi |
| Body Hydrotest = 150% of rated pressure / Seat Test = 100% of rated pressure Testing per AWWA C517 | | |

ELASTOMERS AVAILABLE FOR MILLCENTRIC® PLUG VALVE

Natural rubber is also available.

Nitrile

A general purpose material sometimes referred to as BUNA-N or HYCAR with a -20°F to 212°F temperature range. Used on sewage, water, hydrocarbon and mineral oils.

EPDM

An excellent polymer for use on chilled water through to LP steam applications having a temperature range of -35°F to 250°F. Resistance to many acids, alkalies, detergents, phosphate esters, alcohols and glycols is an added benefit.

Neoprene

This versatile material shows outstanding resistance to abrasion and ozone. Chemical resistance to a wide range of petroleum base products and dilute acids and alkalies. Temperature range -20°F to 225°F.

Viton

Retention of mechanical properties at high temperature is an important feature of this elastomer: temperature range is -10°F to 300°F. It also has excellent resistance to oils, fuels, lubricants and most mineral acids and aromatic hydrocarbons.

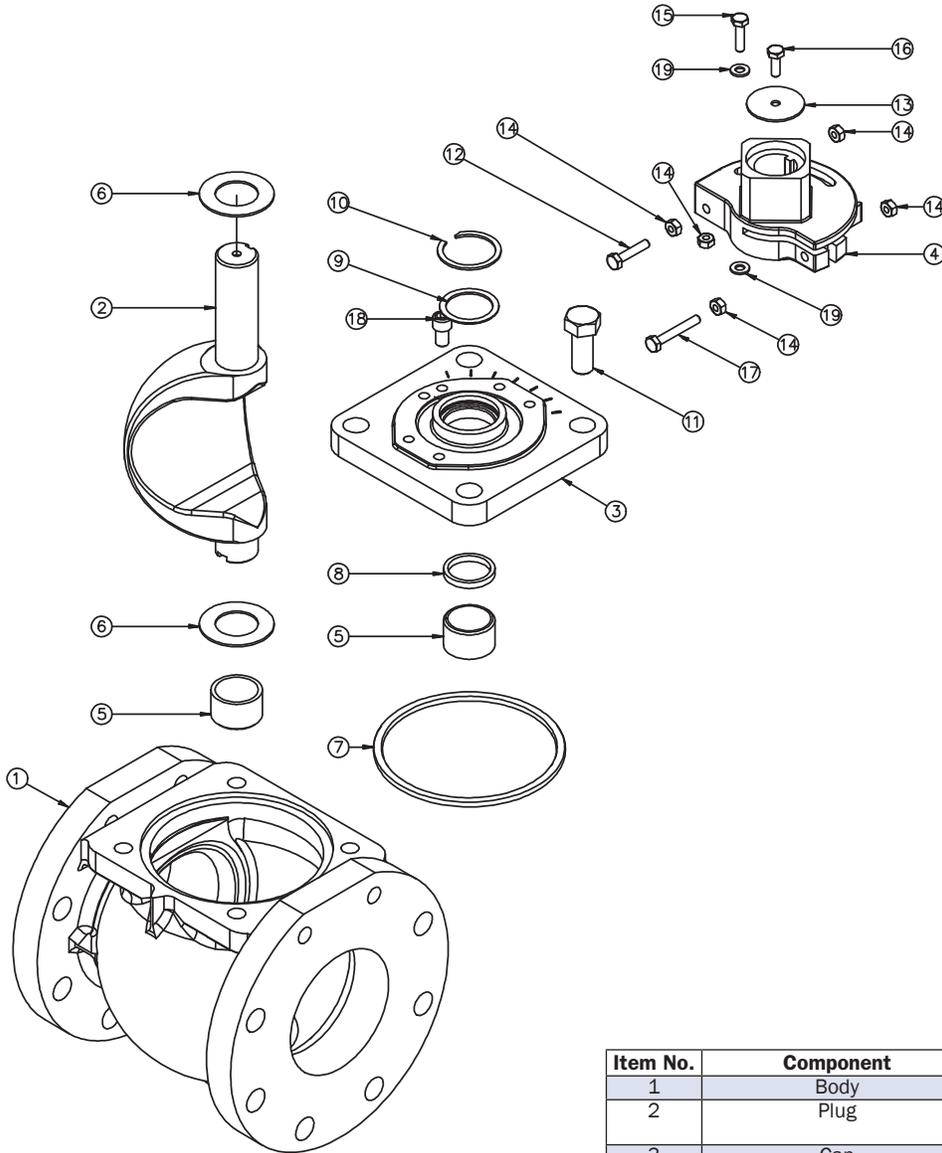
Note: Not for water or steam applications.

Elastomer Selection Chart

| Service | Elastomer | Average Useful Temp. Range | Service | Elastomer | Average Useful Temp. Range | Service | Elastomer | Average Useful Temp. Range |
|------------------------|-----------|----------------------------|--------------------------|-----------|----------------------------|------------------------|-----------|----------------------------|
| Acetone | EPDM | -35°F to 250°F | Cement Slurry | EPDM | -35°F to 250°F | Oil, Animal | Nitrile | -20°F to 212°F |
| Alcohol AMYL | EPDM | 0°F to 212°F | Copper Sulphate | EPDM | -35°F to 250°F | Oil, Mobil Therm Light | Viton | 10°F to 250°F |
| Alcohol Aromatic | Viton | 10°F to 250°F | Creosote (Coal) | Nitrile | -20°F to 212°F | Oil, Mobil Therm 600 | Viton | 10°F to 250°F |
| Alcohol Butyl | Neoprene | -20°F to 225°F | Coal Slurry | Nitrile | -20°F to 212°F | Oil, Mobil Therm 603 | Nitrile | -20°F to 212°F |
| Alcohol Denatured | Nitrile | -20°F to 212°F | Diesel Fuel No. 3 | Nitrile | -20°F to 212°F | Oil, Lubricating | Nitrile | -20°F to 212°F |
| Alcohol Ethyl | EPDM | -20°F to 250°F | Diethylene Glycol | EPDM | -35°F to 250°F | Oil, Vegetable | Nitrile | -20°F to 212°F |
| Alcohol Grain | Nitrile | -20°F to 212°F | Ethylene Glycol | EPDM | -35°F to 250°F | Paint, Latex | Nitrile | -20°F to 212°F |
| Alcohol Isopropyl | Neoprene | -20°F to 225°F | Fatty Acid | Nitrile | -20°F to 212°F | Phosphate Ester | EPDM | -35°F to 250°F |
| Alcohol Methyl | EPDM | -20°F to 250°F | Fuel Oil No. 2 | Nitrile | -20°F to 212°F | Propane | Nitrile | -20°F to 212°F |
| Ammonia Anhydrous | Neoprene | -20°F to 225°F | Fertilizer Liquid H4N2O2 | EPDM | -35°F to 250°F | Rape Seed Oil | EPDM | -35°F to 250°F |
| Ammonium Nitrate | EPDM | -20°F to 250°F | Gasoline Keg | Nitrile | -20°F to 212°F | Sewage with Oils | Nitrile | -20°F to 212°F |
| Ammonia, water | EPDM | -20°F to 250°F | Gas Natural | Nitrile | -20°F to 212°F | Sodium Hydroxide 20% | EPDM | -35°F to 250°F |
| Animal Fats | Nitrile | -20°F to 212°F | Glue, Animal | Nitrile | -20°F to 212°F | Starch | EPDM | -35°F to 250°F |
| Black Liquor | EPDM | -20°F to 250°F | Green Liquor | EPDM | -20°F to 212°F | Steam to 250°F | EPDM | -35°F to 250°F |
| Blast Furnace Gas | Neoprene | -20°F to 225°F | Hydraulic Oil (Petro) | Nitrile | -20°F to 212°F | Stoddard, Solvent | Nitrile | -20°F to 80°F |
| Butane | Nitrile | -20°F to 212°F | Hydrogen | Nitrile | -20°F to 212°F | Sulphuric Acid 10% 50% | Neoprene | -20°F to 158°F |
| Bunker Oil "C" | Nitrile | -20°F to 212°F | JF4, JP5 | Viton | -20°F to 212°F | Sulphuric Acid 100% | Viton | 10°F to 300°F |
| Calcium Chloride | EPDM | -20°F to 250°F | Kerosene | Nitrile | 0°F to 212°F | Trichloroethylene Dry | Viton | 10°F to 300°F |
| Carbon Dioxide | EPDM | -20°F to 250°F | Ketone | EPDM | -35°F to 250°F | Triethanol Amine | EPDM | -35°F to 250°F |
| Carbon Monoxide (Cold) | Neoprene | -20°F to 150°F | Lime Slurry | EPDM | -35°F to 250°F | Varnish | Viton | 10°F to 300°F |
| Carbon Monoxide (Hot) | Viton | 10°F to 300°F | Methane | Nitrile | -20°F to 212°F | Water, Fresh | EPDM | -35°F to 250°F |
| Carbon Tetrachloride | Viton | 10°F to 300°F | Methyl Ethyl Ketone | EPDM | -35°F to 250°F | Water, Salt | EPDM | -35°F to 250°F |
| Caustic Soda | EPDM | -35°F to 250°F | Naptha (Berzin) | Nitrile | -20°F to 212°F | Xylene | Viton | 10°F to 300°F |

NOTE: Above elastomer/temperature chart are guidelines only. Contact factory for specific applications.

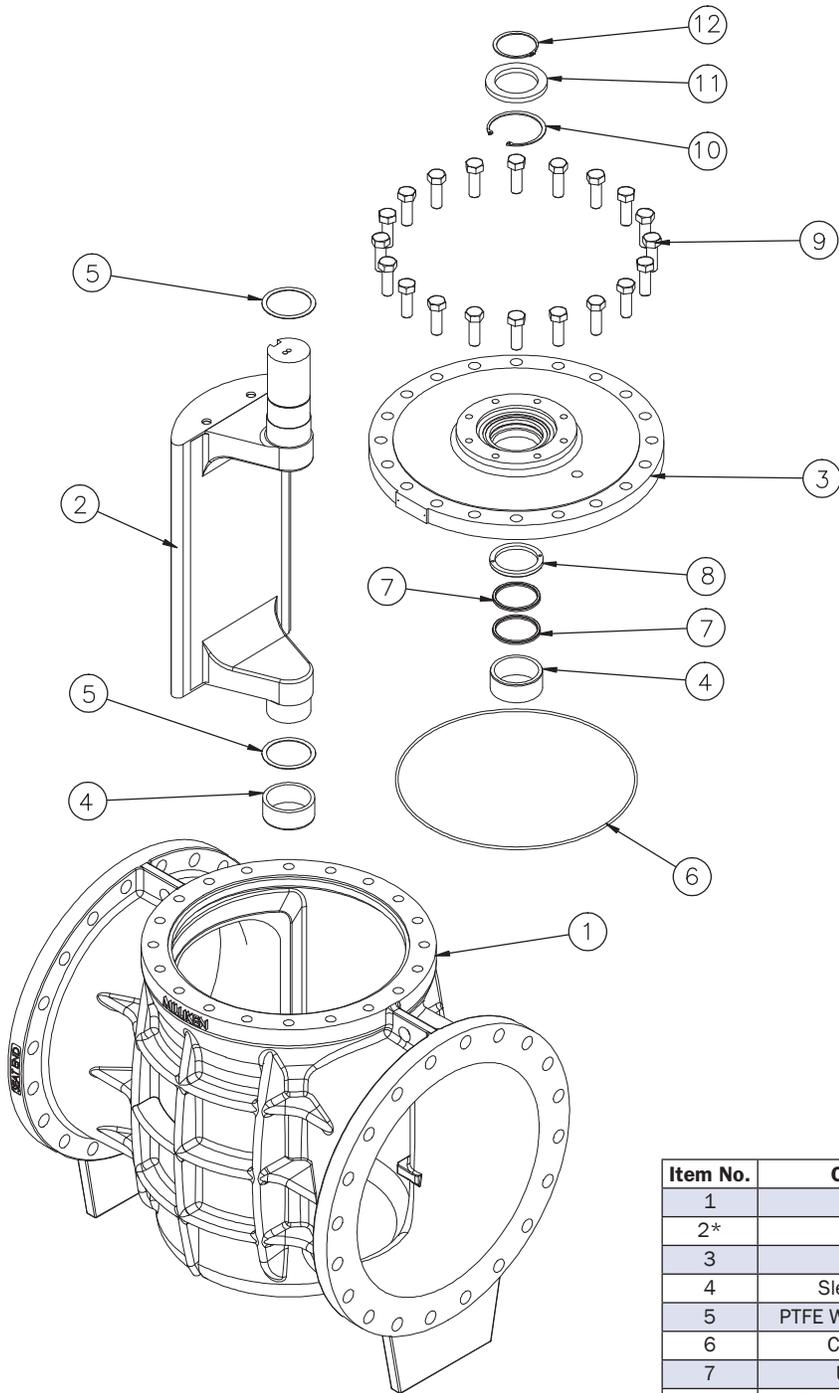
Standard Materials of Construction, Fig. 601/600, 12" & Smaller



| Item No. | Component | Material |
|----------|-------------------------|---|
| 1 | Body | Cast Iron A126 Class B |
| 2 | Plug | Rubber Coated Ductile Iron ASTM A536 |
| 3 | Cap | Cast Iron A126 Class B |
| 4 | Torque Collar | Ductile Iron ASTM A536 |
| 5 | Journal Bearing | St. Steel – ANSI 316 |
| 6 | PTFE Washer (Grit Seal) | PTFE |
| 7 | 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 | Setscrew | 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* | Setscrew | Steel (Zinc Plated) |
| 17* | Torque Bolt | Steel (Zinc Plated) |
| 18* | Travel Stop | Steel |
| 19* | Washer | Steel |

*NOTE: Torque Collar Assembly on 8" and Smaller

Standard Materials of Construction, Fig. 601/600, 14" & Larger



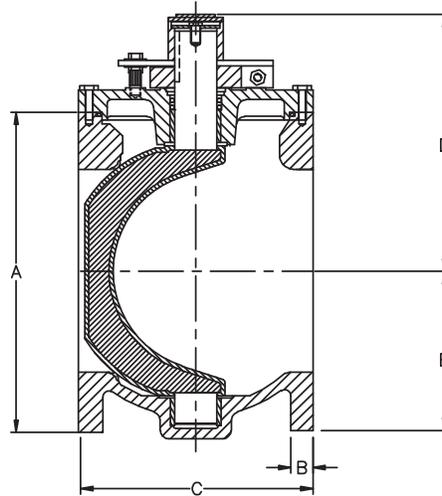
| Item No. | Component | Material | Qty. |
|----------|-------------------------|--------------------------|------|
| 1 | Body | Cast Iron A126 Class B | 1 |
| 2* | Plug | Rubber Coated See Note 1 | 1 |
| 3 | Cap | Cast Iron A126 Class B | 1 |
| 4 | Sleeve Bearing | Stainless Steel/Bronze | 2 |
| 5 | PTFE Washer (Grit Seal) | PTFE | 2 |
| 6 | Cap "O" Ring | Elas. as Spec. | 1 |
| 7 | U Cup Seal | Elas. as Spec. | 2 |
| 8* | Seal Retaining Ring | See Note 2 | 1 |
| 9 | Cap Screw | Steel (Zinc Plated) | A/R |
| 10 | Internal Snap Ring | Spring Steel | 1 |
| 11 | Support Collar | Steel | 1 |
| 12 | External Snap Ring | Spring Steel | 1 |

*NOTE 1: Plugs: Ductile Iron – ASTM A536 on 14" – 20"
Cast Iron – A126 Class B on 24" and larger

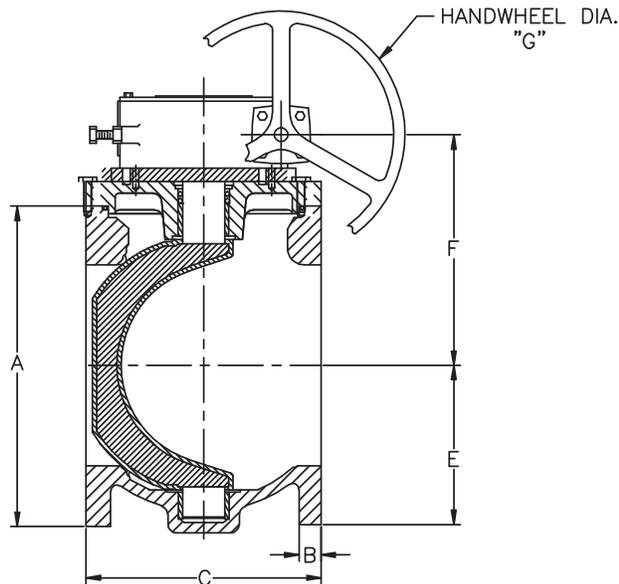
*NOTE 2: Seal Retaining Ring: Brass – ASTM B-138-675 on 14" – 20"
Steel on 24" and larger

**Fig. 601 Cast Iron / 611 Ductile Iron – Flanged End (175 PSI)/
621 Ductile Iron - Raised Face (285 PSI) 2½" – 12"**

2½" – 8" VALVES ONLY



2½" – 12" VALVES



| FLANGED END — ANSI 125 | | | | | | | | |
|------------------------|------|------|------|-------|-------|-------|-------|-------|
| SIZE | 2.50 | 3 | 4 | 5 | 6 | 8 | 10* | 12* |
| A | 7.00 | 7.50 | 9.00 | 10.00 | 11.00 | 13.50 | 16.00 | 19.00 |
| B | .69 | .75 | .94 | .94 | 1.00 | 1.13 | 1.19 | 1.25 |
| C | 7.50 | 8.00 | 9.00 | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| D | 6.19 | 6.19 | 7.25 | 8.38 | 8.38 | 10.69 | — | — |
| E | 3.50 | 3.75 | 4.50 | 5.75 | 5.75 | 7.63 | 8.88 | 10.00 |
| F | 5.35 | 5.35 | 6.31 | 7.56 | 7.56 | 9.63 | 11.13 | 12.81 |
| G | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 12.00 | 12.00 | 12.00 |
| WEIGHT (approx.) | 30 | 40 | 70 | 105 | 115 | 190 | 345** | 440** |

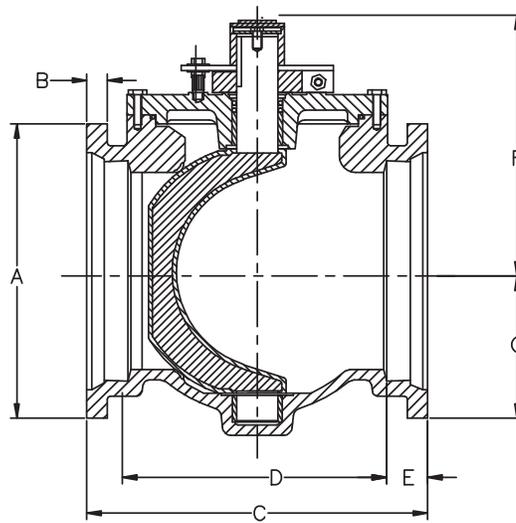
*10" & above have gear operators as standard

**Weight includes gear operator

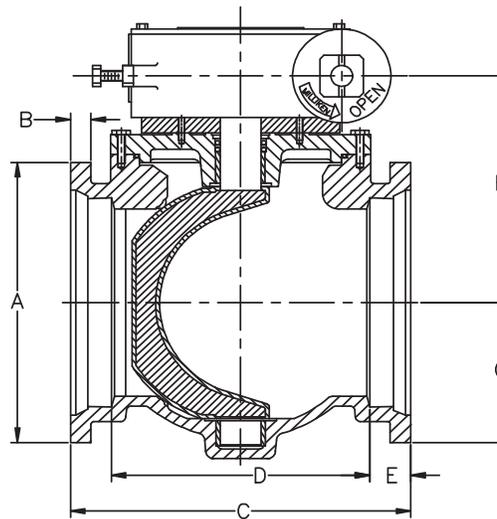
NOTE: Drawings are for information purposes only; please request certified drawings before preparing piping diagrams

Fig. 600 Cast Iron (175 PSI)/620 Ductile Iron (285 PSI) – Mechanical Joint 3" – 12"

3" – 8" VALVES ONLY



3" – 12" VALVES



| 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 | 1.00 | 1.06 | 1.13 | 1.19 | 1.25 |
| C | 11.50 | 14.25 | 15.75 | 17.38 | 19.38 | 20.75 |
| D | 6.00 | 9.25 | 10.75 | 12.39 | 14.39 | 15.75 |
| E | 2.75 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| F | 6.19 | 7.25 | 8.38 | 10.69 | — | — |
| G | 3.84 | 4.50 | 5.56 | 6.69 | 7.81 | 8.97 |
| H | 5.16 | 6.31 | 7.56 | 9.63 | 11.13 | 12.81 |
| WEIGHT (approx.) | 50 | 80 | 125 | 200 | 360** | 480** |

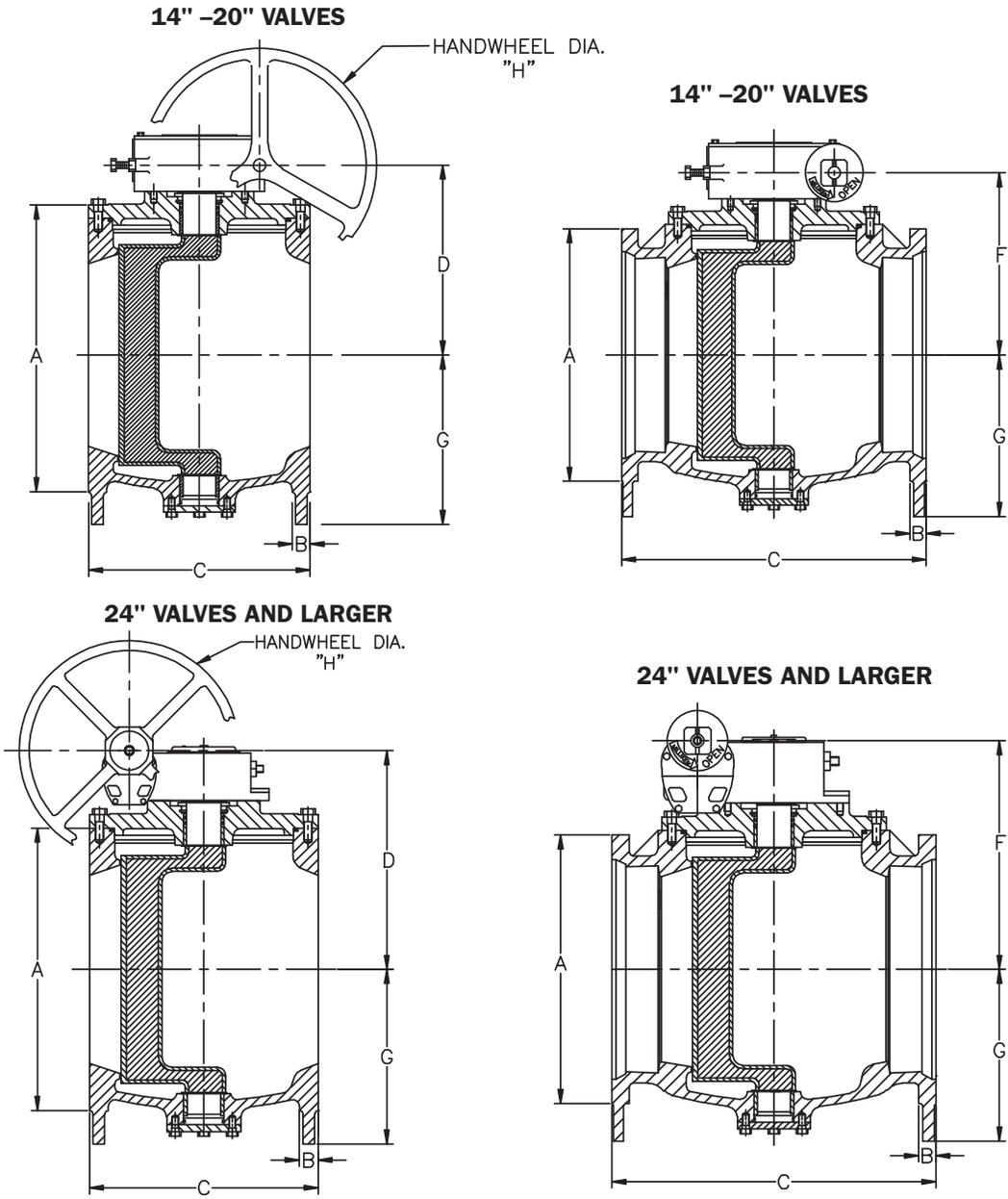
*10" & above have gear operators as standard

**Weight includes gear operator

We recommend gears on all Mechanical Joint Valves

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

Fig. 601 Cast Iron/611 Ductile Iron Flanged End (150 PSI)
Fig. 600 (150 PSI)/620 (250 PSI) Ductile Iron Mechanical Joint End
14" & Larger



| FLANGED END — ANSI 125 | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIZE | 14 | 16 | 18 | 20 | 24 | 30 | 36 | 42 | 48 | 54 |
| A | 21.00 | 23.50 | 25.00 | 27.50 | 32.00 | 38.75 | 46.00 | 53.00 | 59.00 | 66.25 |
| B | 1.38 | 1.44 | 1.56 | 1.69 | 1.88 | 2.13 | 2.38 | 2.63 | 2.75 | 3.00 |
| C | 17.00 | 17.75 | 21.50 | 23.50 | 42.00 | 51.00 | 60.00 | 72.00 | 84.00 | 96.00 |
| D | 14.56 | 15.81 | 16.36 | 17.63 | 25.13 | 29.00 | 33.51 | 33.88 | 39.57 | 50.86 |
| G | 13.00 | 14.00 | 15.00 | 16.00 | 21.62 | 24.43 | 29.00 | 29.00 | 36.00 | 36.00 |
| H | 18.00 | 18.00 | 18.00 | 18.00 | 24.00 | 24.00 | 24.00 | 30.33 | 30.00 | 30.00 |
| WEIGHT (approx.) | 905 | 1030 | 1355 | 1880 | 3800 | 5200 | 6950 | 10160 | 13350 | 15100 |

| MECHANICAL JOINT END | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIZE | 14 | 16 | 18 | 20 | 24 | 30 | 36 | 42 | 48 |
| A | 20.13 | 22.56 | 24.84 | 27.06 | 31.50 | 39.13 | 46.00 | 53.13 | 60.00 |
| B | 1.31 | 1.38 | 1.43 | 1.50 | 1.62 | 1.68 | 2.00 | 2.00 | 2.00 |
| C | 24.50 | 27.25 | 29.25 | 31.00 | 42.00 | 51.00 | 60.00 | 72.00 | 84.00 |
| F | 14.56 | 15.81 | 16.36 | 17.63 | 25.13 | 29.00 | 33.51 | 33.88 | 39.57 |
| G | 13.00 | 14.00 | 15.00 | 16.00 | 21.62 | 24.75 | 29.00 | 29.00 | 36.00 |
| WEIGHT (approx.) | 905 | 1030 | 1355 | 1880 | 3800 | 5200 | 6950 | 10160 | 13350 |

Mechanical Joint Valves Meet ANSI 21.11 & AWWA C-111

Flanged Valves Meet ANSI B16.1

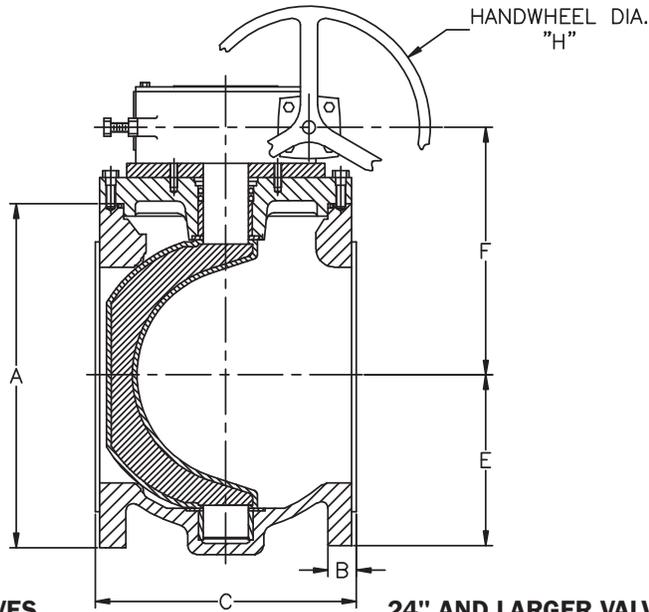
Weight includes gear operator

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

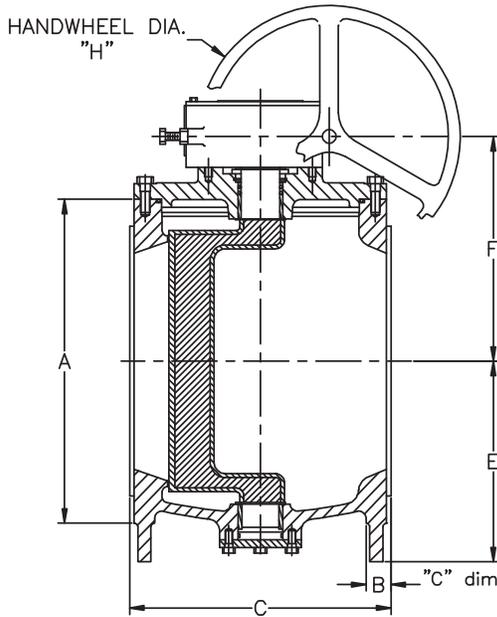
NOTE: Dimensions on 60" and larger available upon request.

Fig. 602 Class 250 Raised Flanged End 2½" – 12", 400 PSI, 14" – 36", 300 PSI

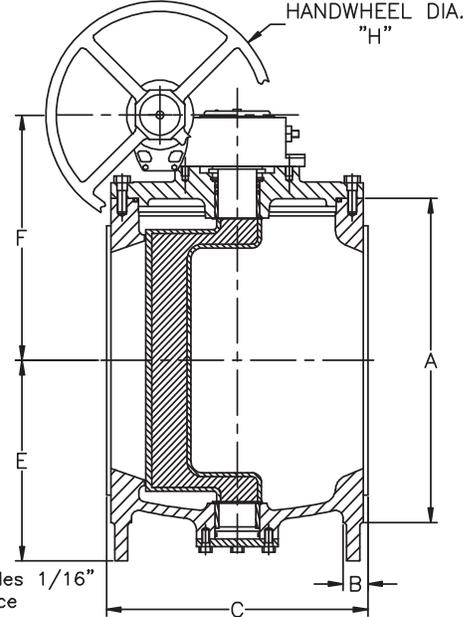
2½" – 12" VALVES



14" – 20" VALVES



24" AND LARGER VALVES



FLANGED END — ANSI 250

| SIZE | 2.50 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
|-------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 7.50 | 8.25 | 10.00 | 11.00 | 12.50 | 15.00 | 17.50 | 20.50 | 23.00 | 25.50 | 28.00 | 30.50 | 36.00 | 43.00 | 50.00 |
| B | 1.06 | 1.13 | 1.25 | 1.38 | 1.44 | 1.63 | 1.88 | 2.00 | 2.12 | 2.25 | 2.38 | 2.50 | 2.75 | 3.00 | 3.38 |
| C | 9.50 | 11.13 | 12.00 | 15.00 | 15.88 | 16.50 | 18.00 | 19.75 | 18.50 | 19.38 | 23.13 | 25.00 | 42.88 | 51.88 | 61.00 |
| E | 3.50 | 3.75 | 4.50 | 5.75 | 5.75 | 17.63 | 8.88 | 10.00 | 13.00 | 14.00 | 15.00 | 16.00 | 21.62 | 24.75 | 29.00 |
| F | 5.16 | 5.16 | 6.31 | 7.56 | 7.56 | 9.63 | 11.13 | 12.81 | 14.56 | 15.81 | 16.36 | 17.63 | 22.81 | 27.59 | 33.00 |
| H | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 12.00 | 12.00 | 12.00 | 18.00 | 18.00 | 18.00 | 18.00 | 24.00 | 24.00 | 24.00 |
| WEIGHT (approx.) | 70 | 80 | 120 | 162 | 170 | 275 | 398 | 590 | 980 | 1125 | 1830 | 2060 | 4160 | 5700 | 7670 |

All above have gear operators as standard

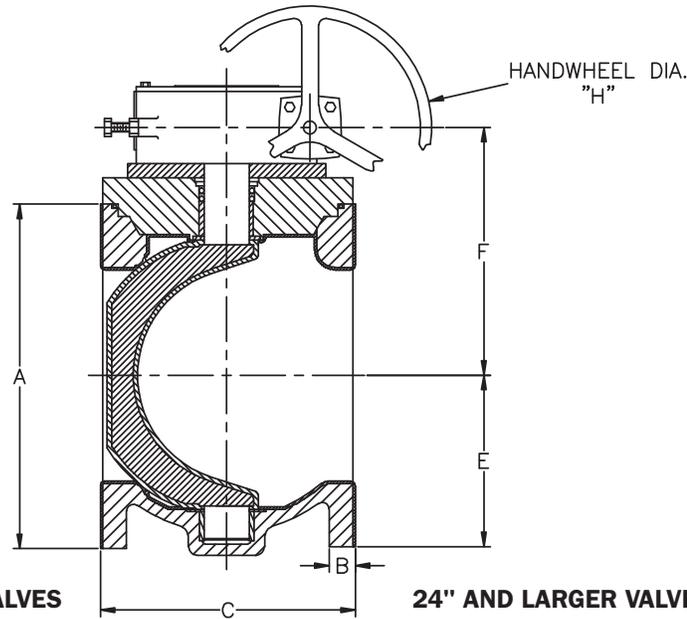
Weight includes gear operator

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

NOTE: Dimensions on 42" and larger available upon request

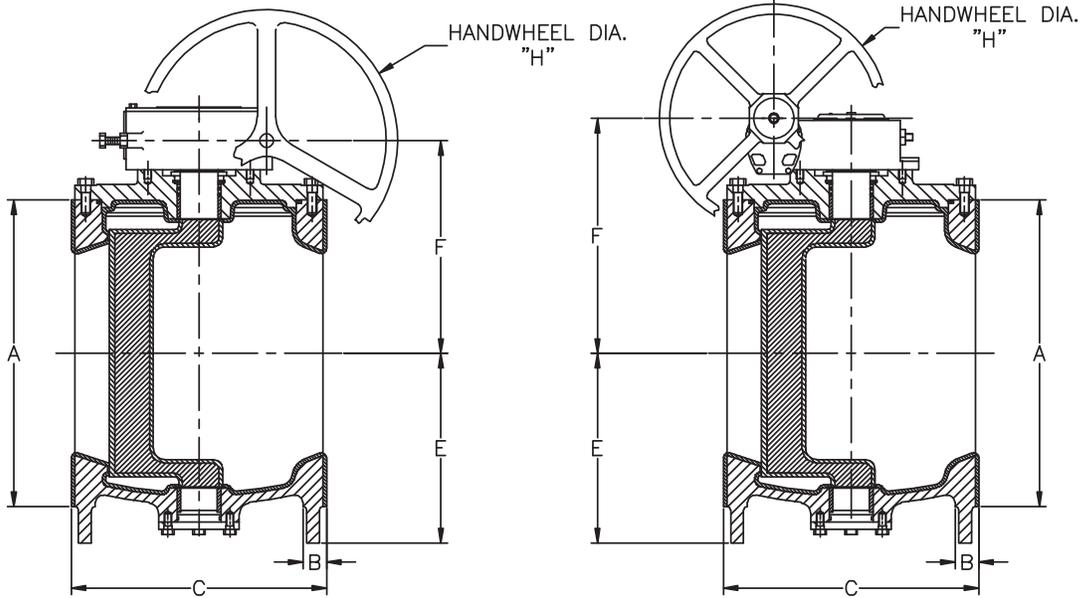
Rubberlined – Flanged End 3" – 12", 175 PSI, 14" & Larger, 150 PSI

3" – 12" VALVES



14" – 20" VALVES

24" AND LARGER VALVES



| FLANGED END — ANSI 125 RUBBER LINED | | | | | | | | | | | | | | | |
|-------------------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SIZE | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 | 42 |
| A | 7.50 | 9.00 | 10.00 | 11.00 | 13.50 | 16.00 | 19.00 | 21.00 | 23.25 | 25.00 | 27.50 | 32 | 38.75 | 46.00 | 53.00 |
| B | .88 | 1.07 | 1.07 | 1.13 | 1.26 | 1.32 | 1.38 | 1.26 | 2.25 | 2.38 | 2.50 | 2.75 | 3.00 | 3.38 | 3.38 |
| C | 8.25 | 9.25 | 10.25 | 10.75 | 11.75 | 13.25 | 14.25 | 17.25 | 18.00 | 21.75 | 23.75 | 42.25 | 51.25 | 60.25 | 72.25 |
| E | 3.75 | 4.50 | 7.75 | 7.75 | 7.63 | 8.88 | 10.00 | 13.00 | 14.00 | 15.00 | 16.00 | 21.63 | 24.75 | 29.00 | 29.00 |
| F | 5.16 | 6.31 | 7.56 | 7.56 | 9.63 | 11.13 | 12.81 | 14.56 | 15.81 | 16.36 | 17.63 | 25.13 | 29.00 | 33.51 | 33.88 |
| H | 6.00 | 6.00 | 6.00 | 6.00 | 12.00 | 12.00 | 12.00 | 18.00 | 18.00 | 18.00 | 18.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| WEIGHT (approx.) | 70 | 100 | 135 | 145 | 240 | 345 | 440 | 905 | 1030 | 1355 | 1880 | 3800 | 5200 | 6940 | 10160 |

All above have gear operators as standard

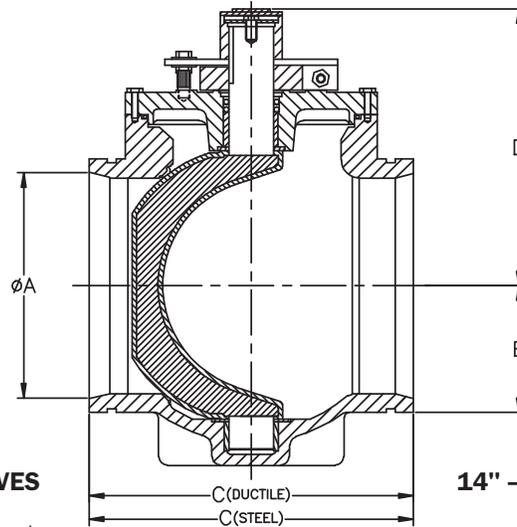
Weight includes gear operator

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

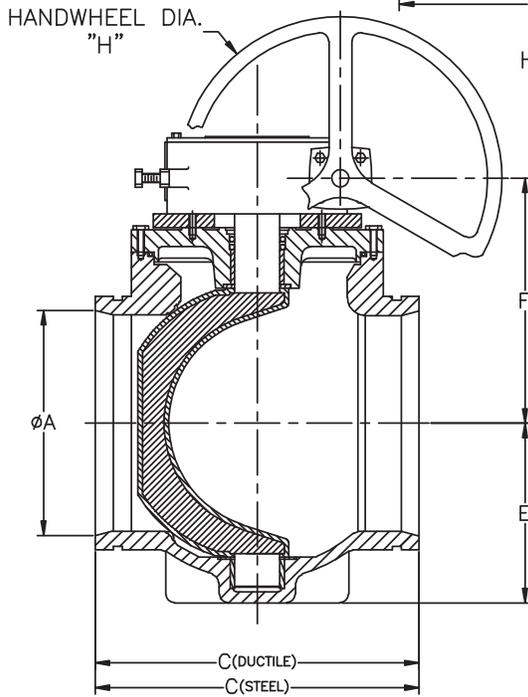
NOTE: Dimensions on 48" and larger available upon request

Fig. 606 Grooved End 2½" – 12", 175 PSI, 14" – 20", 150 PSI

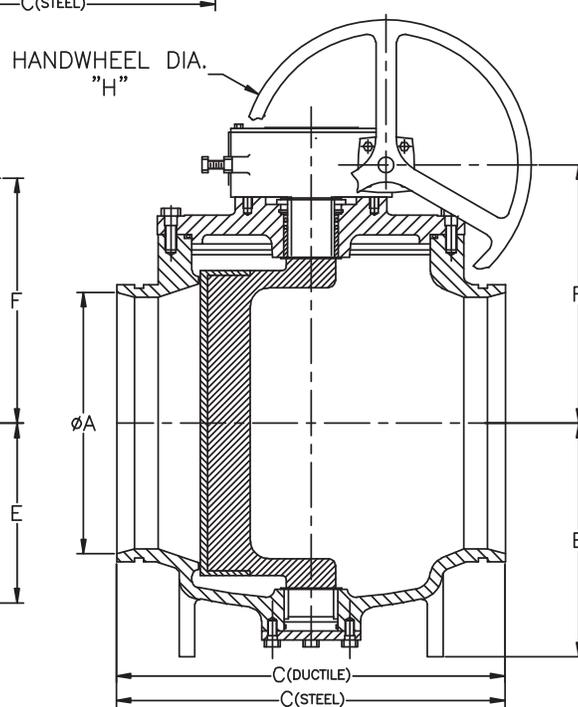
2½" – 8" VALVES



2½" – 12" VALVES



14" – 20" VALVES



GROOVED END — AWWA 606

| SIZE | 2.50 | 3 | 4 | 5 | 6 | 8 | 10* | 12* | 14* | 16* | 18* | 20* |
|-------------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 2.50 | 3.00 | 4.00 | 5.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 15.25 | 16.19 | 18.06 |
| C (Duct.) | N/A | 9.06 | 10.25 | N/A | 12.50 | 14.00 | 16.56 | 18.00 | 21.63 | N/A | 27.50 | 30.00 |
| C (Steel) | 7.13 | 8.50 | 10.13 | 12.38 | 12.38 | 13.88 | 16.44 | 17.88 | 21.63 | 22.50 | 27.50 | 30.00 |
| D | 6.19 | 6.19 | 7.25 | 8.38 | 8.38 | 10.69 | — | — | — | — | — | — |
| E | 3.50 | 3.75 | 4.50 | 5.75 | 5.75 | 7.63 | 8.88 | 10.00 | 10.00 | 14.00 | 15.00 | 16.00 |
| F | 5.16 | 5.16 | 6.31 | 7.56 | 7.56 | 9.63 | 11.13 | 12.86 | 13.56 | 15.81 | 16.35 | 17.63 |
| H | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 12.00 | 12.00 | 12.00 | 12.00 | 18.00 | 18.00 | 18.00 |
| WEIGHT (approx.) | 20 | 30 | 50 | 70 | 80 | 145 | 325** | 420** | RTF | RTF | RTF | RTF |

*10" & above have gear operators as standard

**Weight includes gear operator

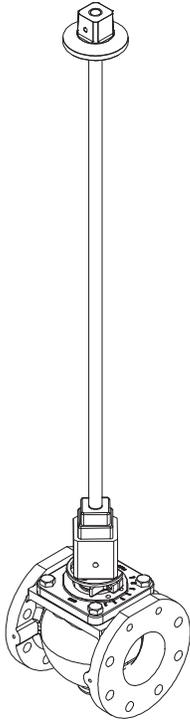
NOTE: Drawings are for information purposes only; please request certified drawings before preparing piping diagrams

NOTE: Larger sizes are available. Contact factory for data.

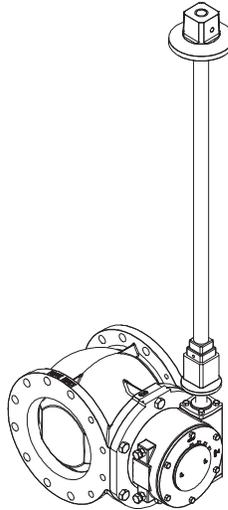
Adaption

A range of extended stems & floor mounted stands for remote operation, particularly in buried service, are available. Chainwheels & locking devices are readily incorporated onto the Millcentric® Plug Valve.

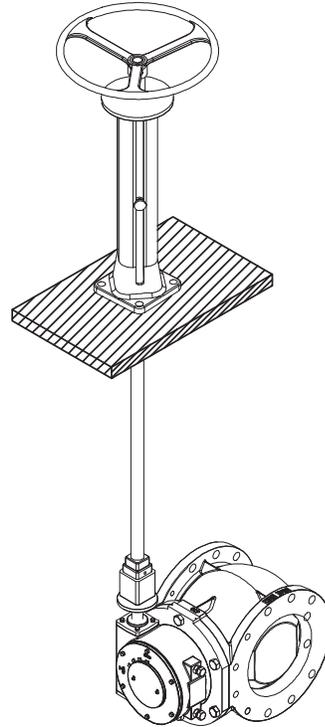
**Valve with extended stem & 2" nut
(Only for 8" and smaller valves)**



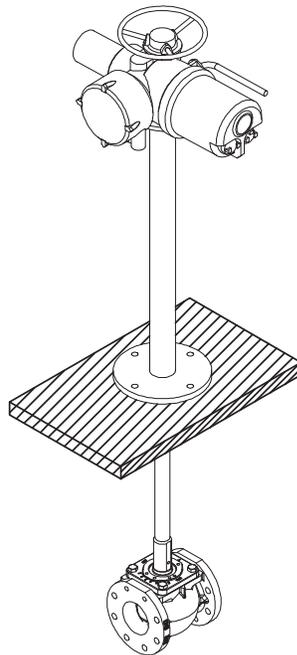
**Valve with extended stem,
buried gear and 2" nut**



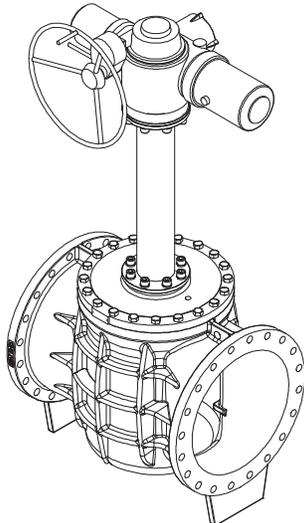
Valve with indicating floorstand



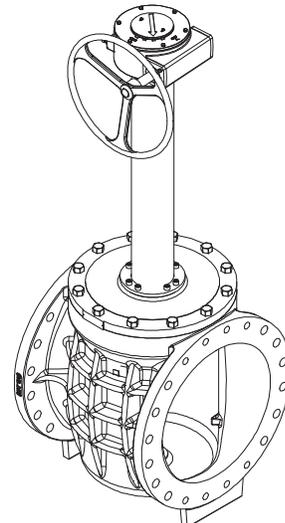
**Valve with non-indicating floorstand
& motor operator**



**Valve with extended bonnet
& motor operator**



Valve with extended bonnet with gear



Technical Specification Millcentric® Series 601/600 Plug Valves

AWWA C-517 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 125/150** including facing, drilling and flange thickness. Mechanical joint ends shall be in compliance with **AWWA/ANSI C-111**. Grooved ends shall be manufactured to the dimensions of **ANSI/AWWA C606** for ductile or steel pipe as required. Ports shall be round on sizes 2½"-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 and thickness in accordance with **AWWA C-517 Section 4.4.1.4**. 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, 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** for all sizes in compliance with AWWA C-517 Section 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, Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 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.

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 Section 5.2.2** when requested.

Plug valves shall be Millcentric® Plug Valve Series 601/600.

Technical Specification Millcentric® Series 602 ANSI Class 250 Raised Face Plug Valves

AWWA C-517 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 250** including facing, drilling and flange thickness. Ports shall be round on sizes 2½" through 12" to facilitate "pigging" when required. Valves 14" and larger shall be of a rectangular port design.

Valve bodies shall be of **ASTM A-536 Grade 65-45-12** ductile iron and thickness in accordance with **AWWA C-517 Section 4.4.1.4**. 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 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** in compliance with **AWWA C-517 Section 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 Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 Section 4.4.7**. Seals shall be self adjusting and repackable without removing the bonnet from the valve.

Worm gear operators 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 400 psi for valves 2½"-12" and 300 psi for valves 14"-36" with pressure behind the plug.

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 Section 5.2.2** when requested.

Plug valves shall be Millcentric® Plug Valve **Series 602**.

Technical Specification Millcentric® Rubberlined Plug Valves

AWWA C-517 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 125/150** including facing, drilling and flange thickness. Mechanical joint ends shall be in compliance with **AWWA/ANSI C-111- 92**. Grooved ends shall be manufactured to the dimensions of **ANSI/AWWA C606** for ductile or steel pipe as required. Ports shall be round on sizes 2½"-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 and thickness in accordance with **AWWA C-517 Section 4.4.1.4**. The interior of the valve bodies shall be covered with a suitable elastomer with a minimum thickness of 1/8". The elastomer shall extend through the valve flow way and onto the flanges to ensure a positive seal.

Plugs shall be of **ASTM A-536-Grade 65-45-12** for all sizes in compliance with AWWA C-517 Section 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, Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 Section 4.4.7**. Seals shall be self adjusting and repackable without removing the bonnet from the valve.

Worm gear operators 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 Section 5.2.2** when requested.

Plug valves shall be Millcentric® Plug Valve.

Technical Specification Millcentric® Series 601S Stainless Steel Plug Valves

AWWA C-517 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. Ports shall be round on sizes 2½"-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 **CF8M (316 stainless steel)**. Valves shall be furnished with 316 stainless steel seat in accordance with **AWWA C-517 Section 4.3.3.4**.

Plugs shall be of **CF8M (316 stainless steel)**. 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 Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 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 removable 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 275 psi. Each valve shall be given a hydrostatic and seat test with the test results being certified when required by the customer. Certified copies of Proof-of-Design test reports shall be furnished as outlined in **AWWA C-517 Section 5.2.2** when requested.

Plug valves shall be Millcentric® Plug Valve **Series 601S**.

Technical Specification Millcentric® Series 611 Ductile Iron Plug Valves

AWWA C-517 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 125/150** including facing, drilling and flange thickness. Mechanical joint ends shall be in compliance with **AWWA/ANSI C-111-92**. Grooved ends shall be manufactured to the dimensions of **ANSI/AWWA C606** for ductile or steel pipe as required. Ports shall be round on sizes 2½"-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-536 Grade 65-45-12** and thickness in accordance with **AWWA C-517 Section 4.4.1.4**. Valves 3" and larger shall be furnished with a welded-in overlay seat of ¼" thick of not less than 99% nickel in accordance with **AWWA C-517, 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** for all sizes in accordance with **AWWA C-517 Section 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, Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 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 bidirectional 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 Section 5.2.2** when requested.

Plug valves shall be Millcentric® Plug Valve **Series 611**.

Technical Specification Millcentric® Glass Lined Plug Valves

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 125/150** including facing, drilling and flange thickness. Mechanical joint ends shall be in compliance with **AWWA/ANSI C-111-92**. Grooved ends shall be manufactured to the dimensions of **ANSI/AWWA C606** for ductile or steel pipe as required. Ports shall be round on sizes 3"-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 and thickness in accordance with **AWWA C-517 Section 4.4.1.4**. Interior of valves shall be glass lined at .008-.012 mils thickness, covering the entire interior of valve bodies and stopping at the flange faces.

Plugs shall be of **ASTM A-536-Grade 65-45-12** for all sizes in compliance with AWWA C-517 Section 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, Section 4.3.3.6**. Bearings shall be of sintered, oil impregnated type stainless steel. Valve shaft seals shall be of the "U" cup type in accordance with **AWWA C-517 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 Section 5.2.2** when requested.

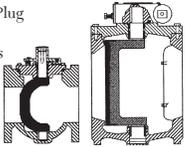
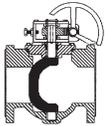
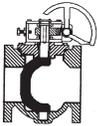
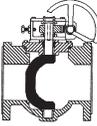
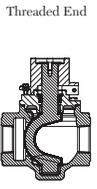
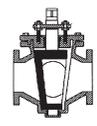
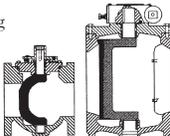
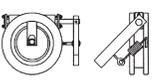
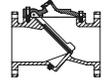
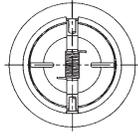
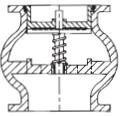
Plug valves shall be Millcentric® Plug Valve Series.

Notes

Notes

Notes

Milliken® Products Guide

| | | | |
|---|---|--|---|
| <p>Series 600/601 Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings ANSI-B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Flanged & MJ Ends Sizes 2"-72" FL Sizes 3"-48" MJ</p> <p>Flanged and MJ</p>  | <p>Series 601SS 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>Series 601RL 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>Series 602 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>Series 613A 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>Series 604E Eccentric Plug Valve</p> <p>Epoxy Seat Solid Ductile Iron Plug Stainless Steel Bearings Low Pressure Drop Lift & Turn NOT Required High Solids & Flow Capacity Sizes 3"-16"</p> <p>Three Way Valve</p>  | <p>Series 606 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>Series 611/610 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"-48" MJ</p> <p>Flanged and MJ</p>  |
| <p>Model 625 Eccentric Plug Valve</p> <p>Available in Threaded and Flanged Ends Rated for 175 psi Sizes 1/2"-4" UL/CGA Listed</p>  | <p>Series 600FP/601FP 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 & MJ Ends Sizes 2"-48" FL Sizes 3"-48" MJ</p>  | <p>Figure 396/397 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"-48" Size Range</p>  | <p>Figure 510A/511A 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>Series 8500 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>Series 8000 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>Series 9000 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>Model 720A Wafer Check Valve</p> <p>Center Guided Check Valve Rated for 250 psi SS Disc/EPDM Seat Sizes 2"-12"</p>  |
| <p>Series 700 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>Figure 851 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>Figure 740A 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>Figure 821A 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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