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 a 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Material</th>
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<tr>
<td>1</td>
<td>Body</td>
<td>Cast Iron A126 Class B</td>
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<tr>
<td>2</td>
<td>Plug</td>
<td>Rubber Coated Ductile Iron ASTM A536</td>
</tr>
<tr>
<td>3</td>
<td>Cap</td>
<td>Cast Iron A126 Class B</td>
</tr>
<tr>
<td>4*</td>
<td>Torque Collar</td>
<td>Ductile Iron ASTM A536</td>
</tr>
<tr>
<td>5</td>
<td>Sleeve Bearing</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>PTFE Washer (Grit Seal)</td>
<td>PTFE</td>
</tr>
<tr>
<td>7</td>
<td>Cap “O” Ring</td>
<td>Elas. as Spec.</td>
</tr>
<tr>
<td>8</td>
<td>U Cup Seal</td>
<td>Elas. as Spec.</td>
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<td>9</td>
<td>Washer</td>
<td>Brass — ASTM B-138-675</td>
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<tr>
<td>10</td>
<td>Internal Snap Ring</td>
<td>Spring Steel</td>
</tr>
<tr>
<td>11</td>
<td>Hex Head Bolt</td>
<td>Steel (Zinc Plated)</td>
</tr>
<tr>
<td>12*</td>
<td>Closed Stop</td>
<td>Steel (Zinc Plated)</td>
</tr>
<tr>
<td>13*</td>
<td>Locking Washer</td>
<td>Steel</td>
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<td>14*</td>
<td>Nut</td>
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<td>15*</td>
<td>Open Stop</td>
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<td>16*</td>
<td>Cap Screw</td>
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<td>17*</td>
<td>Torque Bolt</td>
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<td>18*</td>
<td>Travel Stop</td>
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<tr>
<td>19*</td>
<td>Washer</td>
<td>Steel</td>
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*Torque collar assembly on 8” and smaller
# STANDARD MATERIALS OF CONSTRUCTION 14” & LARGER

## MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
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<td>Body</td>
<td>Cast Iron A126 Class B</td>
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<tr>
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<td>Plug</td>
<td>Rubber Coated Ductile Iron</td>
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<td>Cap</td>
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<td>5</td>
<td>PTFE Washer (Grit Seal)</td>
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</tr>
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<td>6</td>
<td>Cap “O” Ring</td>
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</tr>
<tr>
<td>7</td>
<td>U Cup Seal</td>
<td>Elas. as Spec.</td>
</tr>
<tr>
<td>8*</td>
<td>Seal Retaining Ring</td>
<td>(See Note)</td>
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<td>9</td>
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<td>Support Collar</td>
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<td>External Snap Ring</td>
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<td>Bottom Cover</td>
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<td>Bottom Cover “O” Ring</td>
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<tr>
<td>16</td>
<td>Hex Head Bolt</td>
<td>Steel (Zinc Plated)</td>
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</table>

**Note:** Seal Retaining Ring: Brass-ASTM B-138-675 on 14” - 20” Steel on 24” and larger.
**DIMENSION DRAWING 2.5” - 12”**

**FLANGED END FIG. 601 - 175 PSI**

2-1/2” - 8” VALVES ONLY

2-1/2” - 12” VALVES

**FLANGED END – ANSI 125**

<table>
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<th>SIZE</th>
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<th>4</th>
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</table>

| 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.
MECHANICAL JOINT END

**DIMENSION DRAWING 2.5” - 12”**

**MECHANICAL JOINT END FIG. 600 - 175 PSI**

<table>
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<tr>
<th>SIZE</th>
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**Weight (approx.)**

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*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.
**FLANGED END – ANSI 125**

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<tr>
<th>SIZE</th>
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<td>72</td>
<td>84</td>
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<td>20</td>
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<td>18.63</td>
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Flanged valves meet ANSI B16.1

Weight includes gear operator

**Notes:**

1. Drawings are for information purposes only; please request certified drawings before preparing piping diagrams
2. Dimensions on 54” and larger available upon request
3. 100% Rectangular Port Valves
DIMENSION DRAWING 14” - 48”

MECHANICAL JOINT END FIG. 600F - 150 PSI

14” TO 20” VALVES

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<tr>
<td>F</td>
<td>16.81</td>
<td>17.48</td>
<td>18.63</td>
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Mechanical joint valves meet ANSI 21.11 & AWWA C-111
Weight includes gear operator

Notes:
1. Drawings are for information purposes only; please request certified drawings before preparing piping diagrams
2. Dimensions on 54” and larger available upon request
3. 100% Rectangular Port Valves
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 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-517-09 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 Milliken® Millcentric® Series 601F / 600F.
MILLIKEN®

Product Guide

SERIES 600 / 601
Eccentric Plug Valve
Flanged and MJ

• Welded Nickel Seat
• Stainless Steel Bearings
• ANSI-B16.1 Flanges
• Solid Ductile Iron Plug
• Low Pressure Drop
• Flanged & MJ Ends
• Sizes 2" - 2.0" FL
• Sizes 3" - 48" MJ

SERIES 601SS
Eccentric Plug Valve
Rubber Lined

• Integral Stainless Steel Body
• ANSI-B16.1 Flanges
• Solid Stainless Steel Plug
• Low Pressure Drop
• Size: 1/2" - 24"

SERIES 601RL
Eccentric Plug Valve
High Pressure

• Welded Nickel Seat
• Stainless Steel Bearings
• ANSI-B16.1 Flanges
• Solid Ductile Iron Plug
• Low Pressure Drop
• Size: 3" - 54"
• Metal Flaps Available
• Consult Factory

SERIES 602
Eccentric Plug Valve
Flanged and MJ

• 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

SERIES 613A
Eccentric Plug Valve
Threaded End

• Ductile Iron Construction
• Stainless Steel Bearings
• Low Pressure Drop
• Memory Stop
• NPT End Connections
• Sizes 1/2" - 2"

SERIES 604E
Eccentric Plug Valve
Three Way Valve

• Epoxy Seat
• Solid Ductile Iron Plug
• Stainless Steel Bearings
• Low Pressure Drop
• Lift & Turn NOT Required
• High Solids & Flow Capacity
• Sizes 3" - 16"

SERIES 606
Eccentric Plug Valve
Grooved End

• Welded Nickel Seat
• Stainless Steel Bearings
• ANSI-B16.1 Flanges
• Solid Ductile Iron Plug
• Low Pressure Drop
• Ductile or Steel Pipe
• Sizes 3" - 24"

SERIES 611 / 610
Eccentric Plug Valve
Flanged and MJ

• Ductile Iron Body
• ANSI-B16.1 Flanges
• MJ AWWA C111
• Welded Seat
• Solid Ductile Iron Plug
• Low Pressure Drop
• Sizes 2" - 72" FL
• Sizes 3" - 48" MJ

MODEL 625
Eccentric Plug Valve

• Available in Threaded and Flanged Ends
• Rated for 175 psi
• Sizes 3/4" - 4" flanged
• UL / CSA Listed

SERIES 600FP / 601FP
Eccentric Plug Valve

• 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

FIGURE 396 / 397
General Service Butterfly Valve

• Meets MSS SP 67
• Ductile Iron Body
• DI-NP Disc
• Other Materials
• Upon Request
• Wrench or Gear
• Operated Available
• 2" - 48" Size Range

FIGURE 510A / 511A
AWWA Butterfly Valve

• Center Guided
• Check Valve
• Rated for 250 psi
• SS Disc / EPDM Seat
• Sizes 2" - 12"

SERIES 8000 AWWA Swing Check

• ANSI Class 125 / 150
• High Flow Capacity
• Narrow Face-to-Face
• Sizes 3" - 12"
• 316 SS Internals
• Disc Position Indicator

SERIES 720A
Wafer Check Valve

• Wafer Pattern Check Valve
• Rated for 250 psi
• Available in Sizes 2" - 36" with a SS Disc / EPDM Seat

FIGURE 740A
Double Disc Check Valve

• Wafer Pattern Check Valve
• Rated for 250 psi
• Available in Sizes 2" - 36"
• With a SS Disc / EPDM Seat

FIGURE 851
Flex Check

• ANSI Class 125 / 150
• High Flow Capacity
• Narrow Face-to-Face
• Sizes 3" - 12"
• 316 SS Internals
• Disc Position Indicator

SERIES 821A
Global Style Check Valve

• Center Guided
• Check Valve
• SS Disc / EPDM Seat
• and is Available in Sizes 2" - 24"

SERIES 600 / 601
Eccentric Plug Valve

• Full Waterway
• Ductile Iron Construction
• Weight or Spring
• Air Cushion
• SS Body Seat Ring
• Buna Disc Insert
• Sizes 3" - 24"

SERIES 8000 AWWA Swing Check

• Full Waterway
• Ductile Iron Construction
• Weight or Spring
• Air Cushion
• SS Body Seat Ring
• Buna Disc Insert
• Sizes 2" - 36"

SERIES 9000 AWWA Swing Check

• Full Waterway
• Weight or Spring
• Air or Oil Cushion
• Bronze / SS Body Seat Ring
• Buna / EPDM Disc Insert
• Sizes 2" - 36"

FIGURE 851A
General Service Butterfly Valve

• Clear Waterway
• Weight or Spring
• Air or Oil Cushion
• Bronze / SS Body Seat Ring
• Buna / EPDM Disc Insert
• Sizes 3" - 72"

FIGURE 740A
Double Disc Check Valve

• Wafer Pattern Check Valve
• Rated for 250 psi
• Available in Sizes 2" - 36"
• With a SS Disc / EPDM Seat

FIGURE 821A
Global Style Check Valve

• Wafer Pattern Check Valve
• Rated for 250 psi
• Available in Sizes 2" - 36"
• With a SS Disc / EPDM Seat

FIGURE 510A / 511A
AWWA Butterfly Valve

• Center Guided
• Check Valve
• Rated for 250 psi
• SS Disc / EPDM Seat
• Sizes 2" - 12"

FIGURE 510A / 511A
AWWA Butterfly Valve

• Center Guided
• Check Valve
• Rated for 250 psi
• SS Disc / EPDM Seat
• Sizes 2" - 12"

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