

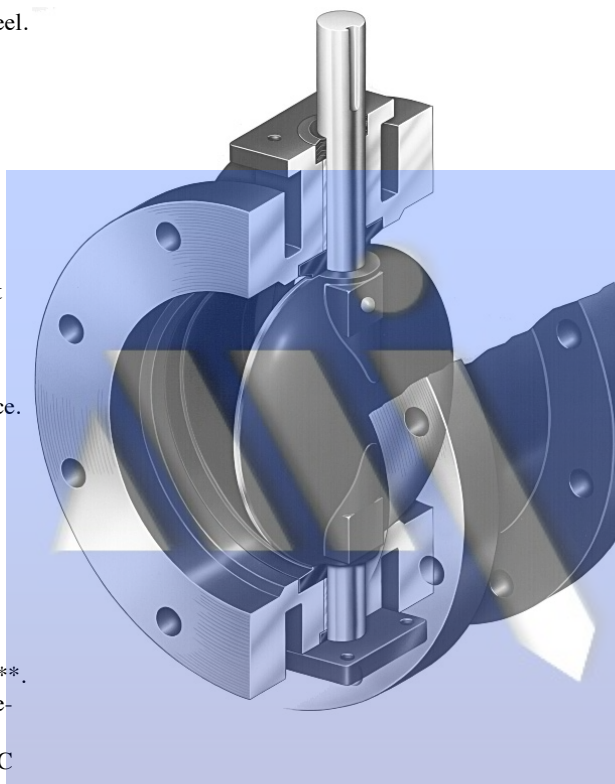
# MUELLER® LINESEAL III®, LINESEAL XP™, **Mueller Co.** LINESEAL XP II™ BUTTERFLY VALVES 3"-20" DESIGN\*

11.1

Rev. 9-09

## MUELLER LINESEAL III (Class 150B), LINESEAL XP\*, LINESEAL XP II (Class 250B) Butterfly Valve Features

- ❑ **CHEVRON V-TYPE PACKING--**  
is self-adjusting, long lasting and should never need replacement because quarter-turn valve operation causes little or no wear. Packing bears on turned, ground and polished stainless steel.
- ❑ **CORROSION RESISTANT SHAFT--**  
is constructed of stainless steel. Shaft is one-piece, through-shaft construction sized to meet or exceed requirements of AWWA Standard C504 for Class 150B or Class 250B service.
- ❑ **HEAVY DUTY BODY--**  
is extra heavy with flanges fully faced and drilled per ANSI B16.1 Class 125 standard\*\*. Other ends available include integrally cast mechanical joint and slip-on (for DI and PVC C900). Operator mounting trunnion is machined and drilled for four-bolt connection.
- ❑ **SELF-LUBRICATING BEARINGS--**  
are liberally sized, chemically inert bearings that are self-lubricating and should outlast the life of the pipeline.
- ❑ **STREAMLINED DISC--**  
has lens-shaped design to minimize pressure drop and turbulence. Full open valve creates no more friction loss than a 45° elbow. Disc is secured to the shaft by stainless steel pins sized to transmit torques required and withstand stresses imposed under severe operating conditions. Disc has stainless steel disc edge.
- ❑ **ELASTOMERIC BODY SEAT--**  
is made of a special rubber compound (Buna N) that is bonded to the body by a patented process. The seat cannot be torn from the body under normal pipeline conditions. The precision molding process also ensures that the disc-seat indentation cannot cause excessive wear or abrasion upon closing.
- ❑ **TAMPER-PROOF DISC CENTERING--**  
provided by precision molded flats in the bonded seat at the body trunnion mate with machined flats on the disc to provide tamperproof centering of the disc in the body. Positive disc alignment, without play, assures long seat life.



\*Linesal XP Valves 3" and 4" only.

\*\*Linesal XP Valve flanges drilled to ANSI B16.1 Class 250 standard.

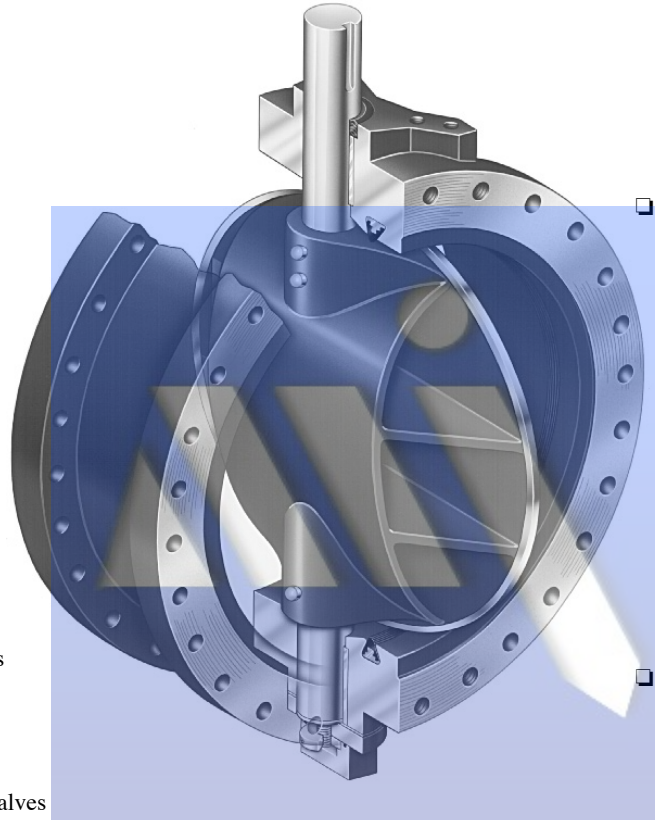
**MUELLER LINESEAL III (Class 150B), LINESEAL XP, LINESEAL XP II (Class 250B)  
Butterfly Valve Features**

- ❑ **CORROSION RESISTANT SHAFT--**  
is constructed of stainless steel. Two-piece, stub-type shafts are sized per AWWA Standard C504, Class 150B or Class 250.

- ❑ **CHEVRON V-TYPE PACKING--**  
is self-adjusting packing in top trunnion of valve body where shaft protrudes.

- ❑ **STRONG DISC AND SHAFT CONNECTIONS--**  
with generously sized stainless steel pins designed to transmit torques required and withstand stresses imposed under severe operating conditions.

- ❑ **PRESET TWO-WAY THRUST BEARING ASSEMBLY--**  
is preset at factory. On valves 30" and larger, assembly consists of stainless steel stud fastened to the bottom of the valve shaft. Stud extends beyond the bottom cover. Thrust collar is threaded to the stud and pinned. On 24" valves thrust collar is pinned to shaft and adjustment provided by bronze spacers. Thrust collar cavity is packed with grease and fully gasketed to prevent leakage.



- ❑ **HEAVY DUTY BODY--**  
is extra heavy with flanges fully faced and drilled per ANSI B16.1 Class 250 or Mechanical Joint ends are also available.

- ❑ **SELF-LUBRICATING, SLEEVE-TYPE BEARINGS--**  
are used in both trunnions of the valve body. PTFE lined with special non-metallic backing. Provide electrical insulation between disc and shaft to prevent galvanic corrosion. Lower coefficient of friction reduces operating torque requirements.

- ❑ **FLOW-THROUGH DISC\*--**  
provides less pressure drop in full-open position than conventional disc shapes. (On 24" size valves the arch side of disc is closed and the flat side is open, forming a slightly concave surface.) Disc structure has no internal cores that can shift during casting, no hollow chambers that can collect water, freeze and fracture the disc. Disc edge has stainless steel spherically shaped seating surface.

- ❑ **ELASTOMERIC SEAT--**  
is made of a special rubber compound (Buna N) that seals a full 360° against a stainless steel spherical disc edge. Unique grooved-seal design, coupled with the wide spherically shaped seating edge of the disc, allows greater disc closure tolerance (up to 1° off center in closed position without leakage). Seat is mechanically retained in body without metal hardware by a cast epoxy compound that ensures the seat conforms to the exact radius of the disc with uniform contact pressure. It is fully field adjustable and replaceable.

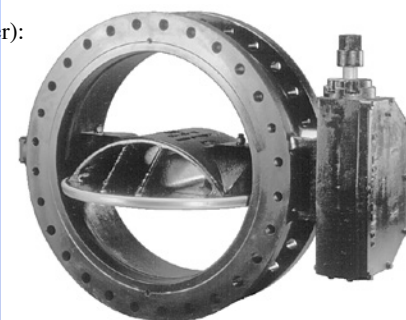
\* Contact your Mueller representative for valves sizes larger than 48" and for Linesal XP Valves with Class 250 flanges, this page applies to 24"-48" sizes.

# MUELLER® LINESEAL III® BUTTERFLY VALVES (Class 150B) 3" - 48"\*

**Mueller Co.**
**11.3**

Rev. 9-09

- ☐ Catalog number--
  - 3211-6** Flanged Ends Class 125  
 Sizes--3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"
  - 3211-20** Mechanical joint ends (with mechanical joint unassembled accessories)  
 Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"
  - 3211-23** Mechanical joint ends (without mechanical joint accessories)  
 Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"
  - 3211-16** Flanged Class 125 by mechanical joint ends (with mechanical joint unassembled accessories)  
 Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"
  - 3211-19** Flanged Class 125 by mechanical joint ends (without mechanical joint unassembled accessories)  
 Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"
  - 3211-41** Flanged Class 125 by slip-on  
 Sizes--12", 16"
  - 3211-38** Slip-on by slip-on  
 Sizes--12", 16"
- ☐ Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 150B; NSF 61 certified
- ☐ Buried service valves: I.D. and O.D. coated
- ☐ Body - Cast Iron ASTM A-126
- ☐ Flanges drilled per ANSI B16.1 Class 125
- ☐ Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever): minimum 4 mills epoxy coated interior and exterior; meets AWWA C504 standard.
- ☐ Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline
- ☐ Through-disc pinning provides a tight disc-to-shaft pin connection, greatly reducing the possibility of loosening through vibration
- ☐ Disc edge is 316 Stainless Steel
- ☐ Disc - Cast Iron ASTM A-126 (3", 4", 6" Stainless Steel ASTM A-743 CF8M)
- ☐ Symmetrical disc for higher Cv and lower head loss
- ☐ Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction
- ☐ Chevron "V" type packing is self-adjusting to last the life of the valve
- ☐ 3"-24" Standard 304 SS hardware.


**3"-20"**

**24"-48"**

## Options

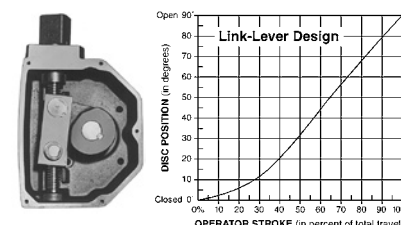
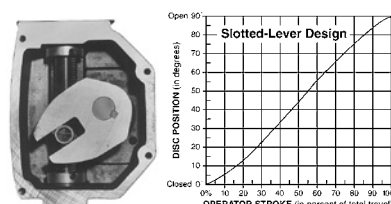
- ☐ MDT Actuator with handwheel or chainwheel and position indicator
- ☐ Hand lever for 3"-10" valves
- ☐ Additional 4 mills minimum Epoxy interior and/or exterior
- ☐ MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- ☐ 200 psi test
- ☐ Holiday testing
- ☐ EPDM Rubber seat and seals
- ☐ Ground level position indicator
- ☐ 316 Stainless steel fasteners

## Standard Buried Service Actuators

Note: Actuator size subject to change based on actual pipeline conditions.

| Valve size | Actuator | Number of turns |
|------------|----------|-----------------|
| 3"-12"     | MDT-2S   | 32              |
| 14"-16"    | MDT-3S   | 30              |
| 18"-24"    | MDT-4S   | 40              |
| 30"-36"    | MDT-5    | 44              |
| 42"        | MDT-5S   | 136             |
| 48"        | MDT-6S   | 215             |

## Slotted-Lever (3"-12")

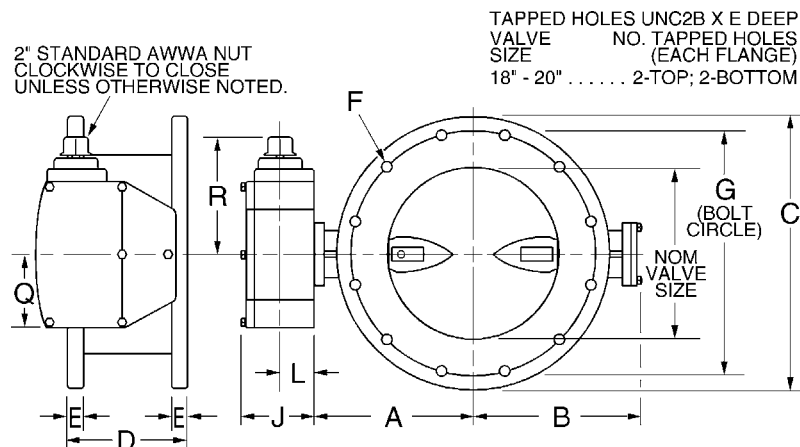
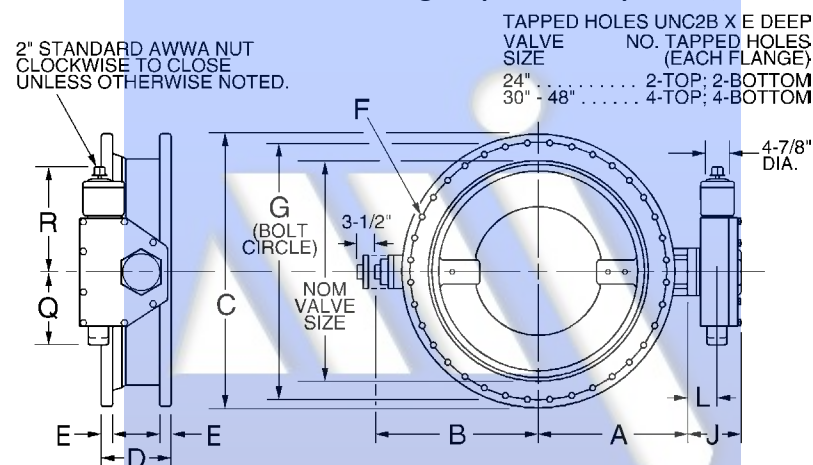


\*Contact your Mueller representative for valve sizes larger than 48".

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**Mueller Co.****MUELLER® LINESEAL III® BUTTERFLY VALVES-(CLASS 150B) 3"-48"\*-FLANGED ENDS**

Rev. 9-09

**Dimensions - for Lineseal III Valves Flanged (Class 125) Ends, 3"-20" Sizes.****Dimensions - for Lineseal III Valves Flanged (Class 125) Ends, 24"-48" Sizes.**

**Notes:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request.

Actuator size subject to change based on actual pipeline conditions.

| Dimension+                   | Nominal size* |        |        |        |         |         |        |        |          |          |          |          |          |          |          |
|------------------------------|---------------|--------|--------|--------|---------|---------|--------|--------|----------|----------|----------|----------|----------|----------|----------|
|                              | 3"            | 4"     | 6"     | 8"     | 10"     | 12"     | 14"    | 16"    | 18"      | 20"      | 24"      | 30"      | 36"      | 42"      | 48"      |
| A                            | 4.75          | 5.50   | 6.50   | 7.75   | 9.00    | 10.5    | 11.88  | 13.50  | 14.38    | 16.00    | 18.63    | 21.50    | 25.44    | 29.88    | 34.06    |
| B                            | 3.88          | 4.13   | 5.13   | 6.50   | 9.88    | 11.38   | 12.63  | 14.50  | 15.38    | 17.00    | 18.63    | 24.38    | 28.25    | 32.88    | 37.13    |
| C                            | 7.50          | 9.00   | 11.00  | 13.50  | 16.00   | 19.00   | 21.00  | 23.50  | 25.00    | 27.50    | 32.00    | 38.75    | 46.00    | 53.00    | 59.50    |
| D†                           | 5.00          | 5.00   | 5.00   | 6.00   | 8.00    | 8.00    | 8.00   | 8.00   | 8.00     | 8.00     | 8.00     | 12.00    | 12.00    | 12.00    | 15.00    |
| E                            | .75           | .94    | 1.00   | 1.13   | 1.19    | 1.25    | 1.38   | 1.44   | 1.56     | 1.69     | 1.88     | 2.13     | 2.38     | 2.63     | 2.75     |
| F (number and size of holes) | 4--.63        | 8--.63 | 8--.75 | 8--.75 | 12--.88 | 12--.88 | 12--1  | 16--1  | 16--1.13 | 20--1.13 | 20--1.25 | 28--1.25 | 32--1.50 | 36--1.50 | 44--1.50 |
| G                            | 6.00          | 7.50   | 9.50   | 11.75  | 14.25   | 17.00   | 18.75  | 21.25  | 22.75    | 25.00    | 29.50    | 36.00    | 42.75    | 49.50    | 56.00    |
| J                            | 4.69          | 4.69   | 4.69   | 4.69   | 4.69    | 4.69    | 5.63   | 5.63   | 6.38     | 6.38     | 6.38     | 7.56     | 7.56     | 8.31     | 9.88     |
| L                            | 2.00          | 2.00   | 2.00   | 2.00   | 2.00    | 2.00    | 2.44   | 2.44   | 2.84     | 2.84     | 2.84     | 3.47     | 3.47     | 3.94     | 5.06     |
| Q                            | 4.50          | 4.50   | 4.50   | 4.50   | 4.50    | 4.50    | 5.38   | 5.38   | 6.75     | 6.75     | 6.75     | 10.00    | 10.00    | 15.94    | 14.19    |
| R                            | 8.25          | 8.25   | 8.25   | 8.25   | 8.25    | 8.25    | 10.38  | 10.38  | 11.31    | 11.31    | 11.31    | 17.00    | 17.00    | 19.88    | 26.50    |
| Turns to open                | 32            | 32     | 32     | 32     | 32      | 32      | 30     | 30     | 40       | 40       | 40       | 44       | 44       | 136      | 215      |
| Actuator (see notes)         | MDT-2S        | MDT-2S | MDT-2S | MDT-2S | MDT-2S  | MDT-2S  | MDT-3S | MDT-3S | MDT-4S   | MDT-4S   | MDT-4S   | MDT-5    | MDT-5    | MDT-5S   | MDT-6S   |

\* Larger sizes available upon request.

+ All dimensions are in inches.

† -+1/16" for 10" valves, and -+1/8" for 12"-48" valves per Flange Standard ANSI B16.1.

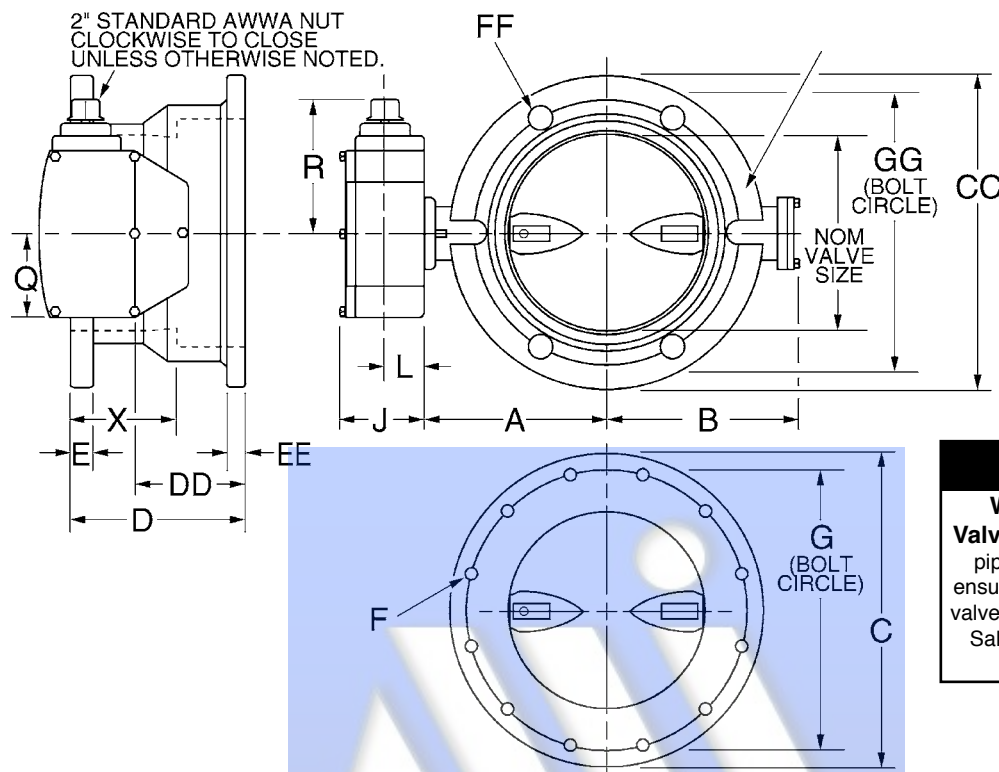
# MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 6"-20" - M.J. X FL.

**Mueller Co.**

# 11.5

Rev. 9-09

## Dimensions - for Lineal III Valves Mechanical Joint by Flange (Class 125) Ends, 6"-20" Sizes.



### CAUTION

**When using 10" and 12" Valves on Class 200 PVC Pipe,** pipe end I.D. must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.

**Notes:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request.  
Actuator size subject to change based on actual pipeline conditions.

| Dimension+                    | Nominal size |        |         |         |          |          |          |          |
|-------------------------------|--------------|--------|---------|---------|----------|----------|----------|----------|
|                               | 6"           | 8"     | 10"     | 12"     | 14"      | 16"      | 18"      | 20"      |
| A                             | 6.50         | 7.75   | 9.00    | 10.50   | 11.88    | 13.50    | 14.38    | 16       |
| B                             | 5.13         | 6.50   | 9.88    | 11.38   | 12.75    | 14.38    | 15.25    | 16.88    |
| C                             | 11.00        | 13.50  | 16.00   | 19.00   | 21.00    | 23.50    | 25.00    | 27.50    |
| CC                            | 11.00        | 13.25  | 15.56   | 17.94   | 20.31    | 22.56    | 24.69    | 27.09    |
| D†                            | 6.75         | 7.31   | 8.62    | 8.63    | 9.75     | 10.00    | 10.13    | 10.25    |
| DD                            | 4.25         | 4.31   | 4.62    | 4.63    | 5.75     | 6.00     | 6.13     | 6.25     |
| E                             | 1.06         | 1.13   | 1.25    | 1.25    | 1.38     | 1.44     | 1.56     | 1.69     |
| EE                            | 1.06         | 1.13   | 1.19    | 1.25    | 1.31     | 1.38     | 1.44     | 1.50     |
| F (number and size of holes)  | 8--.75       | 8--.75 | 12--.88 | 12--.88 | 12--1.00 | 16--1.00 | 16--1.13 | 20--1.13 |
| FF (number and size of holes) | 6--.75       | 6--.75 | 8--.75  | 8--.75  | 10--.75  | 12--.75  | 12--.75  | 14.75    |
| G                             | 9.50         | 11.75  | 14.25   | 17.00   | 18.75    | 21.25    | 22.75    | 25.00    |
| GG                            | 9.50         | 11.75  | 14.00   | 16.25   | 18.75    | 21.00    | 23.25    | 25.50    |
| J                             | 4.69         | 4.69   | 4.69    | 4.69    | 5.63     | 5.63     | 6.38     | 6.38     |
| L                             | 2.00         | 2.00   | 2.00    | 2.00    | 2.44     | 2.44     | 2.84     | 2.84     |
| Q                             | 4.50         | 4.50   | 4.50    | 4.50    | 5.38     | 5.38     | 6.75     | 6.75     |
| R                             | 8.75         | 8.25   | 8.25    | 8.25    | 10.38    | 10.38    | 11.31    | 11.31    |
| X                             | 4.25         | 4.81   | 6.13    | 6.13    | 6.25     | 6.50     | 6.63     | 6.75     |
| Turns to open                 | 32           | 32     | 32      | 32      | 30       | 30       | 40       | 40       |
| Actuator (see notes)          | MDT-2S       | MDT-2S | MDT-2S  | MDT-2S  | MDT-3S   | MDT-3S   | MDT-4S   | MDT-4S   |

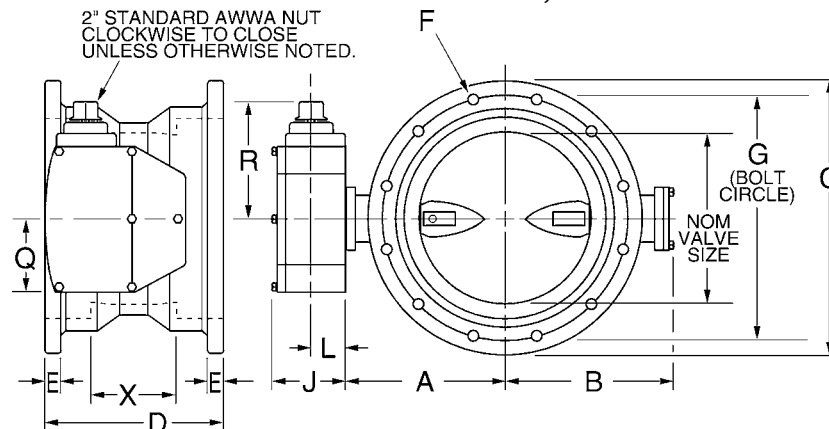
+ All dimensions are in inches.



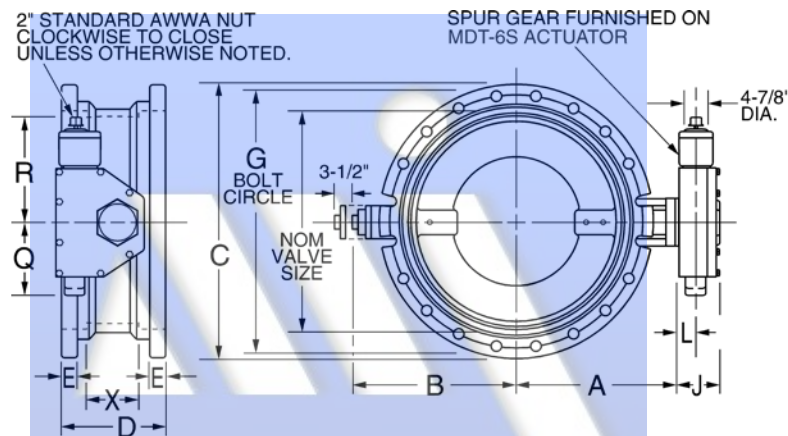
11.6

**Mueller Co.****MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 4"-48" - M.J. ENDS**

Rev. 9-09

**Dimensions - for Lineseal III Valves M.J. Ends, 4"-20" Sizes.****Dimensions - for Mueller Lineseal III Butterfly Valves M.J. Ends, 24"-48" Sizes.****CAUTION**

**When using 10" and 12" Valves on Class 200 PVC Pipe,** pipe end I.D. must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.



**Notes:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request.

Actuator size subject to change based on actual pipeline conditions.

| Dimension+                   | Nominal size |        |        |        |        |         |         |         |         |         |          |          |          |          |
|------------------------------|--------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
|                              | 4"           | 6"     | 8"     | 10"    | 12"    | 14"     | 16"     | 18"     | 20"     | 24"     | 30"      | 36"      | 42"      | 48"      |
| A                            | 5.50         | 6.50   | 7.75   | 9.00   | 10.50  | 11.88   | 13.50   | 14.38   | 16.00   | 18.63   | 21.50    | 25.44    | 29.88    | 34.06    |
| B                            | 4.13         | 5.13   | 6.50   | 9.75   | 11.38  | 12.75   | 14.50   | 15.38   | 17.00   | 18.38   | 24.13    | 28.00    | 32.75    | 36.88    |
| C                            | 9.00         | 11.00  | 13.25  | 15.56  | 17.94  | 20.31   | 22.56   | 24.69   | 27.09   | 31.56   | 39.00    | 45.88    | 53.00    | 59.88    |
| D                            | 8.13         | 8.50   | 8.63   | 9.25   | 9.25   | 11.50   | 12.00   | 12.25   | 12.50   | 13.25   | 18.00    | 22.00    | 22.00    | 24.00    |
| E                            | 1.00         | 1.06   | 1.13   | 1.19   | 1.25   | 1.31    | 1.38    | 1.38    | 1.50    | 1.63    | 1.81     | 2.00     | 2.00     | 2.00     |
| F (number and size of holes) | 4--.75       | 6--.75 | 6--.75 | 8--.75 | 8--.75 | 10--.75 | 12--.75 | 12--.75 | 14--.75 | 16--.75 | 20--1.00 | 24--1.00 | 28--1.25 | 32--1.25 |
| G                            | 7.50         | 9.50   | 11.75  | 14.00  | 16.25  | 18.75   | 21.00   | 23.25   | 25.25   | 30.00   | 36.88    | 43.75    | 50.63    | 57.50    |
| J                            | 4.69         | 4.69   | 4.69   | 4.69   | 4.69   | 5.63    | 5.63    | 6.38    | 6.38    | 6.38    | 7.56     | 7.56     | 8.31     | 10.19    |
| L                            | 2.00         | 2.00   | 2.00   | 2.00   | 2.00   | 2.44    | 2.44    | 2.84    | 2.84    | 2.44    | 3.47     | 3.47     | 3.94     | 5.06     |
| Q                            | 4.50         | 4.50   | 4.50   | 4.50   | 4.50   | 5.38    | 5.38    | 6.75    | 6.75    | 6.75    | 10.00    | 10.00    | 15.94    | 14.19    |
| R                            | 8.25         | 8.25   | 8.25   | 8.25   | 8.25   | 10.38   | 10.38   | 11.31   | 11.31   | 11.31   | 17.00    | 17.00    | 19.88    | 26.50    |
| X                            | 3.12         | 3.50   | 3.63   | 4.25   | 4.25   | 4.50    | 5.00    | 5.25    | 5.50    | 6.38    | 10.00    | 14.00    | 14.00    | 16.00    |
| Turns to open                | 32           | 32     | 32     | 32     | 32     | 30      | 30      | 40      | 40      | 40      | 44       | 44       | 136      | 215      |
| Actuator (see notes)         | MDT-2S       | MDT-2S | MDT-2S | MDT-2S | MDT-2S | MDT-3S  | MDT-3S  | MDT-4S  | MDT-4S  | MDT-4S  | MDT-5    | MDT-5    | MDT-5S   | MDT-6S   |

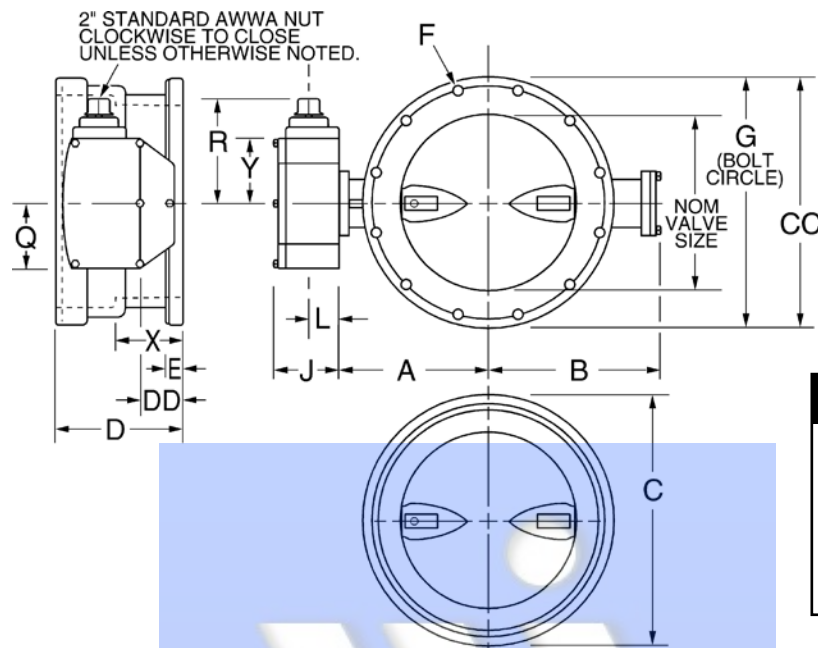
+ All dimensions are in inches.

# MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 12", 16" - SL. X FL.

**Mueller Co.**
**11.7**

Rev. 9-09

## Dimensions - for Lineal III Valves Slip-on by Flanged Ends (Class 125), 12", 16" Sizes.



### CAUTION

When using 12" Valves on Class 200 PVC Pipe, pipe end I.D. must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.

**Notes:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request.

Actuator size subject to change based on actual pipeline conditions.

|           | Pipe size |       |
|-----------|-----------|-------|
|           | 12"       | 16"   |
| Pipe O.D. | 13.20     | 17.40 |

| Dimension+                   | Nominal size |          |
|------------------------------|--------------|----------|
|                              | 12"          | 16"      |
| A                            | 10.50        | 13.50    |
| B                            | 11.38        | 13.88    |
| C (Slip on end)              | 16.38        | 21.25    |
| CC (Flanged end)             | 19.00        | 23.50    |
| D                            | 11.50        | 11.50    |
| DD                           | 4.00         | 4.00     |
| E                            | 1.25         | 1.44     |
| F (number and size of holes) | 12--.88      | 16--1.00 |
| G                            | 17.00        | 21.25    |
| J                            | 4.69         | 5.63     |
| L                            | 2.00         | 2.44     |
| Q                            | 4.50         | 5.38     |
| R                            | 8.25         | 10.38    |
| X (Laying length)            | 6.56         | 9.19     |
| Turns to open                | 32           | 30       |
| Actuator (see notes)         | MDT-2S       | MDT-3S   |

+ All dimensions are in inches.

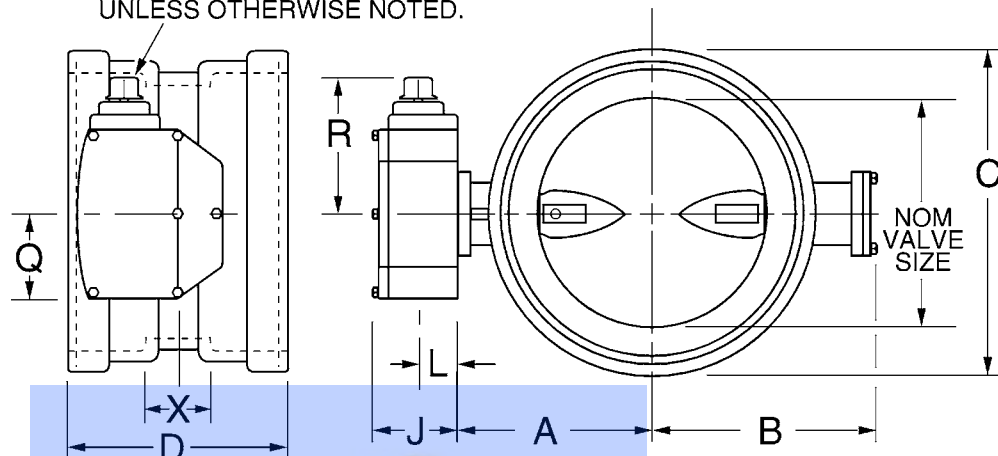
IMPORTANT:

1. Slip On end of this valve NOT FOR USE with IPS O.D. Pipe.
2. Slip On end of this valve for use with Tyton™ Rubber Ring Gasket (Tyton is a registered Trade Mark of U.S. Pipe & Foundry Co.).

11.8

**Mueller Co.****MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 12", 16" - SLIP-ON**

Rev. 9-09

**Dimensions - for Mueller Line Seal III Butterfly Valves  
Slip-on Ends, 12", 16" Sizes.**2" STANDARD AWWA NUT  
CLOCKWISE TO CLOSE  
UNLESS OTHERWISE NOTED.**CAUTION**

**When using 12" Valves on Class 200 PVC Pipe**, pipe end I.D. must be bevelled to ensure clearance for disc and proper valve operation. Contact your Mueller Sales Representative for detailed instructions.

**Notes:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings available upon request.

Actuator size subject to change based on actual pipeline conditions.

|           | Pipe size |       |
|-----------|-----------|-------|
|           | 12"       | 16"   |
| Pipe O.D. | 13.20     | 17.40 |

| Dimension+           | Nominal size |        |
|----------------------|--------------|--------|
|                      | 12"          | 16"    |
| A                    | 10.50        | 13.50  |
| B                    | 11.38        | 14.50  |
| C                    | 16.38        | 21.25  |
| D                    | 15.00        | 15.00  |
| J                    | 4.69         | 5.63   |
| L                    | 2.00         | 2.44   |
| Q                    | 4.50         | 5.38   |
| R                    | 8.25         | 10.38  |
| X (Laying length)    | 5.13         | 4.75   |
| Turns to open        | 32           | 30     |
| Actuator (see notes) | MDT-2S       | MDT-3S |

+All dimensions are in inches.

**IMPORTANT:**

1. This valve NOT FOR USE with IPS O.D. Pipe.
2. This valve for use Tyton™ Rubber Ring Gasket (Tyton is a registered Trade Mark of U.S. Pipe & Foundry Co.).



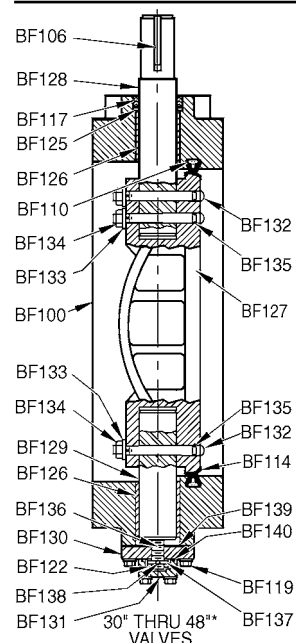
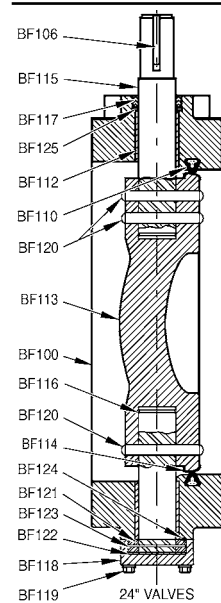
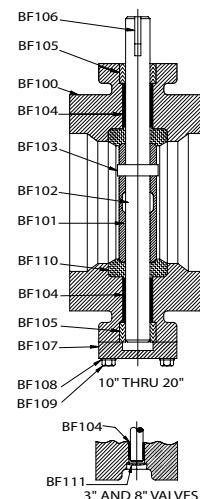
# MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 3"-48"\* PARTS

**Mueller Co.**
**11.9**

Rev. 9-09

**Line Seal III Butterfly Valve Replacement Parts**

| Catalog Part No. | Description         | Material                                                                              |
|------------------|---------------------|---------------------------------------------------------------------------------------|
| BF100            | Body                | Cast iron ASTM A126 CL.B                                                              |
| BF101            | Disc**              | Cast iron ASTM A126, Class B with 316 Edge                                            |
| BF102            | Shaft               | Stainless Steel 18-8 Type 304 ASTM A-276                                              |
| BF103            | Squeeze pin         | Stainless Steel 18-8 Type 304 ASTM A-276                                              |
| BF104            | Bearing             | Nylatron GS                                                                           |
| BF105            | Packing             | Chevron V-Type                                                                        |
| BF106            | Key                 | Carbon Steel C-1045                                                                   |
| BF107            | Cover               | Cast Iron ASTM A-48 Class 40                                                          |
| BF108            | Lockwasher          | Stainless Steel Type 304                                                              |
| BF109            | Cap Screw           | Stainless Steel Type 304                                                              |
| BF110            | Seat                | Buna N                                                                                |
| BF111            | Plug                | Stainless Steel Type 304                                                              |
| BF112            | Bearings            | PTFE Lined, Filament Wound, Reinforced Plastic, Fiberglass Backed                     |
| BF113            | Disc                | Ductile Iron ASTM A-536 Grade 65-45-12                                                |
| BF114            | Disc edge           | Stainless Steel Type 316 ASTM A-240                                                   |
| BF115            | Top stub shaft      | Stainless Steel Type 304 ASTM A-276 (Standard)<br>Stainless Steel Type 316 ASTM A-276 |
| BF116            | Bottom stub shaft   | Stainless Steel Type 304 ASTM A-276 (Standard)<br>Stainless Steel Type 316 ASTM A-276 |
| BF117            | Packing             | Buna N                                                                                |
| BF118            | Bottom cover        | Cast Iron ASTM A-48 Class 40                                                          |
| BF119            | Cap screws          | Carbon Steel                                                                          |
| BF120            | Squeeze pins        | Stainless Steel Type 304 ASTM A-479                                                   |
| BF121            | Thrust collar       | Stainless Steel Type 420                                                              |
| BF122            | Thrust collar shims | Bronze                                                                                |
| BF123            | Spring pin          | Stainless Steel Type 420                                                              |
| BF124            | O-ring              | Buna N                                                                                |
| BF125            | Packing retainer    | Nylon                                                                                 |
| BF126            | Bearings            | Duralon                                                                               |
| BF127            | Disc                | Ductile Iron ASTM A-536 Grade 65-45-12                                                |
| BF128            | Top stub shaft      | Stainless Steel Type 304 ASTM A-276                                                   |
| BF129            | Bottom stub shaft   | Stainless Steel Type 304 ASTM A-276                                                   |
| BF130            | Bottom cover        | Cast Iron ASTM A-126 Class B                                                          |
| BF131            | Bottom cover cap    | Cast Iron ASTM A-126 Class B                                                          |
| BF132            | Taper pins          | Stainless Steel Type 630 ASTM A-564 Cond. H-1150                                      |
| BF133            | Lockwashers         | Stainless Steel Type 304                                                              |
| BF134            | Hex nuts            | Stainless Steel Type 304                                                              |
| BF135            | O-rings             | Buna N                                                                                |
| BF136            | Thrust bearing stud | Stainless Steel Type 304                                                              |
| BF137            | Thrust collar       | Bronze ASTM B-505 Alloy C93200                                                        |
| BF138            | Dowel pin           | Alloy Steel                                                                           |
| BF139            | Bottom cover gasket | Blended Fiber, Cured Nitril Binder                                                    |
| BF140            | O-ring              | Buna N                                                                                |



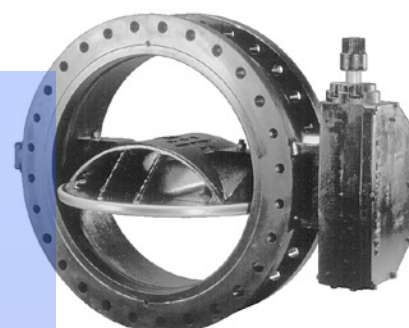
\* Contact your Mueller representative for sizes larger than 48".

\*\*3", 4", 6" is ASTM A-351 CF8M Stainless Steel.

**11.10** **Mueller Co.****MUELLER® LINESEAL XP™ BUTTERFLY VALVES (CLASS 250B) 3" - 48"\***

Rev. 9-09

- ☐ Catalog number--  
**5227-6** Flanged (Class 250) Ends; **ANSI 250lb Drilling B16.1**  
Sizes--3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"\*
- ☐ 250psig (1723kPa) maximum working pressure
- ☐ Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 250B; NSF 61 certified
- ☐ Body - Ductile Iron ASTM A-536 (65-45-12)
- ☐ Buried service valves: I.D. and O.D. coated
- ☐ Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever); minimum 4 mills epoxy coated interior and exterior; meets AWWA C-504 standards.
- ☐ Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline
- ☐ Disc edge is 316 Stainless Steel
- ☐ Disc - Ductile Iron ASTM A-536 (65-45-12) (3"-4" Stainless Steel ASTM A-531 CF8M)
- ☐ Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction
- ☐ Chevron "V" type packing is self-adjusting to last the life of the valve
- ☐ 3"-24" Standard 304 SS hardware.

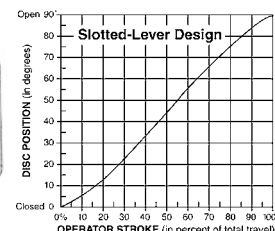
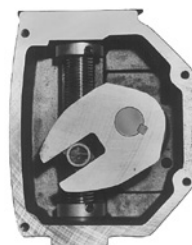
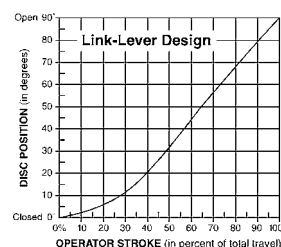
**3"-20"****24"-48"****Options**

- ☐ MDT Actuator with handwheel or chainwheel and position indicator
- ☐ MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- ☐ EPDM rubber seat and seals
- ☐ 304/316 Stainless Steel Fasteners
- ☐ Additional 4 mils minimum Epoxy interior and/or exterior
- ☐ Holiday testing
- ☐ Ground level position indicator

**Standard Buried Service Actuators**

Note: Actuator size subject to change based on actual pipeline conditions.

| Valve size | Actuator | Number of turns |
|------------|----------|-----------------|
| 3"-8"      | MDT-2S   | 32              |
| 10"-14"    | MDT-3S   | 30              |
| 16"-18"    | MDT-4S   | 40              |
| 20"-24"    | MDT-5    | 44              |
| 30"-36"    | MDT-5S   | 136             |
| 42"-48"    | MDT-6S   | 215             |

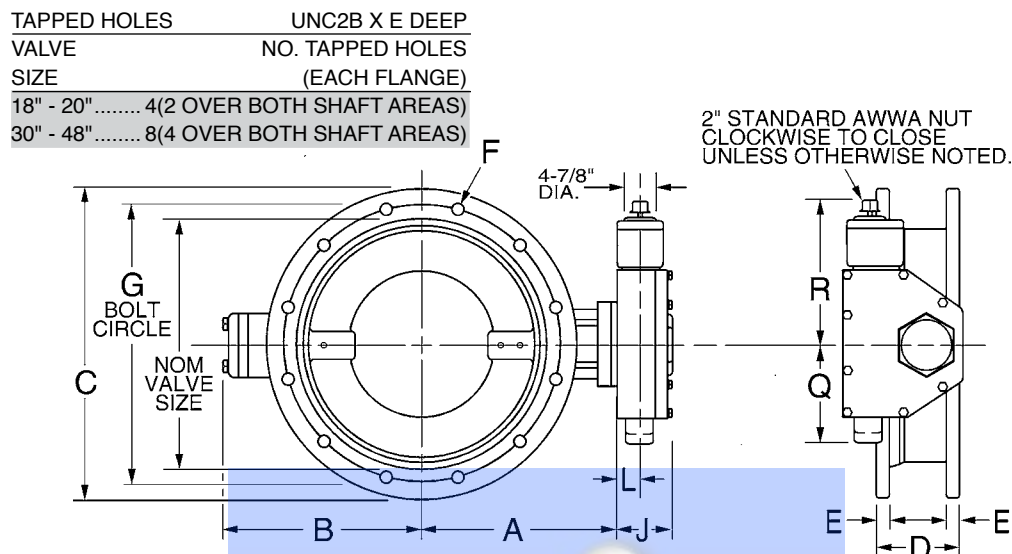
**Slotted-Lever (3"-8")****Link-Lever (10"-48")**

# MUELLER® LINESEAL XP™ BUTTERFLY VALVES (CLASS 250B) 3"-48"\* - FLANGE ENDS

**Mueller Co.** 11.11

Shaded area indicates change Rev. 10-11

## Dimensions - for Lineseal XP Valves - Flange (ANSI B16.1 Class 250) Ends, 3"-48"\* Sizes.



**NOTES:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request.

Actuator size subject to change based on actual pipeline conditions.

| Dimension+                     | Nominal size |        |         |          |          |          |          |          |          |          |          |          |          |          |                    |
|--------------------------------|--------------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|
|                                | 3"           | 4"     | 6"      | 8"       | 10"      | 12"      | 14"      | 16"      | 18"      | 20"      | 24"      | 30"      | 36"      | 42"      | 48"                |
| A                              | 4.75         | 5.50   | 7.25    | 8.50     | 9.75     | 11.50    | 12.75    | 14.00    | 15.25    | 17.00    | 19.75    | 25.63    | 28.13    | 32.13    | 36.25              |
| B                              | 3.25         | 3.50   | 8.38    | 9.63     | 11.00    | 12.63    | 13.88    | 15.13    | 16.38    | 17.63    | 20.25    | 26.00    | 31.13    | 35.13    | 39.63              |
| C                              | 8.25         | 10.00  | 12.50   | 15.00    | 17.50    | 20.50    | 23.00    | 25.50    | 28.00    | 30.50    | 36.00    | 43.00    | 50.00    | 57.00    | 65.00              |
| D                              | 5.00         | 5.00   | 6.00    | 8.00     | 8.00     | 8.00     | 12.00    | 12.00    | 12.00    | 12.00    | 12.00    | 12.00    | 15.00    | 15.00    | 15.00              |
| E                              | 1.13         | 1.25   | 1.44    | 1.63     | 1.88     | 2.00     | 2.13     | 2.25     | 2.38     | 2.50     | 2.75     | 3.00     | 3.38     | 3.69     | 4.00               |
| F (number and size of holes)** | 8--.88       | 8--.88 | 12--.88 | 12--1.00 | 16--1.12 | 16--1.25 | 20--1.25 | 20--1.38 | 20--1.38 | 20--1.38 | 24--1.62 | 20--2.00 | 24--2.25 | 28--2.25 | 32--2.25           |
|                                | --           | --     | --      | --       | --       | --       | --       | --       | 4--1.25  | 4--1.25  | --       | 8--1.50  | 8--2.00  | 8--2.00  | 8--2.00            |
| G                              | 6.63         | 7.88   | 10.63   | 13.00    | 15.25    | 17.75    | 20.25    | 22.50    | 24.75    | 27.00    | 32.00    | 39.25    | 46.00    | 52.75    | 60.75              |
| J                              | 4.69         | 4.69   | 4.69    | 4.69     | 5.63     | 5.63     | 5.63     | 6.38     | 6.38     | 7.56     | 7.56     | 7.56     | 8.31     | 11.13    | CONTACT<br>FACTORY |
| L                              | 2.00         | 2.00   | 2.00    | 2.00     | 2.44     | 2.44     | 2.44     | 2.84     | 2.84     | 3.49     | 3.49     | 3.49     | 3.94     | 5.06     |                    |
| Q                              | 4.50         | 4.50   | 4.50    | 4.50     | 5.38     | 5.38     | 5.38     | 6.75     | 6.75     | 10.00    | 10.00    | 10.00    | 15.94    | 14.19    |                    |
| R                              | 8.25         | 8.25   | 8.25    | 8.25     | 10.38    | 10.38    | 10.38    | 11.31    | 11.31    | 17.00    | 17.00    | 17.00    | 19.88    | 26.50    |                    |
| Turns to Open                  | 32           | 32     | 32      | 32       | 30       | 30       | 30       | 40       | 40       | 44       | 44       | 44       | 136      | 215      |                    |
| Actuator (see notes)           | MDT-2S       | MDT-2S | MDT-2S  | MDT-2S   | MDT-3S   | MDT-3S   | MDT-3S   | MDT-4S   | MDT-4S   | MDT-5    | MDT-5    | MDT-5    | MDT-5S   | MDT-6S   |                    |

+All dimensions are in inches.

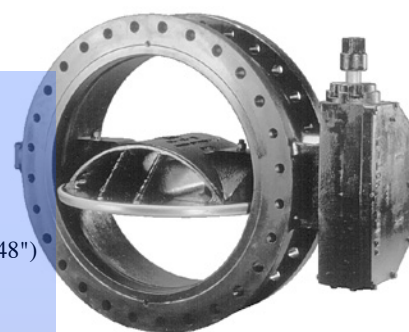
\*Consult your Mueller representative for sizes larger than 48".

\*\*Top row: number and size of clearance holes for bolts; bottom row: number and size of threaded holes for studs.

**11.12** **Mueller Co.****MUELLER® LINESEAL XPII™ BUTTERFLY VALVES (CLASS 250B) 3" - 48"\***

Rev. 9-09

- ☐ Catalog number--
  - 5227-6** Flanged (Class 250) Ends\*; **ANSI B16.1 Class 125**  
 Sizes--3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"\*
  - 5227-20** Mechanical joint ends  
 (with mechanical joint unassembled accessories)  
 Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"\*
  - 5227-23** Mechanical joint ends  
 (without mechanical joint accessories)  
 Sizes--4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"\*
  - 5227-16** Flanged x Mechanical joint ends (with mechanical joint accessories)  
 Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"
  - 5227-19** Flanged x Mechanical joint ends (without mechanical joint accessories)  
 Sizes--6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36"
- ☐ 250psig (1723kPa) maximum working pressure
- ☐ Meets or exceeds all applicable requirements of ANSI/AWWA C504 Standard Class 250B; NSF 61 certified
- ☐ Body - Ductile Iron ASTM A-536 (65-45-12)
- ☐ Buried service valves: I.D. and O.D. coated
- ☐ Above ground valves (ordered with either a handwheel, position indicator on the actuator, or lever); minimum 4 mills epoxy coated interior and exterior.
- ☐ Seat-in-body design reduces seat failure due to corrosive buildup in the valve and pipeline (24"-48")
- ☐ Disc edge is 316 Stainless Steel
- ☐ Disc - Ductile Iron ASTM A-536 (65-45-12) (3", 4", 6" Stainless Steel ASTM A-531 CF8M)
- ☐ Through-disc pinning provides a tight disc-to-shaft pin connection, greatly reducing the possibility of loosening through vibration
- ☐ Symetrical disc for higher Cv and lower head loss (3"-20")
- ☐ Nonmetallic bearings prevent galvanic corrosion and provides lower coefficient of friction
- ☐ Chevron "V" type packing is self-adjusting to last the life of the valve

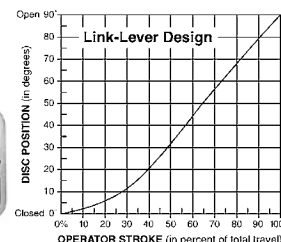
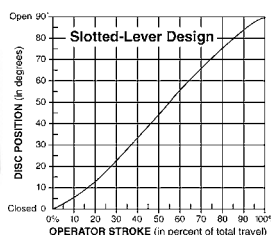
**3"-20"****24"-48"****Options**

- ☐ MDT Actuator with handwheel or chainwheel and position indicator
- ☐ MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- ☐ EPDM rubber seat and seals
- ☐ 304/316 Stainless Steel Fasteners
- ☐ Additional 4 mills minimum Epoxy interior and/or exterior
- ☐ Holiday testing
- ☐ Ground level position indicator

**Standard Buried Service Actuators**

Note: Actuator size subject to change based on actual pipeline conditions.

| Valve size | Actuator | Number of turns |
|------------|----------|-----------------|
| 3"-8"      | MDT-2S   | 32              |
| 10"-14"    | MDT-3S   | 30              |
| 16"-18"    | MDT-4S   | 40              |
| 20"-24"    | MDT-5    | 44              |
| 30"-36"    | MDT-5S   | 136             |
| 42"-48"    | MDT-6S   | 215             |

**Slotted-Lever (3"-8")**

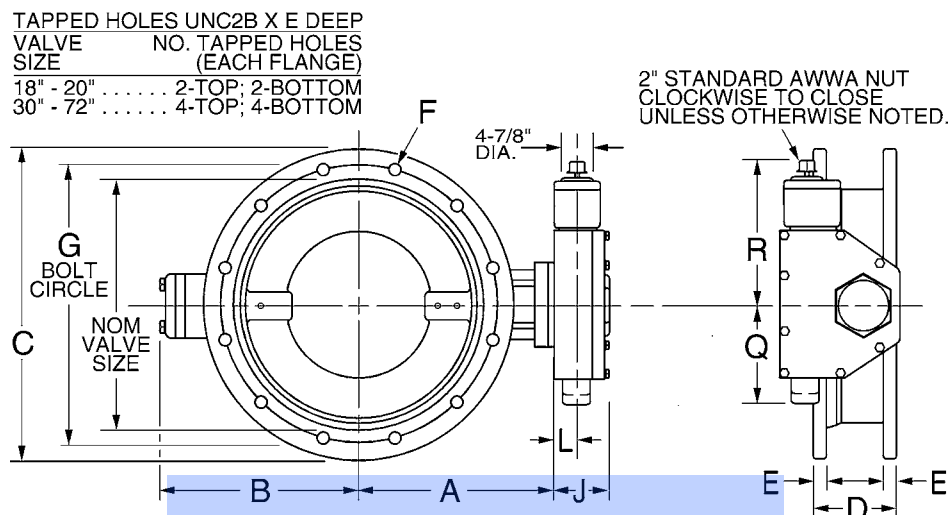
\* Consult your Mueller representative for sizes larger than 48" or for valves with Class 125 flanges.

# MUELLER® LINESEAL XPII™ BUTTERFLY VALVES (CLASS 250B) 3"-48" - FLANGE ENDS

**Mueller Co.** **11.13**

Rev. 9-09

## Dimensions - for Lineaseal XPII Valves - Flange (ANSI B16.1 Class 125) Ends, 3"-48"\* Sizes.



**NOTES:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request.

Actuator size subject to change based on actual pipeline conditions.

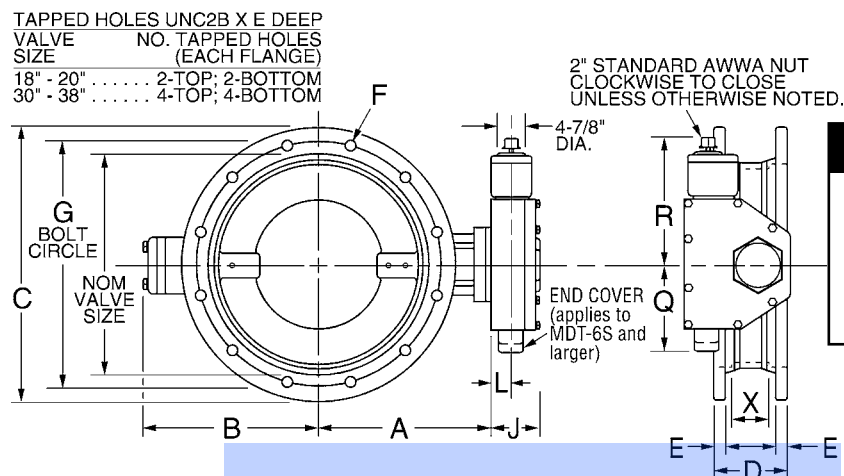
| Dimension+                   | Nominal size |        |        |        |         |         |          |          |          |          |          |          |          |          |          |
|------------------------------|--------------|--------|--------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                              | 3"           | 4"     | 6"     | 8"     | 10"     | 12"     | 14"      | 16"      | 18"      | 20"      | 24"      | 30"      | 36"      | 42"      | 48"      |
| A                            | 4.75         | 5.50   | 6.50   | 7.75   | 9.00    | 10.50   | 11.88    | 13.50    | 14.38    | 16.00    | 18.63    | 21.50    | 25.44    | 29.88    | 34.06    |
| B                            | 3.25         | 3.50   | 5.13   | 6.50   | 9.88    | 11.38   | 12.75    | 14.38    | 15.25    | 16.88    | 18.38    | 24.13    | 28.00    | 32.69    | 36.88    |
| C                            | 7.50         | 9.00   | 11.00  | 13.50  | 16.00   | 19.00   | 21.00    | 23.50    | 25.00    | 27.50    | 32.00    | 38.75    | 46.00    | 53.00    | 59.50    |
| D                            | 5.00         | 5.00   | 5.00   | 6.00   | 8.00    | 8.00    | 8.00     | 8.00     | 8.00     | 8.00     | 8.00     | 12.00    | 12.00    | 12.00    | 15.00    |
| E                            | .75          | .94    | 1.00   | 1.13   | 1.19    | 1.25    | 1.38     | 1.44     | 1.56     | 1.69     | 1.88     | 2.13     | 2.38     | 2.63     | 2.75     |
| F (number and size of holes) | 4--.63       | 8--.63 | 8--.75 | 8--.75 | 12--.88 | 12--.88 | 12--1.00 | 16--1.00 | 16--1.13 | 20--1.13 | 20--1.25 | 28--1.25 | 32--1.50 | 36--1.50 | 44--1.50 |
| G                            | 6.00         | 7.50   | 9.50   | 11.75  | 14.25   | 17.00   | 18.75    | 21.25    | 22.75    | 25.00    | 29.50    | 36.00    | 42.75    | 49.50    | 56.00    |
| J                            | 4.69         | 4.69   | 4.69   | 4.69   | 5.63    | 5.63    | 5.63     | 6.38     | 6.38     | 7.56     | 7.56     | 8.31     | 8.31     | 9.88     | 9.88     |
| L                            | 2.00         | 2.00   | 2.00   | 2.00   | 2.44    | 2.44    | 2.44     | 2.84     | 2.84     | 3.47     | 3.47     | 3.47     | 3.47     | 5.06     | 5.06     |
| Q                            | 4.25         | 4.25   | 4.25   | 4.25   | 5.38    | 5.38    | 5.38     | 6.75     | 6.75     | 10.00    | 10.00    | 15.94    | 15.94    | 14.19    | 14.19    |
| R                            | 8.25         | 8.25   | 8.25   | 8.25   | 10.38   | 10.38   | 10.38    | 11.31    | 11.31    | 17.00    | 17.00    | 19.88    | 19.88    | 26.50    | 26.50    |
| Turns to Open                | 32           | 32     | 32     | 32     | 30      | 30      | 30       | 40       | 40       | 44       | 44       | 44       | 136      | 215      | 215      |
| Actuator (see notes)         | MDT-2S       | MDT-2S | MDT-2S | MDT-2S | MDT-3S  | MDT-3S  | MDT-3S   | MDT-4S   | MDT-4S   | MDT-5    | MDT-5    | MDT-5    | MDT-5S   | MDT-6S   | MDT-6S   |

+All dimensions are in inches.



11.14 **Mueller Co.****MUELLER® LINESEAL XPII™ BUTTERFLY VALVES (CLASS 250B) 4"-48" - M.J. ENDS**

Rev. 9-09

**Dimensions - for Lineal XPII Valves - Mechanical Joint Ends, 4"-48" Sizes.**

**NOTES:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request.

Actuator size subject to change based on actual pipeline conditions.

| Dimension+                   | Nomnal Size |        |        |        |        |         |         |         |         |         |          |          |          |          |
|------------------------------|-------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|----------|----------|----------|----------|
|                              | 4"          | 6"     | 8"     | 10"    | 12"    | 14"     | 16"     | 18"     | 20"     | 24"     | 30"      | 36"      | 42"      | 48"      |
| A                            | 5.50        | 6.50   | 7.75   | 9.00   | 10.50  | 11.88   | 13.50   | 14.38   | 16.00   | 18.63   | 21.50    | 25.44    | 29.88    | 34.06    |
| B                            | 3.50        | 5.13   | 6.50   | 9.88   | 11.38  | 12.75   | 14.38   | 15.25   | 16.88   | 18.38   | 24.13    | 28.00    | 32.75    | 36.88    |
| C                            | 9.00        | 11.00  | 13.25  | 15.56  | 17.94  | 20.31   | 22.56   | 24.69   | 27.09   | 31.56   | 39.00    | 45.88    | 53.00    | 59.88    |
| D                            | 8.13        | 8.50   | 8.63   | 9.25   | 9.25   | 11.50   | 12.00   | 12.25   | 12.50   | 13.25   | 18.00    | 22.00    | 22.00    | 24.00    |
| E                            | 1.00        | 1.00   | 1.13   | 1.19   | 1.25   | 1.31    | 1.38    | 1.38    | 1.50    | 1.63    | 1.81     | 2.00     | 2.00     | 2.00     |
| F (number and size of holes) | 4--.75      | 6--.75 | 6--.75 | 8--3/4 | 8--.75 | 10--.75 | 12--.75 | 12--.75 | 14--.75 | 16--.75 | 20--1.00 | 24--1.00 | 28--1.25 | 32--1.25 |
| G                            | 7.50        | 9.50   | 11.75  | 14.00  | 16.25  | 18.75   | 21.00   | 23.25   | 25.50   | 30.00   | 36.88    | 43.75    | 50.63    | 57.50    |
| J                            | 4.69        | 4.69   | 4.69   | 5.63   | 5.63   | 5.63    | 6.38    | 6.38    | 7.56    | 7.56    | 8.31     | 8.31     | 10.19    | 10.19    |
| L                            | 2.00        | 2.00   | 2.00   | 2.44   | 2.44   | 2.44    | 2.84    | 2.84    | 3.47    | 3.47    | 3.94     | 3.94     | 5.06     | 5.06     |
| Q                            | 4.25        | 4.25   | 4.25   | 5.38   | 5.38   | 5.38    | 6.75    | 6.75    | 10.00   | 10.00   | 15.94    | 15.94    | 14.19    | 14.19    |
| R                            | 8.25        | 8.25   | 8.25   | 10.38  | 10.38  | 10.38   | 11.31   | 11.31   | 17.00   | 17.00   | 19.88    | 19.88    | 26.50    | 26.50    |
| X                            | 3.13        | 3.50   | 3.63   | 4.25   | 4.25   | 4.50    | 5.00    | 5.25    | 5.50    | 6.38    | 10.00    | 14.00    | 14.00    | 16.00    |
| Turns to Open                | 32          | 32     | 32     | 30     | 30     | 30      | 40      | 40      | 44      | 44      | 136      | 136      | 215      | 215      |
| Actuator (see notes)         | MDT-2S      | MDT-2S | MDT-2S | MDT-3S | MDT-3S | MDT-3S  | MDT-4S  | MDT-4S  | MDT-5   | MDT-5   | MDT-5S   | MDT-5S   | MDT-6S   | MDT-6S   |

+All dimensions are in inches.

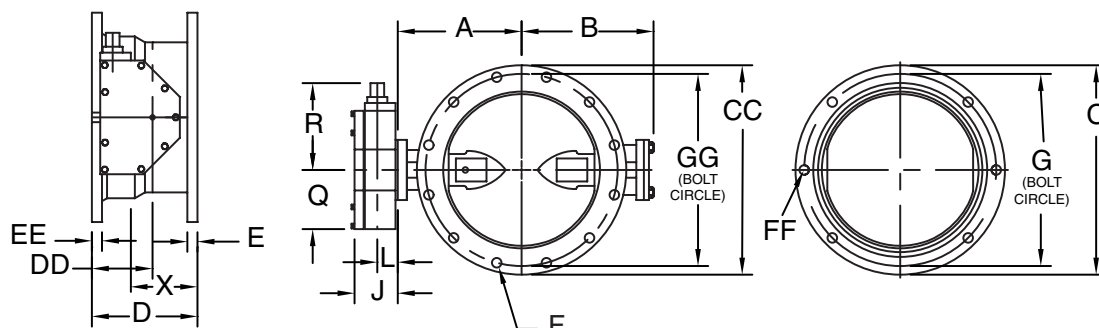


# MUELLER® LINESEAL XP11™ BUTTERFLY VALVES (CLASS 250B) 6"-36" - FL x M.J. ENDS

**Mueller Co.** 11.15

Rev. 9-09

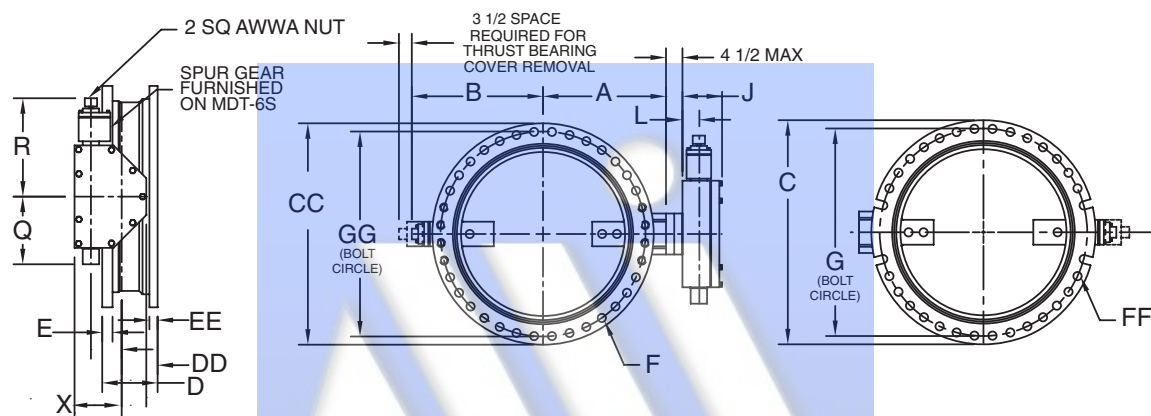
## Dimensions - for Lineal XP11 Valves - Flange Ends x Mechanical Joint Ends 6"-20" Sizes.



### CAUTION

When using 10" and 12" MJ End Valves on Class 200 C900 PVC Pipe, consult installation instructions supplied with valve for specific installation procedures.

## Dimensions - for Lineal XP11 Valves - Flange Ends x Mechanical Joint Ends 24"-36" Sizes.



**NOTES:** These dimensions are correct at time of publication but are not to be construed as certified drawings. Certified drawings are available upon request.

Actuator size subject to change based on actual pipeline conditions.

| Dimension+                   | Nomnal Size |        |         |         |          |          |          |          |          |          |          |
|------------------------------|-------------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
|                              | 6"          | 8"     | 10"     | 12"     | 14"      | 16"      | 18"      | 20"      | 24"      | 30"      | 36"      |
| A                            | 6.50        | 7.75   | 9.00    | 10.50   | 11.88    | 13.50    | 14.38    | 16.00    | 18.63    | 21.50    | 25.44    |
| B                            | 5.13        | 6.50   | 9.88    | 11.38   | 12.75    | 14.38    | 15.25    | 16.88    | 18.63    | 24.38    | 28.25    |
| C                            | 11.00       | 13.50  | 16.00   | 19.00   | 21.00    | 23.50    | 25.00    | 27.50    | 32.00    | 38.75    | 46.00    |
| CC                           | 11.00       | 13.25  | 15.56   | 17.94   | 20.31    | 22.56    | 24.69    | 27.09    | 31.56    | 39.00    | 45.88    |
| D                            | 6.75        | 7.31   | 8.63    | 8.63    | 9.75     | 10.00    | 10.13    | 10.25    | 10.63    | 15.00    | 17.00    |
| DD                           | 4.25        | 4.31   | 4.63    | 4.63    | 5.75     | 6.00     | 6.13     | 6.25     | 6.63     | 9.00     | 11.00    |
| E                            | 1.06        | 1.13   | 1.25    | 1.25    | 1.38     | 1.44     | 1.56     | 1.69     | 1.88     | 2.13     | 2.38     |
| EE                           | 1.06        | 1.13   | 1.19    | 1.25    | 1.31     | 1.38     | 1.44     | 1.50     | 1.63     | 1.81     | 2.00     |
| F (number and size of holes) | 8--.75      | 8--.75 | 12--.88 | 12--.88 | 12--1.00 | 16--1.00 | 16--1.13 | 20--1.13 | 20--1.25 | 28--1.25 | 32--1.50 |
| FF                           | 6--.75      | 6--.75 | 8--.75  | 8--.75  | 10--.75  | 12--.75  | 12--.75  | 14--.75  | 16--.75  | 20--1.00 | 24--1.00 |
| G                            | 9.50        | 11.75  | 14.25   | 17.00   | 18.75    | 21.25    | 22.75    | 25.00    | 29.50    | 36.00    | 42.75    |
| GG                           | 9.50        | 11.75  | 14.00   | 16.25   | 18.75    | 21.00    | 23.25    | 25.50    | 30.00    | 36.88    | 43.75    |
| J                            | 4.69        | 4.69   | 5.63    | 5.63    | 5.63     | 6.38     | 6.38     | 7.56     | 7.56     | 8.31     | 8.31     |
| L                            | 2.00        | 2.00   | 2.44    | 2.44    | 2.44     | 2.84     | 2.84     | 3.47     | 3.47     | 3.94     | 3.94     |
| Q                            | 4.25        | 4.25   | 5.38    | 5.38    | 5.38     | 6.75     | 6.75     | 10.00    | 10.00    | 15.94    | 15.94    |
| R                            | 8.25        | 8.25   | 10.38   | 10.38   | 10.38    | 11.31    | 11.31    | 17.00    | 17.00    | 19.88    | 19.88    |
| X                            | 4.25        | 4.81   | 6.13    | 6.13    | 6.25     | 6.50     | 6.63     | 6.75     | 7.13     | 11.00    | 13.00    |
| Turns to Open                | 32          | 32     | 30      | 30      | 30       | 40       | 40       | 44       | 44       | 136      | 136      |
| Actuator (see notes)         | MDT-2S      | MDT-2S | MDT-3S  | MDT-3S  | MDT-3S   | MDT-4S   | MDT-4S   | MDT-5    | MDT-5    | MDT-5S   | MDT-5S   |

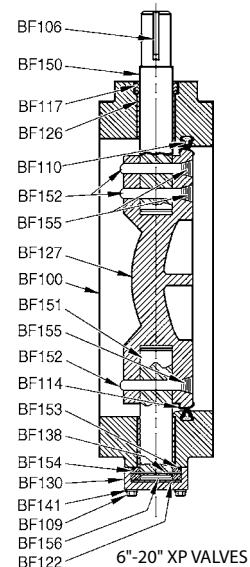
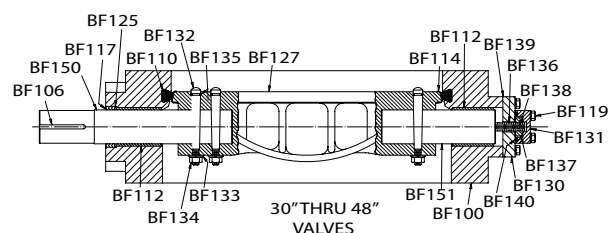
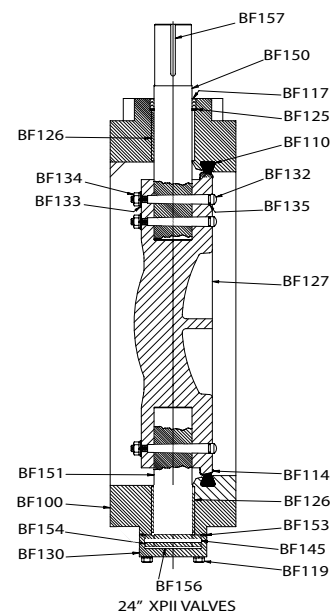
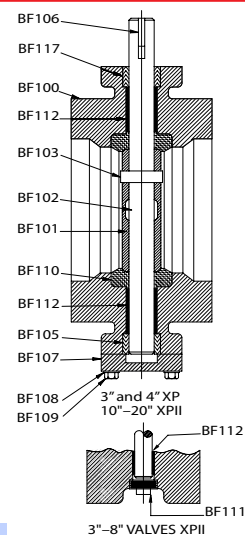
+All dimensions are in inches.

11.16 **Mueller Co.****MUELLER® LINESEAL XP™ & XP11™  
BUTTERFLY VALVES (CLASS 250B) 3"- 48"\*-PARTS**

Rev. 9-09

**Lineal XP & XP11 Butterfly Valve Replacement Parts**

| Catalog Part No. | Description         | Material                                                                                                      |
|------------------|---------------------|---------------------------------------------------------------------------------------------------------------|
| BF100            | Body                | Ductile Iron ASTM A-536 (65-45-12)                                                                            |
| BF101            | Disc                | Ductile Iron ASTM A-536 (65-45-12), Edge Type 316 Stainless Steel (3" and 4" Cast Stainless Steel Grade CF8M) |
| BF102            | Shaft               | Stainless Steel ASTM A-564 Type 630 Cond. H-1150                                                              |
| BF103            | Squeeze Pin         | Stainless Steel ASTM A-564 Type 630 Cond. H-1150                                                              |
| BF106            | Key                 | Steel AISI C-1045                                                                                             |
| BF107            | Cover               | Cast iron ASTM A-48 Class 40                                                                                  |
| BF108            | Lockwasher          | Stainless ASTM A-276 Type 304                                                                                 |
| BF109            | Capscrew            | Stainless ASTM A-276 Type 304                                                                                 |
| BF110            | Seat                | Buna N (EPDM optional)                                                                                        |
| BF111            | Plug                | Cast iron pipe plug                                                                                           |
| BF112            | Bearings            | PTFE Lined Stainless Steel (3"-4" Nylon)                                                                      |
| BF114            | Disc edge           | Stainless Steel ASTM A-240 Type 316                                                                           |
| BF117            | Packing             | Buna N Chevron V Type                                                                                         |
| BF119            | Capscrews           | Stainless Steel Type 304                                                                                      |
| BF125            | Packing retainer    | Nylon                                                                                                         |
| BF126            | Bearings            | PTFE Lined, Fiberglass backed                                                                                 |
| BF127            | Disc                | Ductile Iron ASTM A-536 Grade 65-45-12                                                                        |
| BF130            | Bottom cover        | Cast Iron ASTM A-126 ClassB                                                                                   |
| BF131            | Bottom cover cap    | Cast Iron ASTM A-126 ClassB                                                                                   |
| BF132            | Taper pins          | Stainless Steel Type 630 ASTM A-564 Cond. H-1150                                                              |
| BF133            | Lockwashers         | Stainless Steel Type 304                                                                                      |
| BF134            | Hex nuts            | Stainless Steel Type 304                                                                                      |
| BF135            | O-rings             | Buna N (EPDM Optional)                                                                                        |
| BF136            | Thrust bearing stud | Stainless Steel ASTM A-564 Type 630 Cond. H-1150                                                              |
| BF137            | Thrust collar       | Bronze ASTM B-505 Alloy C93200                                                                                |
| BF138            | Groove pin          | Alloy Steel                                                                                                   |
| BF139            | Bottom cover gasket | Non Asbestos material ASTM F104                                                                               |
| BF140            | O-ring              | Buna N (EPDM optional)                                                                                        |
| BF150            | Top stub shaft      | Stainless Steel Type 630 ASTM A-564 Cond. H1150                                                               |
| BF151            | Bottom stub shaft   | Stainless Steel Type 630 ASTM A-564 Cond. H1150                                                               |
| BF152            | Pins                | Stainless Steel Type 420                                                                                      |
| BF153            | O-ring              | Buna N (EPDM Optional)                                                                                        |
| BF154            | Thrust collar       | Bronze ASTM B-505 Alloy C93200                                                                                |
| BF155            | Plugs               |                                                                                                               |
| BF156            | Thrust shim         | Brass Alloy C26000 Half Hard (HO2)                                                                            |
| BF157            | Key                 | Carbon Steel ANSI 1018                                                                                        |
| BF158            | Thrust washer       |                                                                                                               |



\* Contact your Mueller representative for sizes larger than 48".

11.20 **Mueller Co.**

Rev. 9-09

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**MATERIALES INDUSTRIALES DEL SURESTE, S.A. DE C.V.**

Av. Hidalgo No. 511, Col. La libertad,  
C.P. 72130, Puebla, Pue.  
Tel. (222) 141-3100  
Fax. (222) 141-3106  
[ventasweb@materialesdelsureste.com](mailto:ventasweb@materialesdelsureste.com)  
[www.materialesdelsureste.com](http://www.materialesdelsureste.com)

**CANCUN**

Av. Nichupte Lote 38 No. Int. 1  
Col. Region 251 C.P. 77536,  
Cancun, Quintana Roo Tel. (998) 847-5794  
[ventas Cancun@materialesdelsureste.com](mailto:ventas Cancun@materialesdelsureste.com)

**MERIDA**

Calle 67 No. 652-A Por 84 y 86,  
Col. Centro, C.P. 9700, Merida, Yucatan,  
Tel. (999) 928-4536  
[merida@materialesdelsureste.com](mailto:merida@materialesdelsureste.com)

**MONTERREY**

Limón No. 2710, Col. Moderna  
C.P. 64530, Monterrey Nuevo León,  
Tel. (81) 8191-9030  
[ventasmtty@materialesdelsureste.com](mailto:ventasmtty@materialesdelsureste.com)

**ORIZABA**

Av. Sn Juan No. 49, Col. Unión y Progreso,  
C.P. 94450, Escamela, Ixtaczoquitlán,  
Veracruz, Ver. Tel. (272) 721-1217  
[orizaba@materialesdelsureste.com](mailto:orizaba@materialesdelsureste.com)