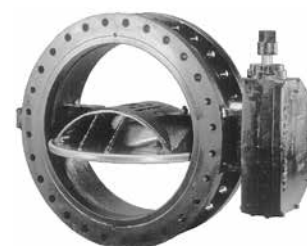


# BUTTERFLY VALVES (Class 150B) 3" - 48"

- 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"
- 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 8 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

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

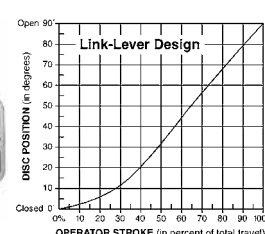
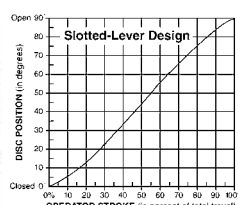
- MDT Actuator with handwheel or chainwheel and position indicator
- MDT Actuator with cylinder actuator (also available with manual override, handjack and 4-way solenoid valve)
- Hand lever for 3"-10" valves
- 200 psi test
- EPDM Rubber seat and seals
- 316 Stainless steel fasteners
- Additional mils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

## Standard Buried Service Actuators

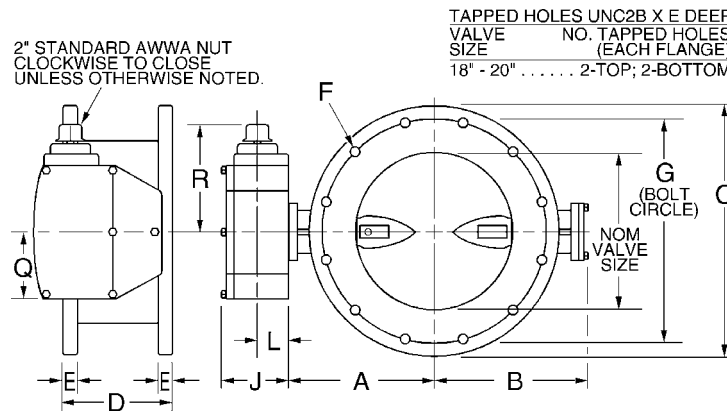
Note: Actuator size subject to change based on actual pipeline conditions.

| Valve size | Actuator | Number of turns |
|------------|----------|-----------------|
| 3"-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             |

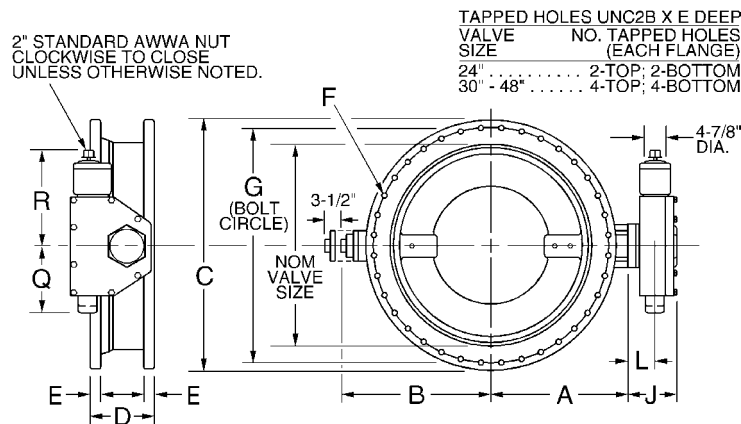
### Slotted-Lever (3"-12")



## Dimensions - for Line seal III Valves Flanged (Class 125) Ends, 3"-20" Sizes.



## Dimensions - for Line seal 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.

PROVIDED AS A COURTESY BY: and +1/8" for 12"-48" valves per Flange Standard ANSI B16.1.

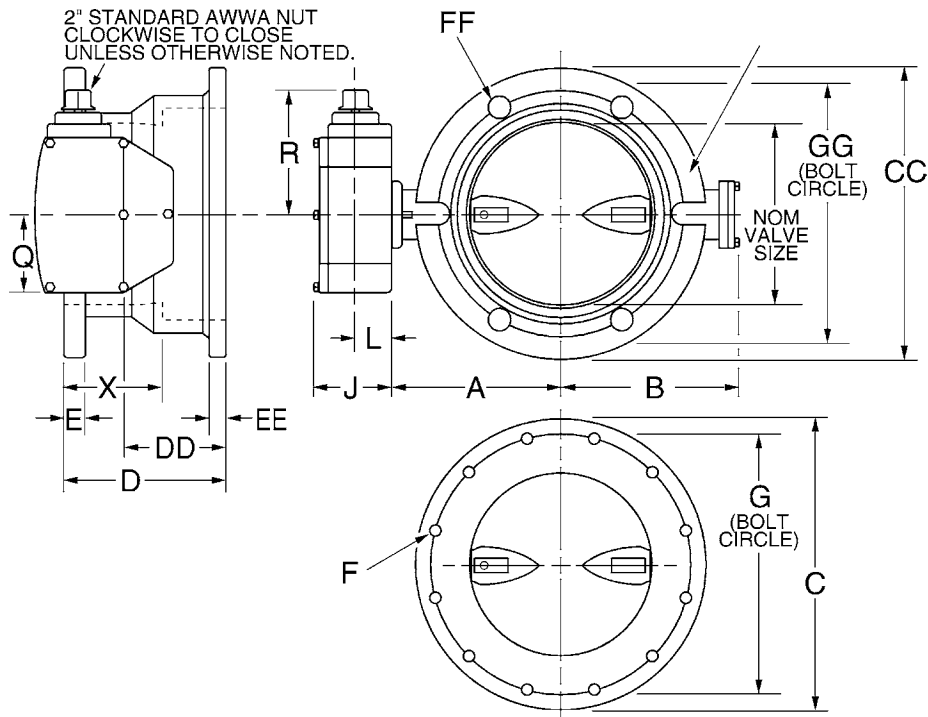
# MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 6"-20" - M.J. X FL.

**Mueller Co.**

**11.5**

Rev. 9-09

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



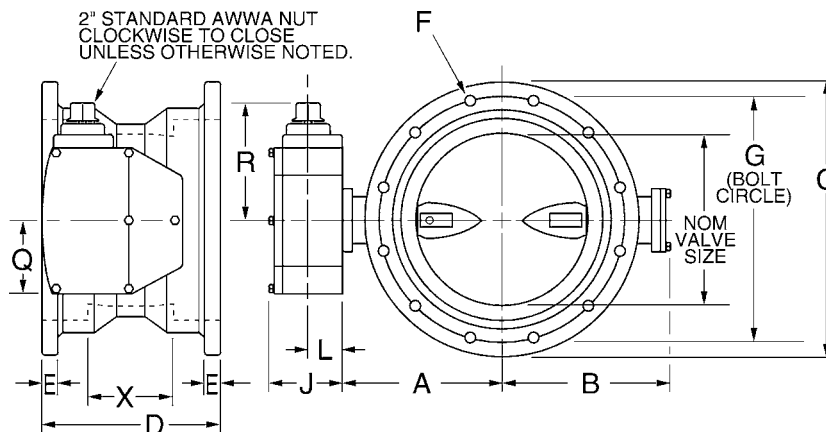
## CAUTION

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   |

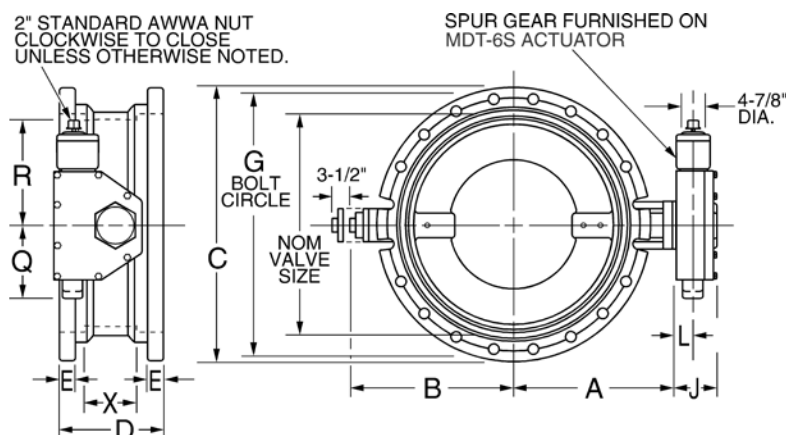
## Dimensions - for Lineseal III Valves M.J. Ends, 4"-20" Sizes.



## 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   |

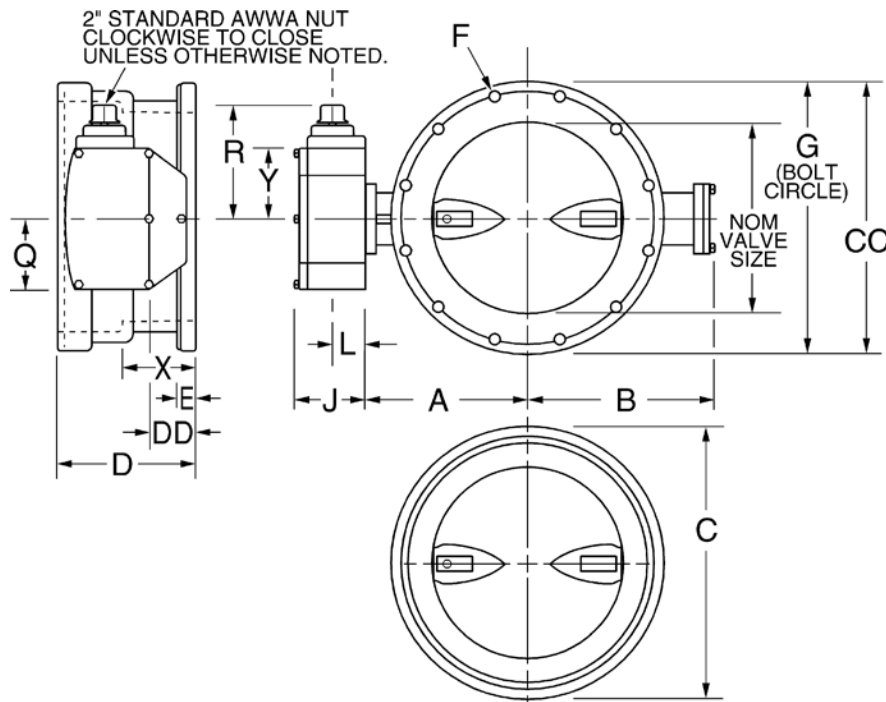
# MUELLER® LINESEAL III® BUTTERFLY VALVES CLASS 150B 12", 16" - SL. X FL.

**Mueller Co.**

**11.7**

Rev. 9-09

**Dimensions - for Lineseal 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.

PROVIDED AS A COURTESY BY:

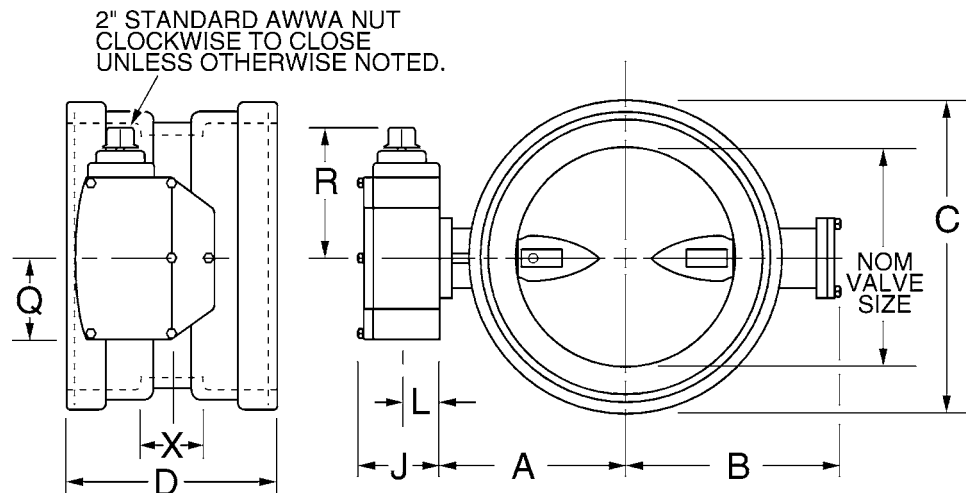


this valve for use with Tyton™ Rubber Ring Gasket (Tyton is a registered Trade Mark of U.S. Pipe & Foundry Co.).

## Dimensions - for Mueller Lineseal III Butterfly Valves Slip-on Ends, 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        | 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 is NOT FOR USE with IPS O.D. Pipe.

# 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 you Mueller representative for sizes larger than 48".

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

