



**MILWAUKEE VALVE**

## **PRODUCT BULLETIN**

**IND-51017**

**DATE 05/10/17**

### **Automated "C" Series Butterfly Valve Assembly Program**

We would like to introduce a new series of products being added to the actuation group. We will now provide pre-sized and pre-assembled actuated "C" series butterfly valves mounted with electric or pneumatic actuators. Available direct from stock or assembled for quick shipment.

Our goal is to simplify the process of selecting automated butterfly packages by providing the most commonly sold butterfly valve and actuation components (\*\*usually HVAC/water service) in pre-assembled units.

The pre-assembled valves, same as the standard "C" series butterfly valves, can be used for the following applications:

- HVAC service: Water or glycol service
- 0 - 200 psi line pressure
- 0 - 250° F
- On/off service
- Pneumatic actuation: Spring return or double-acting / 80 psi air supply with 120 VAC solenoid attached \*
- Electric actuation: 120VAC / NEMA 4 housing / manual override / visual position indicator / two limit switches for remote position indication\*

The part-number configuration will include the "C" series valve and actuator, along with mounting and testing from the factory.

#### **CLA23E-XXX 2" - 12"**

Cast Iron Lug Pattern Automated Air-to-Air Pneumatic Butterfly Valve

#### **CLB23E-XXX 2" - 12"**

Cast Iron Lug Pattern Automated Spring Return Pneumatic Butterfly Valve

#### **CLC23E-XXX 2" - 12"**

Cast Iron Lug Pattern Automated 120VAC Electric Butterfly Valve

Attached is a list price sheet with descriptions. All active customers are set-up in the AS400 with a list price and discount of less 30% (.70).

Cut sheets are also attached with descriptions, specifications, and dimensional data.

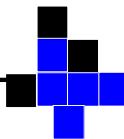
\*\*Please contact customer service for recommendations and actuator sizing when dirty or severe service conditions may apply.

\*Contact the factory for additional options. Limit Switches and different operating voltages

This information, and more, can be found at [www.milwaukeevalve.com](http://www.milwaukeevalve.com).

If you have questions, please let me know.

**INNOVATION** IN EVERY VALVE





# Automated Butterfly Valve MAP-0417

## Assembly Packages

Effective: May 1, 2017

*Suggested list prices are subject to change without notification. Visit our Website for the most up-to-date product information.*

| Milwaukee Valve Butterfly Valve Assembly Packages Configurator |            |  |               |                  |                |
|--|------------|--|---------------|------------------|----------------|
| C  | L          | A  | 2             | 3                | E              |
| Valve Series   | Body Style | Operator Type  | Body Material | Disc Material    | Liner Material |
| C  | L - Lug    | A - Air-Air W/Sol<br>B - Sprg Ret W/Sol<br>C - Elec 120V | 2 - Cast Iron | 3 - Alumn Bronze | E - EPDM       |

**C-SERIES AUTOMATED BUTTERFLY VALVE  
ASSEMBLY PACKAGES**  
**CAST IRON BODY, ALUMINUM BRONZE DISC & EPDM LINER**  
**2" - 12" RATED 200 PSI**

| CL SERIES - LUG PATTERN                                    |               |                |           |
|--|---------------|----------------|-----------|
| CAST IRON BODY,<br>ALUMINUM BRONZE DISC, EPDM LINER, W/ACT |               |                |           |
| MODEL  | CLA23E        | CLB23E         | CLC23E    |
| SIZE   | Air-Air W/Sol | Sprg Ret W/Sol | Elec 120V |
| 2"   | 662.23        | 706.49         | 936.33    |
| 2 1/2"   | 666.95        | 711.22         | 941.05    |
| 3"   | 672.51        | 860.71         | 946.62    |
| 4"   | 742.34        | 968.04         | 1,554.37  |
| 5"   | 826.62        | 1,273.73       | 1,581.94  |
| 6"   | 929.16        | 1,426.60       | 1,835.82  |
| 8"   | 1,297.64      | 2,141.93       | 2,050.72  |
| 10"  | 1,507.70      | 2,797.20       | 3,531.61  |
| 12"  | 1,614.32      | 3,190.37       | 4,058.93  |

Visit our website for complete product details, information and terms and conditions of sale.

Milwaukee Valve Company | 16550 West Stratton Drive | New Berlin | WI | 53151

Phone: (262) 432-2700

Website: [www.milwaukeevalve.com](http://www.milwaukeevalve.com)

## MILWAUKEE VALVE CO AUTOMATED BUTTERFLY VALVE ASSEMBLY PACKAGES

RESILIENT SEATED BUTTERFLY CAST IRON LUG  
 PATTERN BODY, EDPM LINER 200 WOG  
 ALUMINUM BRONZE DISC AND 416 STEM,  
 MOUNTED WITH A DOUBLE ACTING AIR/AIR  
 ACTUATOR SIZED @ 80 PSI SUPPLY W/ 120VAC 4  
 WAY NEMA 4/4X NAMUR MOUNT SOLENOID  
 VALVE FOR ON AND OFF SERVICE. ASSEMBLED  
 AND TESTED

| Model number Double Acting | Size  | List        |
|----------------------------|-------|-------------|
| CLA23E -XXX                | 2     | \$ 662.23   |
|                            | 2 1/2 | \$ 666.95   |
|                            | 3     | \$ 672.51   |
|                            | 4     | \$ 742.34   |
|                            | 5     | \$ 826.62   |
|                            | 6     | \$ 929.16   |
|                            | 8     | \$ 1,297.64 |
|                            | 10    | \$ 1,507.70 |
|                            | 12    | \$ 1,614.32 |



RESILIENT SEATED BUTTERFLY CAST IRON LUG  
 PATTERN BODY, EDPM LINER 200 WOG  
 ALUMINUM BRONZE DISC AND 416 STEM,  
 MOUNTED WITH A SPRING RETURN FAIL CLOSED  
 ACTUATOR SIZED @ 80 PSI SUPPLY W/120 VAC 3  
 WAY NEMA 4/4X NAMUR MOUNT SOLENOID  
 VALVE FOR ON AND OFF SERVICE. ASSEMBLED  
 AND TESTED

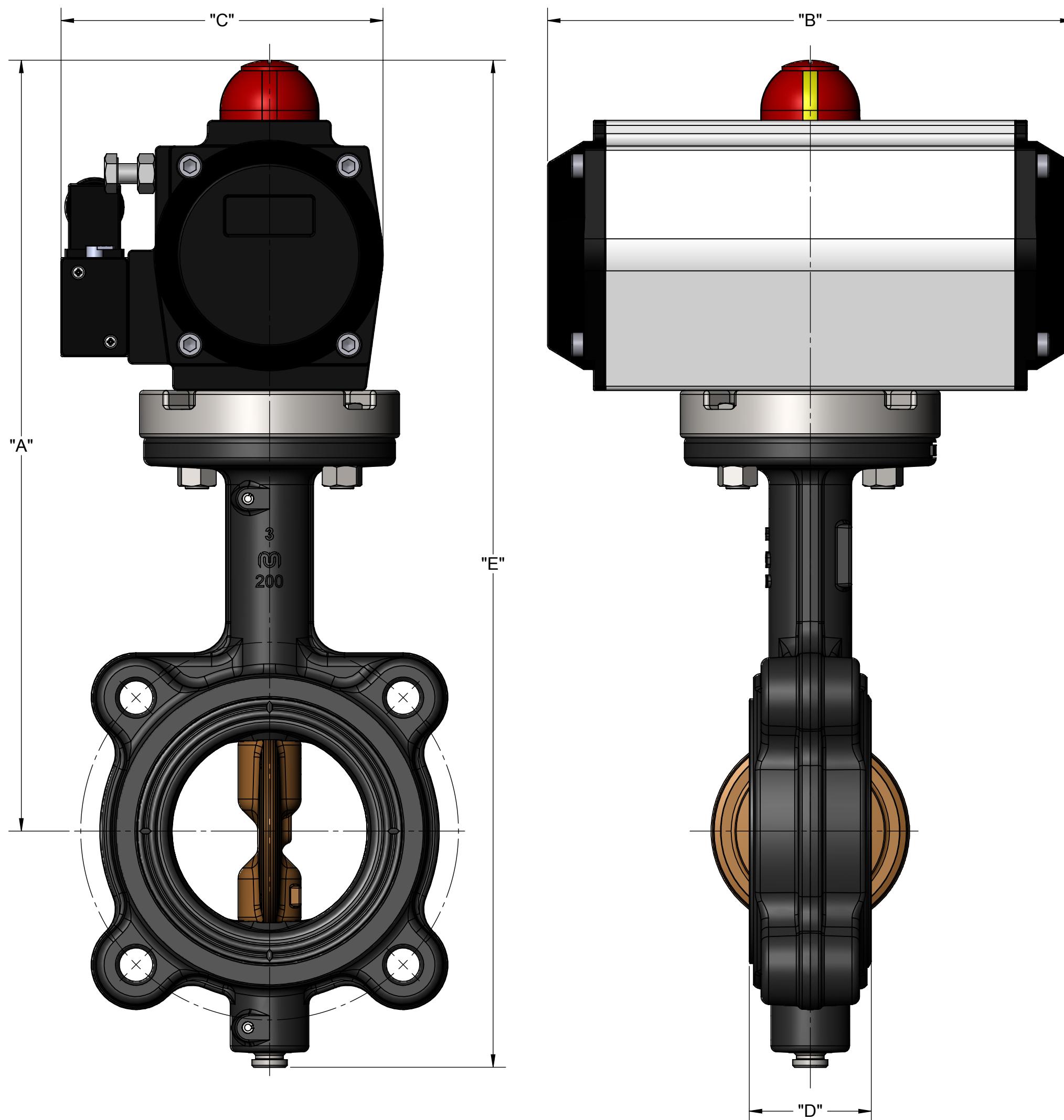
| Model number Spring Return | Size  | List        |
|----------------------------|-------|-------------|
| CLB23E -XXX                | 2     | \$ 706.49   |
|                            | 2 1/2 | \$ 711.22   |
|                            | 3     | \$ 860.71   |
|                            | 4     | \$ 968.04   |
|                            | 5     | \$ 1,273.73 |
|                            | 6     | \$ 1,426.60 |
|                            | 8     | \$ 2,141.93 |
|                            | 10    | \$ 2,797.20 |
|                            | 12    | \$ 3,190.37 |



RESILIENT SEATED BUTTERFLY CAST IRON LUG  
 PATTERN BODY, EDPM LINER 200 WOG  
 ALUMINUM BRONZE DISC AND 416 STEM,  
 MOUNTED WITH 120 VAC,60HZ,1PH. ELECTRIC  
 ACTUATOR, NEMA 4/4X HOUSING, DE  
 CLUTCHABLE MANUAL OVERRIDE, POSITION  
 INDICATOR 25% DUTY CYCLE FOR ON AND OFF  
 SERVICE. ASSEMBLED AND TESTED

| Model number Electric 120VAC | Size  | List        |
|------------------------------|-------|-------------|
| CLC23E -XXX                  | 2     | \$ 936.33   |
|                              | 2 1/2 | \$ 941.05   |
|                              | 3     | \$ 946.62   |
|                              | 4     | \$ 1,554.37 |
|                              | 5     | \$ 1,581.94 |
|                              | 6     | \$ 1,835.82 |
|                              | 8     | \$ 2,050.72 |
|                              | 10    | \$ 3,531.61 |
|                              | 12    | \$ 4,058.93 |

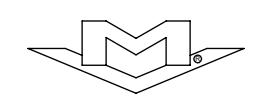




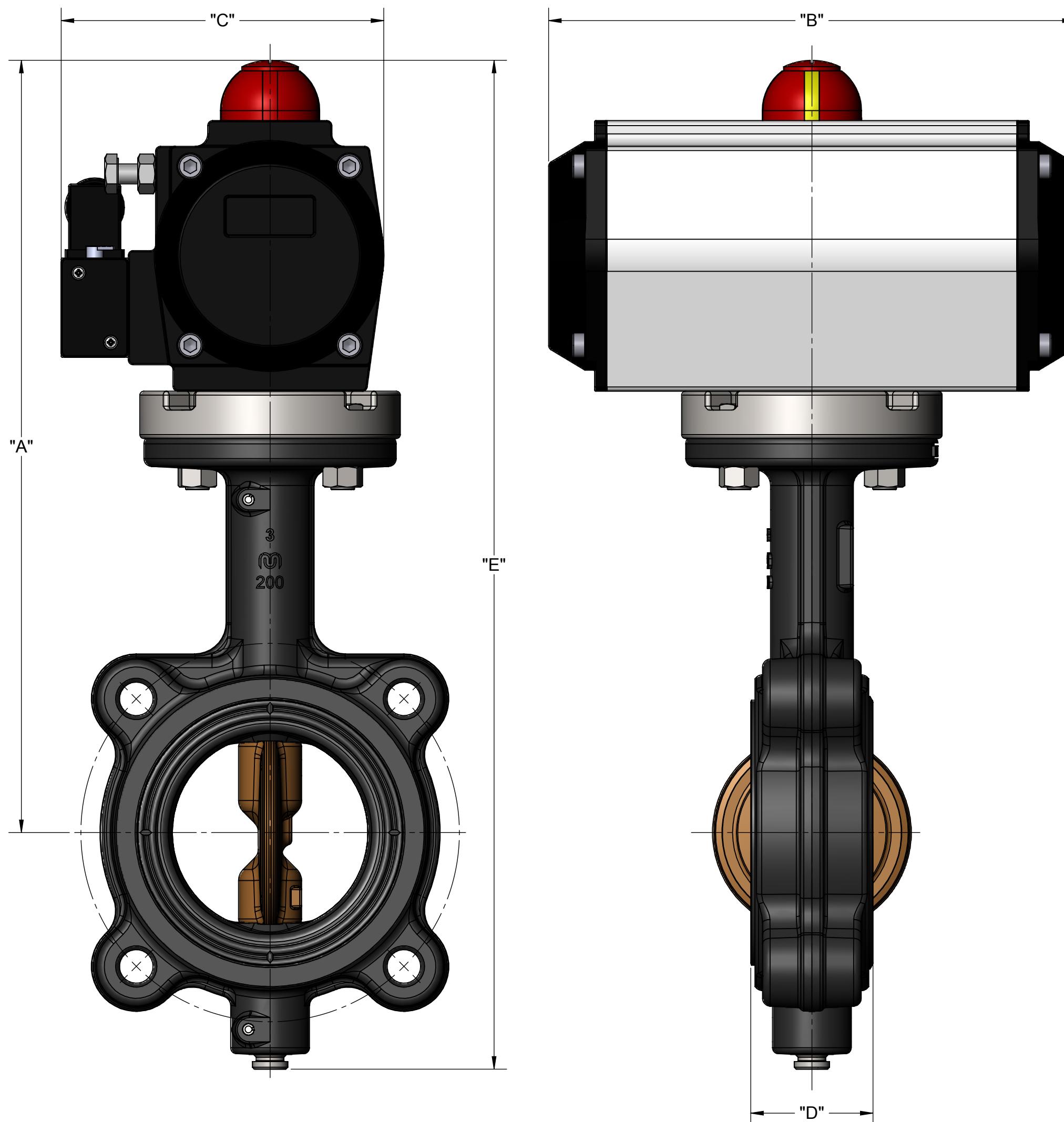
## CLA23E Air-to-Air Pneumatic Butterfly Valve 2" - 12"

- Cast Iron
- Lug Pattern
- Aluminum Bronze Disc
- EPDM Liner
- 200 WOG
- Temp Range: 0° to 250° F for HVAC service
- Double-acting actuator sized for 80 psi air supply
- 120V four-way NEMA 4/4x NAMUR mounted solenoid
- For on/off service

| Air-to-Air Actuator Assembly Dimensions |          |       |       |      |      |       |
|---|----------|-------|-------|------|------|-------|
| Valve                                   | Model    |       |       |      |      |       |
| Size                                    | Actuator | A "   | B "   | C "  | D "  | E "   |
| 2                                       | MC3C     | 10.48 | 6.61  | 2.83 | 1.69 | 13.54 |
| 2 1/2                                   | MC3C     | 10.98 | 6.61  | 2.83 | 1.81 | 14.29 |
| 3                                       | MC3C     | 11.23 | 6.61  | 2.83 | 1.81 | 14.98 |
| 4                                       | MC5C     | 12.45 | 7.24  | 3.19 | 2.07 | 16.70 |
| 5                                       | MC5C     | 12.98 | 7.24  | 3.19 | 2.19 | 17.92 |
| 6                                       | MC10C    | 14.14 | 10.31 | 3.86 | 2.19 | 19.70 |
| 8                                       | MC29C    | 17.70 | 11.65 | 5.02 | 2.38 | 23.26 |
| 10                                      | MC29C    | 18.88 | 11.65 | 5.02 | 2.69 | 26.76 |
| 12                                      | MC58C    | 21.97 | 18.03 | 6.22 | 3.06 | 31.22 |

|  |             |             |                                    |  |  |  |  |
|--|-------------|-------------|------------------------------------|--|--|--|--|
|  <b>MILWAUKEE VALVE CO., INC.</b><br><small>NEW BERLIN, WI 53151-7301</small> | DEPARTMENT  | INTL ECN    | TITLE<br>BUTTERFLY W/ AIR ACTUATOR |  |  |  |  |
|  | ENGINEERING | -           |                                    |  |  |  |  |
|  | DWN         |             |                                    |  |  |  |  |
|  | CHKD        |             |                                    |  |  |  |  |
|  | APVD        |             |                                    |  |  |  |  |
|  | MDLD        | 08-21-2012  |                                    |  |  |  |  |
|  | SOLA        |             |                                    |  |  |  |  |
|  | REF NO      |             |                                    |  |  |  |  |
|  | PC NO       | -           |                                    |  |  |  |  |
|  | SIZE        |             |                                    |  |  |  |  |
|  | C           | CAGE CODE   |                                    |  |  |  |  |
|  |             | 76364       |                                    |  |  |  |  |
|  | REG APVL    |             |                                    |  |  |  |  |
|  | SCALE: 1:4  | MASS UNITS: |                                    |  |  |  |  |
|  |             |             |                                    |  |  |  |  |
|  | SHEET       | 1 OF 1      |                                    |  |  |  |  |

This print is the property of Milwaukee Valve Company, Inc. and represents a proprietary article in which Milwaukee Valve Company, Inc. retains any and all patents and other rights, including exclusive rights to the design, structure, function and use of the equipment. Milwaukee Valve Company, Inc. does not convey any permission to reproduce print or manufacture the article or articles shown therein. Such permission to be granted only by specific authorization in writing by an officer or other authorized agent of Milwaukee Valve Company, Inc.



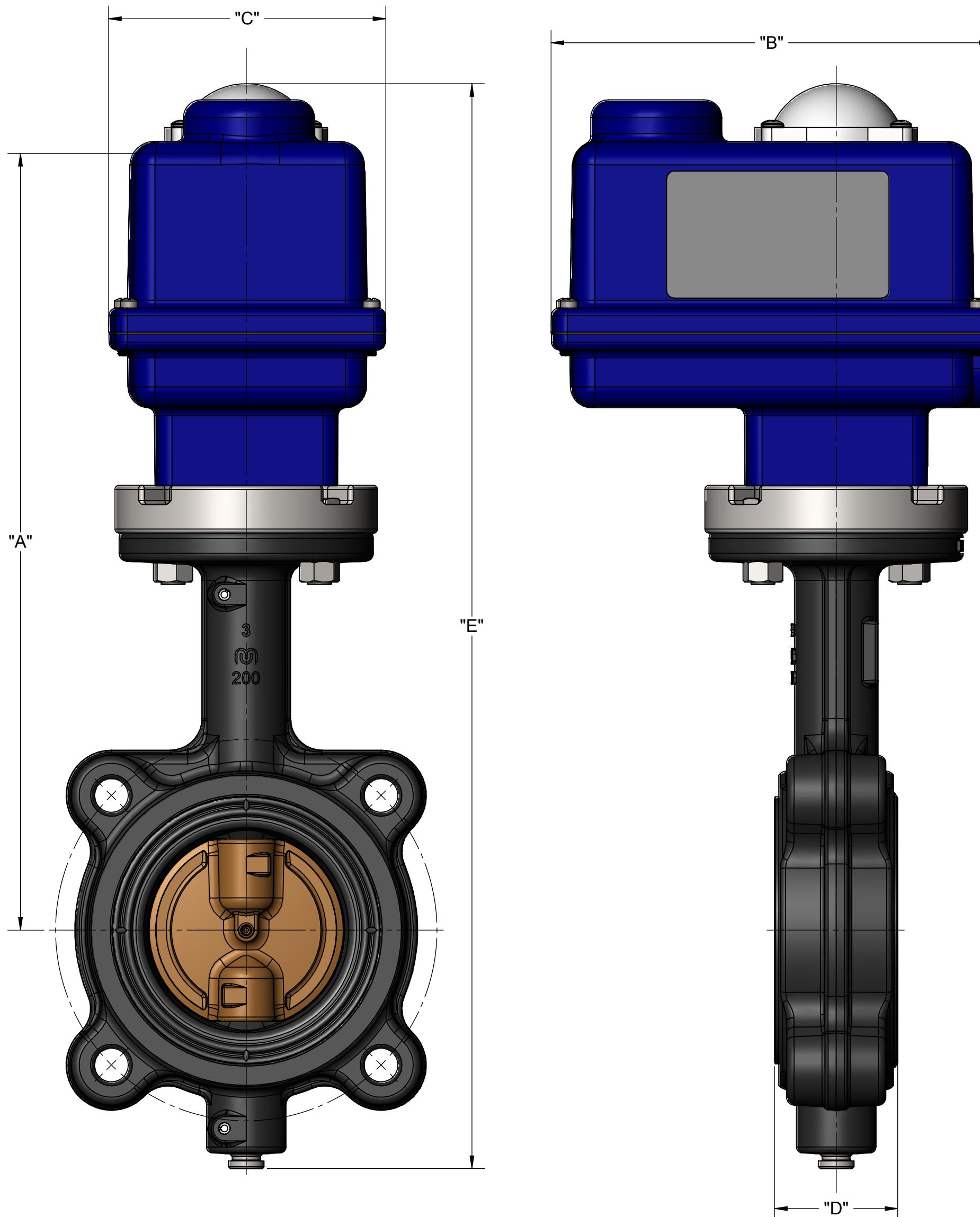
## CLB23E Spring Return Pneumatic Butterfly Valve 2" - 12"

- Cast Iron
- Lug Pattern
- Aluminum Bronze Disc
- EPDM Liner
- 200 WOG
- Temp Range: 0° to 250° F for HVAC service
- Spring return fail closed actuator
- 120V three-way NEMA 4/4x NAMUR mounted solenoid
- For on/off service

| Spring Return Actuator Assembly Dimensions |          |       |       |      |      |       |
|--|----------|-------|-------|------|------|-------|
| Valve                                      | Model    |       |       |      |      |       |
| Size                                       | Actuator | A "   | B "   | C "  | D "  | E "   |
| 2  | MC3S4C   | 10.48 | 6.61  | 2.83 | 1.69 | 13.54 |
| 2 1/2                                      | MC3S4C   | 10.98 | 6.61  | 2.83 | 1.81 | 14.29 |
| 3  | MC5S4C   | 11.70 | 7.24  | 3.19 | 1.81 | 15.45 |
| 4  | MC10S4C  | 13.14 | 10.31 | 3.86 | 2.07 | 17.39 |
| 5  | MC14S4C  | 15.55 | 10.55 | 4.31 | 2.19 | 20.49 |
| 6  | MC29S4C  | 16.89 | 11.65 | 5.02 | 2.19 | 22.45 |
| 8  | MC58S4C  | 19.35 | 18.03 | 6.22 | 2.38 | 24.91 |
| 10   | MC58S4C  | 20.53 | 18.03 | 6.22 | 2.69 | 28.41 |
| 12   | MC121S4C | 27.22 | 22.20 | 8.27 | 3.06 | 36.47 |

|                 |                           |            |  |
|-----------------|---------------------------|------------|--|
|                 | DEPARTMENT<br>ENGINEERING | INTL ECN   | MILWAUKEE VALVE CO., INC.<br>NEW BERLIN, WI 53151-7301 |
|                 | DWN                       | KJS        |  |
| CHKD            |                           |            | TITLE  |
| APVD            |                           |            | BUTTERFLY W/ SPRING RETURN ACTUATOR                    |
| MDL D08-21-2012 | SOLA                      |            |  |
| REF NO          | PC NO                     | SIZE<br>C  | CAGE CODE<br>76364                                     |
|                 | -                         |            | SPRING RETURN ACTUATED                                 |
| REG APVL        |                           | SCALE: 1:4 | MASS UNITS:  |
|                 |                           |            | SHEET 1 OF 1   |

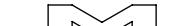
THIS PRINT IS THE PROPERTY OF MILWAUKEE VALVE COMPANY, INC. AND  
REPRESENTS A PROPRIETARY ARTICLE IN WHICH MILWAUKEE VALVE COMPANY, INC.  
RETAINS ANY AND ALL PATENTS AND OTHER RIGHTS, INCLUDING EXCLUSIVE  
RIGHTS TO THE DESIGN, CONSTRUCTION, AND MANUFACTURE. THIS PRINT  
DOES NOT CONVEY ANY PERMISSION TO REPRODUCE PRINT OR MANUFACTURE  
THE ARTICLE OR ARTICLES SHOWN THEREIN. SUCH PERMISSION TO BE GRANTED  
ONLY BY SPECIAL AUTHORIZATION IN WRITING BY AN OFFICER OR OTHER  
AUTHORIZED AGENT OF MILWAUKEE VALVE COMPANY, INC.



# **CLC23E 120VAC Electric Butterfly Valve 2" - 12"**

- Cast Iron
- Lug Pattern
- Aluminum Bronze Disc
- EPDM Liner
- 200 WOG
- Temp Range: 0° to 250° F for HVAC service
- 120VAC NEMA 4 rated electric actuator
- 25% duty cycle
- For on/off service
- Two limit switches
- Manual override
- Visual position indicator

| 120 VAC Electric Actuator Assembly Dimensions |           |       |       |       |      |       |
|---|-----------|-------|-------|-------|------|-------|
| Valve   | Model     |       |       |       |      |       |
| Size  | Actuator  | A "   | B "   | C "   | D "  | E "   |
| 2   | MCRB200I  | 12.55 | 6.88  | 4.25  | 1.69 | 15.61 |
| 2 1/2   | MCRB200I  | 13.05 | 6.88  | 4.25  | 1.81 | 16.36 |
| 3   | MCRB200I  | 13.3  | 6.88  | 4.25  | 1.81 | 17.05 |
| 4   | MCRB675I  | 18.26 | 7.00  | 7.00  | 2.07 | 22.51 |
| 5   | MCRB675I  | 19.15 | 7.00  | 7.00  | 2.19 | 24.09 |
| 6   | MCRB1000I | 19.62 | 7.00  | 7.00  | 2.19 | 25.18 |
| 8   | MCRB1500I | 21.00 | 7.00  | 7.00  | 2.38 | 26.56 |
| 10  | AT25-25   | 18.93 | 16.25 | 27.38 | 2.69 | 26.81 |
| 12  | AT50-25   | 25.30 | 16.25 | 28.38 | 3.06 | 34.55 |

|  |                           |            |                    |  |                    |                             |             |                 |
|--|---------------------------|------------|--------------------|--|--------------------|-----------------------------|-------------|-----------------|
| <br><b>UNITS</b><br>in [mm]<br>PRIMARY / SECONDARY  | DEPARTMENT<br>ENGINEERING |            | INTL ECN<br>150447 | <br><b>MILWAUKEE VALVE CO., INC.</b><br>NEW BERLIN, WI 53151-7301 |                    |                             |             |                 |
|  | DWN                       | 11/22/2016 | KJS                |  |                    |                             |             |                 |
|  | CHKD                      |            |                    |  |                    |                             |             |                 |
|  | APVD                      |            |                    |  |                    |                             |             |                 |
|  | MDLD                      | 08-21-2012 | SOLA               |  |                    |                             |             |                 |
|  |                           |            |                    |  |                    |                             |             |                 |
| <b>THIRD ANGLE<br/>PROJECTION</b>   |                           |            |                    |  |                    |                             |             |                 |
| THIS PRINT IS THE PROPERTY OF MILWAUKEE VALVE COMPANY, INC. AND<br>REPRESENTS A PROPRIETARY ARTICLE IN WHICH MILWAUKEE VALVE COMPANY, INC.<br>RETAINS ANY AND ALL PATENTS AND OTHER RIGHTS, INCLUDING EXCLUSIVE<br>RIGHTS OF USE AND/OR MANUFACTURE AND/OR SALE. POSSESSION OF THIS PRINT<br>DOES NOT CONVEY ANY PERMISSION TO REPRODUCE PRINT OR MANUFACTURE<br>THE ARTICLE OR ARTICLES SHOWN THEREIN; SUCH PERMISSION TO BE GRANTED<br>ONLY BY SPECIFIC AUTHORIZATION IN WRITING, SIGNED BY AN OFFICER OR OTHER<br>AUTHORIZED AGENT OF MILWAUKEE VALVE COMPANY, INC. |                           |            |                    |  |                    |                             |             |                 |
| REF NO   |                           |            | PC NO<br>-         | SIZE<br>C  | CAGE CODE<br>76364 | ELECTRIC ACTUATED BUTTERFLY |             | REV<br>1        |
| REG  | APVL                      |            |                    |  |                    | SCALE: 1:4                  | MASS UNITS: | SHEET<br>1 OF 1 |