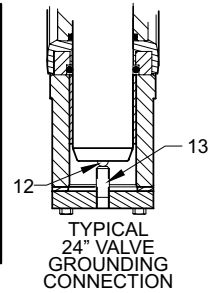
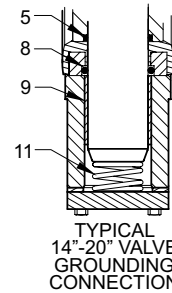
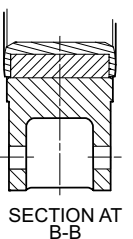
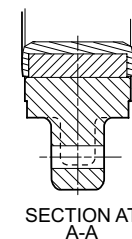
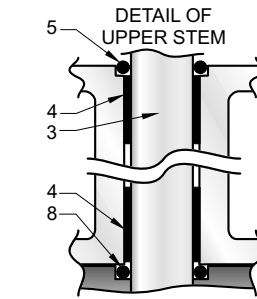
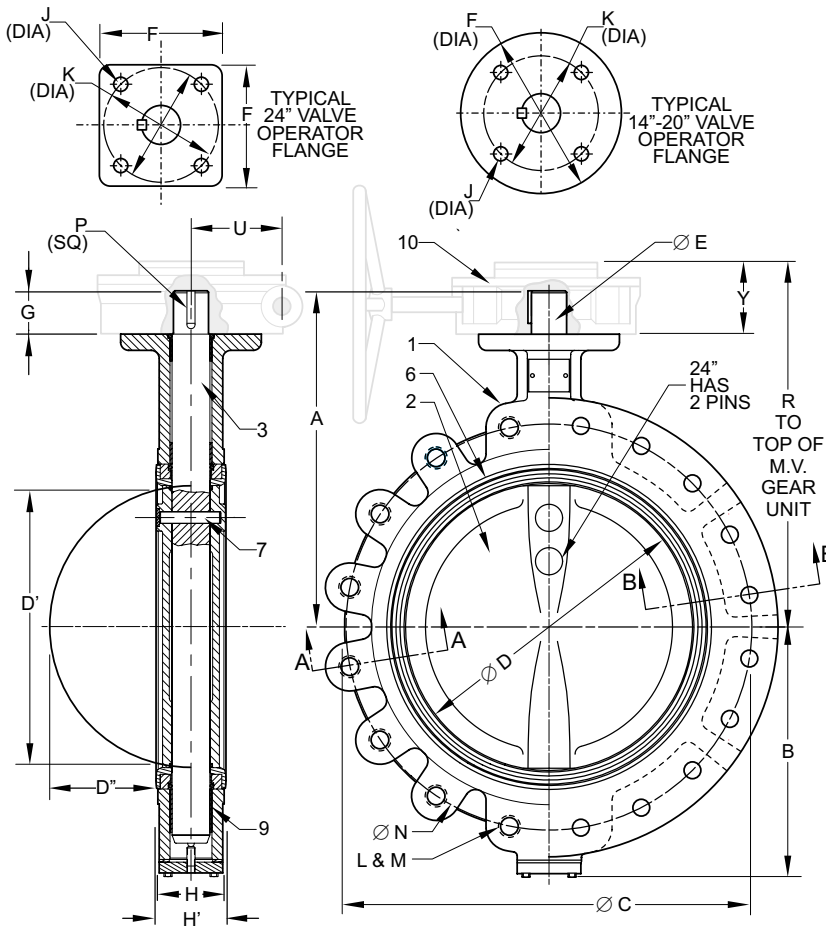


# BUTTERFLY VALVE

# CL SERIES-REV. C

**14" - 24" 150 PSI (1035 kPa)**

Specifications: API-609  
MSS SP-67



## DIMENSIONS

| DIMENSION | VALVE SIZE   |                |                |                |                |                |
|-----------|--------------|----------------|----------------|----------------|----------------|----------------|
|           | INCHES<br>mm | 14             | 16             | 18             | 20             | 24             |
| A         | INCHES<br>mm | 15.50<br>393.7 | 16.75<br>425.5 | 18.50<br>469.9 | 19.75<br>501.7 | 22.43<br>569.7 |
| B         | INCHES<br>mm | 11.56<br>293.6 | 12.69<br>322.3 | 13.63<br>346.2 | 15.13<br>384.3 | 18.06<br>458.7 |
| C         | INCHES<br>mm | 21.00<br>533.4 | 23.50<br>596.9 | 25.00<br>635.0 | 27.50<br>698.5 | 28.25<br>717.6 |
| D         | INCHES<br>mm | 13.25<br>336.6 | 15.50<br>393.7 | 17.25<br>438.2 | 19.25<br>489.0 | 23.38<br>593.9 |
| D'        | INCHES<br>mm | 13.53<br>343.7 | 14.97<br>380.2 | 16.91<br>429.5 | 18.84<br>478.5 | 22.76<br>578.1 |
| D"        | INCHES<br>mm | 5.0<br>127.3   | 5.8<br>146.1   | 6.4<br>162.1   | 7.1<br>181.1   | 8.7<br>220.0   |
| Intrusion | INCHES<br>mm | 1.625<br>41.3  | 1.625<br>41.3  | 2.125<br>54.0  | 2.125<br>54.0  | 2.125<br>54.0  |
| F         | INCHES<br>mm | 6.50<br>165.1  | 6.50<br>165.1  | 9.50<br>241.3  | 9.50<br>241.3  | 7.50<br>190.5  |
| G         | INCHES<br>mm | 2.00<br>50.8   | 2.00<br>50.8   | 3.00<br>76.2   | 3.00<br>76.2   | 3.06<br>77.7   |
| H         | INCHES<br>mm | 3.06<br>77.7   | 4.00<br>101.6  | 4.50<br>114.3  | 5.00<br>127.0  | 6.06<br>153.9  |
| H'        | INCHES<br>mm | 3.19<br>81.0   | 4.13<br>104.9  | 4.63<br>117.6  | 5.13<br>130.3  | 6.19<br>157.2  |
| J         | INCHES<br>mm | 0.688<br>17.5  | 0.688<br>17.5  | 0.813<br>20.6  | 0.813<br>20.6  | 0.813<br>20.6  |
| K         | INCHES<br>mm | 5.250<br>133.4 | 5.250<br>133.4 | 7.500<br>190.5 | 7.500<br>190.5 | 7.500<br>190.5 |
| L         | No. of Holes | 12             | 16             | 16             | 20             | 20             |
| M         | Thread Size  | 1-8            | 1-8            | 1 1/8-7        | 1 1/8-7        | 1 1/4-7        |
| N         | INCHES<br>mm | 18.75<br>476.3 | 21.25<br>539.8 | 22.75<br>577.9 | 25.00<br>635.0 | 29.50<br>749.3 |
| P         | INCHES<br>mm | 0.375<br>9.5   | 0.375<br>9.5   | 0.500<br>12.7  | 0.500<br>12.7  | 0.500<br>12.7  |
| R         | INCHES<br>mm | 17.25<br>438.2 | 18.75<br>476.3 | 19.63<br>498.5 | 20.88<br>530.4 | 25.00<br>635.0 |
| U         | INCHES<br>mm | 3.13<br>79.4   | 3.13<br>79.4   | 4.50<br>114.3  | 4.50<br>114.3  | 4.63<br>117.5  |

| ITEM           | PARTS NAME       | MATERIAL                                         |
|----------------|------------------|--------------------------------------------------|
| 1              | BODY             | CAST IRON ASTM A126 CL.B                         |
| 2              | DISC             | ALUMINUM BRONZE-ASTM B148                        |
| 3              | STEM             | STAINLESS STEEL TYPE 416                         |
| 4              | TOP BEARING      | THERMOPLASTIC POLYMER                            |
| 5              | STEM O-RING      | EPDM                                             |
| 6              | LINER            | EPDM                                             |
| 7              | STEM PIN         | STAINLESS STEEL TYPE 302                         |
| 8              | LINER O-RING     | EPDM                                             |
| 9              | LOWER BEARING    | THERMOPLASTIC POLYMER                            |
| 10             | OPERATOR         | GEAR OPERATOR                                    |
|                |                  | GEAR OP W/ MEMORY STOP                           |
|                |                  | GEAR OP W/ LOCK                                  |
|                |                  | ACTUATOR AIR/AIR (1)                             |
|                |                  | ACTUATOR AIR/SPRING (1)<br>ACTUATOR ELECTRIC (1) |
| 11<br>14"-20"  | GROUNDING SPRING | STAINLESS STEEL TYPE 302                         |
| 12<br>24" ONLY | GROUNDING BALL   | AISI - 1022                                      |
| 13<br>24" ONLY | TENSION SCREW    | AISI - 1020                                      |

(1)- Consult Automation Department.

CW\_lrg\_mat.XLS

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice. For the most current information access [www.milwaukeevalve.com](http://www.milwaukeevalve.com)

