

# 'Apollo' Valves

## SUBMITTAL SHEET

### —LD145/WD145 Series—

"Assembled in USA" General Purpose  
Butterfly Valves



|                        |  |
|------------------------|--|
| Job Name:              |  |
| Job Location:          |  |
| Engineer:              |  |
| Contractor:            |  |
| Tag:                   |  |
| PO Number:             |  |
| Representative:        |  |
| Wholesale Distributor: |  |

### DESCRIPTION

The Apollo® LD145/WD145 Series Ductile Iron Butterfly Valves are ideal for use in Industrial and HVAC/Mechanical applications. The WD145 Series is a wafer style valve and the LD145 Series is a lug style.

### FEATURES

- Assembled in USA, Pageland, SC
- Compatible with ANSI Class 125 & 150 flanges
- ISO 5211 top plate allows choice of Apollo® pneumatic actuators and manual operators
- Conforms to MSS SP-67 & API 609
- LD145 series suitable for end of line service to rated pressure
- 3" and larger meet performance requirements of AWWA C-504
- Gray, epoxy coated bodies
- Pin-less/bolt-less stem shaft design
- Double-D stem input through 12"

### PRESSURE RATINGS

- 2" to 12": 200 psi

### MATERIAL OPTIONS

#### Body

- Ductile Iron ASTM A536, (65-45-12)

#### Disc Material

- Aluminum Bronze
- Ductile Iron A536 Nickel Plated
- Stainless Steel, CF8M

#### Seat Material

- EPDM: -30°F to +275°F (-34°C to +135°C)
- BUNA-N: +10°F to +180°F (-12°C to +82°C)
- Viton B: -15°F to 400°F (-26°C to +204°C)

#### Operator

- -0 - None
- -1 - 10 Position Handle
- -2 - Gear Operator
- -3 - Infinite Position Handle
- -4 - Locking Handle
- -5 - Gear Operator w/ Chain Wheel
- -7 - Locking Gear Operator
- -8 - Locking Gear Operator w/ Chain

### STANDARD MATERIALS LIST

| Part Name | Material                     |
|-----------|------------------------------|
| Body      | Ductile Iron ASTM A536       |
| Bushings  | Glass reinforced epoxy resin |
| Stem Seal | Buna-N                       |
| Shaft     | 416 SS ASTM A276 Type 416    |

| Valve Size |     | Operating Torque Rating* (in.-lbs.) |        |        |        | Cv Full Open |
|------------|-----|-------------------------------------|--------|--------|--------|--------------|
| (in.)      | DN  | ΔP 50                               | ΔP 100 | ΔP 150 | ΔP 200 |              |
| 2          | 50  | 100                                 | 106    | 111    | 117    | 115          |
| 2.5        | 65  | 150                                 | 163    | 176    | 189    | 196          |
| 3          | 80  | 207                                 | 220    | 232    | 244    | 302          |
| 4          | 100 | 290                                 | 323    | 357    | 390    | 600          |
| 5          | 125 | 423                                 | 481    | 540    | 598    | 1022         |
| 6          | 150 | 599                                 | 691    | 783    | 875    | 1579         |
| 8          | 200 | 1060                                | 1183   | 1307   | 1430   | 3136         |
| 10         | 250 | 1671                                | 1872   | 2074   | 2275   | 5340         |
| 12         | 300 | 2568                                | 2795   | 3023   | 3250   | 8250         |

\* Lubricating media service

| Valve Size |     | Valve Weight (lbs.) - Bare Shaft |              |
|------------|-----|----------------------------------|--------------|
| (in.)      | DN  | WD145 Series                     | LD145 Series |
| 2          | 50  | 6                                | 9            |
| 2.5        | 65  | 8                                | 10           |
| 3          | 80  | 9                                | 11           |
| 4          | 100 | 11                               | 18           |
| 5          | 125 | 15                               | 22           |
| 6          | 150 | 18                               | 26           |
| 8          | 200 | 32                               | 43           |
| 10         | 250 | 47                               | 66           |
| 12         | 300 | 70                               | 102          |

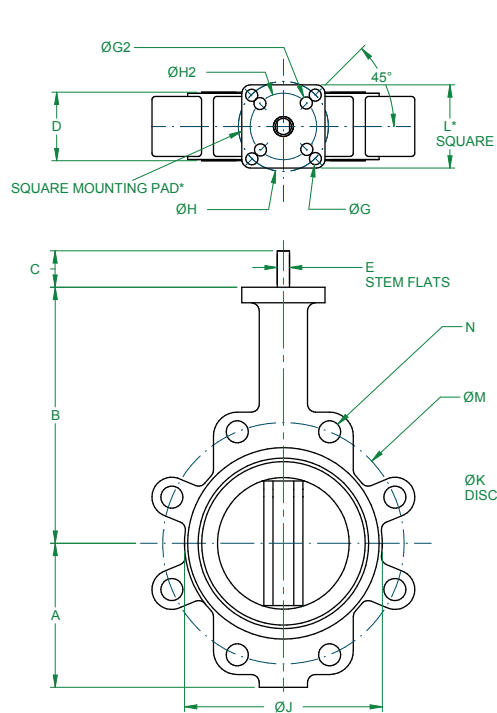
Apollo Valves, Manufactured by **Conbraco Industries, Inc.**  
701 Matthews Mint-Hill Road, Matthews, NC 28105 USA  
[www.apollovalves.com](http://www.apollovalves.com) | (704) 841-6000

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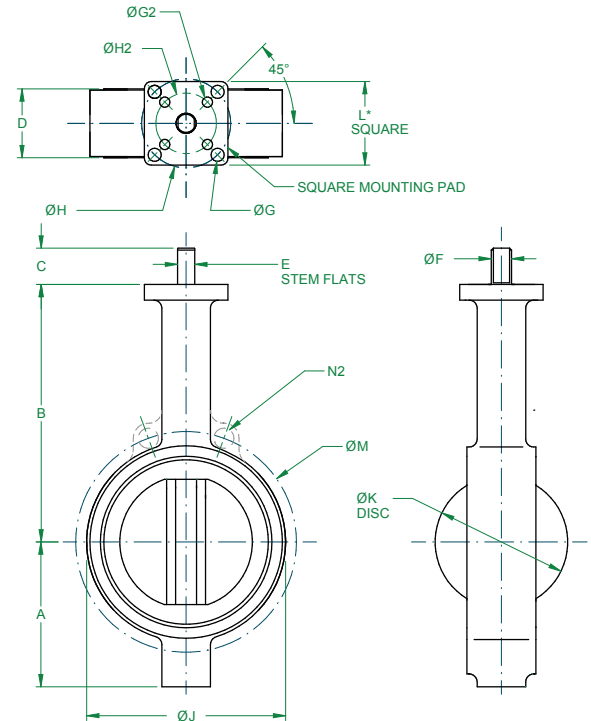



  
**SUBMITTAL SHEET**
  
**—LD145/WD145 Series—**
  
 “Assembled in USA” General Purpose
   
**Butterfly Valve**

## DIMENSIONS



**WD 145 MODEL**



**LD 145 MODEL**

## DIMENSIONS – DOUBLE-D STEM

| Valve Size |     | A    | B    | C    | D    | E    | ØF   | ØG   | ØG2   | ØH   | ØH2   | ØJ    | ØK   | L    | ØM    | N            | No. of Holes |    |
|------------|-----|------|------|------|------|------|------|------|-------|------|-------|-------|------|------|-------|--------------|--------------|----|
| (in.)      | DN  |      |      |      |      |      |      |      |       |      |       |       |      |      |       |              | N1           | N2 |
| 2          | 50  | 3.25 | 6.38 | 1.25 | 1.75 | 0.39 | 0.5  | 0.38 | --    | 2.76 | --    | 4.00  | 2.09 | 2.7  | 4.75  | 5/8"-11 (4X) | 4            | -- |
| 2.5        | 65  | 3.75 | 6.88 | 1.25 | 1.88 | 0.39 | 0.5  | 0.38 | --    | 2.76 | --    | 4.75  | 2.54 | 2.7  | 5.50  | 5/8"-11 (4X) | 4            | -- |
| 3          | 80  | 4    | 7.13 | 1.25 | 1.88 | 0.39 | 0.5  | 0.38 | --    | 2.76 | --    | 5.13  | 3.09 | 2.7  | 6.00  | 5/8"-11 (4X) | 4            | -- |
| 4          | 100 | 4.88 | 7.88 | 1.25 | 2.13 | 0.47 | 0.62 | 0.38 | --    | 2.76 | --    | 6.75  | 4.09 | 2.7  | 7.50  | 5/8"-11 (4X) | 8            | -- |
| 5          | 125 | 5.38 | 8.38 | 1.25 | 2.25 | 0.55 | 0.75 | 0.38 | --    | 2.76 | --    | 7.75  | 4.85 | 2.7  | 8.50  | 3/4"-10 (8X) | 8            | -- |
| 6          | 150 | 5.88 | 8.88 | 1.25 | 2.25 | 0.55 | 0.75 | 0.38 | --    | 2.76 | --    | 8.63  | 6.13 | 2.7  | 9.50  | 3/4"-10 (8X) | 8            | -- |
| 8          | 200 | 7.13 | 10.3 | 1.75 | 2.5  | 0.67 | 0.87 | 0.56 | 0.438 | 4.92 | 4.015 | 10.56 | 7.89 | 4.61 | 11.75 | 3/4"-10 (8X) | 8            | 2  |
| 10         | 250 | 8.25 | 11.5 | 1.88 | 2.75 | 0.87 | 1.12 | 0.56 | 0.438 | 4.92 | 4.015 | 13.06 | 9.89 | 4.61 | 14.25 | 7/8"-9 (12X) | 12           | 2  |
| 12         | 300 | 9.75 | 13.3 | 1.88 | 3.13 | 0.87 | 1.24 | 0.56 | --    | 4.92 | --    | 16.00 | 11.9 | 4.61 | 17.00 | 7/8"-9 (12X) | 12           | 2  |

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