Engineered Product Reference Guide

# BV2G-Series Non-Encapsulated Ball Valve

The Right Connection®

### Sizes
- 1/2" to 4”

### Features and Benefits
- Compact design for areas with tight space restrictions
- Full port design offers lower pressure drop and a less turbulent flow
- Balanced non-encapsulated construction minimizes cold flow
- Precision stainless steel balls reduce torque and friction losses while extending seat life
- Blow-out proof stem
- Lockable handle can prevent accidental actuation when used

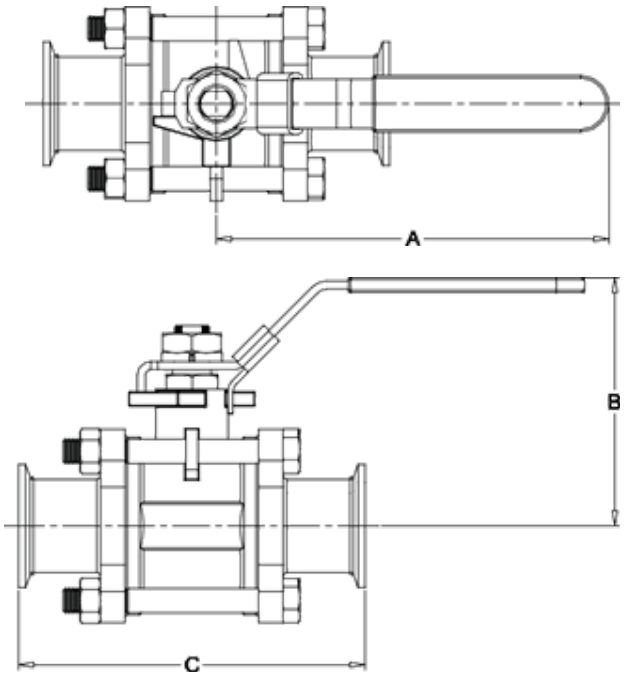
### Specifications
- Maximum pressure
  - 1/2” to 2”: **1000 PSI** WOG
  - 2-1/2” to 4”: **800 PSI** WOG
- Material of construction: CF8M (316) stainless steel

| Size | Part # | Weight (lbs) | Break Torque (in-lbs) |
|---|---|---|---|
| 1/2” | BV2G*-050CC-A | 1.4 | 55 |
| 3/4” | BV2G*-075CC-A | 1.8 | 71 |
| 1” | BV2G*-100CC-A | 2.6 | 101 |
| 1-1/2” | BV2G*-150CC-A | 4.6 | 221 |
| 2” | BV2G*-200CC-A | 8.5 | 345 |
| 2-1/2” | BV2G*-250CC-A | 17.8 | 883 |
| 3” | BV2G*-300CC-A | 28.2 | 830 |
| 4” | BV2G*-400CC-A | 41.4 | 1323 |

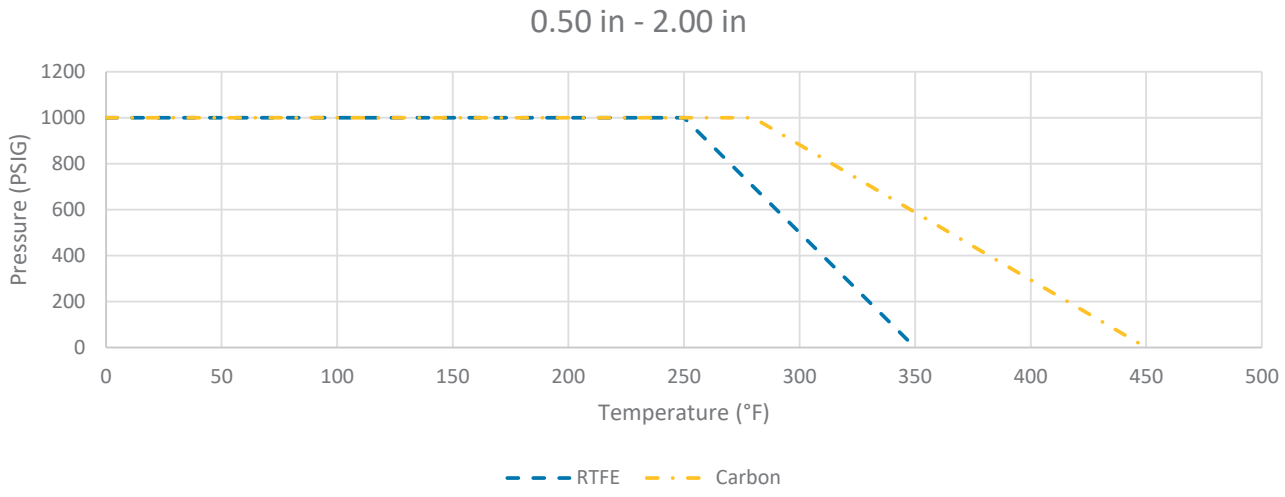
* G - RTFE; C - 25% carbon/PTFE

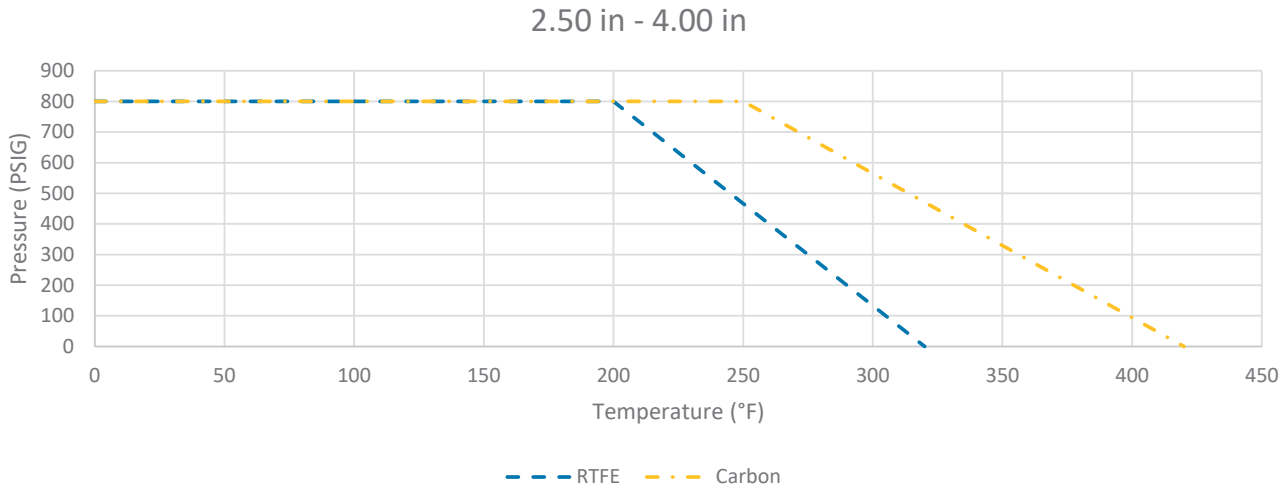
## Dimensions

| Size | A (in) | B (in) | C (in) |
|---|---|---|---|
| 1/4” | 4.1 | 2.3 | 4.6 |
| 3/4” | 4.1 | 2.5 | 4.7 |
| 1” | 5.0 | 2.8 | 4.9 |
| 1-1/2” | 6.1 | 3.5 | 5.6 |
| 2” | 7.6 | 3.9 | 6.4 |
| 2-1/2” | 7.6 | 4.4 | 7.8 |
| 3” | 10.9 | 4.9 | 9.0 |
| 4” | 13.2 | 6.6 | 9.6 |



# BV2G-Series Non-Encapsulated Ball Valve
# Pressure Temperature Charts



# BV2G-Series Non-Encapsulated Ball Valve

# Bill of Materials

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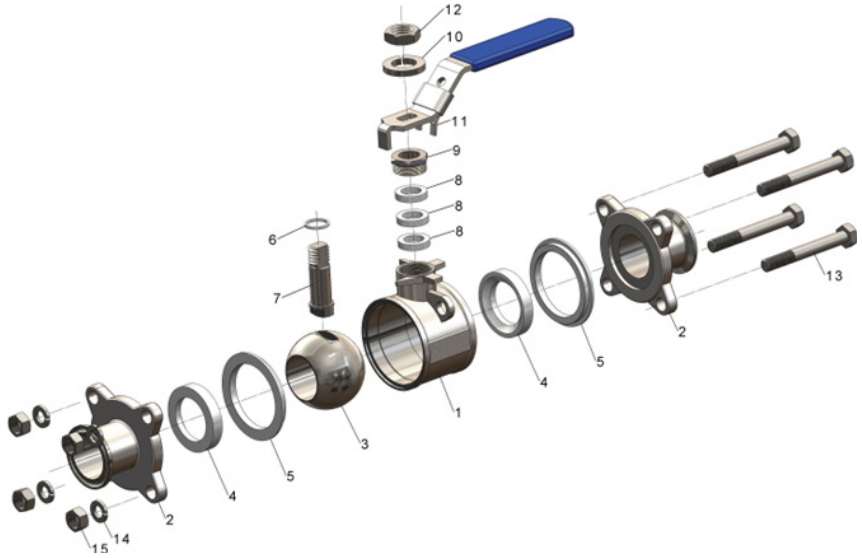


| Item | Description | Material | Quantity | |
|---|---|---|---|---|
| | | | 1/2” to 3” | 4” |
| 1 | body | CF8M | 1 | 1 |
| 2 | end (4-bolt) | CF8M | 2 | 2 |
| 3 | ball | CF8M | 1 | 1 |
| 4 | seat | G or C * | 2 | 2 |
| 5 | gasket | G or C * | 2 | 2 |
| 6 | thrust washer | G or C * | 1 | 1 |
| 7 | stem | 316 | 1 | 1 |
| 8 | stem packing | G or C * | 3 | 3 |
| 9 | gland | 304 | 1 | 1 |
| 10 | bevel washer | 301 | 1 | 1 |
| 11 | handle | 304 | 1 | 1 |
| 12 | nut | 304 | 1 | 1 |
| 13 | bolt | 304 | 4 | 6 |
| 14 | bolt washer | 304 | 4 | 6 |
| 15 | bolt nut | 304 | 4 | 6 |

* G - RTFE; C - 25% carbon/PTFE

## Repair Kits

| Valve Size | Repair Kit Part # |
|---|---|
| 1/2” | BV-2G-*K050 |
| 3/4” | BV-2G-*K075 |
| 1” | BV-2G-*K100 |
| 1-1/2” | BV-2G-*K150 |
| 2” | BV-2G-*K200 |
| 2-1/2” | BV-2G-*K250 |
| 3” | BV-2G-*K300 |
| 4” | BV-2G-*K400 |

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Repair kit contains:
- #4 (2) seats
- #5 (2) gaskets
- #6 (1) thrust washer
- #8 (3) stem packing

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