

For Commercial and Industrial Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

G2 Series LFB6080-G2-SS, LFB6081-G2-SS 2-Piece, Full Port, Lead Free* Bronze Ball Valves with Stainless Steel Trim

Sizes: 1/4" – 4"

The G2-SS series offers 2-Piece, Full Port, Lead Free, Bronze Ball valve with Stainless Steel trim that are ideal for potable water and commercial and industrial applications. This valve features a blowout proof stem, as well as a full-port design which ensures minimal pressure drop. The G2-SS series offers multiple models for solder and NPT end-connections with NSF-61G certification.

Features

- Lead Free*, forged bronze body and adapter
- Full-port flow
- Full range of sizes from 1/4" – 4"
- Certified to NSF-61G
- 316 Stainless steel ball and stem
- Minimal pressure drop due to large ports
- Blowout proof, pressure retaining stem
- Adjustable stem packing gland
- White handles for easy Lead Free* identification
- BAA Compliant
- 100% Factory tested in USA
- Used in potable water, commercial, industrial applications for a full range of liquids and gases

Models

LFB6080 G2-SS 1/4" – 3" 316 stainless steel ball and stem threaded NPT end connections

LFB6081 G2-SS 3/8" – 4" 316 stainless steel ball and stem solder end connections

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



Pressure — Temperature

Temperature Range:

0°F - 400°F (-18°C - 205°C) @ 50psi (3.4 bar)

Pressure Range:

1/4" – 2" 600psi (41 bar) WOG, non-shock;
150psi (10.3 bar) WSP

2 1/2" – 4 400psi (27.5 bar) WOG, non-shock;
125psi (8.6 bar) WSP

Specifications

A 2-piece full port Lead Free* bronze ball valve to be installed as indicated on the plans. Valves with top loaded stems or valves without adjustable packing are not acceptable. Pressure up to 600psi for 1/4" to 2" and 400psi for 2 1/2" to 4". The valve shall be constructed using Lead Free* bronze. Lead Free* ball valves shall comply with state codes and standards, where applicable, requiring reduced lead content. Valve must conform to NSF-61G and shall be a Watts Series LFB6080G2-SS (threaded) or LFB6081G2-SS (solder).

Standards

Tested and Certified by NSF International
NSF-61G Potable Water and Lead Free.



Applications

- Full range of fluids
- Hydronic Heating (90% glycol max)
- Low Pressure Steam, 15 psi max
- Not applicable for flammable gas installations
- Not compatible with soft annealed copper tubing

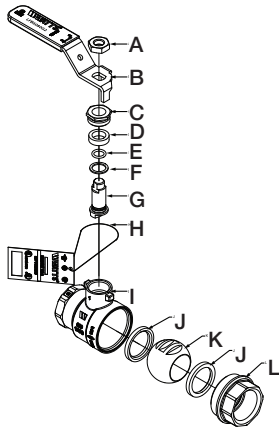
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

NOTICE

For soldered versions, heat **MUST** be directed **AWAY** from the center of the valve body as excessive heat harm the seats. After soldering, the packing nut may have to be tightened.

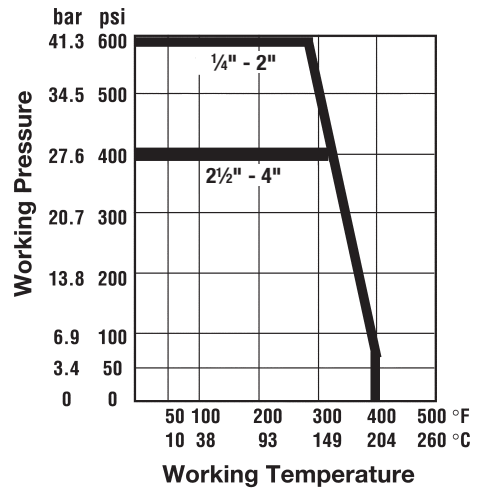
Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Materials

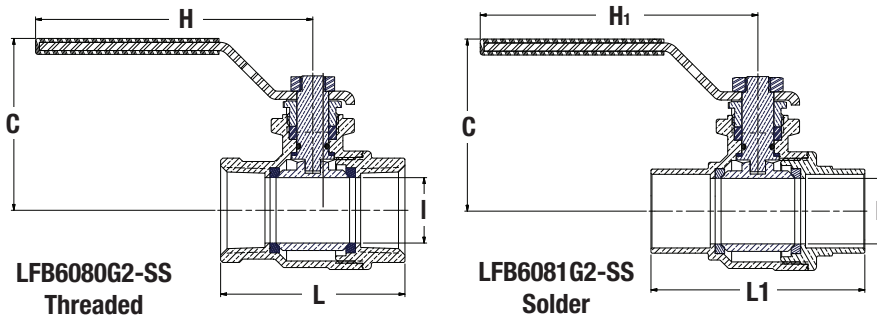


- A. Handle Nut Zinc-plated carbon steel
- B. Handle Assembly Zinc-plated carbon steel with vinyl insulator
- C. Packing Nut Brass
- D. Stem Packing Virgin PTFE
- E. O-ring Fluorocarbon elastomer (FKM)
- F. Thrust Washer Virgin PTFE
- G. Stem 316 Stainless Steel
- H. Tag Cardboard, Mylar coated both sides
- I. Body Forged Lead Free* bronze
- J. Seats Virgin PTFE
- K. Ball 316 Stainless Steel
- L. Adapter Forged Lead Free* bronze

Temperature – Pressure



Dimensions – Weights



| SIZE | | DIMENSIONS | | | | | | | | WEIGHT | | | | |
|---------------------------------|---------------------------------|------------|---------------------------------|-----|--------------------------------|-----|---------------------------------|-------|---------------------------------|--------|-------------------------------|------|-----------|------|
| | C | | H, H1 | | I | | L | | L1 | | LFB6080G2 | | LFB6081G2 | |
| in | in | mm | in | mm | in | mm | in | mm | in | mm | lbs. | kg | lbs. | kg |
| 1/4" | 1 ¹³ / ₁₆ | 46 | 3 ⁷ / ₁₆ | 87 | 7 ¹ / ₁₆ | 11 | 1 ³ / ₄ | 47 | - | - | 0.4 | 0.2 | - | - |
| 3/8" | 1 ¹³ / ₁₆ | 46 | 3 ⁷ / ₁₆ | 87 | 1 ¹ / ₂ | 13 | 1 ⁷ / ₈ | 48.3 | 1 ¹⁵ / ₁₆ | 49 | 0.4 | 0.2 | 0.4 | 0.18 |
| 1/2" | 1 ¹³ / ₁₆ | 46 | 3 ⁷ / ₁₆ | 87 | 1 ¹ / ₂ | 13 | 2 | 57 | 2 ¹ / ₈ | 54 | 0.5 | 0.22 | 0.4 | 0.18 |
| 3/4" | 2 ¹ / ₄ | 58 | 3 ¹⁵ / ₁₆ | 101 | 3 ³ / ₄ | 19 | 2 ¹ / ₄ | 58 | 3 | 76 | 0.9 | 0.41 | 0.8 | 0.36 |
| 1" | 2 ⁵ / ₈ | 67 | 4 ¹ / ₄ | 108 | 1 | 26 | 3 | 77 | 3 ¹ / ₂ | 89 | 1.4 | 0.65 | 1.3 | 0.57 |
| 1 ¹ / ₄ " | 2 ¹³ / ₁₆ | 72 | 4 ¹ / ₄ | 108 | 1 ¹ / ₄ | 32 | 3 ³ / ₈ | 86 | 3 ³ / ₈ | 98 | 2.1 | 0.94 | 1.8 | 0.82 |
| 1 ¹ / ₂ " | 3 ³ / ₁₆ | 80 | 5 ⁵ / ₁₆ | 135 | 1 ¹ / ₂ | 38 | 3 ¹¹ / ₁₆ | 93 | 4 ⁵ / ₁₆ | 109 | 3.1 | 1.4 | 2.7 | 1.23 |
| 2" | 3 ¹ / ₂ | 89 | 6 | 153 | 2 | 51 | 4 ¹ / ₄ | 108 | 5 ³ / ₈ | 136 | 4.9 | 2.25 | 4.4 | 2.02 |
| 2 ¹ / ₂ " | 4 ¹ / ₁₆ | 104 | 7 ³ / ₈ | 187 | 7 ³ / ₈ | 188 | 2 ¹ / ₂ | 63.6 | 5 ⁵ / ₁₆ | 158 | 6 ¹ / ₄ | 158 | 7.1 | 3.2 |
| 3" | 4 ¹ / ₂ | 114 | 7 ³ / ₄ | 197 | 7 ³ / ₄ | 197 | 3 | 76.3 | 6 ¹ / ₁₆ | 154 | 7 ⁷ / ₈ | 185 | 11.3 | 4.7 |
| 4" | 5 ³ / ₈ | 136 | 9 ⁵ / ₈ | 245 | - | - | 4 | 101.6 | 7 ⁷ / ₁₆ | 189 | - | - | 7.7 | 8.0 |

