Exclusive Latch-Lok

Handle

(option LL)

## For Commercial and Industrial Applications

Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

# Series B6800, B6801 3-Piece, Full Port, Brass Ball Valves

Sizes: 1/4" - 2"

Series B6800, B6801 3-Piece, Full Port, Brass Ball Valves feature an in-line maintenance design that offers serviceability of all operating parts without disturbing the rigid pipeline system. The B6800, B6801's full port orifice ensures maximum flow capacity, while Durafill® seats, chrome plated brass ball and blow-out proof stem provide maximum safety and highest operating pressure and temperature limits.

#### **Features**

- 3-piece, lift-out design
- Carbon/glass reinforced PTFE Durafill® valve seats
- Chrome plated brass ball
- Blow-out proof, pressure retaining stem
- Standard actuator mounting pads
- High cycle life reinforced PTFE stem packing seal and thrust washer
- Vinyl insulator on heavy duty, zinc plated carbon steel handles
- Low operating torque
- Adjustable stem packing gland
- Each valve factory tested

### Models

**B6800** 1/4" - 2" threaded NPT end connections **B6801** 1/2" - 2" solder end connections\*

## **Specifications**

A 3-piece full port brass ball valve to be installed as indicated on the plans. The valve must have a blowout proof stem, reinforced Durafill seats, reinforced PTFE stem packing, and chrome plated brass ball. Pressure rating no less than 600psi (41 bar) WOG non-shock, 150psi (10 bar) WSP for 1/4" – 1" and 400psi (28 bar) WOG non-shock, 125psi (8.6 bar) WSP for 1/4" – 2". Valve must conform to MSS-SP-110 and shall be a Watts Series B6800 (threaded) or B6801 (solder).

\*This valve is designed to be soft soldered into lines without disassembly, using a low temperature solder (420°F/216°C). Other solders such as 95/5 tin antimony (460°F/238°C) can be used. However, extreme caution must be used to prevent seat damage. Higher temperature solders will damage the seat material. ANSI B.16.18 states that the maximum operating pressure of 50-50 solder connections is 200psi (14 bar) at 100°F (38°C) and decreases with higher temperatures.

Apply heat with the flame directed **AWAY** from the center of the valve body. Excessive heat can harm the seats. After soldering, the packing nut may have to be tightened.

### **A** WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.



## BAA/ARRA Compliant\*\*

\*\*This product complies with the Buy American Act and The American Recovery and Reinvestment Act. For more information, visit watts.com.

### **Options**

### Suffix

Z15	Less lever and nut
XH	Extended handle
G	Grounded ball
GS	Grounded ball and sten

GS Grounded ball and stem
SS 316 Stainless steel ball and stem

OV Oval handle RH Round handle

SH Stainless steel handle and nut SE Safety exhaust (unidirectional), see literature ES-B6800SE

(01) VT Virgin PTFE seat and seal
BS Balancing handle stops
LL Latch-Lok handle (304 SS)

TH Tee handle

LC Latch-Lok handles latch and

## Pressure - Temperature

Temperature Range: 0°F - 450°F (-18°C - 232°C)

lock in "closed" position only

½" **– 1**"

600psi (41 bar) WOG non-shock

150psi (10 bar) WSP

11/4" - 2"

400psi (28 bar) WOG non-shock

125psi (8.6 bar) WSP

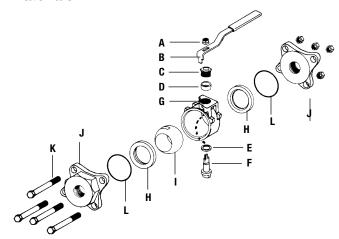
#### NOTICE

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.



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 Zinc Plated Carbon Steel with Vinyl Insulator

C Packing Nut
 D Stem Packing
 E Thrust Bearing
 F Stem
 Glass Reinforced PTFE
 Brass ASTM B16, C36000
 Forged Brass ASTM B124

H Seats Carbon/Glass Reinforced PTFE Durafill®

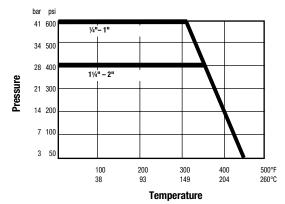
Ball Chrome Plated Brass

J Adapter Forged Brass ASTM B124

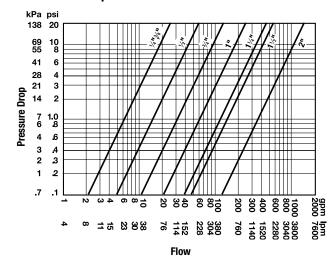
K Body Bolts & Nuts Zinc Plated Carbon Steel

L Body Seals PTFE

## Valve Seat Rating



## Pressure Drop vs. Flow



## Dimensions – Weights

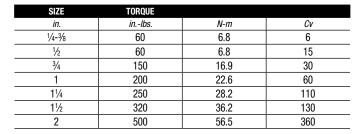
#### B6800

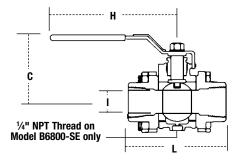
SIZE	DIMENSIONS							WEIGHT		
	C		Н		I		L			
	Center to		Radi	us of						
	Handle		Handle		Ball Orifice		End to End			
in.	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
1/4	1¾	44	37//8	98	3/8	10	2%	60	1.1	.5
3/8	1¾	44	37//8	98	3/8	10	2%	60	1.1	.5
1/2	1¾	44	37//8	98	1/2	13	2%	60	1.1	.5
3/4	21/4	57	41/2	114	3/4	19	31/4	83	2.5	1.1
1	23/4	70	61//8	156	1	25	37//8	98	4.1	1.9
11/4	3	76	61//8	156	11/4	32	41/2	114	6.3	2.9
11/2	3½	89	8	203	11/2	38	5	127	9.3	4.2
2	37/8	98	8	203	2	51	65%	168	13.8	6.3

#### \*B6801

1/2	13/4	44	37//8	98	1/2	13	2%	60	1.1	.5
3/4	21/4	57	41/2	114	3/4	19	31/4	83	2.5	1.1
1	23/4	70	61//8	156	1	25	37//8	98	4.1	1.9
11/4	3	76	61//8	156	11/4	32	41/2	114	6.3	2.9
11/2	31/2	89	8	203	11/2	38	5	127	9.3	4.2
2	37/8	98	8	203	2	51	65/8	168	13.8	6.3

<sup>\*</sup>See solder instructions on front







ES-B6800 1522 © 2015 Watts