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

Series B6000, B6001 2-Piece, Standard Port, Bronze Ball Valves

Sizes: 1/4" - 4"

Series B6000, B6001 2-Piece, Standard Port, Bronze Ball Valves feature a blowout proof pressure retaining stem. The B6000, B6001's standard port orifice ensures minimal pressure drop, while Durafill[®] and Uniseal[®] seats and chrome plated brass ball provide lasting service for a wide range of liquids and gases.

Features

- Durafill (carbon/glass filled PTFE) seats for sizes 1/4" 1/2" and 11/4" – 4" and Uniseal (enhanced PTFE) seats for sizes 3/4" & 1" for lasting service for a wide range of liquids and gases
- Chrome plated brass ball is wiped clean during each operation of the valve
- Minimal pressure drop due to large ports
- Blowout proof, pressure retaining stem
- ¼" 3" pressure rated at 600psi (41 bar) WOG non-shock; 150psi (10 bar) WSP. 4" pressure rated at 400psi (28 bar) WOG non-shock; 125psi (8.6 bar) WSP (over 150psi steam requires SS trim)
- High cycle life reinforced PTFE stem packing seal and thrust washer
- Vinyl insulator on heavy duty, zinc-plated, carbon steel handles
- Quarter-turn open or close operation
- Low operating torque
- Adjustable stem packing gland
- Each valve factory tested

Specifications

A 2-piece standard port bronze ball valve to be installed as indicated on the plans. The valve must have a blowout proof pressure retaining stem, Durafill seats (1/4" - 1/2" & 11/4" - 4") or Uniseal seats (3/4" & 1"), reinforced PTFE stem packing seal, and chrome plated brass ball. Valves with top loaded stems or valves without adjustable packing are not acceptable. Pressure rating no less than 600psi (41 bars) WOG non-shock; 150psi (10 bar) WSP for 1/4" - 3" and 400psi (28 bar) WOG nonshock; 125psi (8.6 bar) WSP for 4". Valve must conform to MSS-SP-110 and shall be a Watts Series B6000 (threaded) or B6001 (solder).

Durafill[®] is a registered trademark of Cargill, Limited. Uniseal[®] is a registered trademark of Uniseal, Incorporated.





Please refer to watts.com for BAA information on specific models.

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.

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.

NOTICE

Inquire with governing authorities for local installation requirements

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.



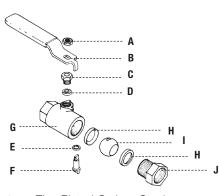
Models

B6000

B6001

3/8" - 3" solder end connections*

Materials



1/4" - 4" threaded NPT end connections

Α	Handle Nut	Zinc Plated Carbon Steel
В	Handle	Zinc Plated Carbon Steel with Vinyl
		Insulator
С	Packing Nut	Brass ASTM B16, C36000
D	Stem Packing	Glass Reinforced PTFE
Е	Thrust Washer	Glass Reinforced PTFE
F	Stem	Brass ASTM B16, C36000
G	Body	Cast Bronze ASTM B584, C84400
Н	Seats	Durafill (1/4" – 1/2" & 11/4" – 4")
		Uniseal (¾" & 1")
I I	Ball	Chrome Plated Brass ASTM B16,
		C36000
J	Adapter	Brass ASTM B16, C36000
Κ	Body Seals	PTFE (1¼" – 4" only) - Not shown

Pressure - Temperature

Temperature Range:

0°F – 450°F (-18°C – 232°C) @ 50psi (3.4 bar)

Pressure Range: 1/4" - 3",

4",

600psi (41 bar) WOG non-shock; 150psi (10 bar) WSP

400psi (28 bar) WOG non-shock; 125psi (8.6 bar) WSP

Use stainless steel trim (option SS) for steam pressures over 150psi (10 bar).

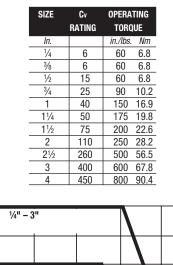
*This valve is designed to be soft soldered into lines without disassembly, using a low temperature solder 420°F (216°C). Other solders such as 95/5 tin antimony 460°F (238°C) or 96/4 tin silver 420°F (216°C) can be used, however extreme caution must be used to prevent seat damage. Higher temperature solders will damage the seat material. ANSI B.16.18 states that the maximum operating pressure of 50-50 solder connections is 200 psi (14 bar) at 100°F (38°C) and decreases with higher temperatures.

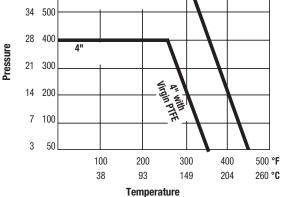
Apply heat with the flame directed AWAY from the center of the valve body. Excessive heat can harm the seats. After soldering, the packing nut may have to be tightened.

Valve Seat Rating

bar psi

41 600

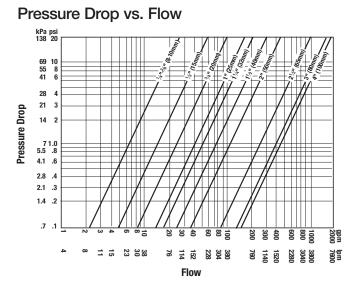




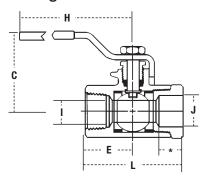
Options

Suffix

- 01/VT Virgin Teflon[®] seat material
 - SS 316 stainless steel ball and stem
 - LH Locking lever handle
 - **OV** High profile safety oval handle
- **OVLH** Oval locking handle
 - RH Round Handle
 - Stainless steel handle and nut SH
 - BS Balancing stop
 - XH Extended handle
 - TH Tee handles 1/4" 2"
 - **GS** Ground Washer
 - CC ³/₄" hose thread outlet. Hose thread outlet has cap & chain. Inlet sizes: 1/2" and 3/4" NPT. Also 1/2" and 3/4" solder inlet connection
 - SE Safety Exhaust (Max pressure rating: 175psi)
 - **SC** Rough chrome $\frac{1}{4}$ " 2"
 - **Z15** Less lever and nut
 - 04 Mineral filled PTFE seats and seals (available only with 316SS ball and stem)
- U.L. UL approved as follows:
 - Flammable Liquids (YRBX)
 - LP Gas (YSDT)
 - Compressed Gas (YQNZ)
 - Natural/Manufactured Gas (YRPV)
 - Fire Protection (HNFX)
 - For #1/#2 Fuel Oils (MHKZ)



Dimensions – Weights



B6000

SIZE	DIMENSIONS														WEIG	ihts
	()	E		Н				J		L		*			
	Cent	er to			Radius of				Dia. Solder				Depth Solder			
	Handle		Center to End		Handle		Ball Orifice		Connection		End to End		Connection			
in.	in.	тт	in.	тт	in.	тт	in.	тт	in.	mm	in.	тт	in.	тт	lbs.	kg.
1/4	13⁄4	45	1 ¹ /16	27	3 ¹ /16	78	3/8	10	-	-	2 ¹ /16	52	-	-	0.6	0.3
3/8	13⁄4	45	1 ¹ / ₁₆	27	3 ½16	78	3/8	10	-	-	21/16	52	-	-	0.6	0.3
1/2	13⁄4	45	1 ¹ /16	27	33⁄4	95	1/2	13	-	-	21/4	58	-	-	0.6	0.3
3/4	2	51	1 ⁷ ⁄16	36	33⁄4	95	11/16	17	-	-	2 ¹³ /16	72	-	-	1.0	0.5
1	21/4	57	1 ¹¹ /16	43	41/2	114	7/8	22	-	-	37/16	87	-	-	1.6	0.7
11/4	2 ¹ / ₂	64	1 ¹⁵ ⁄16	49	3 ¹³ ⁄16	97	1	25	-	-	31/8	99	-	-	2.2	1.0
11/2	3	76	21/8	54	5½	140	11/4	32	-	-	4¼	108	-	-	3.2	1.5
2	35/16	84	27/16	62	51/2	140	11/2	38	-	-	4 ¹³ / ₁₆	122	-	-	4.9	2.2
21/2	4	102	3 ³ ⁄16	81	81/8	206	2	51	-	-	61/2	165	-	-	13.2	5.9
3	4 ¹ / ₄	108	37/16	87	8 ¹ / ₈	206	2 ¹ / ₂	64	-	-	6 ¹³ /16	173	-	-	17.5	7.9
4	4 ¹³ ⁄16	122	37/8	98	11	279	3	76	-	-	711/16	195	-	-	29.3	13.3

B6001

3⁄8	11/2	38	1 ¹ / ₁₆	27	33⁄4	95	3/8	10	1/2	13	25/16	58	3⁄8	9	0.5	0.2
1/2	1¾	44	11/16	27	33⁄4	95	1/2	13	5⁄8	16	23/8	60	1/2	13	0.6	0.3
3/4	2	51	1 ⁷ ⁄16	36	33/4	95	11/16	17	7/8	22	35/16	84	3⁄4	19	1.1	0.5
1	21/4	57	13⁄4	44	41/2	114	7/8	22	11/8	28	3¾	95	7/8	22	1.4	0.6
11/4	21/2	64	21/4	57	3 ¹³ ⁄16	97	1	25	13/8	35	41/2	114	1	25	2.0	0.9
1 ½	3	76	2 ¹ / ₂	64	5½	140	11/4	32	1%	41	5	127	1 ¹ ⁄16	27	3.3	1.5
2	35⁄16	84	31/8	80	51/2	140	11/2	38	21/8	54	61⁄4	159	1 5⁄16	34	5.2	2.4
21/2	4	102	311/16	93	81/8	206	2	51	25/8	67	75/8	194	1 7⁄16	36	13.2	6.0
3	4 ¹ / ₄	108	4 ¹ / ₁₆	103	8 ¹ / ₈	206	2 ¹ / ₂	64	31/8	80	8 ³ ⁄16	208	1 ¹¹ /16	43	15.6	7.1
	* 0 0															

* See Solder Instructions on front.

