For Commercial Applications

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

Series B6010, B6011 and B6013 2-Piece, Standard Port, Bronze Ball Valves

Sizes: 1/2" - 2" (15 - 50mm)

Series B6010, B6011 and B6013 2-Piece, Standard Port, Bronze Ball Valves feature a blowout proof pressure retaining stem. The B6010, B6011, B6013'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

- Designed for quick and easy cleaning or replacement of worn parts without dismantling pipe line
- Durafill[®] (carbon/glass filled PTFE) seats for size ¹/₂" and 1¹/₄" 2" (15 and 32 50mm) and Uniseal[®] (enhanced PTFE) seats for sizes ³/₄" & 1" (20 & 25mm) 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
- Pressure rated at 600psi (41 bar) WOG non-shock for threaded end; 400psi (28 bar) WOG non-shock for solder end at 100°F (38°C)
- 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

Models

- B6010 $\frac{1}{2}$ " 2" (15 50mm) threaded NPT end connections
- B6011 1/2" 2" (15 50mm) solder end connections*
- B6013 1/2" 1" (15-25mm) solder end x threaded end male union*



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 ($\frac{1}{2}$ " and $\frac{1}{4}$ " – 2") or Uniseal[®] seats ($\frac{3}{4}$ " & 1"), reinforced PTFE stem packing seal, and chrome plated brass ball. Pressure rating no less than 600psi (41 bar) WOG non-shock for threaded end and 400psi (28 bar) WOG non-shock for solder end. Valve shall be a Watts Regulator Company Series B6010, B6011 or B6013.

Options

Suffix

- SS Stainless steel ball and stem
- VT Virgin PTFE seat material

Pressure – Temperature

Temperature Range: 0°F - 225°F (-18°C - 107°C)

Maximum Working Pressure: 600psi (41 bar) WOG non-shock for threaded end and 400psi (28 bar) WOG non-shock for solder end @ 100°F (38°C). Not rated for steam service due to union end gasket.

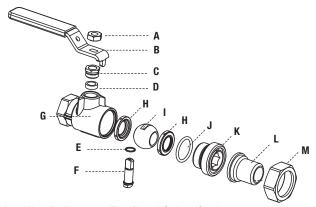
*This valve is designed to be soft soldered into lines without disassembly, using a low temperature solder 420°F (215°C). Other solders such as 95/5 tin antimony 460°F (238°C) can be used. However, extreme caution must be used to prevent seat damage. Higher temperature solders will damage the seat material. ANSI B.15.18 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 temperature.

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.

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.

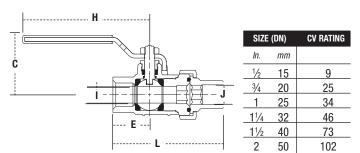


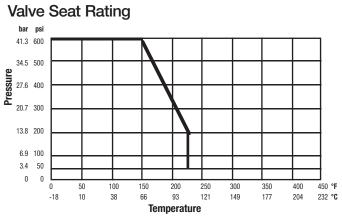
Materials



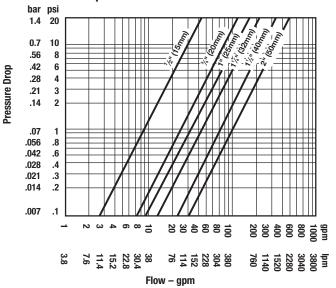
		*
Α	Handle Nut	Zinc Plated Carbon Steel
В	Handle	Zinc Plated Carbon Steel with Vinyl Insulator
-		,
C	Packing Nut	Brass ASTM B16, C36000
D	Stem Packing	Glass Reinforced PTFE
E	Thrust Washer	Glass Reinforced PTFE
F	Stem	Brass ASTM B16, C36000
G	Body	Cast Bronze ASTM B584, C84400
Н	Seats	Durafill [®] (1/2" & 11/4"-2")
		Uniseal® (3/4" & 1")
1	Ball	Chrome Plated Brass ASTM B16, C36000
J	Retainer	Brass
ĸ	0-ring	Buna-N
	•	
L	Union Tailpiece	Brass
М	Union Nut	Brass
		2.400

Dimensions – Weights









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

MODEL	SIZE	(DN)	DIMENSIONS											WEIGHT		
				С	E		Н		1		L		J			
	in	mm	in	mm	in	тт	in	тт	in	тт	in	тт	in	mm	lbs.	kg
B6010	1/2	15	13⁄4	44	11/8	28	3¾	95	1/2	13	3	75	-	-	0.63	0.28
B6010	3⁄4	20	2 ¹ /16	52	1 7⁄16	36	37⁄8	98	11/16	17	3 %16	90	-	-	1.19	0.54
B6010	1	25	21/4	57	13⁄4	44	37⁄8	98	7⁄8	22	43/8	110	-	-	2.13	0.97
B6010	11/4	32	25/8	67	1 ¹⁵ ⁄16	49	5¾	146	1	25	5 ¹ /16	129	-	-	4.00	1.81
B6010	1 ½	40	31/6	78	21/8	54	55/8	143	11/4	32	55%	143	-	-	5.65	2.56
B6010	2	50	4 ¹ / ₁₆	103	27/16	61	87/16	214	11/2	38	61⁄4	158	-	-	8.25	3.74
B6011	1/2	15	13⁄4	44	1 ¹ ⁄16	26	3¾	95	1/2	13	23⁄4	70	5⁄8	16	0.63	0.28
B6011	3⁄4	20	2 ¹ /16	52	1 7⁄16	37	31/8	98	11/16	17	3 ¹³ ⁄16	96	7/8	22	1.13	0.51
B6011	1	25	21/4	57	13⁄4	44	31/8	98	7/8	22	43/8	111	11/8	29	1.81	0.82
B6011	11/4	32	25/8	67	21/4	57	5¾	146	1	25	55%	142	13/8	35	2.88	1.31
B6011	11/2	40	31/6	78	21/4	57	5%	143	11⁄4	32	6 ⁵ ⁄16	160	15%	41	4.25	1.93
B6011	2	50	4 ¹ / ₁₆	103	3 ³ ⁄16	80	87/16	214	11/2	38	7%16	191	21/8	54	6.81	3.09
B6013	1/2	15	13⁄4	44	1 ¹ ⁄16	26	3¾	95	1/2	13	31⁄4	81	-	-	0.79	0.36
B6013	3⁄4	20	2 ¹ /16	52	1 ½16	37	31/8	98	11/16	17	4	102	-	-	1.45	0.66
B6013	1	25	21/4	57	13⁄4	44	37⁄8	98	7/8	22	47⁄8	123	-	-	2.05	0.93



Water Safety & Flow Control Products

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