For Commercial and Industrial Applications

Job Name _____

Job Location _____

Engineer _____

Approval _____

Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

Series B6300, B6301

2-Piece, Full Port, Bronze Ball & Waste Valves

Sizes: ½" – 1"

Series B6300, B6301 2-Piece, Full Port, Bronze Ball & Waste Valves feature a drain port to allow for draining or venting of downstream line when valve is in the off position. The B6300, B6301's full port orifice ensures minimal pressure drop, while virgin PTFE seats and chrome plated brass ball provide lasting service.

Features

- Drain port allows draining or venting of downstream line when valve is in the off position
- Minimal pressure drop due to full size ports
- Virgin PTFE seats are standard
- Suitable for a full range or liquids and gases.
- Ball is wiped clean during each operation of the valve
- Blowout proof pressure retaining stem
- Pressure rated at 400psi (28 bar) WOG non-shock
- Handle can be repositioned 180°
- High cycle life reinforced PTFE stem packing seal and thrust washer
- Vinyl insulator on heavy duty, zinc-plated carbon steel handles
- Fast quarter-turn open or close operation
- Low operating torque
- Adjustable stem packing gland
- Each valve factory tested
- Valve is unidirectional (one-way) due to drain port on downstream

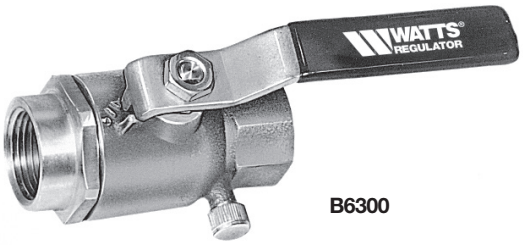
Models

B6300 ½" – 1" threaded NPT end connections

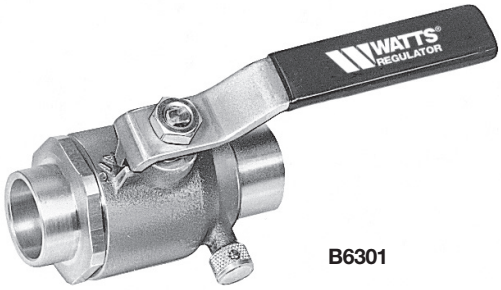
B6301 ½" – 1" solder end connections*

Specifications

A 2-piece full port bronze ball & waste valve to be installed as indicated on the plans. The valve must have a blowout proof pressure retaining stem, chrome plated brass ball, virgin PTFE seats and reinforced PTFE stem packing seal and thrust washer. Pressure rating no less than 400psi (28 bars) WOG non-shock. Valve shall have drain port for draining or venting of downstream line. Valve shall be a Watts Series B6300 (threaded) or B6301 (solder).



B6300



B6301

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

Options

Suffix	
OV –	High profile safety oval handle
RH –	Round handle
SH –	Stainless steel handle & nut
TH –	Tee handle
XH –	Extended handle

Pressure — Temperature

Temperature Range: 0°F - 350°F (-18°C – 177°C)

Maximum Working Pressure: 400psi (28 bar) WOG non-shock

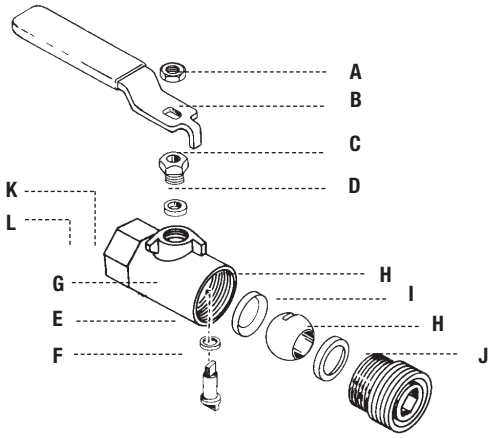
*This valve is designed to be soft soldered into lines without disassembly, using a low temperature solder 420°F (215°C). Other solders such as 95/5 tin antimony 460°F (238°C) can be used. However, extreme caution must be used to prevent seat damage. Higher temperature solders will damage the seat material. ANSI B.15.18 states that the maximum operating pressure of 50-50 solder connections is 200psi (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.

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.

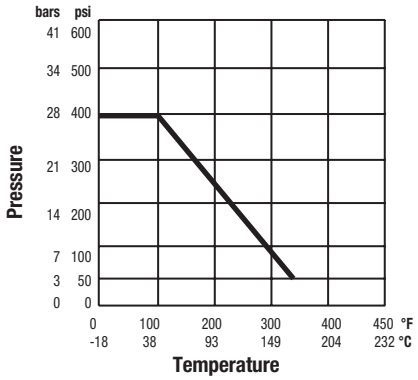
WATTS®

Materials



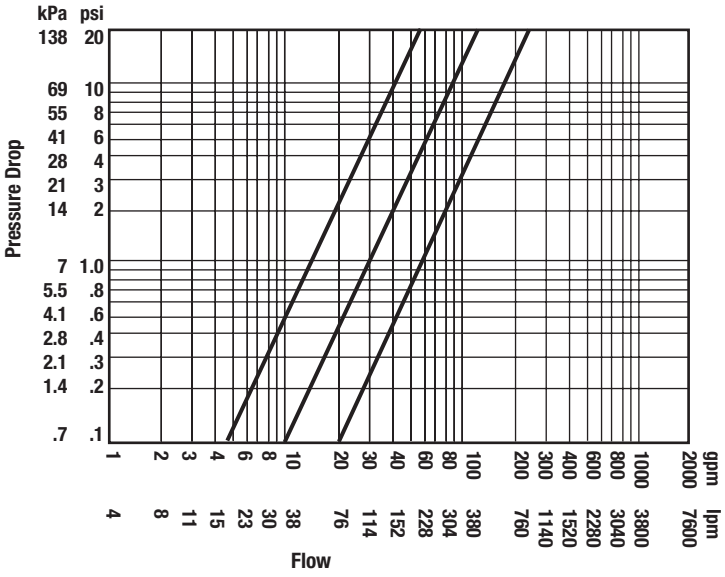
A	**Handle Nut**	Zinc Plated Carbon Steel
B	**Handle**	Zinc Plated Carbon Steel with Vinyl Insulator
C	**Packing Nut**	Brass ASTM B16, C36000
D	**Stem Packing**	PTFE
E	**Thrust Washer**	PTFE
F	**Stem**	Brass ASTM B16, C36000
G	**Body**	Bronze ASTM B584, C84400
H	**Seats**	Virgin PTFE
I	**Ball**	Chrome Plated Brass ASTM B16, C36000
J	**Adapter**	Brass
K	**Seal**	Buna-N
L	**Cap**	Brass

Valve Seat Rating

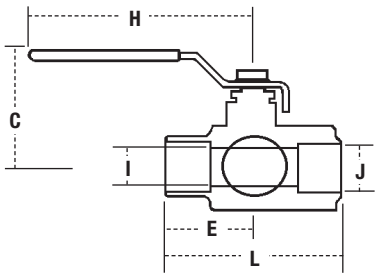


SIZE	RATING	OPERATING TORQUE	
in.	*Cv*	*in./lbs.*	*N-m*
½	15	60	6.80
¾	30	150	16.95
1	60	200	22.60

Pressure Drop vs. Flow



Dimensions — Weights



B6300

SIZE	DIMENSIONS												WEIGHT	
	C Center to Handle		E Center to End		H Radius of Handle		I Ball Orifice		J Dia. Solder Connection		L End to End			
in.	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kg.*
½	1¾	46.0	1¼	31.8	3¾	95.3	½	12.7	—	—	2 3/16	60.3	.63	.29
¾	2	47.6	1 9/16	39.7	3¾	95.3	¾	19.0	—	—	2 13/16	74.6	1.00	.45
1	2 5/16	54.0	1 15/16	49.2	4½	114.3	1	25.4	—	—	3 7/16	90.5	1.75	.80

B6301

½	1¾	46.0	1⅛	28.6	3¾	95.3	½	12.7	⅝	15.9	2⅜	54.0	.59	.27
¾	2	47.6	1 9/16	39.7	3¾	95.3	¾	19.0	⅞	22.2	3 5/16	74.6	.88	.40
1	2 5/16	54.0	1 13/16	49.2	4½	114.3	1	25.4	1⅛	28.6	3 13/16	98.4	1.68	.76

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