For Commercial and Industrial Applications

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

Series B6400

2-Piece, Standard Port, Bronze Ball Valves

Sizes: 1/4" - 4" (8 - 100mm)

Series B6400 2-Piece, Standard Port, Bronze Ball Valves come standard with actuator mounting pads, Durafill® (carbon/glass filled PTFE) seats, bottom loaded blowout proof stem, chrome plated brass ball, and adjustable stem packing to provide lasting service for a wide range of liquids and gases.

Features

- Actuator mounting pads
- ¼" 2" (8 50mm) pressure rated at 600psi (41 bar) WOG non-shock; 150psi (10 bar) WSP. 2½" 4" (65 100mm) pressure rated at 400psi (28 bar) WOG non-shock; 125psi (8.6 bar) WSP
- Latch-Lok handle available (suffix LL)
- Durafill® (carbon/glass filled PTFE) seats are standard for longer lasting seats in high or low temperature applications
- · Suitable for a full range of liquids and gases
- Chrome plated brass ball is wiped clean during each operation of the valve
- Blowout proof pressure retaining stem
- High cycle life reinforced PTFE stem packing seal and thrust washer
- Vinyl insulator on heavy duty, zinc-plated, carbon steel handles
- Excellent for throttling and balancing applications of nonabrasive fluids where minimum flow is 20% to 100% of valve capacity
- · 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. Valve shall have ASTM B584 bronze body, chrome plated ASTM B16 brass ball, ASTM B16 brass blowout proof stem, glass filled PTFE seats, PTFE stem packing, PTFE stem thrust bearing, and adjustable packing nut. Top loaded stems or valves without adjustable packing are not acceptable. Pressure rating no less than 600psi (41 bar) WOG non-shock; 150psi (10 bar) WSP for sizes ½" – 2" and 400psi (28 bar) WOG non-shock; 125psi (8.6 bar) WSP for sizes 2½" – 4". Valve must conform to MSS-SP-110 and shall be a Watts Series B6400.

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.



B6400



B6400LL

BAA/ARRA Compliant*

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

Pressure - Temperature

Temperature Range: -55°F - 450°F (-49°C - 232°C) @ 50psi (3.4 bar)

1/4" - 2" (8 - 50mm): 600psi (41 bar) WOG non-shock; 150psi (10 bar) WSP

2½" - 4" (65 - 100mm): 400psi (28 bar) WOG non-shock; 125psi (8.6 bar) WSP

Durafill® is a registered trademark of Cargill, Limited.

Options

Suffix

LC - Lever latches and locks in closed position only

LL – Lever latches and locks in open and closed positions

RH - Round handle

SE - Safety exhaust port (see literature ES-B6400-SE)

SH - Stainless steel handle and nut

SS - 316SS ball and stem

TH - Tee handle

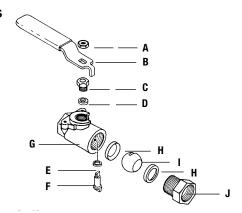
UL - UL approved under: YSDT, YRPV, HNFX, MHKZ

VT - Virgin PTFE seat

XH - Extended handle



Materials



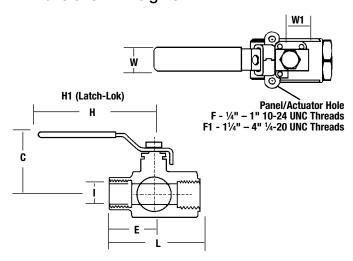
A Handle Nut Zinc Plated Carbon Steel

B Handle Zinc Plated Carbon Steel with Vinyl Insulator

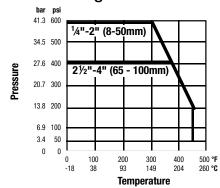
C **Packing Nut** Brass ASTM B16, C36000 D **Stem Packing** Glass Reinforced PTFE Ε **Thrust Washer** Glass Reinforced PTFE F Stem Brass ASTM B16, C36000 Bronze ASTM B584, C84400 G **Body** Durafill® (carbon/glass filled PTFE) Н Seats Ball Chrome Plated Brass ASTM B16, C36000

J Adapter Brass ASTM B16, C36000

Dimensions - Weights



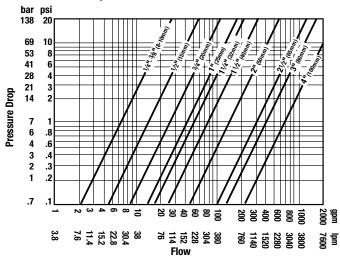
Valve Seat Rating



Valve Torque Rating

SIZ	E (DN)	CV	OPERATING TORQUE				
in.	mm	Rating	inlb.	N-m			
1/4	8	6.3	60	6.8			
3/8	10	6.3	60	6.8			
1/2	15	15	60	6.8			
3/4	20	25	90	10.2			
1	25	40	150	16.9			
11/4	32	50	200	22.6			
11/2	40	75	250	28.2			
2	50	110	320	36.2			
21/2	65	300	500	56.5			
3	80	400	600	67.8			
4	100	450	800	90.4			

Pressure Drop vs. Flow



SIZE	DN) DIMENSIONS						WI	EIGHT									
		C Center to		E			Н	ŀ	11	I		L		W & W1 Mounting			
		Handle		Center	to End	Ha	ndle	Latch-Lo	k Handle	Ball Orifice		End to End		Ctr Ctr.			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
1/4	8	13/4	45	1 ½	29	33/4	95	33/4	95	1/2	13	21/4	57	11//8	29	.6	.3
3/8	10	13/4	45	11//8	29	33/4	95	33/4	95	1/2	13	21/4	57	11//8	29	.6	.3
1/2	15	13/4	45	11//8	29	33/4	95	33/4	95	1/2	13	21/4	57	11//8	29	.6	.3
3/4	20	2	51	11/2	38	33/4	95	43//8	111	11/16	17	27//8	74	13/8	35	1.2	.5
1	25	23/8	60	13/4	45	41/2	114	41/2	114	7/8	22	31/2	89	1%	35	2.1	1.0
11/4	32	3	76	2	51	51/2	140	61//8	156	1	25	37//8	98	11//8	29	3.3	1.5
11/2	40	3	76	21/8	53	51/2	140	61//8	156	11/4	32	41/4	108	11//8	29	4.1	1.9
2	50	35/8	92	21/2	64	8	203	8	203	11/2	38	47/8	124	11/2	38	6.4	2.9
21/2	65	41/4	108	31/4	83	8	203	8	203	2	51	61/2	165	11/2	38	12.8	5.8
3	80	43//8	111	31/2	89	8	203	8	203	21/2	64	6 ¹³ / ₁₆	173	11/2	38	17.8	8.1
4	100	5	127	37/8	98	11	279	_		3	76	711/16	196	11/2	38	32.0	14.5



A Watts Water Technologies Company

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