



BRONZE BALL VALVE 600 WOG

2-Piece Standard Port Threaded Ball Valve · Cast Bronze · Lever Operated

BRAND: TOHO VALVE

FIG. ST-600

SIZE 1/4" TO 4"

600 WOG / 41 BAR



FIG. 1 | BRONZE BALL VALVE ST-600, LEVER OPERATED

PRODUCT OVERVIEW

The TOHO ST-600 is a quarter-turn, two piece bronze ball valve for on and off flow control in water, oil and gas service. The body and cap are cast bronze C84400 and the ball is brass with a hard chrome plated finish, seated between two PTFE seats for bubble tight shut off at low operating torque.

The stem is blow-out proof and is sealed by PTFE packing under an adjustable gland, so the packing can be retightened in service. Threaded ends are supplied to NPT, and a full port version is available as figure ST-601 in the same size range. Manufactured in Taiwan by Sheng An Hang Valve Machinery Co., Ltd. under an ISO 9001 quality system.

Valve type	Two piece ball valve, standard port
Operation	Manual, 90° quarter-turn lever
Body material	Cast bronze C84400
End connection	Female threaded, NPT
Pressure rating	600 WOG (41 bar / 600 psi)
Size range	1/4" to 4" (DN8 to DN100)

TECHNICAL SPECIFICATION

Figure number	ST-600, standard port	Threads	NPT to ASME B1.20.1
Full port version	ST-601, same size range	Seat test	6.9 bar (100 psi), air
Ball	Brass, hard chrome plated	Working pressure	41 bar (600 psi) WOG, non-shock
Ball seat	PTFE, two per valve	Steam rating	10.3 bar (150 psi) WSP to 178°C
Stem	Brass, blow-out proof	Shell test	62 bar (900 psi), hydrostatic
Gland packing	PTFE, adjustable	Country of origin	Taiwan

FEATURES

- Blow-out proof stem
- Two piece body design
- Standard port, quarter-turn lever operation
- PTFE seat and PTFE gland packing
- Working pressure 600 WOG, 150 WSP
- Female NPT ends to ASME B1.20.1

MANUFACTURER



SHENG AN HANG VALVE MACHINERY CO., LTD.

Quality system	ISO 9001, certificate FM584850
Body marking	TOHO on lever, 600 and size on body



PRODUCT DATA SHEET

BRONZE BALL VALVE 600 WOG

Ref. ST-600 | Rev. 01

BILL OF MATERIALS

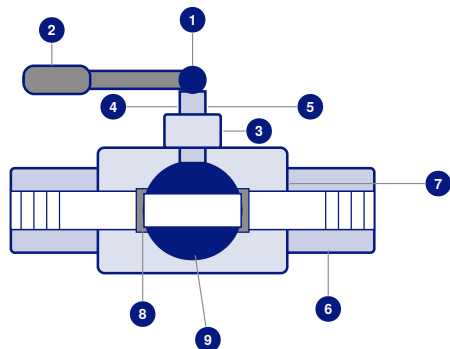


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Nut	Steel
2	Lever handle	Steel
3	Packing gland	Brass
4	Stem (blow-out proof)	Brass
5	Packing	PTFE
6	Cap	Bronze C84400
7	Body	Bronze C84400
8	Ball seat (2 nos.)	PTFE
9	Ball	Brass, hard chrome plated

A stainless steel 304 ball is available to order. Figure ST-601 shares the same materials in a full port body. Locking device and handle options can be confirmed on enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	BORE (MM)	L, ST-600 (MM)	L, ST-601 (MM)	H (MM)	LEVER (MM)
1/4"	8	10.0	49	52	47	106
3/8"	10	10.0	49	52	47	106
1/2"	15	12.7	53	54	47	106
3/4"	20	15.0	56	63	52	106
1"	25	20.0	68	76	55	106
1.1/4"	32	25.0	86	86	66	136
1.1/2"	40	31.8	96	96	72	136
2"	50	38.0	108	120	77	136
2.1/2"	65	50.0	124	159	88	180
3"	80	65.0	159	161	117	219
4"	100	75.0	189	—	127	219

L = face to face length, H = centreline to the top of the stem nut, lever = handle length. ST-600 figures are from the manufacturer drawing dated 2020.1 and ST-601 full port lengths from the manufacturer catalogue sheet. Dimensions are nominal. Certified drawings for the supplied size are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	ST-600 standard port. ST-601 full port
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
Thread	NPT (ASME B1.20.1), female
Ball	Brass hard chrome plated standard. SS 304 on request
Seat and packing	PTFE
Order example	TOHO ST-600 / 1.1/2" / NPT

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRODUCT DATA SHEET

BRONZE BALL VALVE 600 WOG

Ref. ST-600 | Rev. 01

PRESSURE AND TEMPERATURE

Cold water, oil, gas	41 bar (600 psi), non-shock
Saturated steam (WSP)	10.3 bar (150 psi) to 178°C / 350°F
Shell test	62 bar (900 psi), hydrostatic
Seat test	6.9 bar (100 psi), air

Ratings apply to non-shock service. The PTFE seat governs the upper temperature limit. Confirm the duty with SWBM before use on steam or on media outside the ranges above.

TYPICAL APPLICATIONS

- Potable and general water supply
- Plumbing, HVAC and chilled water lines
- Compressed air and low pressure gas
- Fuel oil and lubricating oil circuits
- Marine and shipboard service lines
- Industrial process and utility piping

COMPLIANCE AND QUALITY

- Manufactured by Sheng An Hang Valve Machinery Co., Ltd. (TOHO), Taiwan
- Quality system certified to ISO 9001, certificate FM584850
- Female NPT threaded ends to ASME B1.20.1
- Blow-out proof stem construction
- Two piece body allows the seats to be replaced
- 100 percent shell and seat tested before despatch
- Mill and test certificates available on request

INSTALLATION AND OPERATION

- Flush the line before installation to clear scale, weld slag and debris
- Install with the valve in the fully open position
- Apply PTFE tape or an approved sealant to the male thread only
- Tighten on the body flats, never on the handle or the stem
- The valve is open when the lever is in line with the pipe and closed at 90°
- Operate the valve periodically to prevent the seats sticking in low use lines
- Retighten the gland only if leakage appears at the stem

COMPANY

Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES

info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE

www.swbm-fittings.com
Brand: TOHO Valve, Taiwan

The information in this data sheet is provided in good faith and is believed to be accurate at the date of issue. Dimensions, weights and ratings are nominal and may vary with the manufacturer and production batch. It remains the responsibility of the purchaser to confirm that the product is suitable for the intended service conditions. Sunel Wala Building Materials Trading Co. LLC reserves the right to amend specifications without prior notice. This document does not form part of any contract of sale.