

BRONZE GLOBE VALVE 300 WOG

Rising Stem Threaded Globe Valve · Cast Bronze · Screwed-In Bonnet

BRAND: TOHO VALVE	FIG. ST-301	SIZE 1/4" TO 4"	300 WOG / 150 WSP
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FIG. 1 | BRONZE GLOBE VALVE ST-301, RISING STEM

PRODUCT OVERVIEW

The TOHO ST-301 is a bronze globe valve with a rising stem and a screwed-in bonnet. The disc closes onto a seat set across the flow, which gives fine control on throttling duty as well as reliable shut off, and keeps seat wear far lower than a gate valve used in the same service.

The rising stem shows the valve position at a glance. The standard valve has a metal disc. A rubber disc washer version (ST-301R) and a PTFE disc washer version (ST-301F) are available where tighter shut off is needed on cold service. Manufactured in Taiwan by Sheng An Hang Valve Machinery Co., Ltd. under an ISO 9001 quality system.

Valve type	Globe valve, metal disc
Operation	Manual handwheel, rising stem
Body material	Cast bronze
End connection	Female threaded, NPT
Pressure rating	300 WOG / 150 WSP (300 LBS)
Size range	1/4" to 4" (DN8 to DN100)

TECHNICAL SPECIFICATION

Figure number	ST-301, metal disc	Threads	NPT to ASME B1.20.1
Disc options	ST-301R rubber, ST-301F PTFE	Shell test	31.0 bar (450 psi), hydrostatic
Bonnet	Brass 1/4" to 3/4", bronze 1" to 4"	Working pressure	20.7 bar (300 psi) WOG, non-shock
Disc	Brass 1/4" to 1", bronze 1.1/4" to 4"	Steam rating	10.3 bar (150 psi) WSP to 185°C
Stem	Brass, rising	Test pressures	MSS SP-80
Gland packing	PTFE, adjustable	Country of origin	Taiwan

FEATURES

- Rising stem, valve position visible at a glance
- Screwed-in bonnet
- Metal disc standard, rubber or PTFE optional
- PTFE gland packing, adjustable in service
- Working pressure 300 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 diamond, size, flow arrow



PRODUCT DATA SHEET

BRONZE GLOBE VALVE 300 WOG

Ref. ST-301 | Rev. 01

BILL OF MATERIALS

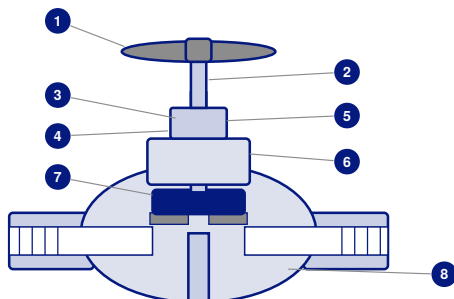


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Handwheel	Aluminium
2	Stem (rising)	Brass
3	Packing	PTFE
4	Packing ring	Brass
5	Packing gland	Brass
6	Bonnet	Brass 1/4" to 3/4", bronze 1" to 4"
7	Disc	Brass 1/4" to 1", bronze 1.1/4" to 4"
8	Body	Bronze

Seat ring options: NBR rubber washer (ST-301R) in 1/4" to 2", PTFE washer (ST-301F) in 1/4" to 4". A no lead version in C89844 is available to order. Earlier catalogue sheets list a cast iron handwheel, so confirm the handwheel material at order stage if it is critical.

DIMENSIONS AND WEIGHTS

SIZE	DN	L (MM)	H (MM)	HANDWHEEL (MM)
1/4"	8	45	69	54
3/8"	10	45	69	54
1/2"	15	50	69	54
3/4"	20	57	78	61
1"	25	65	89	68
1.1/4"	32	75	115	77
1.1/2"	40	85	120	77
2"	50	100	142	83
2.1/2"	65	120	157	105
3"	80	137	192	112
4"	100	153	221	132

L = face to face length, H = overall height with the valve closed, handwheel = wheel diameter. Allow additional headroom above H for the rising stem when the valve is open. Dimensions are taken from the manufacturer drawing dated 2022.1, are nominal and are given for guidance only. Certified drawings for the supplied size are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	ST-301 metal disc. ST-301R rubber. ST-301F PTFE
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
Disc	Metal standard. Rubber to 2", PTFE to 4"
Variant	No lead C89844 on request
Order example	TOHO ST-301 / 1" / 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 GLOBE VALVE 300 WOG

Ref. ST-301 | Rev. 01

PRESSURE AND TEMPERATURE

Cold water, oil, gas	20.7 bar (300 psi), non-shock
Saturated steam (WSP)	10.3 bar (150 psi) to 185°C / 365°F
Shell test	31.0 bar (450 psi), hydrostatic
Seat test	22.8 bar (330 psi) hydrostatic, 5.5 bar (80 psi) air

Ratings apply to the metal disc valve in non-shock service. The rubber disc washer version is limited to cold service. Test pressures follow MSS SP-80. Confirm the duty with SWBM before use on media outside the ranges above.

TYPICAL APPLICATIONS

- Throttling and regulating duty on water and oil
- Boiler feed, blow down and low pressure steam
- HVAC coil and heat exchanger control
- Bypass, drain and vent lines
- Fuel oil and lubricating oil circuits
- Marine and general industrial utility piping

COMPLIANCE AND QUALITY

- Manufactured by Sheng An Hang Valve Machinery Co., Ltd. (TOHO), Taiwan
- Quality system certified to ISO 9001, certificate FM584850
- Test pressures to MSS SP-80
- Female NPT threaded ends to ASME B1.20.1
- Rising stem gives visual indication of valve position
- 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 flow entering below the disc, following the arrow where one is cast on the body
- Apply PTFE tape or an approved sealant to the male thread only
- Tighten on the body flats, never on the handwheel or the bonnet
- Allow headroom above the valve for the rising stem
- Close by hand only, as extra leverage will damage the seat
- Retighten the gland only if leakage appears at the stem

COMPANY

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