



BRONZE ANGLE VALVE 300 WOG

90° Rising Stem Angle Valve · Cast Bronze · NBR Disc Washer

BRAND: TOHO VALVE

FIG. ST-501

SIZE 1/4" TO 2.1/2"

300 WOG / 150 WSP



FIG. 1 | BRONZE ANGLE VALVE ST-501, RISING STEM

PRODUCT OVERVIEW

The TOHO ST-501 is a bronze angle valve with a rising stem and a screwed-in bonnet. The inlet and the outlet are set at 90 degrees, so the valve turns the line and controls it in a single fitting. That removes an elbow from the run and lowers the total pressure loss through the change of direction.

The disc carries an NBR washer held in a brass disc holder, which gives tight shut off on cold water, oil and gas service. The rising stem shows the valve position at a glance and the PTFE gland packing can be adjusted in service. Manufactured in Taiwan by Sheng An Hang Valve Machinery Co., Ltd. under an ISO 9001 quality system.

Valve type	Angle valve, 90° pattern
Operation	Manual handwheel, rising stem
Body material	Cast bronze
End connection	Female threaded, NPT
Pressure rating	300 WOG / 150 WSP
Size range	1/4" to 2.1/2" (DN8 to DN65)

TECHNICAL SPECIFICATION

Figure number	ST-501	Threads	NPT to ASME B1.20.1
Pattern	90° angle, screwed in bonnet	Shell test	31.0 bar (450 psi), hydrostatic
Disc washer	NBR	Working pressure	20.7 bar (300 psi) WOG, non-shock
Disc holder	Brass	Body 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
- 90° body removes an elbow from the run
- Screwed-in bonnet
- Working pressure 300 WOG
- NBR rubber disc washer
- 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, 300 and size on body



PRODUCT DATA SHEET

BRONZE ANGLE VALVE 300 WOG

Ref. ST-501 | Rev. 01

BILL OF MATERIALS

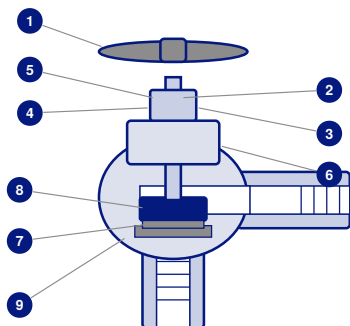


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Handwheel	Aluminium
2	Stem (rising)	Brass
3	Packing gland	Brass
4	Packing ring	Brass
5	Packing	PTFE
6	Bonnet	Bronze
7	Disc washer	NBR
8	Disc holder	Brass
9	Body	Bronze

Materials are taken from the manufacturer drawing ST-501 dated 2022.1. The NBR disc washer sets the practical temperature limit of the valve and is not suitable for steam. Confirm any hot service with SWBM before ordering.

DIMENSIONS AND WEIGHTS

SIZE	DN	L (MM)	H (MM)	HANDWHEEL (MM)
1/4"	8	25	70	54
3/8"	10	25	70	54
1/2"	15	26	72	54
3/4"	20	31	77	68
1"	25	35	85	68
1.1/4"	32	42	108	77
1.1/2"	40	49	108	77
2"	50	61	117	83
2.1/2"	65	74	194	112

L = end face to the centreline of the valve, 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. The 3" and 4" columns on that drawing carry no figures, so sizes above 2.1/2" are offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	ST-501
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2"
Thread	NPT (ASME B1.20.1), female
Disc washer	NBR standard
Body marking	TOHO, 300 and the size
Order example	TOHO ST-501 / 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 ANGLE VALVE 300 WOG

Ref. ST-501 | Rev. 01

PRESSURE AND TEMPERATURE

Cold water, oil, gas	20.7 bar (300 psi), non-shock
Body steam rating	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

The steam figure above is the manufacturer rating for the body. The standard NBR disc washer is not suitable for steam or for continuous service at elevated temperature, so confirm the duty and the disc material with SWBM before ordering for hot service.

TYPICAL APPLICATIONS

- Water and oil lines where the run changes direction
- Equipment drain, vent and blow down points
- Gauge, instrument and sampling connections
- HVAC and heating circuits
- 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

- Install with the flow entering below the disc
- Allow headroom above the valve for the rising stem and the handwheel
- Flush the line before installation to clear scale, weld slag and debris
- Apply PTFE tape or an approved sealant to the male thread only
- Tighten on the body flats, never on the handwheel or the bonnet
- Close by hand only, as extra leverage will damage the disc washer
- Retighten the gland only if leakage appears at the stem

COMPANY

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