



BRONZE Y-TYPE STRAINER 150 LBS

Y Pattern Threaded Strainer · Cast Bronze · Stainless Steel 304 Screen

BRAND: TOHO VALVE

FIG. ST-002

SIZE 1/4" TO 3"

300 WOG / MESH 20



FIG. 1 | BRONZE Y-TYPE STRAINER ST-002, SCREWED CAP

PRODUCT OVERVIEW

The TOHO ST-002 is a Y pattern strainer in cast bronze fitted with a stainless steel 304 screen of mesh 20. It protects pumps, control valves, meters and other equipment downstream by trapping scale, sand, swarf and other debris carried in the line.

The round body keeps the pressure drop low. The screen sits in a pocket closed by a screwed cap with a PTFE gasket, so it can be withdrawn and cleaned without taking the body out of the line. Screens finer than mesh 20 are supplied in two layers with a support frame. Manufactured in Taiwan by Sheng An Hang Valve Machinery Co., Ltd. under an ISO 9001 quality system.

Product type	Y pattern strainer, screwed cap
Screen	Stainless steel 304, mesh 20
Body material	Cast bronze
End connection	Female threaded, NPT
Pressure rating	150 LBS, 300 WOG
Size range	1/4" to 3" (DN8 to DN80)

TECHNICAL SPECIFICATION

Figure number	ST-002, without drain plug	Threads	NPT to ASME B1.20.1
Drain plug version	ST-002P	Screen removal	Through the screwed cap
Screen material	Stainless steel 304	Working pressure	20.7 bar (300 psi) WOG, non-shock
Screen mesh	Mesh 20 standard	Steam rating	10.3 bar (150 psi) WSP to 185°C
Gasket	PTFE	Shell test	31.0 bar (450 psi), hydrostatic
Body design	Round body for low pressure loss	Country of origin	Taiwan

FEATURES

- Stainless steel 304 screen, mesh 20
- Round body design for fast flow
- Two layers with support frame when finer than mesh 20
- PTFE cap gasket
- Working pressure 150 LBS, 300 WOG
- 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 and size on body

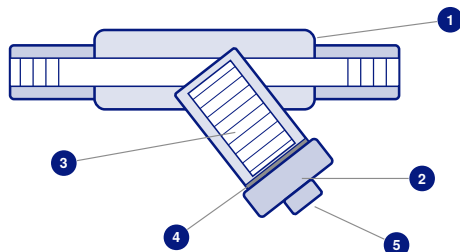


PRODUCT DATA SHEET

BRONZE Y-TYPE STRAINER 150 LBS

Ref. ST-002 | Rev. 01

BILL OF MATERIALS



#	COMPONENT	MATERIAL
1	Body	Bronze
2	Cap	Bronze
3	Screen	Stainless steel 304, mesh 20
4	Gasket	PTFE
5	Drain plug (ST-002P)	Bronze

Item numbers follow this data sheet and not the manufacturer drawing. Screens finer than mesh 20 are supplied in two layers with a support frame. ST-002 is supplied without a drain plug and ST-002P with a drain plug. A no lead version in C89844 is available to order.

FIG. 2 | SECTIONAL ARRANGEMENT

DIMENSIONS AND WEIGHTS

SIZE	DN	L (MM)	H (MM)
1/4"	8	47	33
3/8"	10	49	33
1/2"	15	58	49
3/4"	20	70	60
1"	25	85	64
1.1/4"	32	105	74
1.1/2"	40	122	92
2"	50	145	108
2.1/2"	65	184	136
3"	80	215	150

L = face to face length, H = centreline to the end of the cap. Allow clearance beyond the cap of at least H to withdraw the screen for cleaning. Dimensions are taken from the manufacturer drawing dated 2022.1, are nominal and are given for guidance only. The 4" column on that drawing carries no figures, so sizes above 3" are offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	ST-002 without drain plug. ST-002P with drain plug
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2", 2.1/2", 3"
Thread	NPT (ASME B1.20.1), female
Screen	SS 304 mesh 20 standard. Finer mesh on request
Gasket	PTFE
Order example	TOHO ST-002P / 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 Y-TYPE STRAINER 150 LBS

Ref. ST-002 | Rev. 01

PRESSURE AND TEMPERATURE

Cold water, oil, gas	20.7 bar (300 psi), non-shock
Saturated steam	10.3 bar (150 psi) to 185°C / 365°F
Pressure class	150 LBS
Shell test	31.0 bar (450 psi), hydrostatic

Ratings apply to non-shock service. A blocked screen raises the differential across the strainer, so fit gauge points either side on duties where fouling is expected and clean the screen before the differential becomes excessive.

TYPICAL APPLICATIONS

- Pump and control valve protection
- Potable and general water supply
- HVAC, chilled water and heating circuits
- Irrigation and landscape systems
- Fuel oil and lubricating oil lines
- 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
- Stainless steel 304 screen, mesh 20 as standard
- 100 percent shell tested before despatch
- Mill and test certificates available on request

INSTALLATION AND OPERATION

- Install on horizontal lines with the screen pocket pointing downwards
- On vertical lines install for downward flow only
- Follow the flow arrow on the body
- Leave clearance beyond the cap to withdraw the screen for cleaning
- Apply PTFE tape or an approved sealant to the male thread only
- Tighten on the body flats, never on the cap
- Clean the screen at commissioning and then at regular intervals

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

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