

## dot WYE Strainer Mesh Filter Valve 800 WOG1000

# dot 1/2" Stainless Steel 316 WYE Strainer Mesh Filter Valve Instruction Manual

Model: WYE Strainer Mesh Filter Valve 800 WOG1000

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your dot 1/2" Stainless Steel 316 WYE Strainer Mesh Filter Valve. Please read this manual thoroughly before installation and retain it for future reference.

The WYE strainer is designed to remove unwanted particles from liquid or gas pipelines, protecting downstream equipment from potential damage and ensuring system efficiency. Constructed from Stainless Steel 316, it offers excellent corrosion resistance and durability across a wide range of temperatures and media.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the product or system:

- Ensure the system is depressurized and drained before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Verify that the strainer's material and pressure rating are suitable for the application.
- Do not exceed the maximum operating pressure or temperature.
- Installation and maintenance should only be performed by qualified personnel.

## 3. PRODUCT OVERVIEW

The dot 1/2" Stainless Steel 316 WYE Strainer is a Y-shaped device used to mechanically remove solids from flowing liquids or gases by means of a perforated or wire mesh straining element. It is typically installed in a pipeline to protect pumps, meters, control valves, steam traps, regulators, and other process equipment.



*Figure 1: Side view of the WYE Strainer, highlighting its Y-shape and threaded connections.*



*Figure 2: Top view of the WYE Strainer, showing the hexagonal cap for filter access and the 800 WOG pressure rating.*



Figure 3: Various sizes of dot WYE Strainers, illustrating the product range.

## 4. SPECIFICATIONS

Feature	Detail
Material	Stainless Steel SS 316
Size	1/2 Inch
Pressure Rating	800 WOG (Water, Oil, Gas)
Temperature Range	-60 to 450 degrees Fahrenheit (-51 to 232 degrees Celsius)
Mesh Screen	1.00mm
Suitable Media	Full range of liquids and gas, water, air, and some corrosive liquids
Connection Type	Threaded

## 5. SETUP AND INSTALLATION

- Preparation:** Ensure the pipeline is clean and free of debris. Verify that the strainer's flow direction arrow (if present) aligns with the system's flow.

2. **Positioning:** Install the WYE strainer in a horizontal or downward-sloping position to allow for proper collection of debris in the screen and easy access for cleaning.
3. **Connection:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope suitable for stainless steel and the media) to the male pipe threads. Carefully thread the strainer into the pipeline connections, ensuring a tight, leak-free seal. Do not overtighten.
4. **Support:** Provide adequate support for the strainer and associated piping to prevent stress on the connections.
5. **Testing:** After installation, slowly pressurize the system and check for leaks. Rectify any leaks immediately.

## 6. OPERATING INSTRUCTIONS

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Once installed and the system is operational, the WYE strainer functions passively by filtering particles from the flowing media. No active operation is required beyond initial installation.

- **Flow Direction:** Ensure the media flows in the direction indicated by the arrow on the strainer body.
- **Pressure Drop Monitoring:** Monitor the pressure differential across the strainer. An increase in pressure drop indicates that the screen is accumulating debris and requires cleaning.

## 7. MAINTENANCE

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Regular maintenance is crucial for the optimal performance and longevity of the WYE strainer.

1. **Screen Cleaning Frequency:** The frequency of cleaning depends on the amount of debris in the system. Initially, check the screen frequently (e.g., weekly) and adjust the schedule as needed.
2. **Cleaning Procedure:**
  - Isolate the strainer by closing upstream and downstream valves.
  - Depressurize and drain the section of the pipeline containing the strainer.
  - Carefully unscrew the hexagonal cap at the bottom of the "Y" branch.
  - Remove the mesh screen.
  - Clean the screen using a brush and appropriate cleaning solution (e.g., water, mild detergent). Ensure all debris is removed. Inspect the screen for damage or tears. Replace if damaged.
  - Reinsert the clean screen into the strainer body.
  - Replace the cap, ensuring the gasket (if present) is properly seated. Tighten securely but do not overtighten.
  - Slowly return the system to pressure and check for leaks.



Figure 4: Internal view of the mesh filter screen, which collects particles.


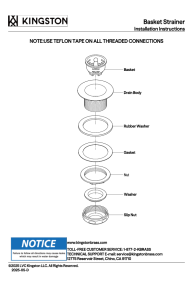

## 8. TROUBLESHOOTING

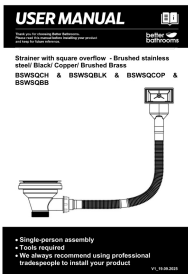
Problem	Possible Cause	Solution
Reduced flow/Increased pressure drop	Clogged mesh screen	Clean the mesh screen (refer to Section 7).
Leakage at cap	Improperly seated cap or damaged gasket	Depressurize, remove cap, inspect/replace gasket, re-tighten cap.
Leakage at pipe connections	Insufficient thread sealant or improper tightening	Depressurize, disassemble, reapply thread sealant, re-tighten connections.

## 9. WARRANTY AND SUPPORT

Information regarding specific warranty terms for this dot product is not provided in this manual. For warranty claims or technical support, please contact your supplier or the manufacturer directly with your purchase details.

## Related Documents - WYE Strainer Mesh Filter Valve 800 WOG1000

	<p><a href="#">DOT DOTH-300 User Manual - Rugged Mobile Computer Guide</a></p> <p>Comprehensive user manual for the DOT DOTH-300 rugged mobile computer, detailing its features, operation, applications, troubleshooting, and warranty information.</p>
	<p><a href="#">DOT Disposables Catalog - Comprehensive Product Selection</a></p> <p>Explore the DOT Disposables Catalog for a wide range of essential products including disposables, chemicals, and janitorial supplies. Find quality items for food service, cleaning, and business operations.</p>
	<p><a href="#">DN.ru SCV-316 Threaded Swing Check Valve - Technical Passport and Specifications</a></p> <p>Technical passport and specifications for the DN.ru SCV-316 threaded swing check valve. Includes details on purpose, operation, technical data, materials, dimensions, installation, storage, and warranty.</p>
	<p><a href="#">Kingston K461BBB Basket Strainer Installation Instructions</a></p> <p>Step-by-step installation guide for the Kingston K461BBB Stainless Steel Bar Sink Basket Strainer, featuring component identification and essential installation tips.</p>
	<p><a href="#">Watts Stainless Steel Double Check Valve GBS Kit (007-SS-GBS) - Technical Data</a></p> <p>Technical specifications, product codes, dimensions, and features for the Watts 007-SS-GBS Stainless Steel Double Check Valve with Geared Butterfly Valve and Strainer. Designed for backflow prevention in medium and low hazard installations.</p>



[Better Bathrooms Square Overflow Strainer User Manual - BSWSQCH, BSWSQBLK, BSWSQCOP, BSWSQBB](#)

Comprehensive user manual for the Better Bathrooms square overflow strainer. Includes installation instructions, component list, technical drawings, and maintenance tips for models BWSQCH, BWSQBLK, BWSQCOP, and BWSQBB.