

Installation, Operation and Maintenance Manual

Series W2000

Sanitary Wye Strainer
with Tri Clamp Connections

Model: W2400



W2400



Important Safety Information



Verify system is fully depressurized and drained prior to installation or service.



Use appropriate personal protective equipment (PPE). Do not exceed valve pressure, temperature, or media compatibility limits.



Follow all applicable local safety and sanitary regulations.

WARNING



Please read carefully before proceeding with installation. Your failure to follow any attached instructions or operating parameters may lead to the product's failure.



Keep this Manual for future reference.

WARNING

You are required to consult the local building and plumbing codes prior to installation. If the information in this manual is not consistent with local building or plumbing codes, the local codes should be followed. Inquire with governing authorities for additional local requirements.

NOTICE

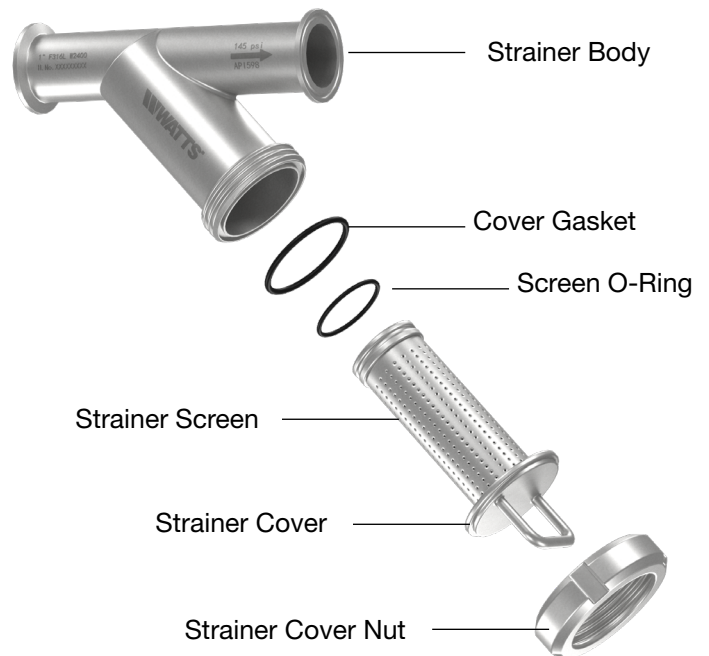
Follow the guidelines listed here for proper installation, operation, and maintenance.

NOTICE

Inquire with governing authorities for local installation requirements

General Information

Watts Sanitary wye strainers are designed for hygienic applications requiring cleanability and product integrity. Proper installation and maintenance are critical to ensure optimal filtration performance and system cleanliness.



Installation Instructions

Pre-Installation

1. Inspect strainer body, screen, and seals for damage or contamination.
2. Verify screen mesh size and material are correct for the application.
3. Ensure all mating connections, gaskets, and ferrules are clean and free of defects.

Orientation

1. Install with flow direction matching the arrow on the body.
2. Preferred installation is with the screen chamber angled downward to allow debris collection and proper drainage.
3. Ensure adequate clearance for screen removal and maintenance.

Connection

1. Install using appropriate sanitary connections (Tri Clamp, tube weld end, etc.).
2. Align piping to prevent stress on the strainer body.
3. Use properly sized sanitary gaskets and tighten clamps evenly to avoid leakage.

Operation

1. During startup, slowly introduce flow to avoid pressure shock.
2. Operate valve within specified pressure and temperature limits of 14.5 - 145psi and -4-275°F.
3. Differential pressure across the strainer must be continuously monitored using gauges or instrumentation.
4. Establish a baseline clean pressure drop at system startup for reference.
5. Strainer maintenance intervals should be determined based on pressure drop calculations specific to the application, not fixed values alone.
6. Excessive pressure drop can reduce system performance and may damage the screen.

Maintenance

Routine Inspection

1. Monitor differential pressure across the strainer on an ongoing basis.
2. Clean the strainer when pressure drop exceeds the allowable limit determined for the specific application.
3. As a general guideline, 5-10 psi may be used for standard applications, however best practice is to calculate cleaning thresholds based on system design and operating conditions.
4. Finer mesh screens will capture smaller particulates but will require more frequent inspection and cleaning due to faster fouling.
5. Inspect for leaks, corrosion, or damage during scheduled maintenance intervals.

Screen Cleaning / Replacement

1. Isolate and depressurize the system before opening.
2. Remove cover and carefully extract the screen.
3. Clean screen using appropriate methods, water, chemical cleaning, or ultrasonic cleaning as required.
4. Inspect for damage, deformation, or clogging.
5. Replace screen if damaged or excessively worn.
6. Reassemble with clean gaskets and proper alignment.

Gasket and Seal Replacement

1. Replace gaskets during maintenance or if signs of wear, cracking, or leakage are observed.
2. Use only compatible, sanitary-approved materials.

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