



YARWAY SERIES 29 IMPULSE STEAM TRAP

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

HOW TO INSTALL AND SERVICE SERIES 29 IMPULSE STEAM TRAP

The Yarway Series 29 Impulse® Steam Trap is designed for applications such as tracer lines, steam line drips, steam jacketed fittings and pumps, small press platens, laundry and dry cleaning presses and similar light to moderate condensate load service.

RATINGS AND CAPACITIES

Ratings-ANSI Class 600

Operating Pressure/Temperatures

3/8", 1/2", 3/4", A	4 to 600 psi, 750°F (max.)
3/4", 1"	6 to 600 psi, 750°F (max.)

Minimum Capacity

Following will be obtained at 100 psig near saturation temperature:

3/8"	510 lbs/hr
1/2", 3/4", A	680 lbs/hr
3/4"	2150 lbs/hr
1"	4500 lbs/hr

Connections

3/8", 1/2", 3/4", 1" NPT ANSI B2, 1

Backpressure Limits

3/8", 1/2", 3/4", A	70% of inlet pressure, absolute
3/4", 1"	50% of inlet pressure, absolute

INSTALLATION

Position

May be installed horizontally or vertically with discharge downward. Be sure arrow on body agrees with direction of flow.

Where severe freezing conditions are encountered, install trap in vertical line (discharge downward) or on its side in horizontal lines. Connect as close to drain point as practical and discharge to atmosphere directly through a short pipe. Vacuum breaker ahead of the line may be required to provide complete drainage.

Inlet Piping

Blow out before installing trap. Piping should be at least equal to or one size larger than trap connection to provide best operation. Use a Yarway "Wye" Strainer to assure best service.

Discharge Piping

To avoid excessive back pressures, discharge piping should be amply sized: for short discharge lines, use pipe equal to trap size; for longer lines, use one size larger. If several trap discharge to a manifold, size the line so as to prevent buildup of excessive back pressures during simultaneous discharge of all traps.

Valves

For temporary cut-out, bypass not needed. Use gate type valves in inlet and discharge piping to reduce pressure drop. On closed return systems, install test valves for checking trap operation, (see sketch)

TROUBLESHOOTING

Problem: Trap fails to pass condensate

Corrective Action:

Following will be obtained at 100 psig near saturation temperature:

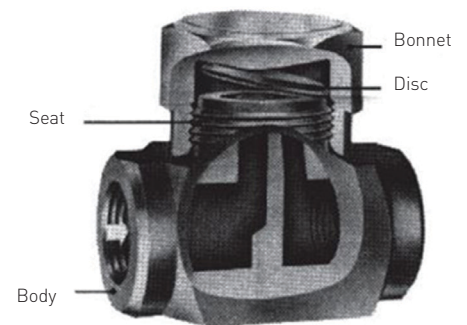
1. Check the stop valves and check valves to assure they are open.
2. Check the strainer for clogging. Blow down strainer or block off pressure, vent line, and clean strainer screen.
3. Clogged valve port. Block off pressure, vent trap. Remove bonnet and inspect ports. If clogged, clean trap without damaging seat surface. Reassemble and torque bonnet to following torque values:

3/8", 1/2", 3/4" -A	70-75 ft/lbs
3/4"	105-115 ft/lbs
1"	120-135 ft/lbs

Problem: Trap fails to close-blows steam or rapid cycles.

Corrective Action:

1. Dirt on valve seat. Block off and vent pressure. Remove bonnet. Carefully clean seat, bonnet and disc. Do not use abrasives. Reassemble and re-torque (See 3 above). If wear is apparent, replace trap.
2. Check backpressure to assure it does not exceed limit for trap size being used.

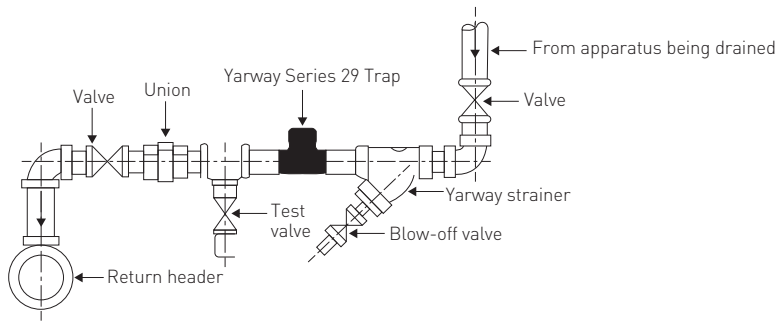


WARNING

Hot discharge from this product may cause severe burns. Discharge must be piped away or directed so that persons in the vicinity are not endangered. This product must be isolated, vented and cool to the touch before repairing or inspecting.

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NOTE

Any malfunction of this product must be reported to the service department. Repare made to the product by unauthorized personnel will void the warranty.

Right to know laws and OSHA standard 29CFR (1910.1200)

Material Safety Data Sheets on the following Yarway products:
Valves, Steam Traps and Strainers

The OSHA Hazard Communication Standard 29CFR 1910.1200, states that the standard does not apply to "articles." The standard defines an article as:

"A manufactured item formed to a specific shape or design for a particular use which does not release or otherwise expose an employee to a hazardous chemical under normal conditions of use."

The above named products fall within the definition of an "article", no Material Safety Data Sheets are available or are required. Our product is manufactured as an "end product."

If the product is a weld end the following applies.

WARNING

Materials used in manufacture of Yarway products are considered in a stable condition when shipped. However, under certain conditions purchasers could create potential hazardous conditions by their future operations.

CAUTION

Welding, cutting, burning, machining or grinding of this product can generate toxic dust and fumes of potentially hazardous ingredients. The dust or fumes can cause irritation of the respiratory tract, nose, throat, skin and eyes. It may cause temporary or permanent respiratory disease in a small percentage of exposed individuals. Use moderate ventilation when grinding or welding. Avoid breathing dust, fumes or mist. Avoid prolonged skin contact with dust or mist. Maintain dust levels below OSHA and ACGIH levels. Use protective devices. Wash hands thoroughly after contact with dust before eating or smoking.

Neither Emerson, Emerson Automation Solutions, nor any of their affiliated entities assumes responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user.

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