

YARWAY SERIES 129Y-III, 29S DISC TRAP

INSTRUCTION, OPERATION AND MAINTENANCE MANUAL

Before installation these instructions must be fully read and understood



The Yarway Series 129Y-III and 29S Impulse Steam Traps are designed for applications such as trace lines, steam line drips, steam jacketed fittings, small press platens, laundry and dry cleaning and similar light to moderate condensate load service.

SPECIFICATION

Ratings and capacities

Operating pressure / temperatures:

129Y-III	2.8 MPa	400°
29S	2.0 MPa	400°

Minimum capacity:

Following will be obtained at 0.7 MPa near saturation temperature.

129Y-III	3/8", 1/2"	370 kg/h
	3/4", 1"	840 kg/h
29S	1/4"	160 kg/h

Connections:

129Y-III	3/8", 1/2", 3/4", 1"	Rc, NPT, SW
29S	1/4"	Rc, NPT

Backpressure limits:

129Y-III	3/8", 1/2"	70%
	3/4", 1"	50%
29S	1/4"	70%

CAUTION

General safety precautions

1. Yarway Series 129Y-III and 29S Steam Trap must be installed correctly. Do not operate the product at such conditions that exceeds its maximum allowable pressure and/or temperature. Direct injury to personnel or damage to equipment which can cause injury to personnel may result if this precaution is not followed.
2. Do not operate the product when inlet pressure exceeds the product's maximum allowable inlet pressure. Direct injury or burn to personnel by means of hot drain may result.
3. Removal from piping and dismantling must be done after the product's inner pressure is atmospheric and skin temperature is ambient. Direct injury or burn to personnel by means of fluid may result in, if the product is subject to pressure or temperature.
4. Yarway recommends the use of only Yarway manufactured or supplied parts to maintain or service Disc Traps. Do not modify the product regardless it is partially or totally.
5. Do not fasten connecting bolts with excess torque value.
6. To prevent the product from being frozen, discharge remaining drain out of the plug. Frozen condensation may result in damage on the product.
7. Piping arrangement and operating sequence must be considered not to cause water hammer and its shock.

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

TROUBLESHOOTING

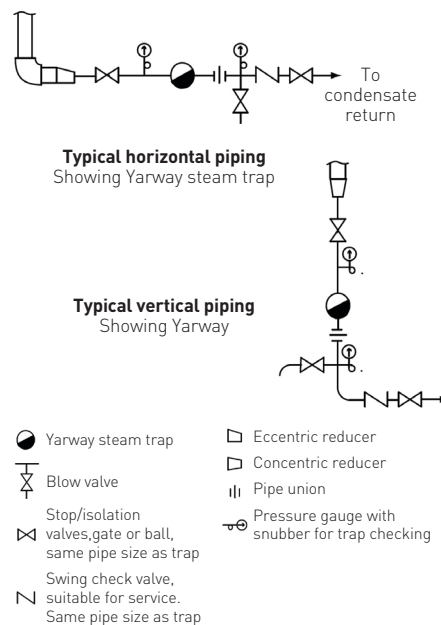
When the product does not operate correctly, follow the below-tabulated measures.

CAUTION

Removal from piping and dismantling must be done after the product's inner pressure is atmosphere and skin temperature is ambient. Direct injury or burn to personnel by means of fluid may result in, if the product is subject to pressure or temperature.

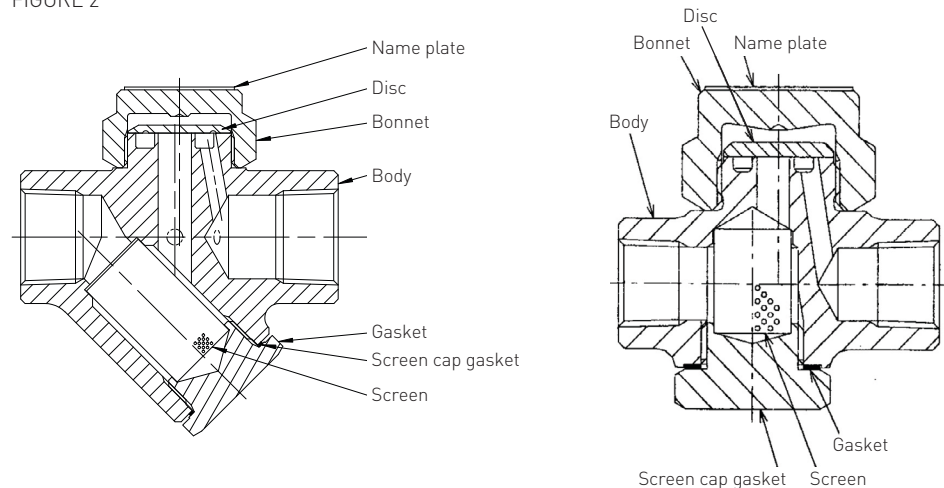
Typical installations

FIGURE 1



CONSTRUCTION

FIGURE 2



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Problem:

Trap fails to pass condensate.

Corrective action:

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:

Series	Size (inch)	Bonnet (Nm)	
		HEX	Torque
129Y-III	3/8", 1/2"	32	44-48
	3/4", 1"	46	98-108
29S	1/4"	26	13-15

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 size being used.

Series	Size (inch)	Screen cap (Nm)	
		HEX	Torque
129Y-III	3/8", 1/2"	27	147-162
	3/4", 1"	38	183-202
29S	1/4"	21	59-65

WARRANTY

1. Warranty period

The warranty period is one year from the date of shipment to the first user.

2. Scope

All items that we manufacture are warranted to be free from defects in material and workmanship and to conform to the specifications, if any. Seller's liability shall be limited to repair or replacement.

3. Exemption

No warranty is given for products or components in the following cases.

1. Product failure due to incorrect installation and operation by the user.
2. Product failure due to contamination such as dust, scale, carbon or scraps.
3. Product corrosion due to water quality.
4. Product failure due to user's error in disassembly and/or inspection.
5. Force majeure.
6. In case that the cause of the problem cannot be identified due to disposal, etc.
7. Other possible cases such as water hammer, which the seller disclaims warranty.

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