

TECHNICAL DATASHEET

Fenix hydrodynamic steam trap

WF

High-flow process · **wafer** · ½" to 1"

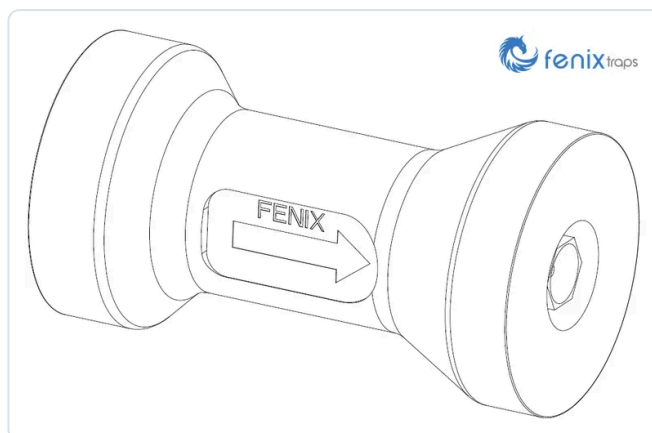
• No moving parts

• 15-year warranty

• Fenix-made strainer

The WF (wafer) trap is designed for a wide range of flows and can operate in almost any process. It is best suited to high-flow processes: in most cases its venturis are large enough not to require a strainer. It is fitted between flanges.

Connection	Wafer, between flanges
Sizes	½" (DN15) · ¾" (DN20) · 1" (DN25)
Dimension A	The length can be adjusted to your installation.
Reference standard	ISO 6552:1980
Warranty	15 years on trap and strainer



PMA 1,450 psig 100 barg Maximum allowable pressure	TMA 1,022 °F 550 °C Maximum allowable temperature	PMO 1,450 psig 100 barg · at 842 °F (450 °C) Maximum operating pressure	TMO 1,022 °F 550 °C · at 0 psig (0 barg) Maximum operating temperature
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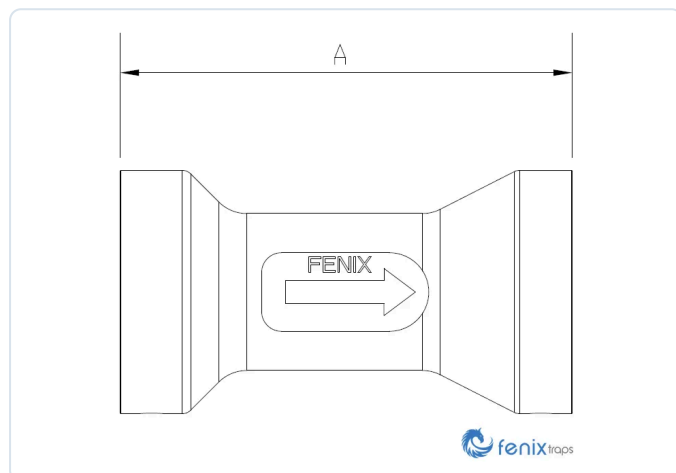
Operating parameters per ISO 6552:1980.

01 Benefits

No moving parts Works on a hydrodynamic principle with sized venturis. There is no disc, float or bimetal to wear out.	Usually no strainer Its venturis are large enough that most high-flow processes need no strainer.	Between flanges Wafer format fitted between flanges, with a length adjustable to your installation.	Up to 100 barg at 450 °C 100 barg PMO up to 450 °C and 550 °C TMO at zero pressure.
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Typical applications: Shell and tube heat exchangers · Air heaters · Calorifiers and reboilers · Cooking vessels

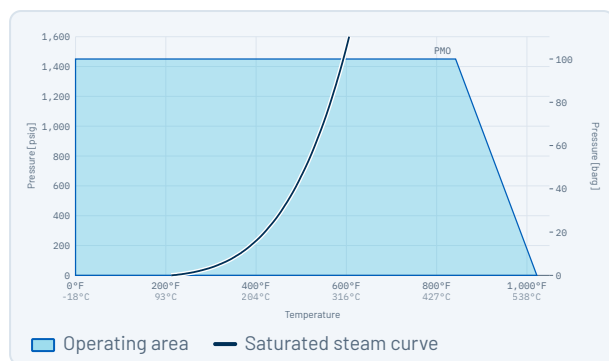
02 Dimensions



SIZE	A **	APPROX. WEIGHT
½" (DN15)	5.90 in 150 mm	2.86 lb 1.3 kg
¾" (DN20)	5.90 in 150 mm	2.86 lb 1.3 kg
1" (DN25)	6.30 in 160 mm	3.3 lb 1.5 kg

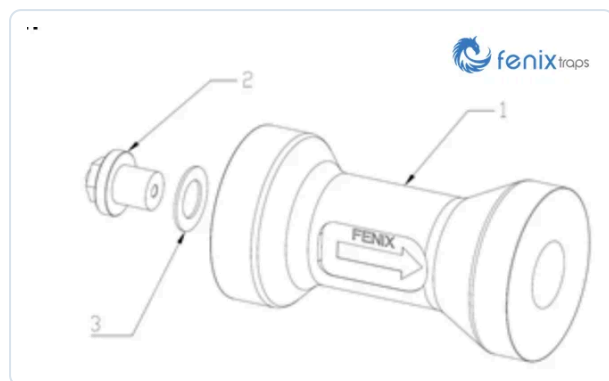
** The length can be adjusted to your installation.

03 Operating range



The shaded area shows the pressure and temperature conditions in which the trap can operate. The saturated steam curve is for reference: in saturated steam service the operating point lies on it.

04 Components and materials



NO.	PART	MATERIAL
1	Trap body	304L stainless steel
2	Inlet removable nozzle	316 stainless steel
3	Gasket	Graphite with stainless steel reinforcement

Spare parts

PART	CODE
Nozzle gasket	G-3

05 Installation and maintenance

- Install the trap following the flow direction arrow marked on the body.
- Clean and blow down the pipework before installation to remove weld slag and debris.
- Isolation valves upstream and downstream of the trap are recommended to ease maintenance.
- The nozzle is sized for each application: state pressure, back pressure and condensate load when ordering.
- The inlet nozzle is removable and its gasket (G-3) is supplied as a spare part. In most cases no strainer is needed.

Safety: before any maintenance, isolate the trap, depressurise the line and let the equipment cool down.

Steam traps must not be installed on paper machine dryer cylinders or Yankee dryers. For these applications, contact Pesint for a properly designed steam and condensate system.

Quality and traceability

Every trap is hydrostatically tested and inspected with dye penetrant. Casting and machining lots are recorded, and each trap is identified by serial number and QR code. Manufactured under an ISO 9001 quality management system.

06 Information for quotation

To size the nozzle and confirm the model, please state:

1. Model, connection and size
2. Operating pressure and maximum steam pressure
3. Back pressure or discharge type (atmosphere or return)
4. Minimum and maximum condensate load (kg/h or lb/h)
5. Equipment or application (drainage, tracing, heat exchanger, etc.)
6. Options: drain valve, special length, flange standard and rating

Specification text

Suggested text for engineering specifications:

Fenix WF hydrodynamic steam trap, no moving parts, operating with venturis sized for the application. 304L body and removable 316 inlet nozzle. Connection: Wafer, between flanges. Size: ½" (DN15) · ¾" (DN20) · 1" (DN25). PMA 1,450 psig (100 barg); PMO 1,450 psig (100 barg) at 842 °F (450 °C). 15-year warranty.

Contact: commercial@pesint.com · andres.alarcon@pesint.com · rob.williams@pesint.com

Need to select the right trap for your plant?

Our engineers review your operating conditions and recommend the right model, connection and size.

fenixtraps.com