

TECHNICAL DATASHEET

Fenix hydrodynamic steam trap

EF-SC

Screwed connection **NPT / BSP** · ½" and ¾"

• No moving parts

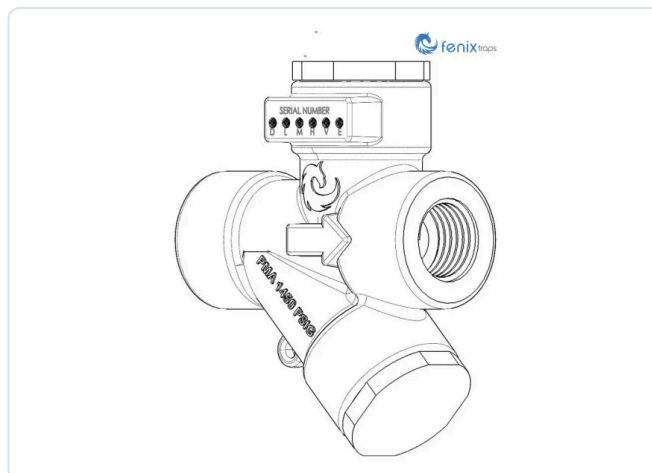
• 15-year warranty

• Fenix-made strainer

The EF trap is designed for low-flow applications such as steam line drainage and trace heating. Its face-to-face dimensions are similar to those of thermodynamic traps, the most common type for these applications. It has an integral strainer and a removable nozzle, so the body stays in the line during maintenance.

Connection	NPT or BSP thread
Sizes	½" (DN15) · ¾" (DN20)
Strainer	Stainless steel, 60 mesh
Drain valve	Optional (recommended up to 20 barg)
Reference standard	ISO 6552:1980
Warranty	15 years on trap and strainer

The drain valve is an accessory that allows easy cleaning of the strainer. It is recommended for traps operating at no more than 20 barg.



PMA 1,450 psig 100 barg Maximum allowable pressure	TMA 1,022 °F 550 °C Maximum allowable temperature	PMO 580 psig 40 barg Recommended maximum operating pressure	TMO 572 °F 300 °C · at 0 psig (0 barg) Maximum operating temperature
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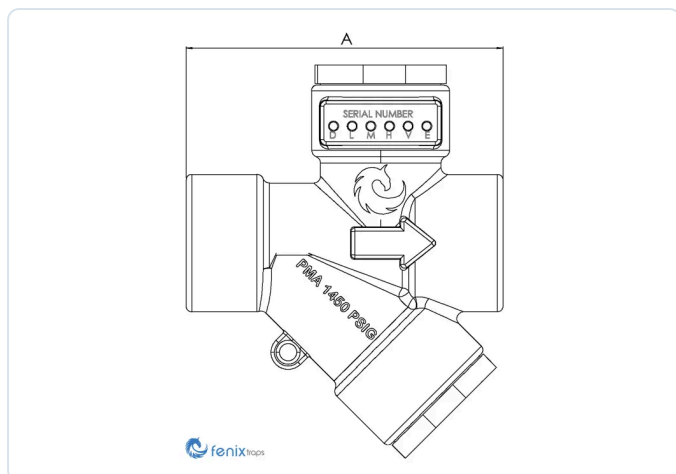
Operating parameters per ISO 6552:1980. Hydraulic cold tested to 2,175 psig (150 barg).

01 Benefits

No moving parts Works on a hydrodynamic principle with sized venturis. There is no disc, float or bimetal to wear out.	Direct replacement Face-to-face dimensions similar to thermodynamic traps, which makes replacement in existing installations easier.	In-line maintenance Integral 60 mesh strainer and removable nozzle. The body stays installed during maintenance.	High design pressure CF8M stainless steel body with 100 barg PMA, hydraulic cold tested to 150 barg.
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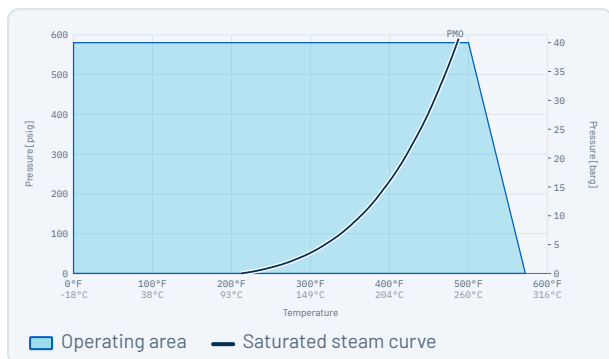
Typical applications: Steam line drainage · Steam tracing

02 Dimensions



SIZE	A	APPROX. WEIGHT
1/2" (DN15)	3.15 in 80 mm	2.39 lb 1.08 kg
3/4" (DN20)	3.46 in 88 mm	2.43 lb 1.1 kg

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	Cast stainless steel body	CF8M
2	Removable nozzle	304L stainless steel
3	Nozzle cap	304L stainless steel
4	Strainer cap	304L stainless steel
5	Strainer filter	Stainless steel, 60 mesh
6	Gaskets	Graphite with stainless steel reinforcement
7	Nipple ¹	Stainless steel
8	Drain valve ¹	Stainless steel
9	Tag area	—
10	Loop ²	—

¹ Optional accessory for easy strainer cleaning, recommended up to 20 barg. ² For an identification tag.

Spare parts

PART	CODE
Strainer filter	F-S
Cap gasket	G-4
Nozzle gasket	G-1

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 integral strainer and the nozzle come out through their caps while the body stays installed. On the EF-SC and EF-FL, the optional drain valve allows periodic strainer cleaning.

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 EF-SC hydrodynamic steam trap, no moving parts, operating with venturis sized for the application. CF8M cast body and 304L stainless steel internals. With integrated Fenix strainer (Stainless steel, 60 mesh). Connection: NPT or BSP thread. Size: ½" (DN15) · ¾" (DN20). PMA 1,450 psig (100 barg); PMO 580 psig (40 barg). 15-year warranty.

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

07 Fenix strainer, designed and made by Fenix

15

year warranty on trap and strainer

Protects the nozzle and venturis

Rust, weld slag and scale carried by the steam are among the most common causes of trap failure. The strainer holds them back before they reach the nozzle.

Robust by design

60 mesh stainless steel screen housed in the CF8M cast body, with a 304L stainless steel strainer cap.

Cleaning without removing the trap

The screen comes out through its cap; the trap body stays installed in the line.

Optional drain valve

An accessory that allows easy strainer cleaning: when opened, line pressure blows out the sediment held in the screen without opening the cap. Recommended for traps operating at no more than 20 barg.

Need to select the right trap for your plant?

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

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