Associated Flow Controls, Inc.

Product overview

Steam Traps

It is essential, without loss of live steam, to remove condensate, air and other non-condensable gases from steam systems. The Spirax Sarco range of steam traps allows the best choice to be made for all applications. A steam trap performance monitoring system complements the range.

1. Thermodynamic Steam Traps

Thermodynamic steam traps combine reliability, simplicity and efficiency of operation; with just one moving part (a hardened stainless steel disc). They give a blast discharge with clean, tight shut-off. They are able to withstand: superheat, waterhammer, corrosive condensate, freezing and vibration. The TD trap is the first choice for removal of condensate from steam distribution systems.

- Sizes up to 1".
- For operating pressures up to 3625 psig.
- Body material: carbon steel, stainless steel or alloy steel.

2. Float and Thermostatic Steam Traps

Float & Thermostatic steam traps are extremely versatile and work efficiently on both light and heavy condensate loads. Although compact in size, the discharge capacity is high and continuous, ensuring maximum heat transfer. These traps are the best choice for draining processes with automatic temperature control.

An integral air vent is fitted as standard and an adjustable needle valve is available as an option, to prevent steam locking for certain applications.

- Sizes up to 4".
- For operating pressures up to 1160 psig.
- Body material: cast iron, SG iron, cast steel or stainless steel.

3. Balanced Pressure Thermostatic Steam Traps

Balanced pressure thermostatic steam traps adjust automatically to varying steam pressures and have excellent air venting characteristics during plant start-up and during normal operation. They have large discharge capacities for their size and the robust design of the internals gives a good life expectancy.

- Sizes up to 1".
- For operating pressures up to 464 psig.
- Body material: brass, cast iron, cast steel or stainless steel.

4. Sealed Steam Traps

Sealed maintenance free steam traps.

Range: balanced pressure, inverted bucket and bimetallic versions.

- Sizes up to 1".
- For operating pressures up to 652 psig.
- Body material: stainless steel.

5. Inverted Bucket Steam Traps

Inverted bucket traps are the most robust type of the mechanical traps and will resist waterhammer. When the check valve option has been fitted in the inlet, they can be used with superheated steam. They are available with a wide selection of valve orifices for precise pressure and load matching.

- Sizes up to 3”.
- For operating pressures up to 1687 psig.
- Body material: cast iron, cast steel, alloy steel or stainless steel.



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6. Bimetallic Thermostatic Steam Traps

Bimetallic steam traps can conserve energy by discharging sub-cooled condensate in those applications which can utilize sensible heat. They are the most robust of all the thermostatic steam traps, being able to withstand waterhammer and corrosive condensate.

- Sizes up to 4”.
- For operating pressures up to 1160 psig.
- Body material: cast steel, alloy steel or stainless steel.

7. Universal Steam Traps

The comprehensive range of pipeline connectors coupled with world leading steam trap technology reduces plant downtime, maintenance costs and ensures zero emissions, while maintaining system efficiency.

Range: Suitable for use with balanced pressure, thermodynamic, inverted bucket, float and bimetallic steam traps.

- Sizes up to 1”.
- For pressures up to 667 psig.
- Body material: generally stainless steel.

8. Spiratec Steam Trap Monitors

Every steam trap that fails to operate properly can cause problems elsewhere in the steam system. Spiratec can continuously monitor your steam traps to show their operation and warn of malfunctions.

It will detect if traps are passing live steam or if they are waterlogged.

The system either uses sensor chambers mounted upstream of conventional steam traps, or integral sensors in pipeline connectors or steam traps, giving a signal to an external test point.

- Sizes up to 2”.
- For pressures up to 464 psig.
- Body material: carbon steel, SG iron or stainless steel.

9. STAPS Wireless Steam Trap Monitors

The STAPS wireless steam trap monitor has been designed to efficiently monitor and evaluate steam trap operation. It can diagnose both failed-open steam traps that leak live steam, and those that have failed-closed or are blocked resulting in waterlogging leading to plant damage, product spoilage and health and safety concerns. STAPS is available in 2 versions: an intrinsically safe ISA 100.11a WCI approved device, and a Zigbee 2.4 GHz device for non-explosive environments. Both versions are non-intrusive, clamp-on devices powered by long life Lithium batteries.



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