

Thermodynamic & Thermostatic Steam Traps



Thermodynamic Steam Traps (TD)

Spirax Sarco patented the thermodynamic design in 1953; today it is still the world's most versatile and reliable trap. The compact design features a mirror-polished, differentially hardened disc and seat for long life and a tight seal. They also provide excellent resistance to water hammer.

TD 3

The TD 3 is a thermodynamic steam trap with an inbuilt strainer and a full stainless steel construction, best suited for header and mainline drains and drop legs. This trap with screwed ends is suitable up to 36 barg and with socket weldable ends is suitable up to 42 barg and 425°C.



TD 62 (Flanged Connections) ASTM Body

The TD 62 is a maintainable high pressure thermodynamic steam trap with an integral strainer specifically designed for steam main line drainage applications up to 62 bar g. An aluminium insulating cover is fitted as a standard to prevent the trap being unduly influenced by excessive heat loss when subjected to low ambient temperatures, wind or rain.

Max. allowable pressure is 103 barg

Max. allowable temperature is 525°C



TD 62 (Flanged Connections) DIN Body

The TD 62 is a maintainable high pressure thermodynamic steam trap with an integral strainer specifically designed for mains drainage applications up to 62 bar g. An aluminium insulating cover is fitted as a standard to prevent the trap being unduly influenced by excessive heat loss when subjected to low ambient temperatures, wind or rain. Body and cover castings are produced by a TÜV approved foundry.

Max. allowable pressure is 100 barg

Max. allowable temperature is 525°C

For more information, download a Technical Information Sheet from the sidebar on the right.



TD 62 (Screwed/Socket Weld)

The TD 62 is a maintainable high pressure thermodynamic steam trap with an integral strainer specifically designed for mains drainage applications. An insulating cover is fitted as a standard to prevent the trap being unduly influenced by excessive heat loss when subjected to low outside temperatures, wind, rain etc.

Max. allowable pressure is 103 bar g

Max. allowable temperature is 525°C

For more information, download a Technical Information Sheet from the sidebar on the right.





TD 120

The TD 120 is a maintainable high pressure thermodynamic steam trap which can be supplied in 1/2 inch, 3/4 inch sizes with socket weld, butt weld or flanged connections. It has low capacity specifically for mains drainage applications upto 250 bar g.

Max. allowable pressure is 250 barg

Max. allowable temperature is 550°C

For more information, download a Technical Information Sheet from the sidebar on the right.

TD 21

The TD 21 is a thermodynamic steam trap with an inbuilt strainer and a full stainless steel construction, best suited for header and mainline drains and drop legs.

Max. allowable pressure is 21 barg

Max. allowable temperature is 425°C

For more information, download a Technical Information Sheet from the sidebar on the right.

TD 259

The TD 259 is a maintainable thermodynamic steam trap for use on instrument tracing or any small bore steam heating installations. It can be provided with an anti- airbinding disc for quick startup on batch process and is designated TD 259A.

Max. allowable pressure is 63 barg

Max. allowable temperature is 300°C

For more information, download a Technical Information Sheet from the sidebar on the right.

UTD 30 L and UTD 30 LA (Thermodynamic Steam Trap & Swivel Connector)

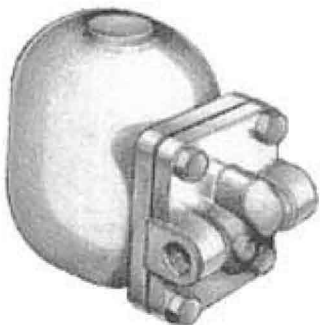
The UTD 30 L and UTD 30 LA are thermodynamic steam traps complete with pipeline connector for either horizontal or vertical installation with easy removal from the line without breaking the pipework.

Balanced Pressure Thermostatic Trap (BPT 21/AV 21)

The BPT 21/AV 21 is a Thermostatic Steam Trap/Air Vent fitted with an inbuilt flat strainer screen having 0.8 mm diameter perforations. These traps are mainly used on Steam Tracing application. When installed at the end of steam line or process equipment, BPT traps functions as steam trap and when installed on steam line header, it acts as air vent.

For more information, download a Technical Information Sheet from the sidebar on the right.

Ball Float Steam Traps

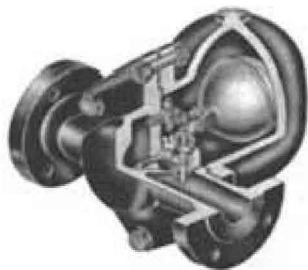


Ball Float Steam Trap (Screwed) FT-14

The FT 14 is an CI iron ball float steam trap with integral automatic air venting facility.

It is available with horizontal connections with flow from right to left FT 14 (R-L), from left to right FT 14 (L-R) or with vertical connections with flow downwards FT 14(V).

As an option, a manually adjustable needle valve can be added for use as a steam lock release and is designated FT 14-C. This is available in all three flow configurations.

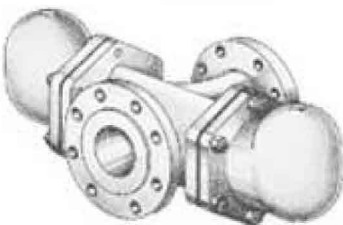


Ball Float Steam Trap (Flanged) FT-14

The FT 14 is an SG iron ball float steam trap with integral automatic air venting facility and flanged connections. It is available with horizontal connections with flow from right to left FT 14 (R-L), from left to right FT 14 (L-R). Vertical connections with flow downwards FT 14(V) is a site modified option.

As an option, a manually adjustable needle valve can be added for use as a steam lock release and is designated FT 14-C. This is available in all three flow configurations.

For more information, download a Technical Information Sheet from the sidebar on the right.



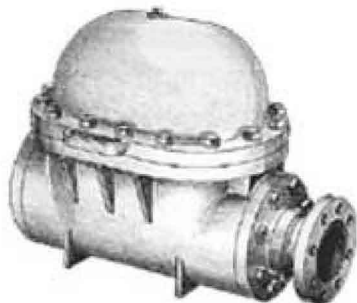
Ball Float Steam Trap FT-20

The FT-20 Ball Float Steam Trap is a condensate drain trap of cast steel body, cover and stainless steel internals.

CA-10

CA-10 is a condensate drain trap of cast iron body and cover for compressed air and other pressurized gases. The trap body is equalised with the pressure in the system through the balancing connection on top of the trap body.

For more information, download a Technical Information Sheet from the sidebar on the right.

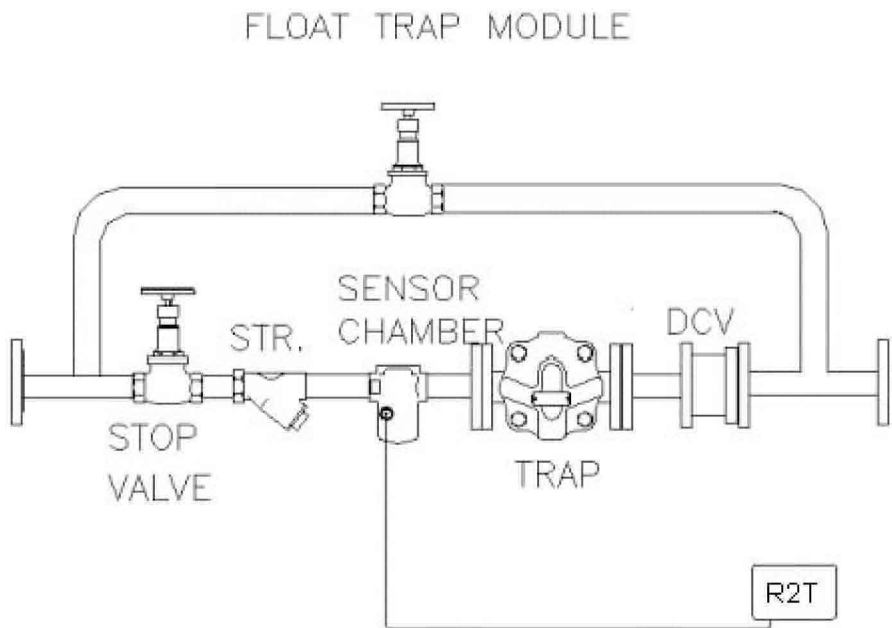


CA-20

CA-20 is a condensate drain trap of cast steel body and cover for compressed air and other pressurized gases. The trap body is equalised with the pressure in the system through the balancing connection on top of the trap body.

For more information, download a Technical Information Sheet from the sidebar on the right.

Ball Float Steam Trap Module



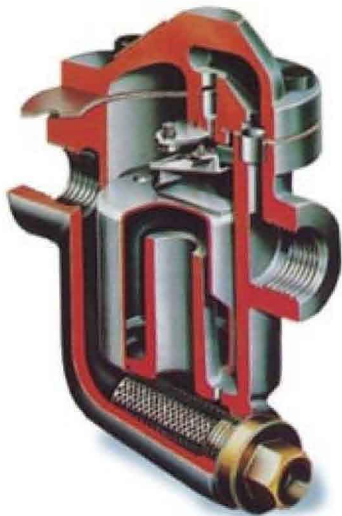
An indirect steam heating application needs trapping with suitable type and size of trap. In case of all process equipment, a Ball Float Steam Trap should be selected. A trouble free operation of steam trap is of biggest importance for efficient process. Thus, preventive maintenance of steam trap is necessary. This is achieved by installing a Strainer before trap and monitoring the performance of steam trap online using a Sensor chamber and monitoring System. When trap is discharging into closed loop condensate circuit, it is necessary to avoid any back flow and back pressure on the trap to ensure high capacity and effective operation. A Disc Check Valve plays important role in steam trapping in closed loop condensate circuit. Thus Spirax Marshall Steam Trap Module is designed to offer complete steam trapping, monitoring and maintenance solution. For customized sizing and selection, please refer to FT 10, FT 14 and FT 20 Technical Information Sheets. The Ball Float Trap Module is supplied as a flange to flange connection. Monitor to be bought separately.

Jet dyeing is done to relieve dimensional stress as well as to achieve good dye penetration. Approximate steam load in the heat exchanger is 300 kg/hr.

The temperature of liquor is to be maintained at 130 to 140 oC by using dry saturated steam at pressure of 4 bar (g).

To ensure that there is no water/condensate logging in the steam space of the heat exchanger, immediate removal through Ball Float Steam Trap Module is necessary.

Inverted Bucket Steam Trap



HM 34 Cast Steel IBST

The Spirax HM 34 cast steel inverted bucket steam trap is designed for horizontal pipelines. It is maintainable inline and is available in sizes 15 NB, 20 NB and 25 NB.

HM 00, HM 10, HM 12 IBST

The Spirax HM series of cast iron inverted bucket steam traps are designed so that they can be fitted into horizontal pipelines. They are maintainable inline and are complete with integral strainer screen.