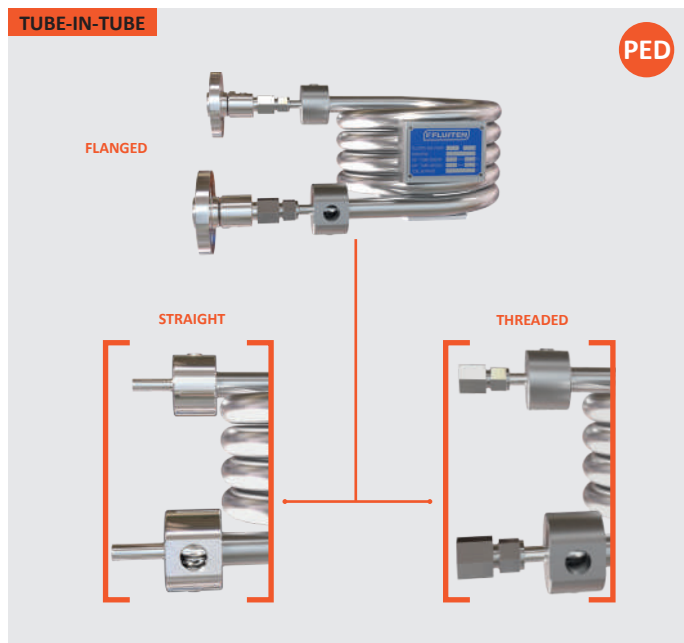


DESCRIPTION

Water heat exchangers (Fluiten code CSW) are used to cool down the process fluid and ensure a stable, liquid-phase film between the seal faces. In plan 23, thanks to a pumping ring integrated into mechanical seal, the process fluid flows through the inner tube of the heat exchanger, while the cooling water flows through the shell, or through the outer tube for the tube in tube version. Operating and environmental conditions, but also pumping ring performances are fundamental to properly evaluate heat that can be removed by the heat exchanger.



CONSTRUCTION FEATURES

- Designed according to different operating conditions, for a wide range of operations.
- Both water and the process sides can be easily vented and drained.
- Special seamless design inside the heat exchanger.
- AISI 316 components: high corrosion resistance.
- Available with flanged, straight pipe or NPT connections.
- Compact design: very useful when available space is limited.

MAIN FUNCTIONS

- Heat removal for proper mechanical seal lubrication.
- Highly recommended for boiler feed water pumps in power generation plants, sometimes also accepted in Oil & Gas plants.



CONSTRUCTION FEATURES

- Designed according to pump MAWP and MAWT: suitable for different operating conditions.
- Complete dismantling possibility: for an optimal and simple piping cleaning.
- Both cooling and process sides can be completely vented and drained.
- Shell in painted carbon steel, with option in AISI 316.
- Thermometer can be supplied, if required.

MAIN FUNCTIONS

- Heat removal for proper mechanical seal lubrication.
- Built according to API 682 specification, used in applications for Oil & Gas plants.

CAUTION!

Use of the heat exchanger must be carefully evaluated, especially when the process fluid has a high pour point. The cooling efficiency can be increased by using a throat bushing integrated into the mechanical seal design.

The heat exchanger should be placed 450 to 600 mm above the pump centerline to promote thermosyphoning effect.