PRODUCT DATASHEET

Steam Sampling System (SWAS)




DETAIL – CLOSE-UP

OVERVIEW

Steam Sampling Systems are purpose-engineered systems for collecting representative steam samples from boilers, turbines, and steam distribution networks in power generation and industrial process facilities. Our steam sampling systems incorporate dual-stage cooling technology to safely reduce sample temperature while maintaining sample integrity.

MODELS AND CONFIGURATIONS

- Double-coil sample coolers
- Pressure-reducing valves
- Back-pressure regulators
- Chilled-water secondary cooling
- High-temperature and high-pressure isolation valves

TYPICAL DESIGN DATA

Materials	SS316, SS316L, Duplex Stainless Steel
Pressure Rating	Up to 200 bar
Temperature Range	Up to 600°C (with cooling)
Cooling	Primary & secondary cooling coils
Nozzle Design	Isokinetic per ASTM D1066
Sample inlet temperature	Up to 565 °C, or to client specification
Sample inlet pressure	Up to 250 bar(g), or to client specification
Sample outlet temperature	Cooled to 25 °C nominal, or to client specification

APPLICATIONS

Thermal and nuclear power plant boiler feed water monitoring; co-generation facility steam quality assurance; boiler water treatment programme optimisation and control.

KEY ADVANTAGES

- Primary and secondary cooling stages for safe, representative sample handling
- Isokinetic sampling nozzles designed per ASTM D1066 standards for accurate sample extraction
- Integrated sample conditioning panels with precision temperature and pressure regulation
- Capability for simultaneous silica, sodium, and conductivity monitoring
- Engineered for continuous online sampling or grab sampling operation as required

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.