# Sample Coolers & Valve Assemblies

**Boiler Blowdown** 

**GESTRA Steam Solutions** 

**Gestra** 

FCD GSED 8.1.002 Issued 06/2018

Replaces CD.8.5.5 Issued 01/97

#### **Applications**

GESTRA sample coolers are specially designed for taking samples of boiler water for analysis. They prevent steam flashing off from the sample For boiler pressures up to which is dangerous and also 16barg, 202 degC: results in an incorrect boiler water analysis. They may also be used for other sampling and cooling applications where the materials of construction are suitable.

## **Continuous Sampling**

For continuous sample applications use the sample cooler type SCS4 which has a longer coil for a greater cooling effect.

# Standard & Special Designs

Standard sample coolers are supplied which meet the design and construction requirements of BS5500.

These coolers are suitable for boiler pressures up to 85 barg and temperatures up to 300°C.

Special sample coolers may be designed to special requirements. These include coolers constructed in stainless steel throughout.

#### Sample Cooler Types

All sample coolers are constructed from a carbon steel shell suitable for cooling water pressures 14 up to barg

(203psig). They are available stainless steel olives.

bolted with а top plate (removable coil) to allow cleaning and inspection of the coil.

Type SCC2 removable copper coil with brass compression fittings.

For boiler pressures up to 32barg, 239 degC:

**Type SCS2** removable 316 stainless steel olives. stainless steel coil with stainless steel compression fittings and

# For boiler pressures up to 39 barg, 250 degC:

Type SCS4 removable 316 stainless steel coil with carbon steel compression fittings and stainless steel olives.

# For boiler pressures up to 85 barg, 300 degC:

Type SCS4S removable 316 stainless steel coil with stainless steel compression fittings and



1

#### Valve Assemblies

For use with sample coolers. Consists of sample inlet valve, cooling water inlet valve, nipple, Cooling water inlet valve coupling tube and discharge spout.

For copper coil sample cooler sample cooler. type SCCspecify assembly GESTRA part No. A.1077.

For stainless steel coil sample sample cooler. cooler type SCS- specify valve GESTRA assembly part No.A.1078.

For stainless steel coil sample cooler type SCS-S specify valve assembly GESTRA part No. A.1132.

## Sample inlet valve

P.1148 For fitting in the sample line upstream of the sample cooler. The valve is screwed 1/4" BSP and is supplied fitted with 8mm OD carbon or stainless steel compression fittings to suit the sample cooler. Valve is constructed In stainless steel throughout with Grafoil packing.

Maximum pressure: 145 barg

Maximum temperature: 340℃

# **Coupling tube**

For joining the sample cooler to the sample inlet valve. Supplied in 8mm OD tube:

Copper for sample coolers type SCC Stainless steel for sample coolers type SCS- and SCS-S

# **Discharge spout**

For discharging the sample from the cooler Supplied in 8mm OD tube:

Copper for sample coolers type

SCC, and Stainless steel for Cooling water inlet valve sample coolers type SCS- and SCS-S

P.1033 For fitting on the cooling water inlet connection of the

valve The valve is screwed  $\frac{1}{2}$  " BSP  $_{\rm Sample\ inlet\ valve}$ and a 1/2" BSP malleable iron nipple is supplied to suit the

> Bronze body suitable for cooling water pressures up to 14 barg.



#### Туре H (mm) Weight (kg) SCC2, SCS2, SCS2S 375 6.0 SCS4, SCS4S 475 7.5







Gestra UK Ltd Unit 1 Sopwith Park, Royce Close, Andover, SP10 3TS Tel: 01635 46999 Email: enquiries@uk.gestra.com Web: www.gestra.com

FCD GSED 8.1.002 Issued 06/2018

Replaces CD.8.5.5 Issued 01/97

Think GESTRA for your steam, condensate and boiler house products

Boiler Level Controls & TDS Blowdown Systems

Feed Water Tanks & Systems

Heat Recovery Systems

**Pressurised Deaerator Systems** 

**Condensate Pump Sets** 

**Steam Traps** 

Manifolds

**Trap Testing & Monitoring Systems** 

**Non-Return Valves** 

**Control Valves, Actuators & Controls** 

**Pressure Reducing Stations** 

Separators

**Stop Valves** 

Strainers

**Safety Valves** 

**Pressure & Temperature Gauges** 

**Sight Glasses** 

**Contamination Detection Systems** 

Flowmetering