



STERIFLOW

a division of Jordan Valve

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Sample Cooler (SC30) Series

Installation & Maintenance Instructions for Portable Sample Cooler (SC30) Series

Warning: Steriflow sample coolers must only be used, installed and repaired in accordance with these Installation & Maintenance Instructions. Observe all applicable public and company codes and regulations. In the event of leakage or other malfunction, call a qualified service person; continued operation may cause system failure or a general hazard. Before servicing any valve, disconnect, shut off, or bypass all pressurized fluid. Before disassembling a valve, be sure to release all spring tension.

Please read these instructions carefully!

Your Steriflow/Jordan product will provide you with long, trouble-free service if it is correctly installed and maintained. Spending a few minutes now reading these instructions can save hours of trouble and downtime later. When making repairs, use only genuine Steriflow Valve parts, available for immediate shipment from the factory.

SC30 Portable Same Cooler

The SC30 portable sample cooler is designed to allow clean steam and water for injection (WFI) samples to be taken quickly and easily while maintaining product sterility during testing.

Design conditions

Coil design pressure 145 psig / 10 barg
Shell design pressure 145 psig / 10 barg

Installation

While the SC30 is designed to be portable, care should be taken during testing to ensure that the unit is securely positioned.

Cooling medium, typically city, well, or chilled water, should be connected to the cooling water inlet connection in order to allow the flow of cooling medium to be controlled during testing. A throttling valve should be located within easy reach of the sample cooler unit. The cooling water outlet should be piped to drain.

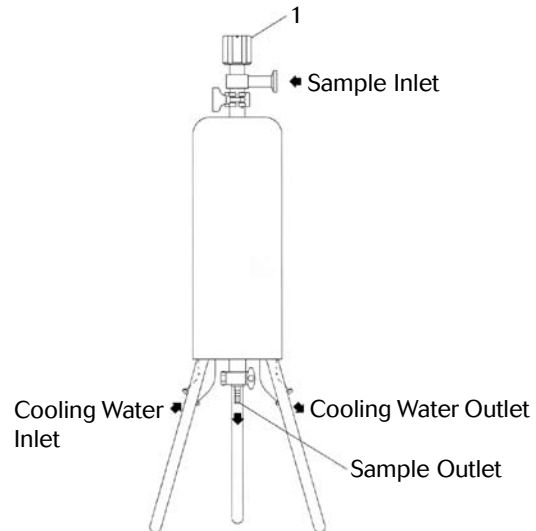
A suitably rated flexible hose (Steriflow SH Series) should be connected between the clean steam steam/water system being tested and the SC30 unit. An isolation valve should always be installed at the sample point in the clean steam/water system.

In order to simplify testing, an SV60 sample valve (1) should be attached to the SC30 sample inlet connection. When used with the SC30, the SV60 system connection can be coupled directly to the sample inlet connection.

A suitable vessel should be on hand to collect the cooled sample during testing.

Operation

1. Open the cooling water inlet valve and ensure that a flow of cooling medium is present.



Accessories	
1	SV60 Sample Valve
2 (not shown)	PTFE lined sample hose
3 (not shown)	Sample outlet hose adapter
3 (not shown)	Cooling water hose adapters
4 (not shown)	SH clean steam hose
5 (not shown)	Carry/storage case

2. Slowly open the sample inlet valve (1) until a sample is obtained at the sample outlet. Note that excessive sample flow will result in a high sample temperature.
3. Once a suitable sample has been obtained the isolation valve at the system connection should be isolated. With cooling medium still flowing, the sample valve on the SC30 should be fully opened. Once it is clear that no further sample medium is present and any residual pressure in the sample hose has decayed, the cooling medium should be isolated.

Sterilization

Prior to testing or at periodic intervals, it may be appropriate to sterilize the SC30 to ensure that product sterility is maintained during testing. To this end, the SC30 is suitable for autoclaving. Alternatively, a flexible hose (SH Series) with steam trap (MK93 Series) (available as accessory components) can be fitted on the sample outlet connection and the unit purged with steam. During such a cycle the SC30 should be drained of cooling water.

