Sterile steam sampling unit

The unit consists of a cooling coil with an integrated valve for sampling. Before taking a sample a simple sterilisation of the unit is possible. By regulating the internal cooling circuit with the integrated diaphragm valve, the operator can control the temperature of the purified steam condensate. Also the diaphragm valve allows for shutting off the cooling circuit. All process connections are designed as butt weld or clamp end in order to integrate the unit easily into the process system as per customer request.

Conforming to GMP the purified sampling unit may be permanently installed or for flexible mobile use.

- Integrated diaphragm valve for sampling
- Unit easy to sterilise
- Minimised dead leg and completely self draining
- High grade stainless steel 1.4435/316L

Features

- High condensation performance
- Time saving sampling
- Compact design
- Tube end or clamp end connection according specification
- Integrated sampling and control valve for cooling circuit
- Easy installation due to standardised compact unit
- Unit for mobile use

Cooling capacity: approx. 0.5 l/min\(^1\) (132 gpm\(^1\))
Condensate temperature: 30°C
Max. pressure vessel: 10 bar (145 psi)
Max. pressure cooling helix: 10 to -0.9 bar (145 to -13 psi)
Max. temperature: 150°C
Content cooling helix: 0.125 l (0.033 gallon)
Weight: 6.5 kg

V1 Shut off for main line purified steam
V2 Shut off to purified sampling system
V3 Shut off to steam trap
V4 Shut off cooling water entering, valve blocked in open position
V5 Shut off to cooling return flow, valve blocked in open position
V6 Shut off to drainage
V7 Diaphragm valve for shut off and regulating the cooling circuit within the unit
V8 Diaphragm valve for condensate sampling