



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

# SENTRY MVD SAMPLER

## Low Emission Samplers

### MANUAL SAMPLING

The Sentry® MVD manual low emission sampler is ideal for sampling liquids in a closed loop in refining, chemical, petrochemical and nuclear applications without emissions or exposure to the operator. The double block valve configuration assures an extra degree of safety for operators, minimizing dead volume with its unique design. The speed loop guarantees representative sample availability at the valve at all times.

For nuclear applications, the Sentry MVD sampler normally is used to collect primary side (RCS) samples for laboratory analysis. However, it also can be used to collect samples on secondary side (PWR) or turbine building side (BWR).

#### MODELS

Sentry MVD

#### BENEFITS

The Sentry MVD sampler provides representative samples while protecting the safety of operators and the environment.

The Sentry MVD sampler features a side-discharge dual needle assembly that ensures septum integrity and full venting of process vapors. This non-coring needle punctures the septum without coring it, allowing for full resealing of the septum when the sample bottle is removed. The tapered bottle shroud enables proper septum and needle alignment, preventing accidental spillage or needle breakage.

A variety of needle arrangements and sample bottle sizes are available to meet most sampling requirements. Additionally, a tube stub option is available for high viscosity fluids or slurries that contain particulates.

Since operator safety is of the highest concern, the sampling valve interface features an adjustable throttle stop and spring-loaded (dead man's) throttling valve. This provides proper sample control and quick closure upon release of the sampling valve.

#### FEATURES

- Non-coring needle design improves septum integrity
- Spring-loaded shut-off valve helps to protect against over-filling
- Separate fill and vent needles reliably vent vapors
- Unique double block valve configuration adds safety
- Needle assembly requires simple replacement without replacement of valve or disconnection of piping/tubing
- Optional nitrogen purge connection for cleaning of needles assures representative sample
- Variety of sizes and configurations available to meet various application needs
- Options include: panel-mounted valves for floor-standing or wall-mounted installations; special elastomers; NPT, SW, and metric connections; 1/2-inch valved units; isolation valves; coolers

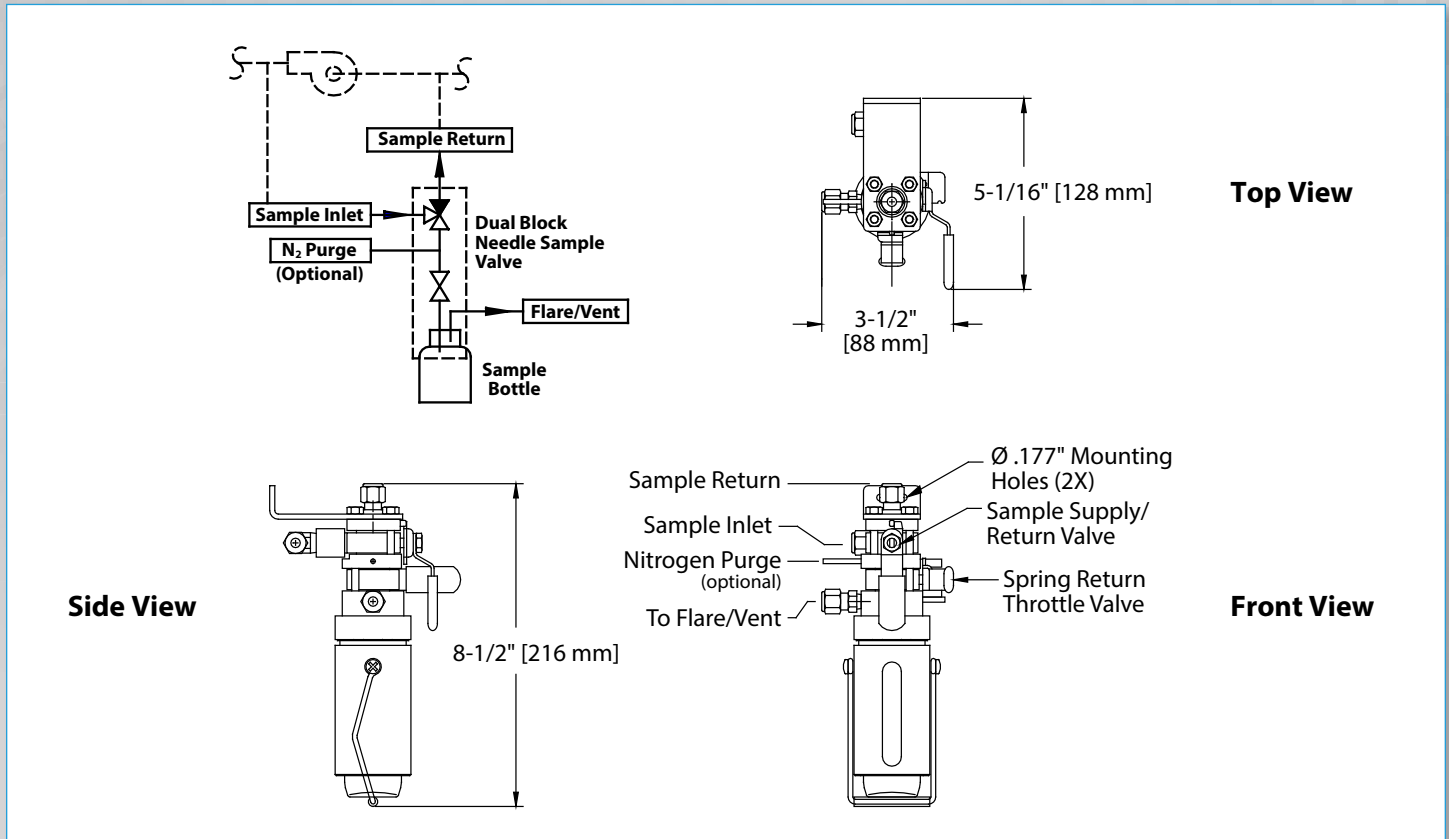


Sample. Monitor. Measure.



# SENTRY

Any Application. Anywhere.



**SPECIFICATIONS**

|                               |  |          |   |              |        |
|-------------------------------|--|----------|---|--------------|--------|
| wetted materials              | 316 stainless steel, PTFE, Viton®, Kalrez®                   |          |   |              |        |
| bottle shroud                 | nylon  |          |   |              |        |
| customer interface connection | 1/4 in compression, 3/8 in compression or 1/2 in compression |          |   |              |        |
| standard pressure rating      | 1000 psi at 250°F (70 bar at 122°C)                          |          |   |              |        |
| sampler interface             | needle assembly (OD)*  |          | bottle size and type  | Boston round | Schott |
|                               | process  | vent     |   | 2 oz (60 ml) | 50 ml  |
|                               | 0.065 in   | 0.065 in | 4 oz (125 ml)   | 100 ml       |        |
|                               | 0.083 in   | 0.083 in | 8 oz (250 ml)   | 250 ml       |        |
|                               | 0.110 in   | 0.110 in | 16 oz (500 ml)  | 500 ml       |        |
|                               | tube stub assembly (OD)                                      |          | 32 oz (1000 ml)   | 2000 ml      |        |
|                               | process  | vent     | Boston Round bottle cap/thread interfaces per GPI finish standards. Schott/Duran bottle cap/thread interfaces per ISO 4796. |              |        |
|                               | 3/16 in  | 9/64 in  | Standard septum material is Teflon-coated silicone. Other bottle or septum arrangements are available.                      |              |        |

\*other needle/tube stub arrangements available

[sentry-equip.com](http://sentry-equip.com)

966 Blue Ribbon Circle North, Oconomowoc, WI 53066 U.S.A. | +1-262-567-7256 | sales@sentry-equip.com

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S-MS-SPS-00188-12 04-18



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