



SENTRY® MODEL MVS Process Sample Valve

Safe & Accurate Sampling for Liquids in the Refining, Chemical, and Nuclear Industries



PROCESS SAMPLE VALVE

Features

- Non-coring needle design improves septum integrity
- Spring-loaded dead man's shut-off valve helps to protect against over filling
- Separate fill and vent needles for reliable venting of vapors
- Simple replacement of needle assembly without replacing valve or disconnecting piping/tubing
- Low dead volume in between sample valves

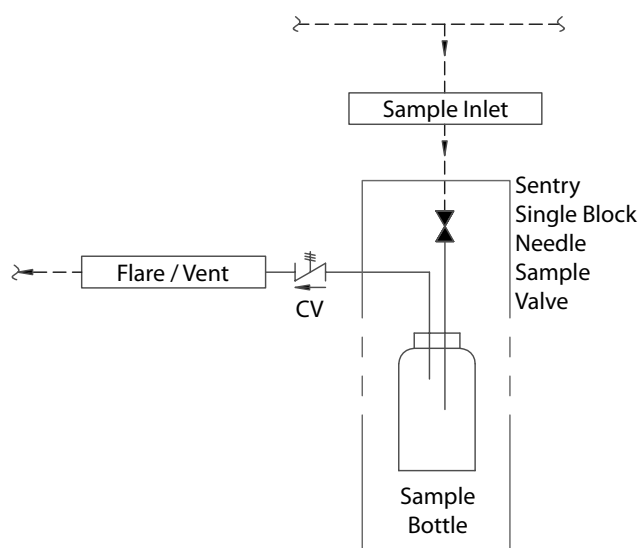
Description

The Sentry Model MVS process sample valve is specifically designed to collect process samples without emissions to the atmosphere or exposure to the operator. Dead volume is minimized by using a close-coupled ball valve specifically designed to provide low dead volume.

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

The MVS sampler uses Sentry's side-discharge dual needle assembly that ensures septum integrity and full venting of process vapors. This patented non-coring needle design 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 those that contain particulates.

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



SAMPLE VALVES

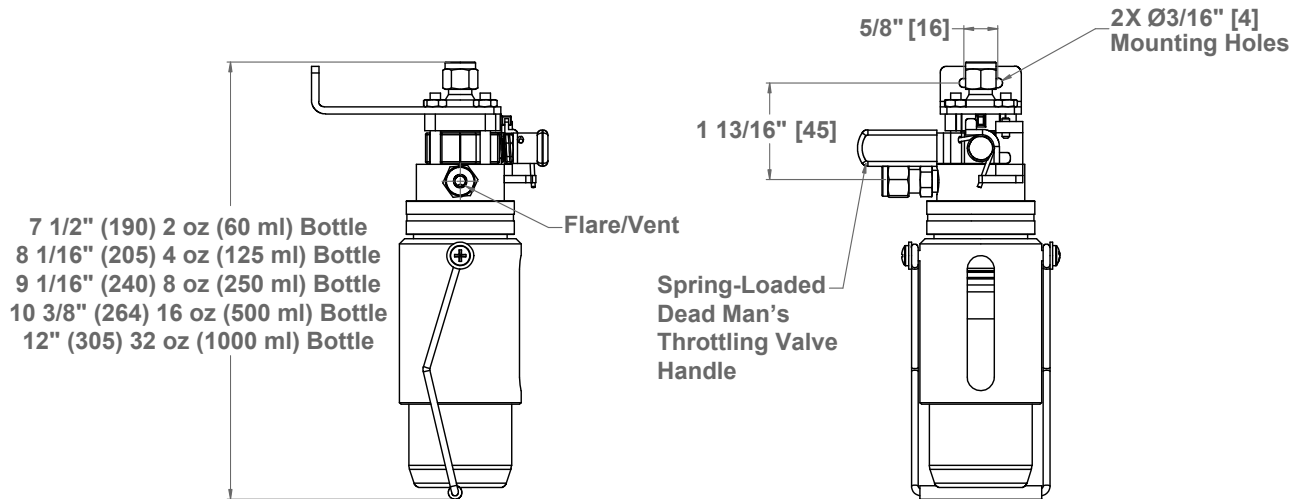
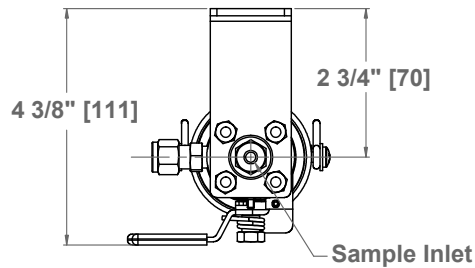
Customer Interface Connection	Valve Material*	Pressure/Temperature
1/4" Compression 3/8" Compression 1/2" Compression	316 SS / Viton® / Teflon® / Kalrez®	2200 psig @ 100°F (150 barg @ 38°C) 100 psig @ 450°F (7 barg @ 232°C)

Kalrez, Teflon and Viton are registered trademarks of E.I. Du Pont de Nemours and Company.
*PTFE-Teflon is for non-nuclear use only. PEEK and UHMWPE are acceptable for nuclear applications.

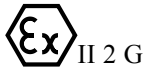
MODEL MVS OPTIONS

Fill Needle (O.D.)	Vent Needle (O.D.)	Bottle Types	Bottle Sizes	Septum Type
0.065" 0.083" 0.110" 3/16" tube stub	0.065" 0.083" 0.110" 9/64" orifice	Boston Round Schott	2 oz. (60 ml) 4 oz. (118 ml) 8 oz. (237 ml) 16 oz. (473 ml) 32 oz. (946 ml)	Teflon® coated Silicone (For nuclear options, consult factory.)

Options: Valves may be panel-mounted for floor standing or wall-mounted installations. Special elastomers are available. NPT, SW, and metric connections are available. Consult factory for more details.



It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.



SENTRY® EQUIPMENT CORP

966 Blue Ribbon Circle North
Oconomowoc, WI 53066 USA
Tel: 262-567-7256 • Fax: 262-567-4523

E-mail:
sales@sentry-equip.com

Website:
www.sentry-equip.com

QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008

For further information, contact:

Rometec srl

Via Alessandro Minuziano, 87 - 89
00128 - Roma
Tel 06-5061635 Fax 065061542
P.Iva 0412062100
www.rometec.it