



*The  
Sampling  
Connection*

## MANIFOLD VALVE SAMPLE VALVE ASSEMBLY

U.S. Patent No. 5,469,751

### *Assure Representative Sampling When Sequencing Analyzers*

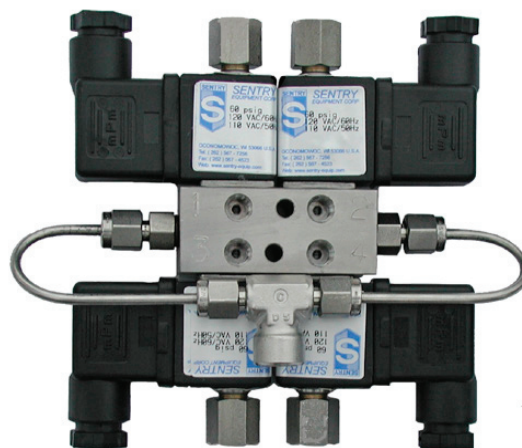
#### *Features*

- No cross contamination
- Continuous sample flow in all lines
- All wetted surfaces continuously swept with high velocity sample
- Minimal purge time, no dead legs



**Sample Sequencer™ IV** — the heart of any analyzer sequencing system. See bulletin 5.5.10.

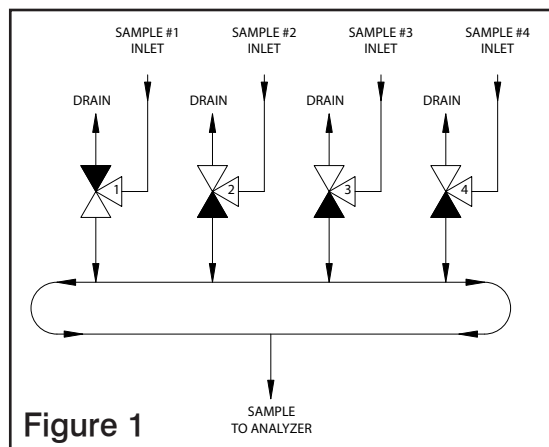
The Sample Sequencer™ IV can switch up to eight sample streams dedicated to one analyzer, lowering both acquisition and ongoing maintenance and reagent costs. The sequencer is capable of operating in a cycle or batch mode with a variety of signal outputs available.



#### *Description*

Sentry's patented manifold sample valve assembly is designed specifically for use in sequencing multiple samples to a single analyzer. It works in conjunction with Sentry's Sample Sequencer™ IV or with other control systems. It is available in either a 4-valve or 8-valve configuration and is easy to install and configure.

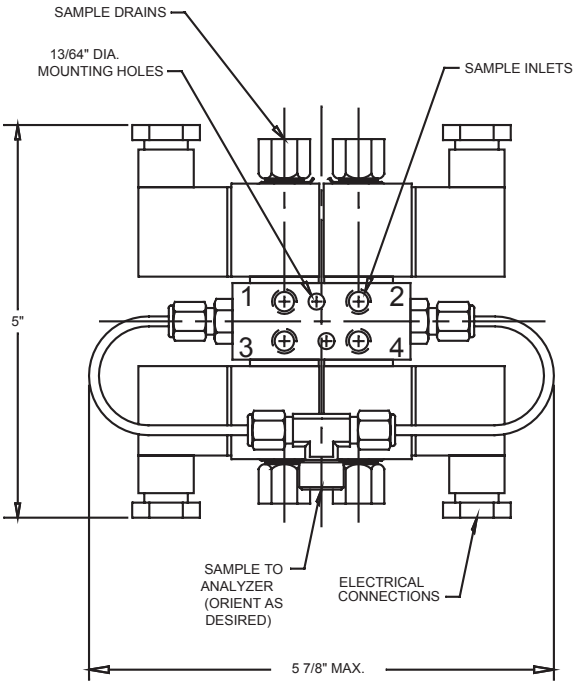
To assure a representative sample from every line, all samples flow continuously whether in or out of sequence. Normally the common sample port is closed and the sample goes through the drain port. When a solenoid coil is energized, that particular sample goes through the common port and exits to the analyzer. (See **Figure 1.**) Additionally, the manifold design provides flow in both directions from the open valve. This eliminates dead legs and assures complete purging of the old sample. Also, purge time between samples after stream switching is minimized. Sample integrity is complete with a block and bleed feature on each valve preventing any possibility of cross flow contamination.



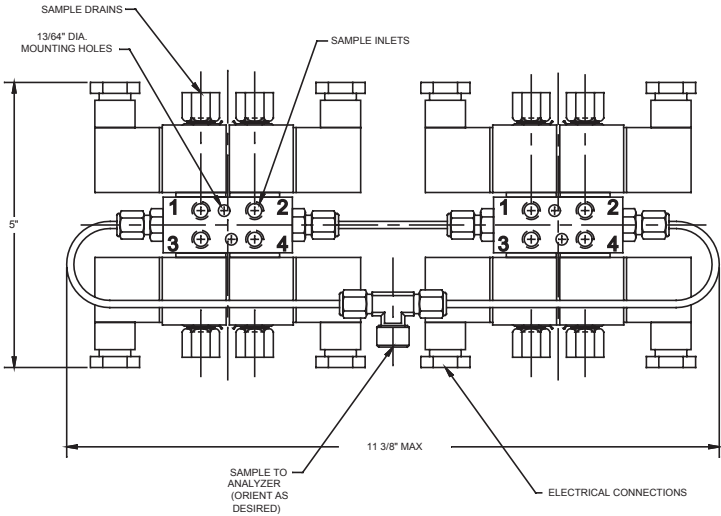
**Figure 1**

**MANIFOLD SAMPLE VALVE ASSEMBLY**

MANIFOLD VALVE TECHNICAL DATA



4 VALVE CONFIGURATION



8 VALVE CONFIGURATION

SPECIFICATIONS

Power	120, 240 VAC, 60 Hz (110, 220 VAC, 50 Hz) and 12*, 24 VDC, 3/8" cable grip NEMA 4 DIN connectors, 7 watts DC, 6.2 watts AC
Connections	1/16" FNPT sample inlets, 1/8" FNPT (drain outlets and analyzer outlet)
Pressure Rating	60 psig (4 barg)
Temperature Rating	180°F (82°C) with AC solenoid 130°F (54°C) with DC solenoid
Max. Ambient Temperature	120°F (49°C)
Wetted Materials	300 Series Stainless Steel; Viton®
Weight	4 valve: 1.7 lbs. (0.8 kg); 8 valve: 3.3 lbs. (1.5 kg)
Pressure Drop	Cv = 0.06
Designed to Meet	UL, CSA, IEC, CE
Sample Sequencer™ IV	see Bulletin 5.5.10

\*Note: The Sample Sequencer™ IV is designed for use with 12 VDC coils only.

WARNING

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.



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