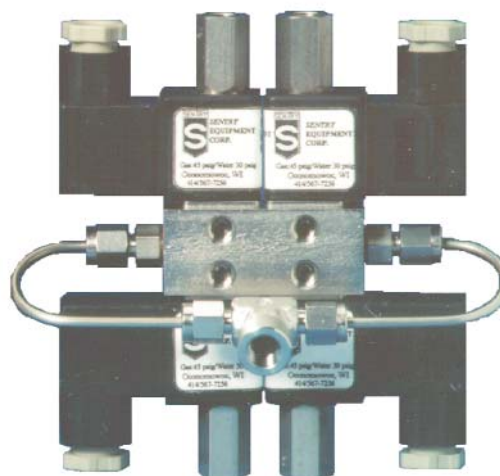




The Sampling Connection



# MANIFOLDED SAMPLE VALVE ASSEMBLY

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

*Assure Representative Sampling When Sequencing Analyzers*

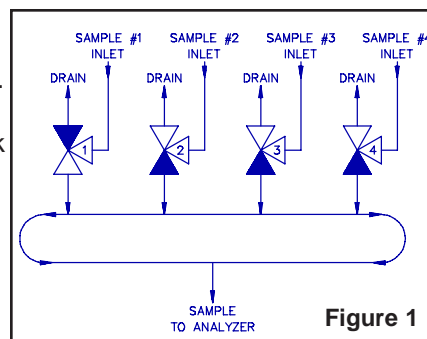
## Features

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

## Description

Sentry's patented manifold sample valve 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 lines 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 fig. 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.



**Sample Sequencer™ IV-The heart of any analyzer sequencing system. See bulletin 5.5.10.**

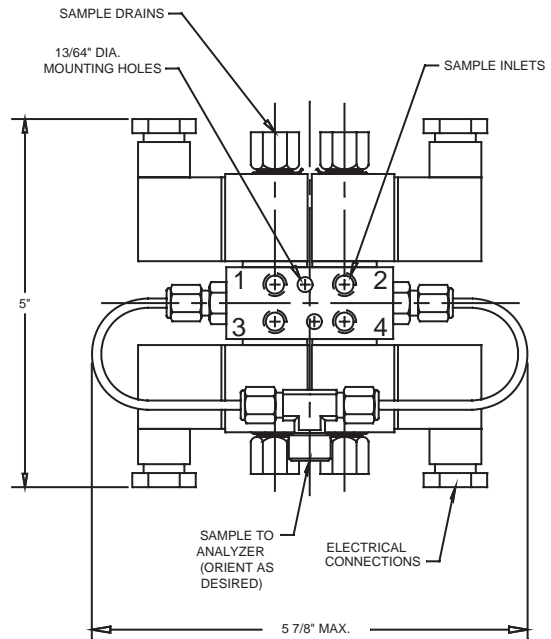
## Sample Sequencer™ IV

The Sample Sequencer™ IV can switch up to eight sample streams dedicated to one analyzer, lowering both acquisition and ongoing maintenance and reagent costs.

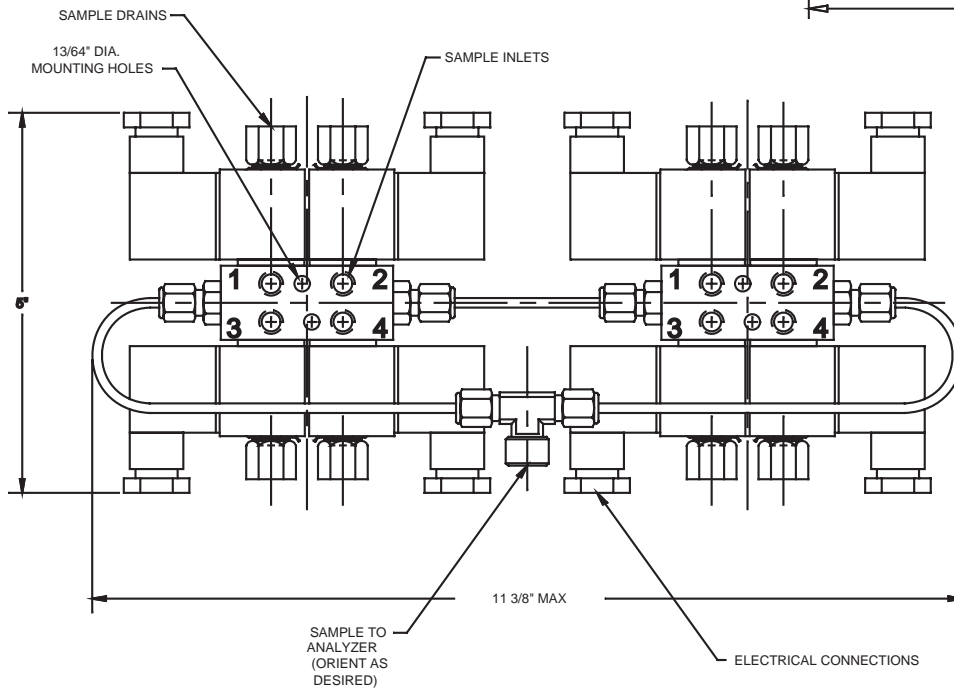
The sequencer is capable of operating in a cycle or batch mode with a variety of signal outputs available.

## SPECIFICATIONS

- Power .....120 VAC, 220 VAC, 12 VDC\*, 24 VDC, 3/8" cable grip NEMA 4 DIN connectors  
 7 watts DC, 6.2 watts AC  
**\*Note:** The Sentry Sample Sequencer™ IV is designed for use with 12 VDC coils only.
- 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 SS, Viton
- Weight .....4 valve - 1.7 lb. / 0.8 kg  
 8 valve - 3.3 lb. / 1.5 kg
- Pressure Drop .....Cv = 0.06
- Designed to meet .....UL, CSA, IEC. CE
- Sample Sequencer™ .....See Bulletin 5.5.10



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