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TRAPPING FLOWPATH - ST CONFIGURATION LOW PRESSURE SELECTORS

Technical Note 713

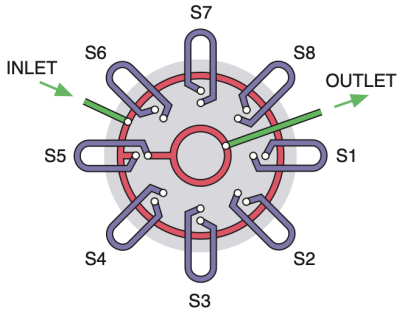


FIGURE 1: Valve body

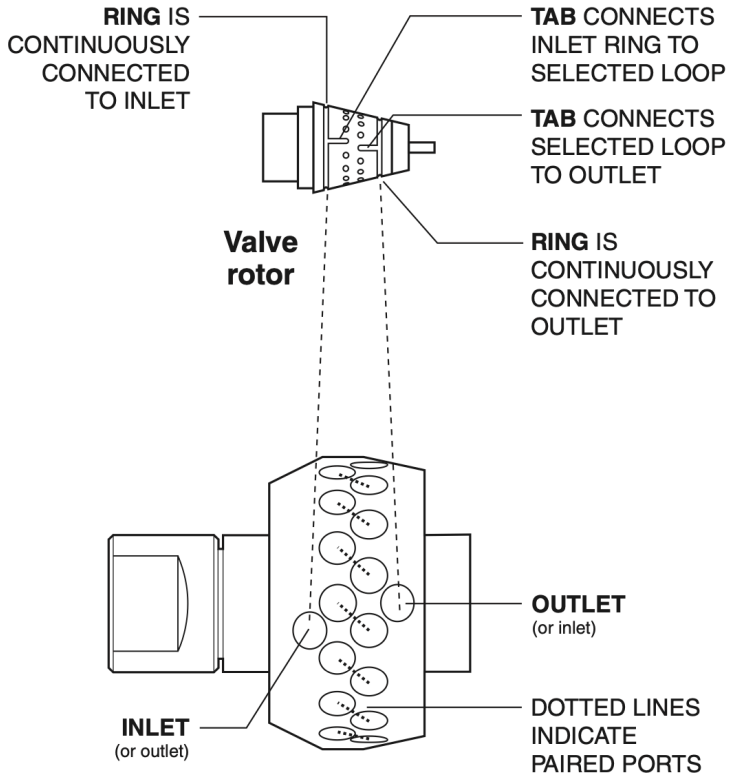


FIGURE 2: As installed on Electric Actuators

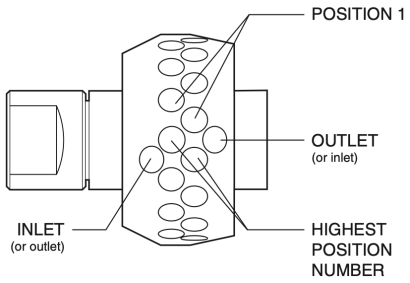
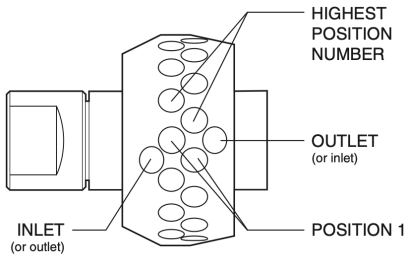


FIGURE 2: As installed on Air Actuators



CST (1/16”) and ST (1/8”) selectors are used for multi- column, multi-sample, or multi-trap operations, and are available for use with 4 to 16 loops, or positions.

Devices to be selected (loops, columns, spargers, etc. are installed in each pair of ports. Refer to the drawing above to determine which ports are paired.

Watch an animation of the ST selector flowpath at vici.com:

SAMPLE TRAPPING APPLICATIONS FOR 4 TO 16 STREAMS

ST selectors are used for multi-column, multi-sample, or multi-trap operations. The ST configuration is available in both MW and UW type designs.

A typical application, shown here, is the collection of fractions at timed intervals for analysis at a later time. Valves can be ordered with matched loops already installed.

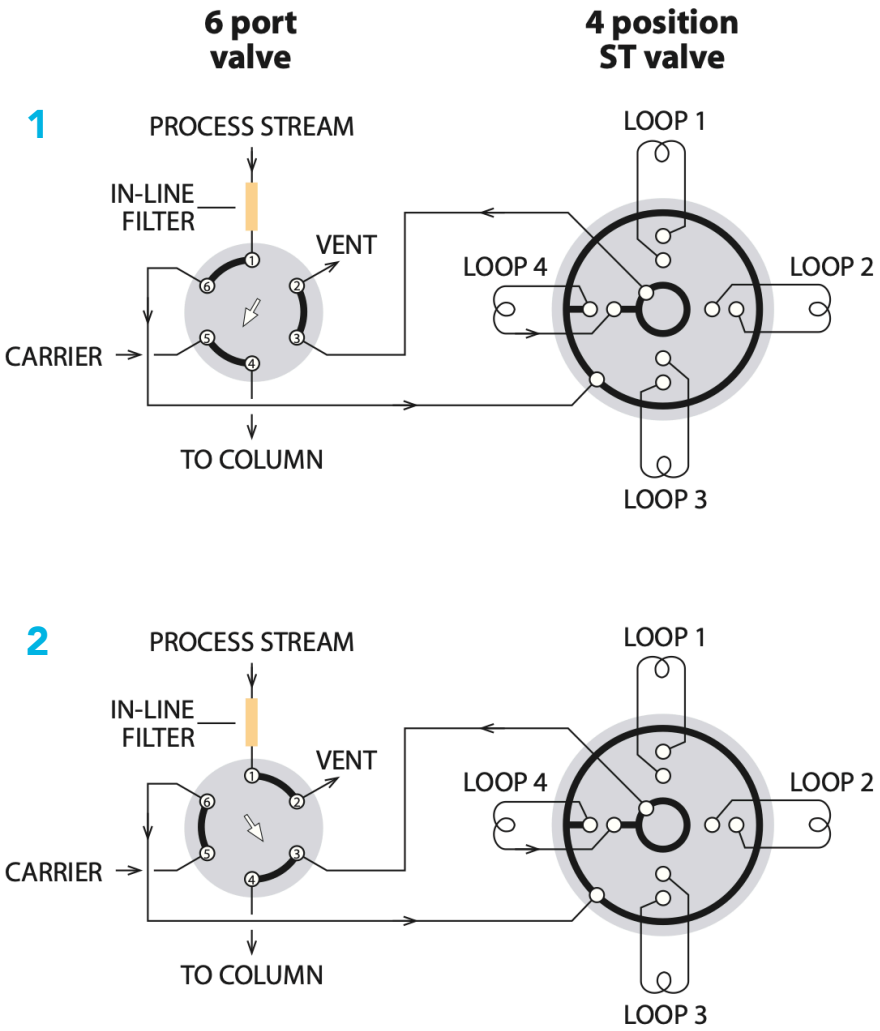
In this example, the 6 port valve shown is used to select between **1** collection/trapping and **2** analysis/desorption. Both valves can be supplied with pneumatic or electric actuators to automate these functions.

Watch an animation of the ST selector flowpath at vici.com:

ADDITIONAL TECHNICAL NOTES

Technical notes related to cleaning and rotor replacement and to proper valve/actuator alignment can be found in the Support section of vici.com.

APPLICATION - ST FLOWPATH



TECH TIP

Because the most common cause of valve failure is stray particulates entering the valve, we strongly recommend the use of in-line filters at sample entry points.

Our ZUFR filters feature inexpensive and easily replaceable low pressure drop filter screens (2 or 10 micron).

The filters are available in 1/16", 1/8", and 1/4" standard, reducing, and bulkhead versions.