

COMMON OUTLET FLOWPATH - SC CONFIGURATION LOW PRESSURE SELECTORS

Technical Note 711

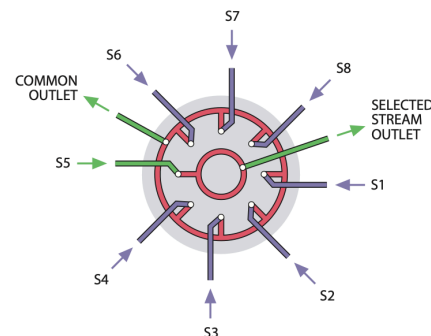


FIGURE 1: Valve body

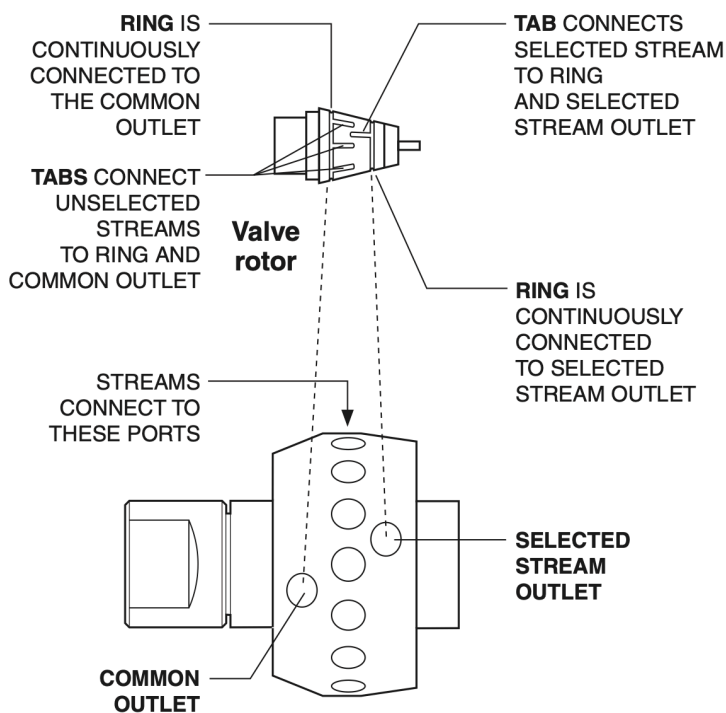


FIGURE 2: As installed on Electric Actuators

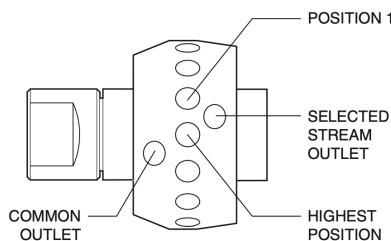
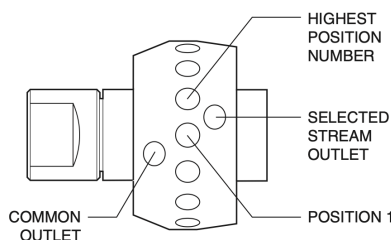


FIGURE 2: As installed on Air Actuators



CSC (1/16") and SC (1/8") flowpath selectors select one of 4 to 16 streams, with the selected stream flowing from the valve outlet to a sample valve, pressure sensor, detector, column, etc. The non-selected streams flow to a common outlet, instead of being dead-ended as in the SD model.

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



STREAM SELECTION WITH CONTINUOUS FLOW TO A COMMON OUTLET

SC selectors are similar to the SD configuration, except that instead of being dead-ended the non-selected streams flow to a common outlet. They are also available in 4, 6, 8, 10, 12, or 16 position versions.

The SC configuration is ideal for air quality monitoring, illustrated in this example.

The application is essentially the same as the one shown for the SD selectors on the previous page, except that the non-selected streams are continuously pulled through the valve, insuring that the most current sample will be provided as each point is selected for analysis.

1 The sample loop on the 6 port valve is loaded from Stream 1.

2 The 6 port valve is switched, injecting the sample. Both valves can be automated with air or electric actuators for unattended operation.

Watch an animation of the SC 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.

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.

APPLICATION - SD FLOWPATH

