

About Selectors

Instead of the back and forth switching of two position valves, selectors (multiposition valves) step incrementally through continuous revolutions (bi-directionally with the microelectric actuator). While we can supply older models, all the valves in this catalog have a preload assembly. This design allows the rotor to be inspected or replaced without taking the valve off the actuator, and valves ordered with a microelectric actuator are permanently aligned.

Flowpath Configurations

SD (dead-ended) valves select one of 4 to 16 dead-ended streams, directing it through the valve outlet to a sample valve, pressure sensor, detector, column, etc. The same configuration can also direct one stream to a number of outlets for fraction collection.

SC (common outlet) selectors are similar to SDs, except that instead of being dead-ended the non-selected streams flow to a common outlet.

SF (flow-through) selectors are similar to SDs and SCs, selecting a stream and sending it to the outlet. However, SFs allow the non-selected streams to flow through individual outlets instead of a common outlet.

ST (trapping) selectors are used for multi-column, multi-sample, or multi-trap operations.

STF (trapping/flow-through) selectors are similar to STs, with the single difference being that the non-selected streams are returned to their own vents or sources rather than being dead-ended or trapped as they are in the standard ST configuration.



PORT DIAMETERS—

Low pressure (MW)

Fitting size	No. of Positions	Standard port diameter	
SD			
1/16"	4 - 16	0.75 mm	(.030")
1/8"	4 - 16	1.0 mm	(.040")
1/4"	4 - 10	4.0 mm	(.156")
SC			
1/16"	4 - 16	1.0 mm	(.040")
1/8"	4 - 16	1.0 mm	(.040")
1/4"	4 - 8	4.0 mm	(.156")
SF			
1/16"	4 - 16	1.0 mm	(.040")
1/8"	4 - 16	1.0 mm	(.040")
1/4"	4 - 8	4.0 mm	(.156")
ST			
1/16"	4 - 16	0.75 mm	(.030")
1/8"	4 - 16	1.0 mm	(.040")
STF			
1/16"	4 - 16	0.75 mm	(.030")
1/8"	4 - 16	1.0 mm	(.040")

PORT DIAMETERS—

High pressure (UW)

Fitting size	No. of Positions	Standard port diameter	
SD			
1/16"	4 - 12	0.40 mm	(.016")
1/8"	4, 6, 8	0.75 mm	(.030")
ST			
1/16"	4, 6	0.40 mm	(.016")

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Loops, if required, are found on corresponding valve pages.

For special port diameters, please consult the factory.