

TECHNICAL SUPPORT



Valve Applications – Valco Two Position Injectors and Valves

Overview

These illustrations show basic sample injection techniques using Valco two position valves. With rare exceptions, there is no difference between switching valves and external volume sampling valves, so the same valve can be used for either function.

BLANK VALVE
TEMPLATES

Product support

Valve applications

· Two position

The unique advantage of 8 and 10 port valves is that they reduce extra column volume by combining sampling and switching functions in a single valve. This minimizes expense, maintenance, service, and risk of leaks as compared to multiple 6 port valve systems.

- 4 port
- 6 port
- 8 port
- 10 port

Valco

Cheminert

Diaphragm

SEE ALSO

- Cheminert valves
- Valco valves
- Diaphragm valves

· Selector (multiposition)

Format descriptions
 " Static: side-by-side view of valve in each position, much like in our print catalog
 " JavaScript: one position is shown at a time, with the position changed by a mouse click
 · YouTube: animated version delivered by YouTube

Valco

Cheminert

See applications sorted by number of ports in the valve.

**this Page YouTube "Links" R LIVE > Click !
Page 2 Links > ASK !**

Chromatograms

Applications, listed alphabetically

General reference

Unit conversion

Regulatory support

Title	Valve	Format
Alternate column regeneration	1 0 port	Static JavaScript YouTube
Backflush of precolumn to vent	6 port	Static JavaScript YouTube
Detector selection from two columns, or one column and auxiliary carrier	4 port	Static JavaScript YouTube
Dual microvolume sample injection	6 port	Static JavaScript YouTube
Heart cut trapped in a loop and injected onto a second column	1 0 port	Static JavaScript YouTube
Loop sampling with backflush of precolumn to vent	1 0 port	Static JavaScript YouTube
Loop sampling with backflush to detector	8 port	Static JavaScript YouTube
Loop sampling with two column sequence reversal	1 0 port	Static JavaScript YouTube
Microvolume sample injection	4 port	Static JavaScript YouTube
Same sample to different loops	8 port	Static JavaScript YouTube
Sample enrichment (cleanup) using dual precolumns	1 0 port	Static JavaScript YouTube
Sample injection	6 port	Static JavaScript YouTube
Sample injection and heart cut to detector	1 0 port	Static JavaScript YouTube
Simultaneous injection of the same sample onto two separate columns	1 0 port	Static JavaScript YouTube
Simultaneous injection of the same sample onto three separate columns	1 4 port	Static JavaScript YouTube
Two column selection	6 port	Static JavaScript YouTube
Two different samples to same column	1 0 port	Static JavaScript YouTube
Two different samples to two columns	1 2 port	Static JavaScript

Applications, listed by number of ports

4 ports	Format
Detector selection from two columns, or one column and auxiliary carrier	Static JavaScript YouTube
Microvolume sample injection	Static JavaScript YouTube
6 ports	Format
Backflush of precolumn to vent	Static JavaScript YouTube
Dual microvolume sample injection	Static JavaScript YouTube

Sample injection	Static JavaScript YouTube
Two column selection	Static JavaScript YouTube
8 ports	Format
Loop sampling with backflush to detector	Static JavaScript YouTube
Same sample to different loops	Static JavaScript YouTube
10 ports	Format
Alternate column regeneration	Static JavaScript YouTube
Heart cut trapped in a loop and injected onto a second column	Static JavaScript YouTube
Loop sampling with backflush of precolumn to vent	Static JavaScript YouTube
Loop sampling with two column sequence reversal	Static JavaScript YouTube
Sample enrichment (cleanup) using dual precolumns	Static JavaScript YouTube
Sample injection and heart cut to detector	Static JavaScript YouTube
Simultaneous injection of the same sample onto two separate columns	Static JavaScript YouTube
Two different samples to same column	Static JavaScript YouTube
1 2 and 14 port	Format
Two different samples to two columns (12 ports)	Static JavaScript
Simultaneous injection of the same sample onto three separate columns (14 ports)	Static JavaScript YouTube

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