

TECHNICAL SUPPORT**Valve Applications – Valco Two Position Injectors and Valves**

Overview

Product support

Valve applications

.Two position

Valco

Cheminert

Diaphragm

.Selector (multiposition)

Valco

Cheminert

Chromatograms

General reference

Unit conversion

Regulatory support

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.

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.

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

See applications sorted by number of ports in the valve.

Applications, listed alphabetically

Title

BLANK VALVE
TEMPLATES

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

SEE ALSO

- Cheminert valves
- Valco valves
- Diaphragm valves

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

Alternate column regeneration

Valve Format

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