

Cheminert® valves

FOR INJECTION, SWITCHING, AND STREAM SELECTION

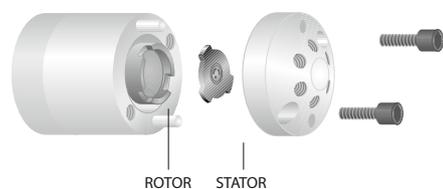
- Pressure ratings from 100 psi to 20,000 psi liq
- Inert, biocompatible construction
- Easy field service
- Automated operation – pneumatic or electric
- 4, 6, 8, and 10 port and internal sample two position models
- Stream selection versions with up to 26 positions

Design

The basic Cheminert design involves a flat rotor which is engraved with slots which connect the ports. A stator is held at a constant, preset force against the rotor.

When repairs are required, all that is necessary for rotor access is the removal of two or three screws. Remove the old rotor and replace it, put the screws back in and tighten them, and the valve is ready for use at the factory-set pressure specification. No adjustments are possible, much less required. Other advantages of the design include easy panel mounting, low actuating torque, and compact size.

The flat plate design offers flow paths for basic flow switching, sample injection, and stream selection up to 10 positions (28 positions in some models).



Materials of Construction

UHPLC models have stators of specially coated stainless steel, with PAEK rotors.

HPLC models have stators of Nitronic 60 stainless steel, PAEK, Hastelloy C, or titanium, all of which are compatible with common HPLC solvents. Many are available with a proprietary long-life coating. Valcon H rotors are used with metal stators, and Valcon E with PAEK.

Low pressure models have PPS stators and rotors of Valcon E2, a proprietary reinforced PTFE composite.

Metal valves are supplied with stainless nuts, with ferrules of the same material as the stator. Fittings for polymeric valves vary with the valve design. The valve price lists contain more detailed information.

Sample injection loops are available in a variety of materials, and are found on the pages with their corresponding valves.

TECH TIP

For optimal zero dead volume connections, make sure your tubing meets the best industry standards. OD tolerance should be nominal dimension $\pm .002$ ".

Fractional dimension	Nominal dimension
1/32"	.031
1/16"	.062
1/8"	.125
1/4"	.250
3/8"	.375
1/2"	.500

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Nanovolume®

Cheminert Nanovolume® injectors, switching valves, and selectors are ideal for high speed, high throughput techniques which demand a valve and fitting system that minimize internal volume and eliminate dead volume.

A proprietary rotor material and stator coating achieve pressures to 20,000 psi, suitable for the most demanding analytical techniques. All models are compatible with any VICI actuation option.



Nanovolume® Injectors and switching valves

Application	Fittings		Bore size	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	360 micron		100 or 150 µm	C72MU	20,000 psi	p. 154
				C72MX	15,000 psi	p. 154
				C72MH	10,000 psi	vici.com
	1/32" stainless		100 or 150 µm	C72NU	20,000 psi	vici.com
				C72NX	15,000 psi	p. 155
				C72NH	10,000 psi	vici.com
1/16" stainless		150 µm	C72X	15,000 psi	vici.com	
			C72H	10,000 psi	vici.com	
HPLC 5,000 psi	1/32" PEEK or stainless		100 or 150 µm	C2N	5,000 psi	p. 158

Nanovolume® Internal sample injectors

Application	Fittings		Bore size	Sample sizes available	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	1/32" stainless		100 µm	4, 10, or 20 nl	C74NU	20,000 psi	vici.com
					C74NX	15,000 psi	vici.com
					C74NH	10,000 psi	vici.com
	1/16" stainless		150 µm	10, 20, or 30 nl	C74NU	20,000 psi	vici.com
					C74NX	15,000 psi	p. 155
					C74NH	10,000 psi	vici.com
1/16" stainless		150 µm	10, 20, or 50 nl	C74U	20,000 psi	vici.com	
				C74X	15,000 psi	vici.com	
				C74H	10,000 psi	vici.com	
HPLC 5,000 psi	1/32" PEEK or stainless		100 or 150 µm	4, 10, or 20 nl	C4N	5,000 psi	p. 159

NANOVOLUME® VALVES AT VICI.COM

For more information on all valve options listed here, go to:

www.vici.com/cval/cval_nano.php



Nanovolume® Selectors

Application	Fittings		Bore size	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	1/32" stainless		100 or 150 µm	C75NU	20,000 psi	vici.com
				C75NX	15,000 psi	p. 172
				C75NH	10,000 psi	vici.com
	1/16" stainless		150 µm	C75U	20,000 psi	vici.com
				C75X	15,000 psi	vici.com
				C75H	10,000 psi	vici.com

CHEMINERT VALVES

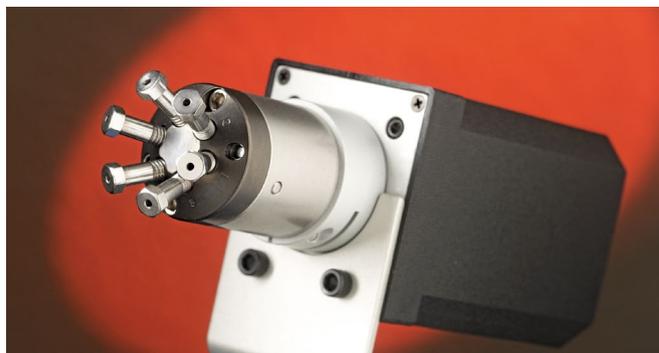
UHPLC

Cheminert UHPLC injectors, switching valves, and selectors are ideal for high speed, high throughput techniques which demand a valve and fitting system that minimize internal volume and eliminate dead volume.

VICI offers UHPLC versions for nanobore and microbore applications.

Nanovolume® UHPLC valves

See previous page for information about Nanovolume® UHPLC injectors, switching valves, and selectors.



Microbore UHPLC injectors and switching valves

Application	Fittings		Bore size	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	1/32" stainless		250 µm	C72NU	20,000 psi	vici.com
				C72NX	15,000 psi	vici.com
				C72NH	10,000 psi	vici.com
	1/16" stainless		250 µm	C72U	20,000 psi	vici.com
				C72X	15,000 psi	p. 156
				C72H	10,000 psi	p. 156

Microbore UHPLC internal sample injectors

Application	Fittings		Bore size	Sample sizes available	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	1/32" stainless		250 µm	20, 50, or 100 nl	C74NU	20,000 psi	vici.com
					C74NX	15,000 psi	vici.com
					C74NH	10,000 psi	vici.com
	1/16" stainless		250 µm	20, 50, or 100 nl	C74U	20,000 psi	vici.com
					C74X	15,000 psi	p. 157
					C74H	10,000 psi	p. 157

Microbore UHPLC selectors

Application	Fittings		Bore size	Model	Pressure rating	More info
UHPLC 20,000 psi 15,000 psi 10,000 psi	1/32" stainless		250 µm	C75NU	20,000 psi	vici.com
				C75NX	15,000 psi	p. 172
				C75NH	10,000 psi	vici.com
	1/16" stainless		250 µm	C75U	20,000 psi	vici.com
				C75X	15,000 psi	vici.com
				C75H	10,000 psi	p. 173

UHPLC VALVES AT VICI.COM

For more information on all valve options listed here, go to:

www.vici.com/cval/cval_uhplc.php



MORE INFORMATION

Nanovolume® injectors and selectors 147

HPLC injectors

Nanobore

Nanovolume® HPLC injectors and internal sample injectors include 1/32" PEEK nuts and ferrules. See page 147 for an overview of these valves.

Microbore

Model C2 valves can be used as injectors or switching valves.

Model C4 is an internal volume sample injector with sample sizes ranging from 10 nl to 50 nl.

Model C6 continuous flow injector is designed to maintain pump flow during most of the switching cycle, virtually eliminating pressure spikes.

Model C1CFI is a 6 port through-the-handle continuous flow injector. An engraving on the stator maintains pump flow between ports 2 and 3 during most of the switching cycle, virtually eliminating pressure spikes. Because the handle is integral to the design, all Model C1CF valves are manual, with position feedback standard.

Analytical

Models C2, C6, and C1CFI are also available for analytical injection and switching, with port sizes of 0.40 mm (.016"). **Model C4** offers internal volume sample sizes ranging from 0.1 to 0.5 µl.

Semi-Preparative HPLC

Model C2 valves are available with flow passages optimized for semi-preparative HPLC. Choose from 4, 6, 8, or 10 port versions. Contact our sales or technical support departments for more information.

Autosampler Replacements

We supply direct replacements for injectors in many popular autosamplers. Call technical support to determine which replacement is best for your application.



Model C2
Microbore, page 160
Analytical, page 163

5,000 psi



Model C4
Microbore, page 161
Analytical, page 164

5,000 psi

Internal sample



Model C6
Microbore, page 162
Analytical, page 165

5,000 psi

Continuous flow



Model C1CFI
Microbore, page 162
Analytical, page 165

5,000 psi

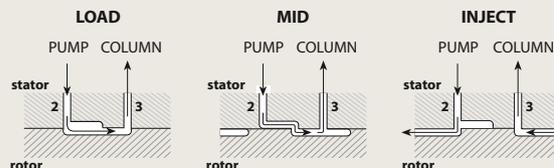
Through-handle

Continuous flow

MORE INFORMATION

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MODEL C1CFI FLOWPATH



For schematic diagrams of continuous flow Model C6, see pages 162 and 165.

CHEMINERT VALVES

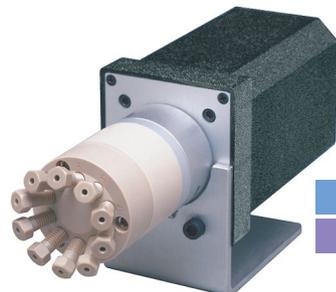
Low pressure injectors

With Valco Zero Dead Volume (ZDV) Fittings

C20Z Series valves with zero dead volume fittings (10-32 thread) are shipped with standard PEEK nuts and ferrules. Zero dead volume fingertight fittings and nuts and ferrules of other materials may be ordered separately. Standard specifications are 100 psi gas/250 psi liquid at 75°C. On request, the pressure rating can be as high as 600 psi liquid. **Caution:** Metal fittings will damage the threads and details of C20Z series valves. Use of metal fittings in a C20Z valve voids the warranty.

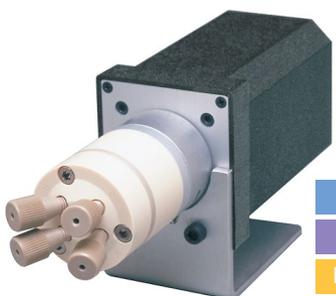
The **Model C22Z** is a conventional two position sample injector and switching valve, with 4, 6, 8, or 10 ports. Sample injection requires a loop, ordered separately.

The **Model C24Z** is an internal sample injector, for applications in which the sample size is smaller than that of any available external loop. Sample sizes available are 0.2, 0.5, and 1 µl.



Model C22Z
page 166

- Low pressure
- 10-32 ZDV



Model C24Z
page 168

- Low pressure
- 10-32 ZDV
- Internal sample

With Cheminert 1/4-28 Fittings

C20 Series valve caps have female threads for direct connection of lines – no couplings are required. C20 Series valves are available in 4, 6, 8, and 10 port versions. Standard specifications are 100 psi gas/250 psi liquid at 75°C.

Multicolored Cheminert 1/4-28 flangeless fittings for 1/16" or 1/8" OD tubing (depending on the valve model) are included.

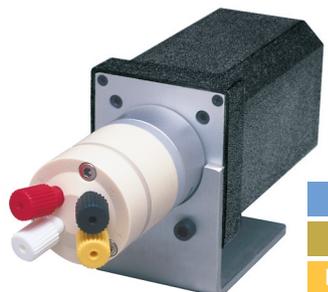
Model C22 valves are used for sample injection or switching. (Functionally equivalent to Model C22Z) Sample injection requires a loop, ordered separately.

The **Model C24** is an internal sample injector like the C24Z, available with 0.5, 1.0, or 2.0 µl sample size.



Model C22
page 167

- Low pressure
- 1/4-28 Int.



Model C24
page 169

- Low pressure
- 1/4-28 Int.
- Internal sample

CAUTION
Metal fittings will damage the threads and details of C20Z series valves (models C22Z, C24Z, C25Z). Use of metal fittings in a C20Z valve voids the warranty.

TECH TIP
Our life tests indicate that these valves will typically give more than 100,000 cycles before requiring any service. This assumes that the fluid used is free of particulates and not reactive toward the valve components. If the stream may contain particulates, or if it has high salt content which could precipitate within the sample lines, use an in-line filter.
Note: Valves with purge ports are available on request.

MORE INFORMATION
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Actuation 188-209

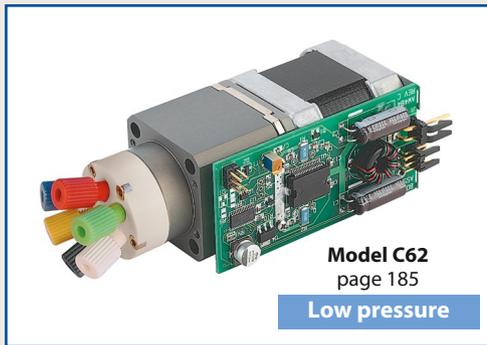
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For OEMs



Integrated Motor/Injector Assemblies

Cheminert's **Model C52** (HPLC) and **Model C62(Z)** (low pressure) injectors are integrated motor/valve assemblies designed specifically to be built into an OEM system. Using the well-proven Cheminert injector designs and the 24 volt motor from our popular microelectric actuators, the C52 and C62 need only to be connected to the instrument's power supply.

Control is simplified to require a single contact closure; the injector's position is determined by whether the closure is held high or low. There's even an easy way for the instrument to confirm the valve's position by sensing the output from a built-in sensor.

In the default control mode, one contact closure shifts the injector to inject and a second is required to shift it back to load. A simple jumper change shifts the mode to single contact closure, in which a contact closure moves the injector from load to inject, where it remains until the contact is broken and the injector reverts to the load position. Jumper settings can also be modified to change the motor's degree of rotation so it can be used with any of the valve models available.

All these features are built into a compact and light-weight package and are available in 4, 6, 8, and 10 port configurations. Serial communication via RS-232 is optional.

Autosampler and Other OEM Injectors

Model C3 is a unique injector with a syringe injection port centered on the rear face of the valve (opposite the handle or actuator), allowing convenient syringe insertion when the valve is mounted on an actuator inside an instrument.

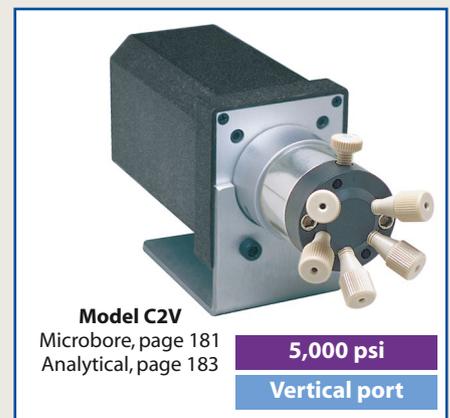
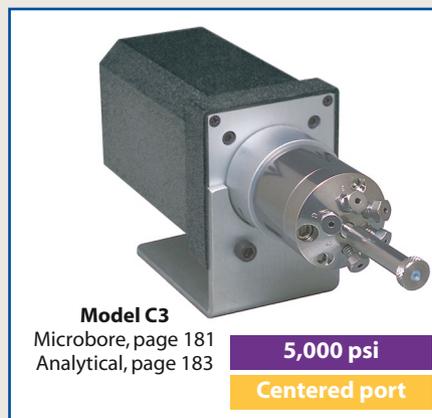
Model C2V is designed specifically for use in an autosampler. It is like the standard C2 except that the sample port is perpendicular to the valve axis. This permits the valve and actuator to be installed horizontally, while the syringe loads the injector vertically.

UNIVERSAL ACTUATOR

The new universal actuator operates virtually any Valco or Cheminert rotary valve – two position and selector alike – greatly simplifying the electronic aspect of instrument design.....193

OEM SELECTOR VALVES

See pages 153 and 186-187 for selector (multiposition) valves for OEMs.



CHEMINERT VALVES

UHPLC and high pressure selectors

UHPLC **Model C75** selectors offer pressure ratings of 20,000 psi, 15,000 psi and 10,000 psi with 1/32" and 1/16" fittings for nanobore and microbore applications. See charts on pages 147 and 148 for all options.



Model C75
See chart on page 147

- 20,000 psi**
- 15,000 psi**
- 10,000 psi**



Model C5
page 174

5,000 psi

HPLC **Model C5**, with Valco ZDV fitting details, is available with 4, 6, 8, or 10 positions. Stators are available in Nitronic 60 stainless, titanium, and Hastelloy C-22, with rotors of Valcon H, all of which are compatible with common HPLC solvents. PAEK stators are used in combination with Valcon E rotors.



HPLC column selector system
page 175

5,000 psi

Column selector system

The C5 valve is the backbone of the Cheminert **HPLC column selector system**, which includes two stream selection valves mounted on a single microelectric actuator.

Columns are not included.

Consult the factory for information about a **UHPLC column selector system**.

UNIVERSAL ACTUATOR

The new universal actuator operates virtually any Valco or Cheminert rotary valve – two position and selector alike – greatly simplifying the electronic aspect of instrument design. . . . 193

CAUTION

Metal fittings will damage the threads and details of C25Z, C25G, and C65Z series valves.

Use of metal fittings in these valves voids the warranty.

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PORT DIAMETERS

Model	Fitting size	Standard port diameter
High Pressure		
C5	1/16" ZDV	0.15 mm (.006")
		0.25 mm (.010")
		0.40 mm (.016")
		0.75 mm (.030")
Low Pressure		
C25Z	1/16" ZDV	0.75 mm (.030")
C25	1/4-28 for 1/16" tubing	0.75 mm (.030")
		1.50 mm (.060")
C25G	1/16" ZDV	0.67 mm (.026")
C45	1/2-20 for 1/4" tubing	4.6 mm (.180")
OEM – High Pressure		
C55	1/16" ZDV	0.25 mm (.010")
		0.40 mm (.016")
		0.75 mm (.030")
OEM – Low Pressure		
C65Z	1/16" ZDV	0.75 mm (.030")
C65	1/4-28 for 1/16" tubing	0.75 mm (.030")
		1.50 mm (.060")
		1.50 mm (.060")

SPECIFICATIONS

CHEMINERT SELECTORS

Model	Stator material	Std rotor material	Max pressure	Max temp	Number of positions
High Pressure					
C5	Metal	Valcon H	5000 psi liq	75°C	4, 6, 8, 10
	PAEK	Valcon E	5000 psi liq	50°C	4, 6, 8, 10
Low Pressure					
C25Z	PPS	Valcon E2	100 psi gas/ 250 psi liq	75°C	4, 6, 8, 10, 12, 14
C25	PPS	Valcon E2	100 psi gas/ 250 psi liq	75°C	4, 6, 8, 10
C25G	PEEK	Valcon M	100 psi liq	50°C	20, 24, 28
C45	PPS	Valcon TF	100 psi liq	50°C	4, 6, 8
OEM – High Pressure					
C55	Metal	Valcon H	5000 psi liq	50°C	4, 6, 8, 10
	PAEK	Valcon E	5000 psi liq	50°C	4, 6, 8, 10
OEM – Low Pressure					
C65Z	PPS	Valcon E2	100 psi gas/ 250 psi liq	50°C	4, 6, 8, 10
C65	PPS	Valcon E2	100 psi gas/ 250 psi liq	50°C	4, 6, 8, 10



Model C25Z
page 176

Low pressure

10-32 ZDV



Model C25
page 177

Low pressure

1/4-28 Internal



Model C25G
page 178

Low pressure

6-40 flat bottom



Model C45
page 179

Low pressure

1/2-20 Int.

Low pressure selectors

With Valco Zero Dead Volume Fittings

Model C25Z valves feature the popular 1/16" Valco ZDV details for 1/16" OD tubing. Available in 4, 6, 8, 10, 12, and 14 positions, with a variety of actuator options. Standard materials are PPS stator and Valcon E2 rotor, with other materials optional.

With Cheminert 1/4-28 Fittings

The **Model C25** has female 1/4-28 threaded fitting details for direct connection of lines – no couplings are required. The C25 is available in 4, 6, 8, and 10 position models. Multicolored Cheminert 1/16" or 1/8" flangeless fittings are included. Rotors are made of Valcon E2 with stators of PPS.

With 6-40 Fittings for 1/16" or 1/32" tubing

Model C25G valves feature 6-40 flat bottom details that can accommodate 1/16" (standard) or 1/32" (optional) tubing. The fitting is one piece PEEK with a stainless steel retainer. available with 20, 24, or 28 positions. Universal actuator is required.

With Cheminert 1/2-20 Fittings

Model C45 valves feature 1/2-20 threaded fitting details for use with 1/4" OD tubing. This is a tapered rotor valve with large bore for high flow applications. Rotors are made from Valcon E2, with valve body made from PPS. Available in 4 and 6 position configurations only.

For OEMs

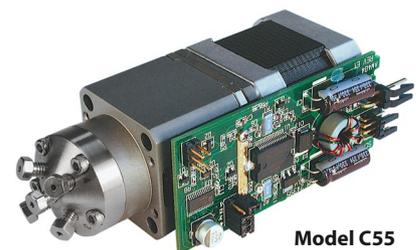
Integrated Motor/Stream Selectors

Cheminert's new **Model C55** (HPLC) and **Model C65(Z)** (low pressure) stream selectors are integrated motor/valve assemblies designed specifically to be built into an OEM system. The compact, lightweight package is available in 4, 6, 8, and 10 position configurations.

Using the well-proven Cheminert stream selector design and the 24 volt motor from our microelectric actuators, the Models C55, C65, and C65Z need only to be connected to an instrument's power supply. A single momentary contact closure steps the valve to the next position; a separate contact closure moves the valve to position 1 (Home).

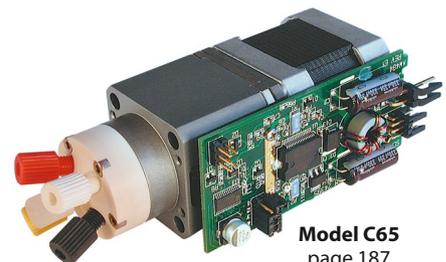
See how our stream selectors can simplify your instrument design and minimize time to market – all while trimming your costs.

Serial communication via RS-232 is optional.



Model C55
page 186

5,000 psi



Model C65
page 187

Low pressure

OEM INJECTORS

See pages 151, 180-185 for injectors for OEMs.

CHEMINERT VALVES

20,000 psi UHPLC Nanovolume® valves
360 micron fittings, 100 micron bore (.004")

Model C72MU

20,000 psi

Nanobore

360 µm **100 µm**

Includes stainless 360 micron fittings.
 Valves for use with fused silica tubing have gold-plated ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



4 Port
Prod No



6 Port
Prod No

Coated stainless stator for use with stainless tubing

Manual	C72MU-4674	C72MU-4676
With air actuator	C72MU-4674A	C72MU-4676A
With microelectric actuator	C72MU-4674EH	C72MU-4676EH
Replacement valve	C72MU-4674D	C72MU-4676D
Replacement rotor	C72M-46R4	C72M-46R6
Replacement stator	C72M-4C74	C72M-4C76

For use with fused silica tubing

Manual	C72MFSU-4674	C72MFSU-4676
With air actuator	C72MFSU-4674A	C72MFSU-4676A
With microelectric actuator	C72MFSU-4674EH	C72MFSU-4676EH
Replacement valve	C72MFSU-4674D	C72MFSU-4676D
Replacement rotor	C72M-46R4	C72M-46R6
Replacement stator	C72M-4C74	C72M-4C76

SPECS

20,000 psi liq
50°C max
 Stainless w/ inert coating stator
 Valcon E3 rotor

OPTIONS

- 150 micron (.006") bore
- Internal sample injector (4 - 20 nl)
- 10,000 and 15,000 psi versions available



Model C72MU
360 micron fittings
 (Model C72MX is similar)

15,000 psi UHPLC Nanovolume® valves
360 micron fittings, 150 micron bore (.006")

Model C72MX

15,000 psi

Nanobore

360 µm **150 µm**

Includes stainless 360 micron fittings.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



6 Port
Prod No



10 Port
Prod No

Coated stainless stator

Manual	C72MX-6676	C72MX-6670
With air actuator	C72MX-6676A	C72MX-6670A
With microelectric actuator	C72MX-6676EH	C72MX-6670EH
Replacement valve	C72MX-6676D	C72MX-6670D
Replacement rotor	C72M-66R6	C72M-66R0
Replacement stator	C72M-6C76	C72M-6C70

SPECS

15,000 psi liq
50°C max
 Stainless w/ inert coating stator
 Valcon E3 rotor

OPTIONS

- 100 micron (.004") bore
- Internal sample injector (4 - 20 nl)
- 10,000 psi version available
- 4 and 8 port versions available

MORE INFORMATION

360 micron Nanovolume® fittings page 58

15,000 psi UHPLC Nanovolume® valves
1/32" Valco stainless fittings, 150 micron bore (.006")

Model C72NX

SPECS

15,000 psi liq
 50°C max
 Stainless w/ inert coating stator
 Valcon E3 rotor

OPTIONS

- 100 micron (.004") bore
- 250 micron (.010") bore
- 10,000 psi version available
- 4 and 8 port versions available

Includes stainless nuts and ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 * The 6 port valve includes a 5 µl loop of the stator material.

15,000 psi

Nanobore

1/32"

150 µm



6 Port *
Prod No



10 Port
Prod No

Coated stainless stator

Manual
 With air actuator
 With microelectric actuator

 Replacement valve
 Replacement rotor
 Replacement stator

C72NX-6676
 C72NX-6676A
 C72NX-6676EH

 C72NX-6676D
 C72N-66R6
 C72N-6C76

C72NX-6670
 C72NX-6670A
 C72NX-6670ED

 C72NX-6670D
 C72N-66R0
 C72N-6C70



Model C72NX
1/32" Valco stainless fittings

Sample loops for C72NX valves

Each stainless loop includes two stainless 1/32" Valco fittings.

Volume	Stainless Prod No
1 µl	CSLN1K
2 µl	CSLN2K
5 µl	CSLN5K
10 µl	CSLN10K



Model C74NX
1/32" Valco stainless fittings

15,000 psi UHPLC Nanovolume® internal sample injectors
1/32" Valco stainless fittings, 150 micron bore (.006")

Model C74NX

SPECS

15,000 psi liq
 50°C max
 Stainless w/ inert coating stator
 Valcon E3 rotor

OPTIONS

- 100 micron (.004") bore
- 250 micron (.010") bore
- 10,000 and 20,000 psi versions available

Includes stainless nuts and ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



15,000 psi

Nanobore

Internal sample

1/32"

150 µm

10 nanoliters
Prod No

20 nanoliters
Prod No

30 nanoliters
Prod No

Coated stainless stator

Manual
 With air actuator
 With microelectric actuator

 Replacement valve
 Replacement rotor
 Replacement stator

C74NX-6674-.01
 C74NX-6674-.01A
 C74NX-6674-.01EH

 C74NX-6674-.01D
 C74N-66R-.01
 C74N-6C7

C74NX-6674-.02
 C74NX-6674-.02A
 C74NX-6674-.02EH

 C74NX-6674-.02D
 C74N-66R-.02
 C74N-6C7

C74NX-6674-.03
 C74NX-6674-.03A
 C74NX-6674-.03EH

 C74NX-6674-.03D
 C74N-66R-.03
 C74N-6C7

MORE INFORMATION

1/32" Valco fittingspages 10,12
 1/16" Nanovolume® injectors
 C72X vici.com
 C74X vici.com

CHEMINERT VALVES

**15,000 psi UHPLC microbore valves,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C72X

15,000 psi
Microbore
1/16" 0.25 mm

Includes stainless steel nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
* The 6 port valve includes a 5 µl stainless steel sample loop.

SPECS

15,000 psi liq
50°C max
Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

■ 0.15 mm ports (.006")



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

Manual	C72X-1674	C72X-1676	C72X-1678	C72X-1670
With air actuator	C72X-1674A	C72X-1676A	C72X-1678A	C72X-1670A
With microelectric actuator	C72X-1674EH	C72X-1676EH	C72X-1678ED	C72X-1670ED
Replacement valve	C72X-1674D	C72X-1676D	C72X-1678D	C72X-1670D
Replacement rotor	C72-16R4	C72-16R6	C72-16R8	C72-16R0
Replacement stator	C72-1C74	C72-1C76	C72-1C78	C72-1C70

**10,000 psi UHPLC microbore valves,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C72H

10,000 psi
Microbore
1/16" 0.25 mm

Includes stainless steel nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
* The 6 port valve includes a 5 µl stainless steel sample loop.

SPECS

10,000 psi liq
50°C max
Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

■ 0.15 mm ports (.006")



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

Manual	C72H-1674	C72H-1676	C72H-1678	C72H-1670
With air actuator	C72H-1674A	C72H-1676A	C72H-1678A	C72H-1670A
With microelectric actuator	C72H-1674EH	C72H-1676EH	C72H-1678ED	C72H-1670ED
Replacement valve	C72H-1674D	C72H-1676D	C72H-1678D	C72H-1670D
Replacement rotor	C72-16R4	C72-16R6	C72-16R8	C72-16R0
Replacement stator	C72-1C74	C72-1C76	C72-1C78	C72-1C70



Model C72H
(C72X similar)
1/16" ZDV fittings

Stainless steel sample loops *for C72X and C72H valves*

Each loop includes two stainless steel nuts and ferrules.
Metal loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.

Volume	Prod No	Volume	Prod No	Volume	Prod No
2 µl	CSL2	50 µl	CSL50	1 ml	CSL1K
5 µl	CSL5	100 µl	CSL100	2 ml	CSL2K
10 µl	CSL10	250 µl	CSL250	5 ml	CSL5K
20 µl	CSL20	500 µl	CSL500	10 ml	CSL10K



ABOUT LOOPS

■ Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

15,000 psi UHPLC microbore internal sample injectors, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C74X

SPECS

15,000 psi liq
50°C max

Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

■ 0.15 mm ports (.006")

Includes stainless steel nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



15,000 psi

Microbore

Internal sample

1/16"

0.25 mm

Sample volume	20 nanoliters <i>Prod No</i>	50 nanoliters <i>Prod No</i>	100 nanoliters <i>Prod No</i>
Manual	C74X-1674-.02	C74X-1674-.05	C74X-1674-.1
With air actuator	C74X-1674-.02A	C74X-1674-.05A	C74X-1674-.1A
With microelectric actuator	C74X-1674-.02EH	C74X-1674-.05EH	C74X-1674-.1EH
Replacement valve	C74X-1674-.02D	C74X-1674-.05D	C74X-1674-.1D
Replacement rotor	C74-16R-.02	C74-16R-.05	C74-16R-.1
Replacement stator	C74-1C7	C74-1C7	C74-1C7

10,000 psi UHPLC microbore internal sample injectors, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C74H

SPECS

10,000 psi liq
50°C max

Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

■ 0.15 mm ports (.006")

Includes stainless steel nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



10,000 psi

Microbore

Internal sample

1/16"

0.25 mm

Sample volume	20 nanoliters <i>Prod No</i>	50 nanoliters <i>Prod No</i>	100 nanoliters <i>Prod No</i>
Manual	C74H-1674-.02	C74H-1674-.05	C74H-1674-.1
With air actuator	C74H-1674-.02A	C74H-1674-.05A	C74H-1674-.1A
With microelectric actuator	C74H-1674-.02EH	C74H-1674-.05EH	C74H-1674-.1EH
Replacement valve	C74H-1674-.02D	C74H-1674-.05D	C74H-1674-.1D
Replacement rotor	C74-16R-.02	C74-16R-.05	C74-16R-.1
Replacement stator	C74-1C7	C74-1C7	C74-1C7



Model C74H
(C74X similar)
1/16" ZDV fittings

MORE INFORMATION

Actuators

Air page 197
Microelectric 190
Universal 193

Materials

Metals..... 254-255
Polymers 256
Valve rotors..... 257

Standoff

assemblies 205

CHEMINERT VALVES

**5,000 psi Nanovolume® valves,
1/32" fittings, 100 micron ports (.004")**

Model C2N

5,000 psi

Nanobore

1/32" **100 µm**

Includes nuts and ferrules.
 Valves with stainless stators have stainless fittings.
 Valves with PEEK stators have PEEK fittings.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 * The 6 port valve includes a 250 nI PEEK loop.

SPECS
5000 psi liq
75°C max
 Metal stator
 Valcon H rotor

5000 psi liq
50°C max
 PEEK stator
 Valcon E rotor

OPTIONS
 ■ 150 micron (.006")
 and 250 micron (.010")
 bores



6 Port*
Prod No



10 Port
Prod No

N60 stainless stator

Manual	C2N-4006	C2N-4000
With microelectric actuator	C2N-4006EH	C2N-4000EH
Replacement valve	C2N-4006D	C2N-4000D
Replacement rotor	C2N-40R6	C2N-40R0
Replacement stator	C2N-4C06	C2N-4C00

PEEK stator

Manual	C2N-4346	C2N-4340
With microelectric actuator	C2N-4346EH	C2N-4340EH
Replacement valve	C2N-4346D	C2N-4340D
Replacement rotor	C2N-43R6	C2N-43R0
Replacement stator	C2N-4C46	C2N-4C40



Model C2N
1/32" ZDV fittings

Sample loops *for C2N valves*

Each stainless loop includes two stainless steel nuts and ferrules.
 Each PEEK loop includes two PEEK nuts and ferrules.

Volume	Stainless steel		PEEK	
	Prod No	Prod No	Prod No	Prod No
1 µl	CSLN1K	CSLN1KPK		
2 µl	CSLN2K	CSLN2KPK		
5 µl	CSLN5K	CSLN5KPK		
10 µl	CSLN10K	CSLN10KPK		



ABOUT LOOPS
 ■ Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

**5,000 psi Nanovolume® internal sample injector,
1/32" fittings, 100 micron ports (.004")**

Model C4N

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

■ 150 micron (.006") bore

Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



5,000 psi

Nanobore

Internal sample

1/32"

100 µm

Sample volume	4 nanoliters <i>Prod No</i>	10 nanoliters <i>Prod No</i>	20 nanoliters <i>Prod No</i>
N60 stainless stator			
Manual	C4N-4004-.004	C4N-4004-.01	C4N-4004-.02
With microelectric actuator	C4N-4004-.004EH	C4N-4004-.01EH	C4N-4004-.02EH
Replacement valve	C4N-4004-.004D	C4N-4004-.01D	C4N-4004-.02D
Replacement rotor	C4N-40R-.004	C4N-40R-.01	C4N-40R-.02
Replacement stator	C4N-4C0	C4N-4C0	C4N-4C0
PAEK stator			
Manual	C4N-4344-.004	C4N-4344-.01	C4N-4344-.02
With microelectric actuator	C4N-4344-.004EH	C4N-4344-.01EH	C4N-4344-.02EH
Replacement valve	C4N-4344-.004D	C4N-4344-.01D	C4N-4344-.02D
Replacement rotor	C4N-43R-.004	C4N-43R-.01	C4N-43R-.02
Replacement stator	C4N-4C4	C4N-4C4	C4N-4C4



Model C4N
1/32" ZDV fittings

CHEMINERT VALVES

**Microbore valves,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C2

5,000 psi

Microbore

1/16" 0.25 mm

Includes nuts and ferrules.
 Valves with metal stators have stainless steel nuts and ferrules of the stator material.
 Valves with PEEK stators have PEEK nuts and ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 * The 6 port valve includes a 5 µl loop of the stator material.



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

N60 stainless stator

Manual	C2-1004	C2-1006	C2H-1008	C2H-1000
With air actuator	C2-1004A	C2-1006A	C2H-1008A	C2H-1000A
With microelectric actuator	C2-1004EH	C2-1006EH	C2H-1008EH	C2H-1000EH
Replacement valve	C2-1004D	C2-1006D	C2H-1008D	C2H-1000D
Replacement rotor	C2-10R4	C2-10R6	C2-10R8H	C2-10R0H
Replacement stator	C-1C04	C-1C06	C-1C08H	C-1C00H

PAEK stator

Manual	C2-1344	C2-1346	C2H-1348	C2H-1340
With air actuator	C2-1344A	C2-1346A	C2H-1348A	C2H-1340A
With microelectric actuator	C2-1344EH	C2-1346EH	C2H-1348EH	C2H-1340EH
Replacement valve	C2-1344D	C2-1346D	C2H-1348D	C2H-1340D
Replacement rotor	C2-13R4	C2-13R6	C2-13R8H	C2-13R0H
Replacement stator	C-1C44	C-1C46	C-1C48H	C-1C40H

Titanium stator

Manual	C2-1034	C2-1036	C2H-1038	C2H-1030
With air actuator	C2-1034A	C2-1036A	C2H-1038A	C2H-1030A
With microelectric actuator	C2-1034EH	C2-1036EH	C2H-1038EH	C2H-1030EH
Replacement valve	C2-1034D	C2-1036D	C2H-1038D	C2H-1030D
Replacement rotor	C2-10R4	C2-10R6	C2-10R8H	C2-10R0H
Replacement stator	C-1C34	C-1C36	C-1C38H	C-1C30H



Model C2
1/16" ZDV fittings

SPECS

5000 psi liq
75°C max
 Metal stator
 Valcon H rotor

5000 psi liq
50°C max
 PEEK stator
 Valcon E rotor

OPTIONS

- Continuous flow version is available as Model C6. See page 162.
- Hastelloy C stators
- Loop fill port assembly for injection from front of the valve. See page 41.
- 0.15 mm (0.006") bore

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.



Order loops from page 161.

MORE INFORMATION

Actuators

- Air page 197
- Microelectric 190
- Universal 193

Materials

- Metals..... 254-255
- Polymers 256
- Valve rotors..... 257

Nuts

- Metal..... 10
- PEEK 63

Ferrules

- Metal..... 12
- PEEK 63

Standoff assemblies 205

Nanoliter sample injector, 1/16" Valco fittings, 0.15 mm ports (.006")

Model C4

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- 100, 200, and 500 nl sample volumes are also available in 0.25 mm bore.
See page 164.
- Loop fill port assembly for injection from front of the valve.
See page 41.
- 0.25 mm (0.010") bore

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.

Includes nuts and ferrules.

Valves with stainless stators have stainless fittings.

Valves with PAEK stators have PEEK fittings.

Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



5,000 psi

Microbore

Internal sample

1/16" 0.15 mm

Sample volume	10 nanoliters <i>Prod No</i>	20 nanoliters <i>Prod No</i>	50 nanoliters <i>Prod No</i>
N60 stainless stator			
Manual	C4-0004-.01	C4-0004-.02	C4-0004-.05
With air actuator	C4-0004-.01A	C4-0004-.02A	C4-0004-.05A
With microelectric actuator	C4-0004-.01EH	C4-0004-.02EH	C4-0004-.05EH
Replacement valve	C4-0004-.01D	C4-0004-.02D	C4-0004-.05D
Replacement rotor	C4-00R-.01	C4-00R-.02	C4-00R-.05
Replacement stator	C4-0C0	C4-0C0	C4-0C0
PAEK stator			
Manual	C4-0344-.01	C4-0344-.02	C4-0344-.05
With air actuator	C4-0344-.01A	C4-0344-.02A	C4-0344-.05A
With microelectric actuator	C4-0344-.01EH	C4-0344-.02EH	C4-0344-.05EH
Replacement valve	C4-0344-.01D	C4-0344-.02D	C4-0344-.05D
Replacement rotor	C4-03R-.01	C4-03R-.02	C4-03R-.05
Replacement stator	C4-0C4	C4-0C4	C4-0C4



Model C4
1/16" ZDV fittings

ABOUT LOOPS

- Other materials are available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, and PTFE.
See pages 254-255.
- Metal loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.
- Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

Sample loops *for C1, C2, C2V, C3, and C6 valves*

Each metal loop includes two stainless steel nuts and ferrules.

Each PEEK loop includes two PEEK nuts and ferrules.

Volume	Stainless Steel	PEEK (for PAEK stators)	Titanium
	<i>Prod No</i>	<i>Prod No</i>	<i>Prod No</i>
2 µl	CSL2	CZSL2PK	—
5 µl	CSL5	CZSL5PK	—
10 µl	CSL10	CZSL10PK	CSL10TI
20 µl	CSL20	CZSL20PK	CSL20TI
50 µl	CSL50	CZSL50PK	CSL50TI
100 µl	CSL100	CZSL100PK	CSL100TI
250 µl	CSL250	CZSL250PK	CSL250TI
500 µl	CSL500	CZSL500PK	CSL500TI
1 ml	CSL1K	CZSL1KPK	CSL1KTI
2 ml	CSL2K	CZSL2KPK	—
5 ml	CSL5K	CZSL5KPK	—
10 ml	CSL10K	—	—



CHEMINERT VALVES

Microbore continuous flow through-the-handle injector, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C1CFI

- 5,000 psi
- Microbore
- Continuous flow
- Through-handle
- 1/16"
- 0.25 mm



Available only in manual version.
Position feedback included.
Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 5 µl loop of the stator material.

6 port injector
Replacement rotor
Replacement stator

N60 stainless stator
Prod No
C1CFI-1006
C1-10R6
C1CF-1C06

PAEK stator
Prod No
C1CFI-1346
C1-13R6
C1CF-1C46

Replacement injector fitting for 22 gauge x 2" long needle

C-261 



Model C1CFI
1/16" ZDV fittings

SPECS
5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS
■ 0.40 mm bore (.016") on page 165.

MORE INFORMATION
Syringes..... page 250

NOTE
Cheminert high pressure valves with polymeric stators have a longer pilot depth.

Microbore continuous flow injector, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C6

- 5,000 psi
- Microbore
- Continuous flow
- 1/16"
- 0.25 mm

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
Includes one 5 µl loop of the stator material.

Manual
With pneumatic actuator

N60 stainless stator
Prod No
C6-1006
C6-1006A

PAEK stator
Prod No
C6-1346
C6-1346A

With standard electric actuator
With microelectric actuator

C6-1006E
C6-1006EH

C6-1346E
C6-1346EH

Replacement valve
Replacement rotor
Replacement stator

C6-1006D
C2-10R6
C6-1C06

C6-1346D
C2-13R6
C6-1C46



Model C6
1/16" ZDV fittings

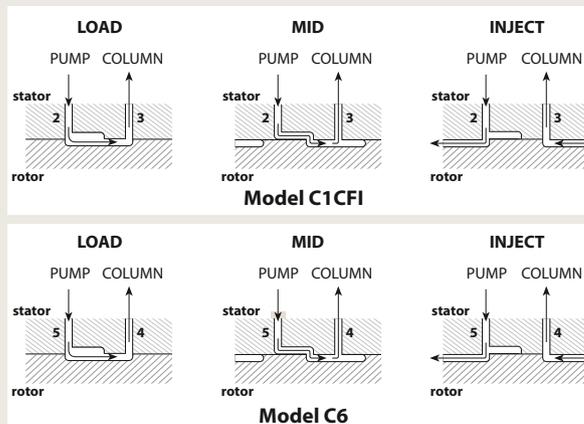
SPECS
5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

Order loops from page 161.

CONTINUOUS FLOWPATHS

An engraving on the stator maintains pump flow between the pump connection port and the column connection port during most of the switching cycle, virtually eliminating pressure spikes.



**Analytical valves,
1/16" Valco fittings, 0.40 mm ports (.016")**

Model C2

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- Continuous flow version is available as Model C6. See page 162.
- Hastelloy C stators
- Semi-prep version with 0.75 mm ports (.030") available
- Loop fill port assembly for injection from front of the valve. See page 41.

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.



Order loops from page 161.

Includes nuts and ferrules.
Valves with metal stators have stainless steel nuts and ferrules of the stator material.
Valves with PAEK stators have PEEK nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
*The 6 port valve includes a 20 µl loop of the stator material.

5,000 psi
Analytical
1/16" 0.40 mm



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

N60 stainless stator

Manual	C2-2004	C2-2006	C2H-2008	C2H-2000
With air actuator	C2-2004A	C2-2006A	C2H-2008A	C2H-2000A
With microelectric actuator	C2-2004EH	C2-2006EH	C2H-2008EH	C2H-2000EH

Replacement valve	C2-2004D	C2-2006D	C2H-2008D	C2H-2000D
Replacement rotor	C2-20R4	C2-20R6	C2-20R8H	C2-20R0H
Replacement stator	C-2C04	C-2C06	C-2C08H	C-2C00H

PAEK stator

Manual	C2-2344	C2-2346	C2H-2348	C2H-2340
With air actuator	C2-2344A	C2-2346A	C2H-2348A	C2H-2340A
With microelectric actuator	C2-2344EH	C2-2346EH	C2H-2348EH	C2H-2340EH

Replacement valve	C2-2344D	C2-2346D	C2H-2348D	C2H-2340D
Replacement rotor	C2-23R4	C2-23R6	C2-23R8H	C2-23R0H
Replacement stator	C-2C44	C-2C46	C-2C48H	C-2C40H

Titanium stator

Manual	C2-2034	C2-2036	C2H-2038	C2H-2030
With air actuator	C2-2034A	C2-2036A	C2H-2038A	C2H-2030A
With microelectric actuator	C2-2034EH	C2-2036EH	C2H-2038EH	C2H-2030EH

Replacement valve	C2-2034D	C2-2036D	C2H-2038D	C2H-2030D
Replacement rotor	C2-20R4	C2-20R6	C2-20R8H	C2-20R0H
Replacement stator	C-2C34	C-2C36	C-2C38H	C-2C30H



Model C2
1/16" ZDV fittings

OPTIONAL FLOWPATH

Model C2 6 port valves can also be ordered with a dual 3-way rotor, as described in EPA Method 555.

To specify this flowpath, substitute "6X" for "6" in the valve or rotor product number.



AUTOSAMPLER REPLACEMENT VALVES

The Cheminert Model C2 6 port valve is an excellent replacement for the valve originally supplied in many autosamplers, including autosamplers manufactured by Beckman, Gilson, Spark-Holland, CTC, Thermo Fisher, and Varian.

Call technical support to determine which replacement is best for your application.

CHEMINERT VALVES

**Analytical internal sample injector,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C4

- 5,000 psi
- Analytical
- Internal sample
- 1/16" 0.25 mm



Includes nuts and ferrules.
 Valves with metal stators have stainless steel nuts and ferrules of the stator material.
 Valves with PEEK stators have PEEK nuts and ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

SPECS
5000 psi liq
75°C max
 Metal stator
 Valcon H rotor
5000 psi liq
50°C max
 PEEK stator
 Valcon E rotor

Sample volume	0.1 µl <i>Prod No</i>	0.2 µl <i>Prod Noe</i>	0.5 µl <i>Prod No</i>
N60 stainless stator			
Manual	C4-1004-.1	C4-1004-.2	C4-1004-.5
With air actuator	C4-1004-.1A	C4-1004-.2A	C4-1004-.5A
With microelectric actuator	C4-1004-.1EH	C4-1004-.2EH	C4-1004-.5EH
Replacement valve	C4-1004-.1D	C4-1004-.2D	C4-1004-.5D
Replacement rotor	C4-10R-.1	C4-10R-.2	C4-10R-.5
Replacement stator	C4-1C0	C4-1C0	C4-1C0
PEAK stator			
Manual	C4-1344-.1	C4-1344-.2	C4-1344-.5
With air actuator	C4-1344-.1A	C4-1344-.2A	C4-1344-.5A
With microelectric actuator	C4-1344-.1EH	C4-1344-.2EH	C4-1344-.5EH
Replacement valve	C4-1344-.1D	C4-1344-.2D	C4-1344-.5D
Replacement rotor	C4-13R-.1	C4-13R-.2	C4-13R-.5
Replacement stator	C4-1C4	C4-1C4	C4-1C4
Titanium stator			
Manual	C4-1034-.1	C4-1034-.2	C4-1034-.5
With air actuator	C4-1034-.1A	C4-1034-.2A	C4-1034-.5A
With microelectric actuator	C4-1034-.1EH	C4-1034-.2EH	C4-1034-.5EH
Replacement valve	C4-1034-.1D	C4-1034-.2D	C4-1034-.5D
Replacement rotor	C4-10R-.1	C4-10R-.2	C4-10R-.5
Replacement stator	C4-1C3	C4-1C3	C4-1C3

- OPTIONS**
- .05 µl sample volumes are also available.
 - Loop fill port assembly for injection from front of the valve. See page 41.



Model C4
1/16" ZDV fittings

NOTE
 Cheminert high pressure valves with polymeric stators have a longer pilot depth.

MORE INFORMATION

Actuators

- Air page 197
- Microelectric 190
- Universal 193

Materials

- Metals..... 254-255
- Polymers 256
- Valve rotors..... 257

Standoff assemblies 205

Analytical continuous flow through-the-handle injector, 1/16" Valco fittings, 0.40 mm ports (.016")

Model C1CFI

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

■ 0.25 mm bore (.010") on page 162.

MORE INFORMATION

Syringes..... page 250

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.

Available only in manual version.
Position feedback included.
Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 20 µl loop of the stator material.

N60 stainless stator

Prod No

6 port injector C1CFI-2006
Replacement rotor C1-20R6
Replacement stator C1CF-2C06

PAEK stator

Prod No

C1CFI-2346
C1-23R6
C1CF-2C46

Replacement injector fitting C-261
for 22 gauge x 2" long needle



5,000 psi

Analytical

Continuous flow

Through-the-handle

1/16" 0.40 mm



Model C1CFI
1/16" ZDV fittings

Analytical continuous flow injector, 1/16" Valco fittings, 0.40 mm ports (.016")

Model C6

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

Order loops from page 161.

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
Includes a 20 µl loop of the stator material.

N60 stainless stator

Prod No

Manual C6-2006
With pneumatic actuator C6-2006A
With microelectric actuator C6-2006EH

PAEK stator

Prod No

C6-2346
C6-2346A
C6-2346EH

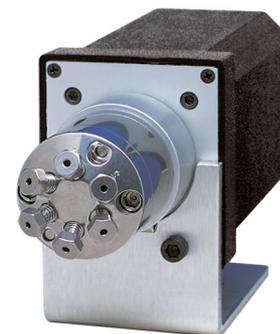
Replacement valve C6-2006D
Replacement rotor C2-20R6
Replacement stator C6-2C06

5,000 psi

Analytical

Continuous flow

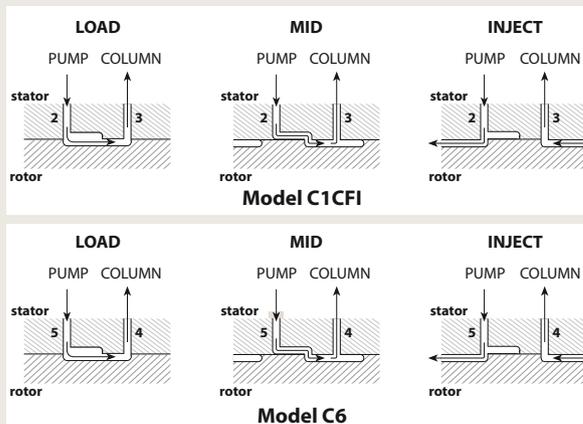
1/16"



Model C6
1/16" ZDV fittings

CONTINUOUS FLOWPATHS

An engraving on the stator maintains pump flow between the pump connection port and the column connection port during most of the switching cycle, virtually eliminating pressure spikes.



CHEMINERT VALVES

Valves with 1/16" Valco ZDV fittings, 0.75 mm ports (.030")

Model C22Z

Low pressure
10-32 ZDV
1/16" 0.75 mm

Includes Valco ZDV PEEK nuts and ferrules.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 Sample loops are not included with valves. Order separately.



4 Port
Prod No



6 Port
Prod No

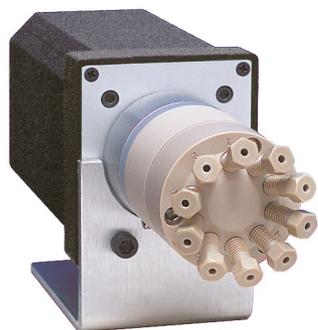


8 Port
Prod No



10 Port
Prod No

Manual	C22Z-3184	C22Z-3186	C22Z-3188	C22Z-3180
With air actuator	C22Z-3184A	C22Z-3186A	C22Z-3188A	C22Z-3180A
With microelectric actuator	C22Z-3184EH	C22Z-3186EH	C22Z-3188EH	C22Z-3180EH
Replacement valve	C22Z-3184D	C22Z-3186D	C22Z-3188D	C22Z-3180D
Replacement rotor	C12-314	C12-316	C12-318	C12-310
Replacement stator	C22Z-384	C22Z-386	C22Z-388	C22Z-380



Model C22Z
1/16" ZDV fittings

SPECS

100 psi gas/ 250 psi liq
75°C max
 PPS stator
 Valcon E2 rotor

OPTIONS

- 12 and 14 port versions available.
- Purge option
- Other polymeric rotors and stators are available.

PURGE OPTION

The purge option permits a flow of liquid or gas to flush the valve interior of potentially toxic or corrosive components. We recommend this option for applications using materials (such as salt solutions) that could damage the metal parts of the valve.

Consult our technical staff for details.

Sample loops

for Model C22Z



Loops include PEEK nuts and ferrules. Loops smaller than 500 µl are made from 1/16" OD tubing; loops 500 µl or bigger are made from 1/8" OD tubing with polymeric unions and 1/16" ends.

	FEP	PTFE	PEEK
Volume	Prod No	Prod No	Prod No
5 µl	CZSL5FEP	CZSL5TF	CZSL5PK
10 µl	CZSL10FEP	CZSL10TF	CZSL10PK
20 µl	CZSL20FEP	CZSL20TF	CZSL20PK
50 µl	CZSL50FEP	CZSL50TF	CZSL50PK
100 µl	CZSL100FEP	CZSL100TF	CZSL100PK
250 µl	CZSL250FEP	CZSL250TF	CZSL250PK
500 µl	CZSL500FEP	CZSL500TF	CZSL500PK
1 ml	CZSL1KFEP	CZSL1KTF	CZSL1KPK
2 ml	CZSL2KFEP	CZSL2KTF	CZSL2KPK

ABOUT LOOPS

- Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

MORE INFORMATION

Actuators
 Air page 197
 Microelectric 190
 Universal 193
 Materials
 Metals 254-255
 Polymers 256
 Valve rotors 257
 Standoff assemblies 205

Valves with 1/4-28 fitting details for 1/16" tubing, 0.75 mm ports (.030")

Model C22

SPECS

100 psi gas/ 250 psi liq
75°C max
 PPS stator
 Valcon E2 rotor

Includes multicolored Cheminert 1/4-28 flangeless fittings for 1/16" tubing.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 Sample loops are not included with valves. Order separately.

Low pressure

1/4-28 Internal

1/16" 0.75 mm



4 Port
Prod No



6 Port
Prod No



8 Port
Prod No



10 Port
Prod No

Manual	C22-3184	C22-3186	C22-3188	C22-3180
With air actuator	C22-3184A	C22-3186A	C22-3188A	C22-3180A
With microelectric actuator	C22-3184EH	C22-3186EH	C22-3188EH	C22-3180EH
Replacement valve	C22-3184D	C22-3186D	C22-3188D	C22-3180D
Replacement rotor	C22-314	C22-316	C22-318	C22-310
Replacement stator	C22-384	C22-386	C22-388	C22-380

Valves with 1/4-28 fitting details for 1/8" tubing, 1.50 mm ports (.060")

Model C22

SPECS

100 psi gas/ 250 psi liq
75°C max
 PPS stator
 Valcon E2 rotor

Includes multicolored Cheminert 1/4-28 flangeless fittings for 1/8" tubing.
 Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.
 Sample loops are not included with valves. Order separately.

Low pressure

1/4-28 Internal

1/8" 1.50 mm

4 Port
Prod No

6 Port
Prod No

8 Port
Prod No

10 Port
Prod No

Manual	C22-6184	C22-6186	C22-6188	C22-6180
With air actuator	C22-6184A	C22-6186A	C22-6188A	C22-6180A
With microelectric actuator	C22-6184EH	C22-6186EH	C22-6188EH	C22-6180EH
Replacement valve	C22-6184D	C22-6186D	C22-6188D	C22-6180D
Replacement rotor	C22-614	C22-616	C22-618	C22-610
Replacement stator	C22-684	C22-686	C22-688	C22-680

Sample loops

for Model C22

Loops include flangeless fittings with white color nuts. Loops smaller than 500 µl are made from 1/16" OD tubing; loops 500 µl or bigger are made from 1/8" OD tubing.

Volume	FEP Prod No	PTFE Prod No	PEEK Prod No
20 µl	CFSL20FEP	CFSL20TF	CFSL20PK
50 µl	CFSL50FEP	CFSL50TF	CFSL50PK
100 µl	CFSL100FEP	CFSL100TF	CFSL100PK
250 µl	CFSL250FEP	CFSL250TF	CFSL250PK
500 µl	CFSL500FEP	CFSL500TF	CFSL500PK
1 ml	CFSL1KFEP	CFSL1KTF	CFSL1KPK
2 ml	CFSL2KFEP	CFSL2KTF	CFSL2KPK



Model C22
1/4-28 fittings

ABOUT LOOPS

■ Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

Internal sample injectors, 1/16" Valco ZDV fittings, 0.40 mm ports (.016")

Model C24Z

- Low pressure
- Internal sample
- 10-32 ZDV
- 1/16" 0.40 mm

Includes Valco ZDV PEEK nuts and ferrules.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



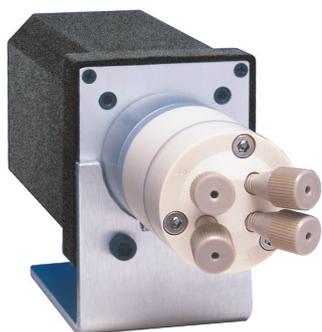
SPECS
100 psi gas/ 250 psi liq
75°C max
 PPS stator
 Valcon E2 rotor

- OPTIONS**
- 2.0 µl sample volumes are also available.
 - Purge option.
 - Other polymeric rotors and stators are available.

PURGE OPTION
 The purge option permits a flow of liquid or gas to flush the valve interior of potentially toxic or corrosive components. We recommend this option for applications using materials (such as salt solutions) that could damage the metal parts of the valve.

Consult our technical staff for details.

Sample volume	0.2 µl <i>Prod No</i>	0.5 µl <i>Prod No</i>	1 µl <i>Prod No</i>
Manual	C24Z-2184-2	C24Z-2184-5	C24Z-2184-1
With air actuator	C24Z-2184-2A	C24Z-2184-5A	C24Z-2184-1A
With microelectric actuator	C24Z-2184-2EH	C24Z-2184-5EH	C24Z-2184-1EH
Replacement valve	C24Z-2184-2D	C24Z-2184-5D	C24Z-2184-1D
Replacement rotor	C24-10R-2	C24-10R-5	C24-10R-1
Replacement stator	C24Z-1C8	C24Z-1C8	C24Z-1C8



Model C24Z
 1/16" ZDV fittings

MORE INFORMATION

Actuators
 Air page 197
 Microelectric 190
 Universal 193
 Materials
 Metals 254-255
 Polymers 256
 Valve rotors 257
 Standoff
 assemblies 205

Internal sample injectors, 1/4-28 for 1/16" tubing, 0.50 mm ports (.020")

Model C24

SPECS

100 psi gas/ 250 psi liq
75°C max
PPS stator
Valcon E2 rotor

OPTIONS

- 0.2 µl sample volumes are also available.
- Purge option
- Other polymeric rotors and stators are available. Consult the factory for prices and information.

Includes multicolored Cheminert 1/4-28 flangeless fittings for 1/16" tubing.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.



Low pressure
Internal sample
1/4-28 Internal
1/16" 0.50 mm

Sample volume	0.5 µl <i>Prod No</i>	1 µl <i>Prod No</i>	2 µl <i>Prod No</i>
Manual	C24-2184-.5	C24-2184-1	C24-2184-2
With air actuator	C24-2184-.5A	C24-2184-1A	C24-2184-2A
With microelectric actuator	C24-2184-.5EH	C24-2184-1EH	C24-2184-2EH
Replacement valve	C24-2184-.5D	C24-2184-1D	C24-2184-2D
Replacement rotor	C24-10R-.5	C24-10R-1	C24-10R-2
Replacement stator	C24-1C8	C24-1C8	C24-1C8



Model C24
1/4-28 fittings

CHEMINERT VALVES

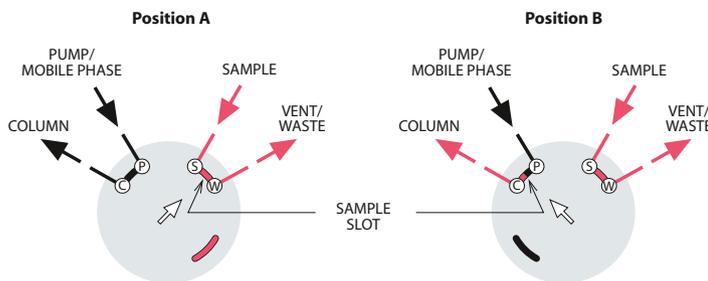
These illustrations show basic sample injection techniques using Cheminert two position valves. With rare exceptions, there is no difference between switching valves and external volume sampling valves, so the same valve can be used for either function.

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.

4 port internal sample injector

MICROVOLUME SAMPLE INJECTION

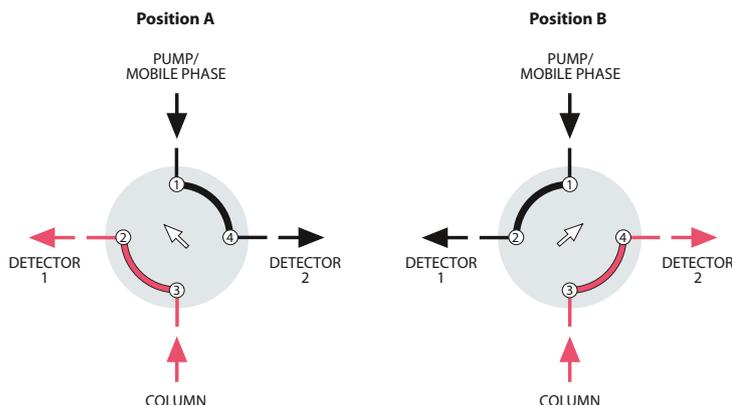
The internal sample (fixed volume) flowpath is used when very small sample volumes are required. The sample size is determined by a passage engraved on the valve rotor, allowing precise, repeatable injections. In Position A, the sample flows through the sample passage while the mobile phase flows through to the column. The third passage is inactive. In Position B, the sample passage is in line with the column and the mobile phase injects the contents of the sample passage into the column. The passage which was inactive in Position A allows the sample to continue flowing without interruption.



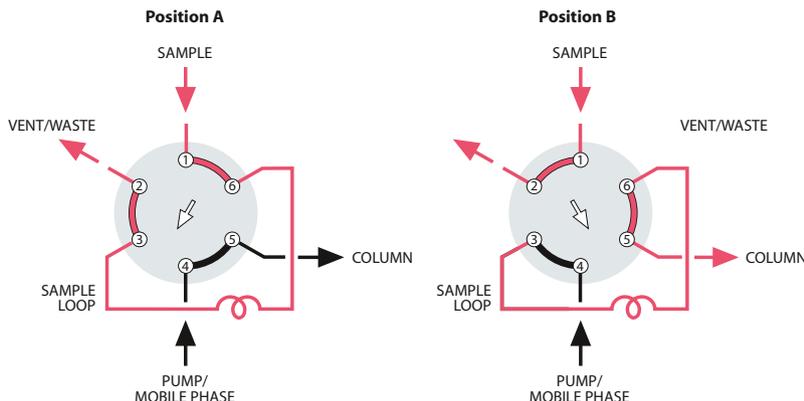
4 port switching valve

DETECTOR SELECTION FROM TWO COLUMNS OR ONE COLUMN AND AUXILIARY CARRIER

This unique configuration allows analyses of different parts of one analysis with two different detectors, without splitting or multiple injections.



6 port external sample injector



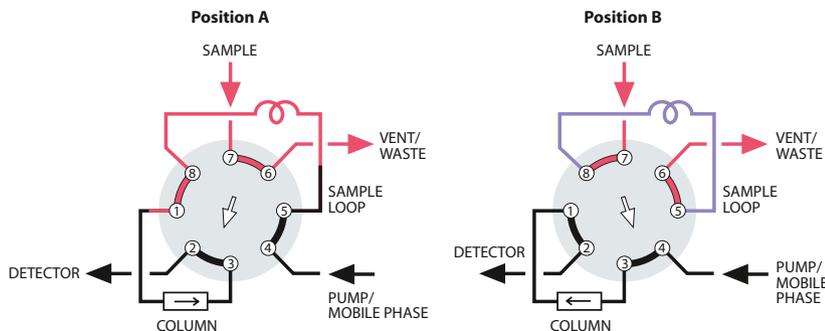
SAMPLE INJECTION

With the valve in Position A, sample flows through the external loop while the mobile phase flows directly through to the column. When the valve is switched to Position B, the sample contained in the sample loop and valve flow passage is displaced by the mobile phase and is carried into the column.

Note: Especially for partial-filled loops, the flow direction of the mobile phase through the loop should be opposite (backflush) to the flow direction during the loading of the loop.

More applicationspages 120-121

8 port sampling/switching

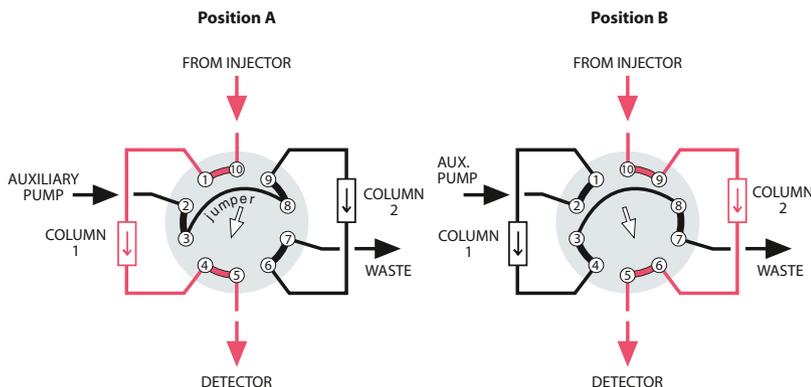


LOOP SAMPLING WITH BACKFLUSH TO DETECTOR

One valve performs the functions of sampling and backflush valves, simplifying operation and reducing cost. When components of interest are detected, the strongly retained components are backflushed and removed from the column without temperature programming.

More applications page 121

10 port sampling/switching



ALTERNATE COLUMN REGENERATION

When columns must be regenerated following each analysis, this technique permits automation of the process. While one column performs the analysis, the second column undergoes regeneration through use of an auxiliary pump. Once the first analysis is complete, the valve is switched and the regenerated column is ready for analytical use.

More applicationspages 122-123

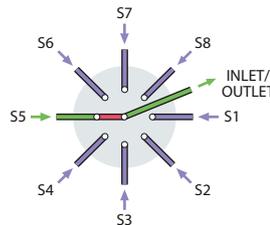
CHEMINERT VALVES

**15,000 psi UHPLC Nanovolume® selectors,
1/32" Valco fittings, 150 micron ports (.006")**

Model C75NX

- 15,000 psi**
- Nanobore**
- Stream selector**
- 1/32"**
150 µm

Includes Valco stainless steel fittings.
Manual version not available.
Microelectric actuator:
24 VDC, with 110/230 VAC to 24 VDC power supply.



SPECS

15,000 psi liq
50°C max
Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

- 100 micron (.004") bore
- 250 micron (.010") bore
- 10,000 and 20,000 psi versions available
- 4 positions

	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>
Coated stainless stator			
With air actuator	C75NX-6676A	C75NX-6678A	C75NX-6670A
With microelectric actuator	C75NX-6676EMH	C75NX-6678EMT	C75NX-6670EMT
Replacement valve	C75NX-6676D	C75NX-6678D	C75NX-6670D
Replacement rotor	C75N-66R6	C75N-66R8	C75N-66R0
Replacement stator	C75N-6C76	C75N-6C78	C75N-6C70



Model C75NX
1/32" Valco stainless fittings

**10,000 psi UHPLC microbore selectors,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C75H

SPECS

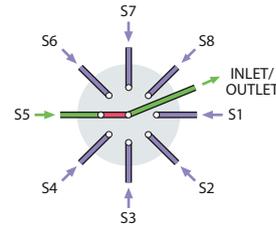
**10,000 psi liq
50°C max**

Stainless stator
with inert coating
Valcon E3 rotor

OPTIONS

- 150 micron (.006") bore
- 15,000 psi version available
- 4 positions

Includes Valco stainless steel fittings.
Manual version not available.
Microelectric actuator:
24 VDC, with 110/230 VAC to 24 VDC power supply.



10,000 psi	
Microbore	
Stream selector	
1/16"	0.25 mm

Coated stainless stator

With air actuator
With microelectric actuator

Replacement valve
Replacement rotor
Replacement stator

6 Position
Prod No

8 Position
Prod No

10 Position
Prod No

C75H-1676A
C75H-1676EMH

C75H-1676D
C75-16R6
C75-1C76

C75H-1678A
C75H-1678EMT

C75H-1678D
C75-16R8
C75-1C78

C75H-1670A
C75H-1670EMT

C75H-1670D
C75-16R0
C75-1C70



Model C75H
1/16" Valco stainless fittings

MORE INFORMATION

- Actuators
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Materials
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Polymers 256
Valve rotors..... 257
Standoff assemblies 205

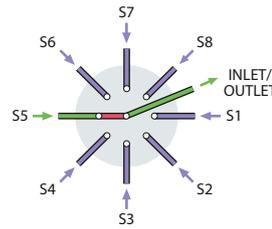
CHEMINERT VALVES

HPLC stream selector, 1/16" Valco ZDV fittings, 0.40 mm ports (.016")

Model C5

- 5,000 psi**
- Stream selector**
- 10-32 ZDV**
- 1/16"**
0.40 mm

Includes nuts and ferrules.
 Valves with metal stators have stainless steel nuts and ferrules of the stator material.
 Valves with PEEK stators have PEEK nuts and ferrules.
 Microelectric actuator:
 24 VDC, with 110/230 VAC to 24 VDC power supply.



SPECS

- 5000 psi liq**
- 75°C max**
- Metal stator
- Valcon H rotor
- 5000 psi liq**
- 50°C max**
- PAEK stator
- Valcon E rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- Hastelloy C stator
- Optional 0.15 mm (.006") and 0.25 mm (.010") bores available
- Optional 0.75 mm (.030") bore for Prep HPLC available

	4 Position <i>Prod No</i>	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>
N60 stainless stator				
Manual	C5-2004	C5-2006	C5H-2008	C5H-2000
With air actuator	C5-2004A	C5-2006A	C5H-2008A	C5H-2000A
With microelectric actuator	C5-2004EMH	C5-2006EMH	C5H-2008EMT	C5H-2000EMT
Replacement valve	C5-2004D	C5-2006D	C5H-2008D	C5H-2000D
Replacement rotor	C5-20R4	C5-20R6	C5-20R8H	C5-20R0H
Replacement stator	C5-2C04	C5-2C06	C5-2C08H	C5-2C00H
PAEK stator				
Manual	C5-2344	C5-2346	C5H-2348	C5H-2340
With air actuator	C5-2344A	C5-2346A	C5H-2348A	C5H-2340A
With microelectric actuator	C5-2344EMH	C5-2346EMH	C5H-2348EMT	C5H-2340EMT
Replacement valve	C5-2344D	C5-2346D	C5H-2348D	C5H-2340D
Replacement rotor	C5-23R4	C5-23R6	C5-23R8H	C5-23R0H
Replacement stator	C5-2C44	C5-2C46	C5-2C48H	C5-2C40H
Titanium stator				
Manual	C5-2034	C5-2036	C5H-2038	C5H-2030
With air actuator	C5-2034A	C5-2036A	C5H-2038A	C5H-2030A
With microelectric actuator	C5-2034EMH	C5-2036EMH	C5H-2038EMT	C5H-2030EMT
Replacement valve	C5-2034D	C5-2036D	C5H-2038D	C5H-2030D
Replacement rotor	C5-20R4	C5-20R6	C5-20R8H	C5-20R0H
Replacement stator	C5-2C34	C5-2C36	C5-2C38H	C5-2C30H

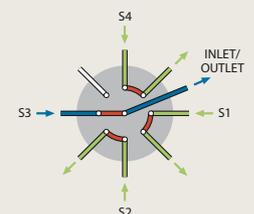


Model C5
6 positions
1/16" ZDV fittings

OPTIONAL FLOWPATH

Model C5F, the flow-through version, is similar to the C5 but its non-selected streams continue flowing through individual outlets. 3, 4, and 5 positions are available.

Consult the factory for C5F prices and information.



Model C5F
schematic diagram

MORE INFORMATION
 Manifolds page 33

HPLC column selector system with 1/16" Valco ZDV fittings, 0.40 mm ports (.016")

Model C5

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- Hastelloy C stator
- Optional 0.25 mm (.010") and 0.15 mm (.006") bores available
- Optional 0.75 mm (.030") bore for Prep HPLC available

The system comprises two stream selection valves mounted on a single modular universal actuator, which can be controlled manually, via remote logic level signal, or by RS-232 interface. (See plumbing diagram below.)

Includes nuts and ferrules.

Valves with stainless stators have stainless fittings.

Valves with PEEK stators have PEEK fittings.

Includes microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

5,000 psi

Column selector system

10-32 ZDV

1/16" 0.40 mm

N60 stainless stator

	6 Column Prod No	8 Column Prod No	10 Column Prod No
System	C5-2006EMTD	C5H-2008EMTD	C5H-2000EMTD
Replacement rotor	C5-20R6	C5-20R8H	C5-20R0H

PAEK stator

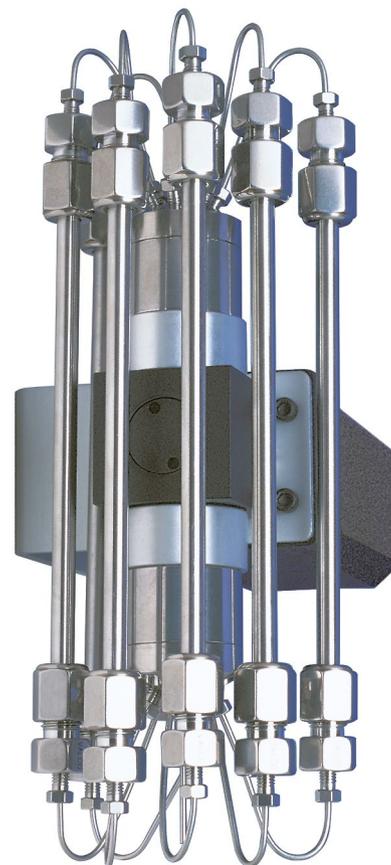
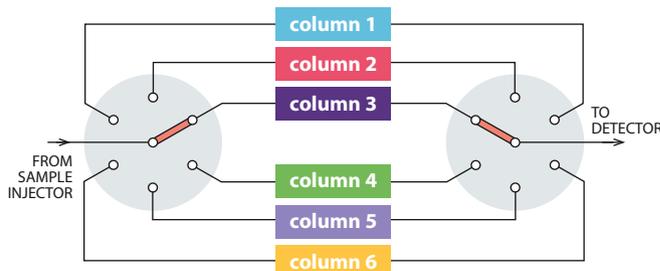
	6 Column Prod No	8 Column Prod No	10 Column Prod No
System	C5-2346EMTD	C5H-2348EMTD	C5H-2340EMTD
Replacement rotor	C5-23R6	C5-23R8H	C5-23R0H

Contact factory for replacement valves and stators, as valves for dual drive assemblies have mirror image stators.

RS-232 interface cable

Prod No

I-22697



Model C5 system

Columns not included

UHPLC COLUMN SELECTOR SYSTEMS

Consult the factory for more information on UHPLC systems.

ORDERING STATORS

Valves for dual drive assemblies have mirror image stators. Consult Technical Support for correct product number before ordering.

Both valves use the same rotor.

MORE INFORMATION

Actuators	
Air page 197
Microelectric192
Universal193
Materials	
Metals 254-255
Polymers256
Valve rotors257
Standoff assemblies205

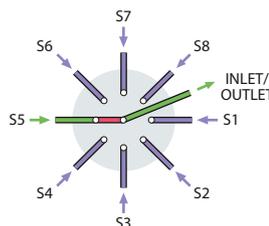
CHEMINERT VALVES

Stream selector, 1/16" Valco ZDV fittings, 0.75 mm ports (.030")

Model C25Z

- Low pressure
- Stream selector
- 10-32 ZDV
- 1/16"
- 0.75 mm

Includes Valco ZDV PEEK nuts and ferrules.
 Microelectric actuator:
 24 VDC, with 110/230 VAC to 24 VDC power supply.



SPECS
 100 psi gas/ 250 psi liq
 75°C max
 PPS stator
 Valcon E2 rotor

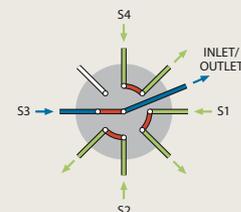
- OPTIONS**
- 4 and 12 positions available
 - 2", 3", 4", and 6" standoffs
 - Other polymeric materials are available. Consult the factory.

	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>	14 Position <i>Prod No</i>
Manual	C25Z-3186	C25Z-3188	C25Z-3180	C25Z-31814
With air actuator	C25Z-3186A	C25Z-3188A	C25Z-3180A	C25Z-31814A
With microelectric act.	C25Z-3186EMH	C25Z-3188EMH	C25Z-3180EMH	C25Z-31814EMH
Replacement valve	C25Z-3186D	C25Z-3188D	C25Z-3180D	C25Z-31814D
Replacement rotor	C15-310	C15-310	C15-310	C25Z-325
Replacement stator	C25Z-386	C25Z-388	C25Z-380	C25Z-38-14



OPTIONAL FLOWPATH
Model C25ZF, the flow-through version, is similar to the C25Z but its non-selected streams continue flowing through individual outlets, instead of being dead-ended. 3, 4, 5, 6, and 7 positions are available.

Consult the factory for C25ZF prices and information.



CHEMINERT VALVES

Stream selector, 1/4-28 fittings for 1/16" tubing, 0.75 mm ports (.030")

Model C25

SPECS

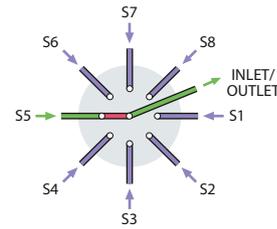
100 psi gas/ 250 psi liq
75°C max
PPS stator
Valcon E2 rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- CTFE stator

Includes multicolored Cheminert 1/4-28 flangeless fittings for 1/16" tubing.

Microelectric actuator:
24 VDC, with 110/230 VAC to 24 VDC power supply.



Low pressure
Stream selector
1/4-28 Internal
1/16" 0.75 mm

	4 Position <i>Prod No</i>	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>
Manual	C25-3184	C25-3186	C25-3188	C25-3180
With air actuator	C25-3184A	C25-3186A	C25-3188A0	C25-3180A
With microelectric act.	C25-3184EMH	C25-3186EMH	C25-3188EMH	C25-3180EMH
Replacement valve	C25-3184D	C25-3186D	C25-3188D	C25-3180D
Replacement rotor	C25-314	C25-316	C15-310	C25-310
Replacement stator	C25-384	C25-386	C25-388	C25-380

Stream selector, 1/4-28 fittings for 1/8" tubing, 1.50 mm ports (.060")

Model C25

SPECS

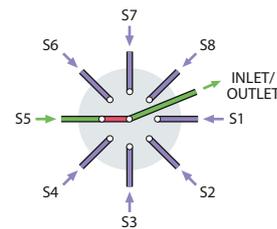
100 psi gas/ 250 psi liq
75°C max
PPS stator
Valcon E2 rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- CTFE stator

Includes multicolored Cheminert 1/4-28 flangeless fittings for 1/8" tubing.

Microelectric actuator:
24 VDC, with 110/230 VAC to 24 VDC power supply.



Low pressure
Stream selector
1/4-28 Internal
1/8" 1.50 mm

	4 Position <i>Prod No</i>	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>
Manual	C25-6184	C25-6186	C25-6188	C25-6180
With air actuator	C25-6184A	C25-6186A	C25-6188A	C25-6180A
With microelectric act.	C25-6184EMH	C25-6186EMH	C25-6188EMH	C25-6180EMH
Replacement valve	C25-6184D	C25-6186D	C25-6188D	C25-6180D
Replacement rotor	C25-614	C25-616	C25-618	C25-610
Replacement stator	C25-684	C25-686	C25-688	C25-680

OPTIONAL FLOWPATH

Model C25F is the flow-through version of C25. (See discussion on facing page.) 3, 4, 5, 6, and 7 positions are available.

Consult the factory for C25F prices and information.

MORE INFORMATION

- Actuators
- Air page 196
 - Microelectric 192
 - Universal 193
- Materials
- Metals 254-255
 - Polymers 256
 - Valve rotors 257
- Standoff assemblies 205



Model C25
10 position
1/4-28 fittings

CHEMINERT VALVES

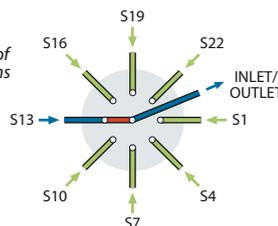
Stream selector, 1/16" Cheminert fittings

Model C25G

- Low pressure
- Stream selector
- 6-40 flat bottom
- 1/16"

Includes 6-40 PEEK nut/bushings for 1/16" OD tubing.
 Available only with microelectric actuator:
 24 VDC,
 with 110/230 VAC power supply.

(For clarity, only eight of the twenty-four streams are illustrated.)



SPECS
 100 psi liq
 50°C max
 PEEK stator
 Valcon M rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- Consult the factory for optional materials.

Bore:	20 Position 0.67 mm (.026") Prod No	24 Position 0.61 mm (.024") Prod No	28 Position 0.56 mm (.022") Prod No
With microelectric actuator	C25G-24520EMT	C25G-24524EMT	C25G-24528EMT
Replacement valve	C25G-24520D	C25G-24524D	C25G-24528D
Replacement rotor	C25G-24R20	C25G-24R24	C25G-24R28
Replacement stator	C25G-2C520	C25G-2C524	C25G-2C528

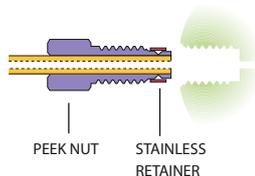


Model C25G
 24 positions
 1/16" fittings

Fittings for C25G valves

The C25G selector uses unique 6-40 fittings for flat-bottomed fitting details. As the fitting is tightened, the grooved area (supported by the stainless retainer) compresses enough to grip the tube for a low pressure connection.

- 6-40 one piece nut/bushing, natural PEEK, stainless retainer Prod No
CNNF1PK
- Tightening tool CGFT

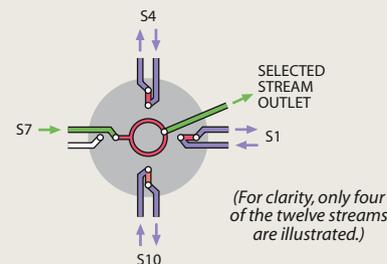


OPTIONAL FLOWPATHS

Model C25G valves select and isolate one of 20-28 streams, with the remainder dead-ended.

Model C25GF, the flow-through version, is similar to the C25G but its non-selected streams continue flowing through individual outlets. 10, 12, and 14 positions are available.

Call for pricing and information.



Model C35ZF schematic

CHEMINERT VALVES

Stream selector, 1/2-20 fittings for 1/4" tubing, 4.6 mm ports (.180")

Model C45

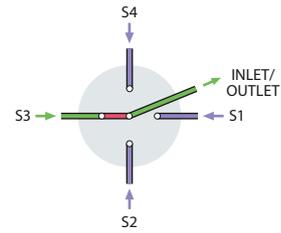
SPECS

100 psi liq
50°C max
PPS stator
Valcon TF rotor

OPTIONS

- 2", 3", 4", and 6" standoffs
- Consult the factory for optional materials.
- 8 position selectors are available with 3 mm (.120") ports

Manual version not available.
Includes Cheminert 1/2-20 flangeless fittings for 1/4" tubing, Delrin nuts, and CTFE ferrules.
Microelectric actuator:
24 VDC, with 110/230 VAC to 24 VDC power supply.



Low pressure
Stream selector
1/2-20 Internal
1/4" 4.6 mm

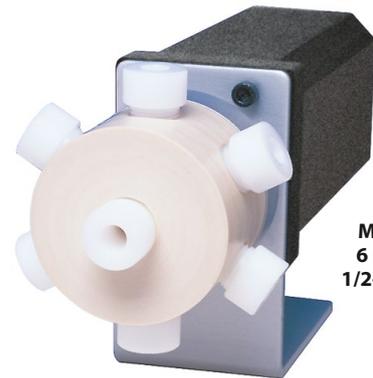
	4 Position <i>Prod No</i>	6 Position <i>Prod No</i>
With air actuator	C45-9784A	C45-9786A
With microelectric actuator	C45-9784EMT	C45-9786EMT
Replacement valve	C45-9784D	C45-9786D
Replacement rotor	C45-97R4	C45-97R6

Fittings for C45 valves

For additional 1/2-20 fittings and adapters, see page 72.



		<i>Prod No</i>
Nuts	CTFE	CFL-4KF
	Delrin	CFL-4D
	PPS	CFL-4PPS
Ferrules	CTFE	CFL-CB4KF-S
Plugs	CTFE	CP-4K
	Delrin	CP-4D



**Model C45
6 positions
1/2-20 fittings**

MORE INFORMATION

Actuators
Air page 196
Microelectric 192
Universal 193
Materials
Metals..... 254-255
Polymers 256
Valve rotors..... 257
Standoff assemblies 205

CHEMINERT VALVES ■ OEM

**Integrated motor/valve,
1/16" Valco fittings, 0.25 mm ports (.010")**

Model C52

- 5,000 psi
- Microbore
- Integrated
- 1/16" 0.25 mm
- CE ready*

See page 151 for more information on Model C52 valves.
Also available in vertical port version. Contact the factory.
 Includes nuts and ferrules.
 Valves with stainless stators have stainless fittings.
 Valves with PEEK stators have PEEK fittings.



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

N60 stainless stator

With integrated actuator	C52-1004I	C52-1006I	C52-1008I	C52-1000I
With motor/sensor only	C52-1004I-S	C52-1006I-S	C52-1008I-S	C52-1000I-S
With motor only	C52-1004IX	C52-1006IX	C52-1008IX	C52-1000IX
Replacement rotor	C2-10R4	C2-10R6	C2-10R8H	C2-10R0H
Replacement stator	C52-1C04	C52-1C06	C52-1C08	C52-1C00

PAEK stator

With integrated actuator	C52-1344I	C52-1346I	C52-1348I	C52-1340I
With motor/sensor only	C52-1344I-S	C52-1346I-S	C52-1348I-S	C52-1340I-S
With motor only	C52-1344IX	C52-1346IX	C52-1348IX	C52-1340IX
Replacement rotor	C2-13R4	C2-13R6	C2-13R8H	C2-13R0H
Replacement stator	C52-1C44	C52-1C46	C52-1C48	C52-1C40

SPECS

5,000 psi liq
40°C max
 N60 stainless stator
 Valcon H rotor

5,000 psi liq
40°C max
 PAEK stator
 Valcon E rotor

OPTIONS

- **Vertical port version.** (Model C52V)
Contact the factory for more information.
- Optional 0.40 mm (.016") and 0.75 mm ports (.030") available
- Titanium and Hastelloy stators available
- Serial communication via RS-232 is available.

*** CE READY**

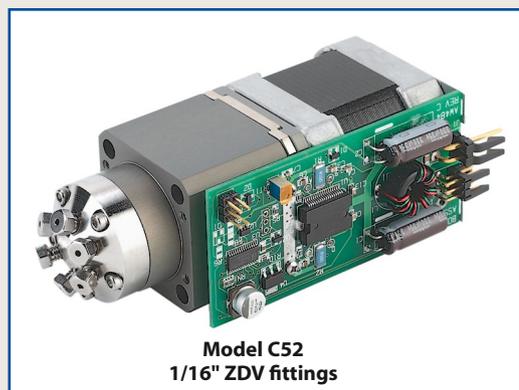
Since these integrated VICI motor/valves are designed as components to be embedded into other systems, they do not include a power supply. They have been tested according to the following EMC Standards:
 EN61326-1:2006
 Conducted emissions
 Radiated emissions
 However, these results do not substitute for, preclude, or guarantee passage of any or all relevant compliance testing as required for a final product that includes these components.

NOTE

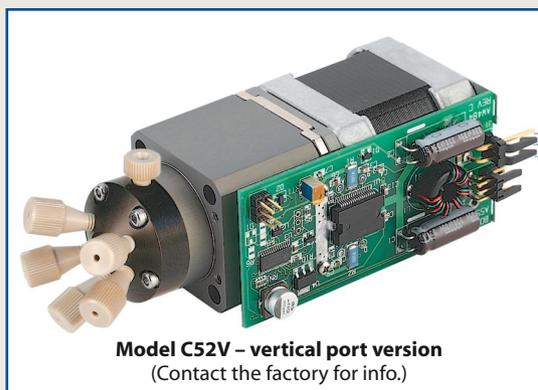
Cheminert high pressure valves with polymeric stators have a longer pilot depth.

MORE INFORMATION

Materials
 Metals..... page 254-5
 Polymers256
 Valve rotors.....257



Model C52
1/16" ZDV fittings



Model C52V – vertical port version
(Contact the factory for info.)

Sample loops *for C52 injectors*

Each metal loop includes two stainless steel nuts and ferrules.
 Each PEEK loop includes two PEEK nuts and ferrules.

Volume	Stainless Steel	PEEK (for PAEK stators)
	Prod No	Prod No
2 µl	CSL2	CZSL2PK
5 µl	CSL5	CZSL5PK
10 µl	CSL10	CZSL10PK
20 µl	CSL20	CZSL20PK
50 µl	CSL50	CZSL50PK
100 µl	CSL100	CZSL100PK
250 µl	CSL250	CZSL250PK
500 µl	CSL500	CZSL500PK
1 ml	CSL1K	CZSL1KPK
2 ml	CSL2K	CZSL2KPK
5 ml	CSL5K	CZSL5KPK
10 ml	CSL10K	—



ABOUT LOOPS

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, and PTFE (see pages 254-255).
- Metal loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.
- Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

Microbore centered port injector, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C3

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- Titanium and Hastelloy stators available

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 5 µl loop of the stator material.
Includes syringe fill port for 22 gauge 3/4" and 2" needle.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

N60 stainless stator

Prod No

PAEK stator

Prod No

Manual	C3-1006	C3-1346
With air actuator	C3-1006A	C3-1346A
With microelectric actuator	C3-1006EH	C3-1346EH
Replacement valve	C3-1006D	C3-1346D
Replacement rotor	C2-10R6	C2-13R6
Replacement stator	C3-1C06	C3-1C46

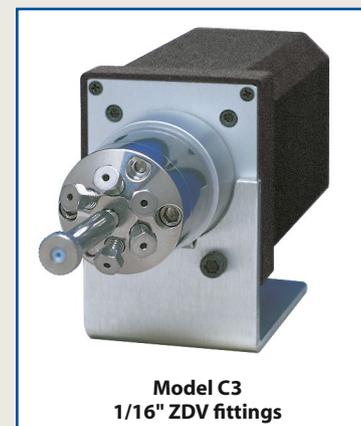


5,000 psi

Microbore

Centered port

1/16" 0.25 mm



Model C3
1/16" ZDV fittings



Order loops
from page 161.

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.

Microbore vertical port injector, 1/16" Valco fittings, 0.25 mm ports (.010")

Model C2V

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- Titanium and Hastelloy stators available

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 5 µl loop of the stator material.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

N60 stainless stator

Prod No

PAEK stator

Prod No

Manual	C2V-1006	C2V-1346
With air actuator	C2V-1006A	C2V-1346A
With microelectric actuator	C2V-1006EH	C2V-1346EH
Replacement valve	C2V-1006D	C2V-1346D
Replacement rotor	C2-10R6	C2-13R6
Replacement stator	C2V-1C06	C2V-1C46

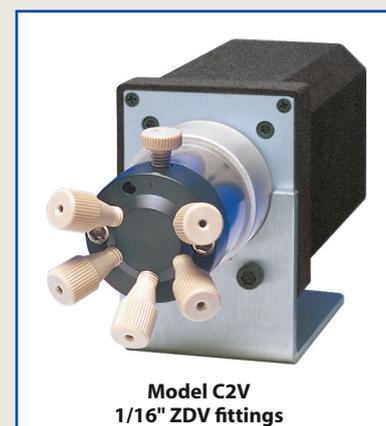


5,000 psi

Microbore

Vertical port

1/16" 0.25 mm



Model C2V
1/16" ZDV fittings



Order loops
from page 161.

CHEMINERT VALVES ■ OEM

**Integrated motor/valve,
1/16" Valco fittings, 0.40 mm ports (.016")**

Model C52

- 5,000 psi
- Analytical
- Integrated
- 1/16" 0.40 mm
- CE ready*

See page 151 for more information on Model C52 valves.
Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings, nuts and ferrules.



4 Port
Prod No



6 Port*
Prod No



8 Port
Prod No



10 Port
Prod No

N60 stainless stator

With integrated actuator	C52-2004I	C52-2006I	C52-2008I	C52-2000I
With motor/sensor only	C52-2004I-S	C52-2006I-S	C52-2008I-S	C52-2000I-S
With motor only	C52-2004IX	C52-2006IX	C52-2008IX	C52-2000IX
Replacement rotor	C2-20R4	C2-20R6	C2-20R8H	C2-20R0H
Replacement stator	C52-2C04	C52-2C06	C52-2C08	C52-2C00

PAEK stator

With integrated actuator	C52-2344I	C52-2346I	C52-2348I	C52-2340I
With motor/sensor only	C52-2344I-S	C52-2346I-S	C52-2348I-S	C52-2340I-S
With motor only	C52-2344IX	C52-2346IX	C52-2348IX	C52-2340IX
Replacement rotor	C2-23R4	C2-23R6	C2-23R8H	C2-23R0H
Replacement stator	C52-2C44	C52-2C46	C52-2C48	C52-2C40

SPECS

5,000 psi liq
40°C max
N60 stainless stator
Valcon H rotor

5,000 psi liq
40°C max
PAEK stator
Valcon E rotor

OPTIONS

- **Vertical port version.** (Model C52V)
Contact the factory for more information.
- Optional 0.25 mm (.010") and 0.75 mm ports (.030") available
- Titanium and Hastelloy stators available
- Serial communication via RS-232 is available.

*** CE READY**

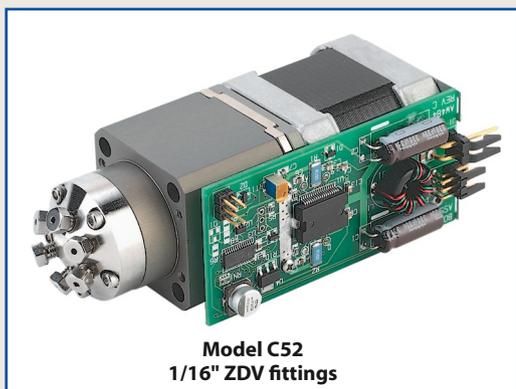
Since these integrated VICI motor/valves are designed as components to be embedded into other systems, they do not include a power supply. They have been tested according to the following EMC Standards:
EN61326-1:2006
Conducted emissions
Radiated emissions
However, these results do not substitute for, preclude, or guarantee passage of any or all relevant compliance testing as required for a final product that includes these components.

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.

MORE INFORMATION

Materials
Metals..... page 254-5
Polymers256
Valve rotors.....257



Model C52
1/16" ZDV fittings



Model C52V – vertical port version
(Contact the factory for info.)

Sample loops *for C52 injectors*

Each metal loop includes two stainless steel nuts and ferrules.
Each PEEK loop includes two PEEK nuts and ferrules.

Volume	Stainless Steel	PEEK (for PAEK stators)
	Prod No	Prod No
2 µl	CSL2	CZSL2PK
5 µl	CSL5	CZSL5PK
10 µl	CSL10	CZSL10PK
20 µl	CSL20	CZSL20PK
50 µl	CSL50	CZSL50PK
100 µl	CSL100	CZSL100PK
250 µl	CSL250	CZSL250PK
500 µl	CSL500	CZSL500PK
1 ml	CSL1K	CZSL1KPK
2 ml	CSL2K	CZSL2KPK
5 ml	CSL5K	CZSL5KPK
10 ml	CSL10K	—



ABOUT LOOPS

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, and PTFE (see pages 254-255).
- Metal loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.
- Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

Analytical centered port injector, 1/16" Valco fittings, 0.40 mm ports (.016")

Model C3

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- Titanium and Hastelloy stators available

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 20 µl loop of the stator material.
Includes syringe fill port for 22 gauge 3/4" and 2" needle.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

N60 stainless stator

Prod No

PAEK stator

Prod No

Manual	C3-2006	C3-2346
With air actuator	C3-2006A	C3-2346A
With microelectric actuator	C3-2006EH	C3-2346EH
Replacement valve	C3-2006D	C3-2346D
Replacement rotor	C2-20R6	C2-23R6
Replacement stator	C3-2C06	C3-2C46



5,000 psi

Analytical

Centered port

1/16" 0.40 mm



Order loops
from page 161.

NOTE

Cheminert high pressure valves with polymeric stators have a longer pilot depth.

Analytical vertical port injector, 1/16" Valco fittings, 0.40 mm ports (.016")

Model C2V

SPECS

5000 psi liq
75°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PAEK stator
Valcon E rotor

OPTIONS

- Titanium and Hastelloy stators available

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PAEK stators have PEEK fittings.
Includes one 20 µl loop of the stator material.
Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply.

N60 stainless stator

Prod No

PAEK stator

Prod No

Manual	C2V-2006	C2V-2346
With air actuator	C2V-2006A	C2V-2346A
With microelectric actuator	C2V-2006EH	C2V-2346EH
Replacement valve	C2V-2006D	C2V-2346D
Replacement rotor	C2-20R6	C2-23R6
Replacement stator	C2V-2C06	C2V-2C46

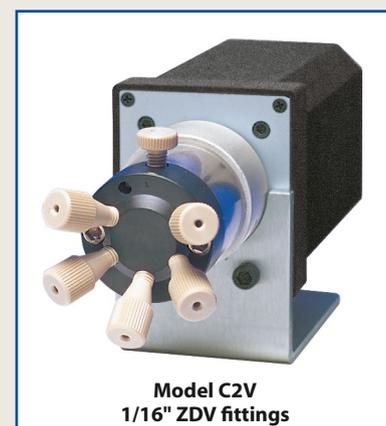


5,000 psi

Analytical

Vertical port

1/16" 0.40 mm



Order loops
from page 161.

CHEMINERT VALVES - OEM

Integrated motor/valve, 1/16" Valco ZDV fittings, 0.75 mm ports (.030")

Model C62Z

- Low pressure
- Integrated
- 10-32 ZDV
- 1/16" 0.75 mm
- CE ready*

Includes Valco ZDV PEEK nuts and ferrules.
Sample loops are not included with valves. Order separately.



4 Port
Prod No



6 Port
Prod No



8 Port
Prod No



10 Port
Prod No

With motor, sensor, & controller
With motor and sensor only

C62Z-3184I
C62Z-3184I-S

C62Z-3186I
C62Z-3186I-S

C62Z-3188I
C62Z-3188I-S

C62Z-3180I
C62Z-3180I-S

SPECS

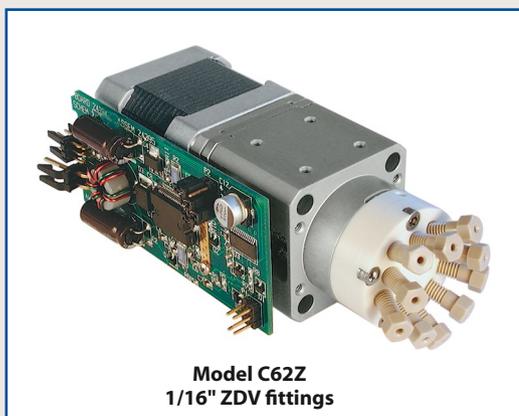
100 psi gas/ 250 psi liq
50°C max
PPS stator
Valcon E2 rotor

OPTIONS

- Other polymeric rotors and stators are available
- Consult the factory for prices and information.
- Serial communication via RS-232 is available.

*** CE READY**

Since these integrated VICI motor/valves are designed as components to be embedded into other systems, they do not include a power supply. They have been tested according to the following EMC Standards:
EN61326-1: 2006
Conducted emissions
Radiated emissions
However, these results do not substitute for, preclude, or guarantee passage of any or all relevant compliance testing as required for a final product that includes these components.



Sample loops

for Model C62Z

Loops include PEEK nuts and ferrules. Loops less than 500 µl are made from 1/16" OD tubing; loops 500 µl or greater are made from 1/8" OD tubing with polymeric unions and 1/16" ends.

	FEP	PTFE	PEEK
Volume	Prod No	Prod No	Prod No
5 µl	CZSL5FEP	CZSL5TF	CZSL5PK
10 µl	CZSL10FEP	CZSL10TF	CZSL10PK
20 µl	CZSL20FEP	CZSL20TF	CZSL20PK
50 µl	CZSL50FEP	CZSL50TF	CZSL50PK
100 µl	CZSL100FEP	CZSL100TF	CZSL100PK
250 µl	CZSL250FEP	CZSL250TF	CZSL250PK
500 µl	CZSL500FEP	CZSL500TF	CZSL500PK
1 ml	CZSL1KFEP	CZSL1KTF	CZSL1KPK
2 ml	CZSL2KFEP	CZSL2KTF	CZSL2KPK



ABOUT LOOPS

- Sample loop shape and dimensions may vary from batch to batch due to fluctuations in tubing ID. Loop volume is controlled as closely as possible, but is not calibrated.

MORE INFORMATION

Materials
Metals . . . page 254-255
Polymers 256
Valve rotors. 257

Integrated motor/valve, 1/4-28 fitting details for 1/16" tubing, 0.75 mm ports (.030")

Model C62

SPECS

100 psi gas/ 250 psi liq
75°C max
PPS stator
Valcon E2 rotor

OPTIONS

■ Serial communication via RS-232 is available.

*** CE READY**

See note on facing page.

Includes multicolored Cheminert flangeless fittings for 1/16" tubing.
Sample loops are not included with valves. Order separately.

Low pressure
Integrated
1/4-28 Internal
1/16" 0.75 mm
CE ready*



4 Port
Prod No



6 Port
Prod No



8 Port
Prod No



10 Port
Prod No

With motor, sensor, & controller
With motor and sensor only

C62-3184I
C62-3184I-S

C62-3186I
C62-3186I-S

C62-3188I
C62-3188I-S

C62-3180I
C62-3180I-S

Integrated motor/valve, 1/4-28 fitting details for 1/8" tubing, 1.50 mm ports (.060")

Model C62

SPECS

100 psi gas/ 250 psi liq
75°C max
PPS stator
Valcon E2 rotor

OPTIONS

■ Serial communication via RS-232 is available.

*** CE READY**

See note on facing page.

Includes multicolored Cheminert flangeless fittings for 1/8" tubing.
Sample loops are not included with valves. Order separately.

Low pressure
Integrated
1/4-28 Internal
1/8" 1.50 mm
CE ready*

4 Port		6 Port		8 Port	10 Port
Prod No	Prod No	Prod No	Prod No		
With motor, sensor, & controller	C62-6184I	C62-6186I	C62-6188I	C62-6180I	
With motor and sensor only	C62-6184I-SC	C62-6186I-S	C62-6188I-S	C62-6180I-S	

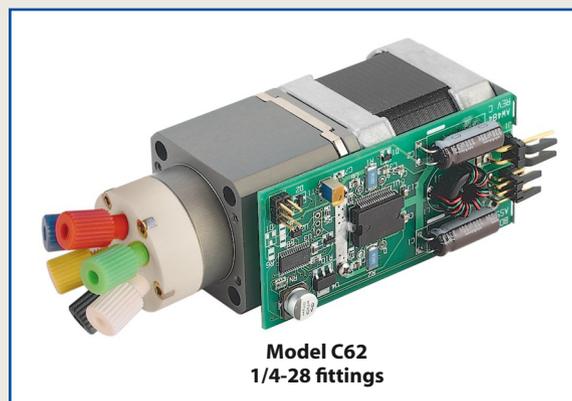
Sample loops

for Model C62

Loops include flangeless fittings with natural color nuts.
Loops less than 500 µl are made from 1/16" OD tubing;
loops 500 µl or greater are made from 1/8" OD tubing.



Volume	FEP Prod No	PTFE Prod No	PEEK Prod No
20 µl	CFSL20FEP	CFSL20TF	CFSL20PK
50 µl	CFSL50FEP	CFSL50TF	CFSL50PK
100 µl	CFSL100FEP	CFSL100TF	CFSL100PK
250 µl	CFSL250FEP	CFSL250TF	CFSL250PK
500 µl	CFSL500FEP	CFSL500TF	CFSL500PK
1 ml	CFSL1KFEP	CFSL1KTF	CFSL1KPK
2 ml	CFSL2KFEP	CFSL2KTF	CFSL2KPK



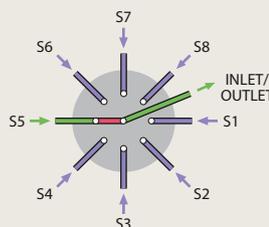
CHEMINERT VALVES ▪ OEM

**Integrated motor/stream selector,
1/16" Valco ZDV fittings, 0.40 mm ports (.016")**

Model C55

- 5,000 psi**
- Integrated**
- Stream selector**
- 10-32 ZDV**
- 1/16"**
0.40 mm
- CE ready***

Includes nuts and ferrules.
Valves with stainless stators have stainless fittings.
Valves with PEEK stators have PEEK fittings.
See Tech Tip, below.



SPECS

5000 psi liq
50°C max
Metal stator
Valcon H rotor

5000 psi liq
50°C max
PEAK stator
Valcon E rotor

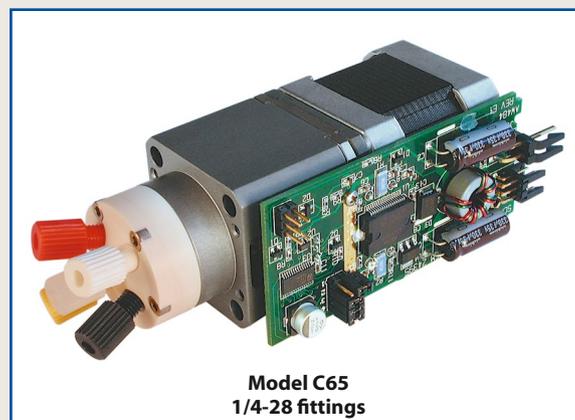
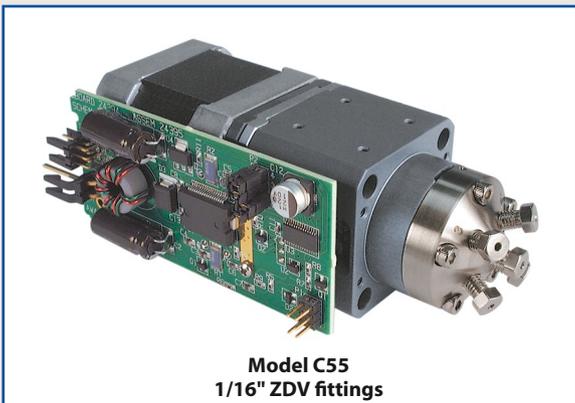
OPTIONS

- Optional bore:
0.25 mm (.010")
0.75 mm (.030")
- 4 and 8 positions available

*** CE READY**

Since these integrated VICI motor/valves are designed as components to be embedded into other systems, they do not include a power supply. They have been tested according to the following EMC Standards:
EN61326-1:2006
Conducted emissions
Radiated emissions
However, these results do not substitute for, preclude, or guarantee passage of any or all relevant compliance testing as required for a final product that includes these components.

	4 Position <i>Prod No</i>	6 Position <i>Prod No</i>	8 Position <i>Prod No</i>	10 Position <i>Prod No</i>
N60 stainless stator				
With integrated actuator Including RS-232 interface	C55-2004I C55-2004IA	C55-2006I C55-2006IA	C55-2008I C55-2008IA	C55-2000I C55-2000IA
With motor/sensor only	C55-2004I-S	C55-2006I-S	C55-2008I-S	C55-2000I-S
With motor only	C55-2004IX	C55-2006IX	C55-2008IX	C55-2000IX
Replacement rotor	C5-20R4	C5-20R6	C5-20R8H	C5-20R0H
Replacement stator	C55-2C04	C55-2C06	C55-2C08	C55-2C00
PEAK stator				
With integrated actuator Including RS-232 interface	C55-2344I C55-2344IA	C55-2346I C55-2346IA	C55-2348I C55-2348IA	C55-2340I C55-2340IA
With motor/sensor only	C55-2344I-S	C55-2346I-S	C55-2348I-S	C55-2340I-S
With motor only	C55-2344IX	C55-2346IX	C55-2348IX	C55-2340IX
Replacement rotor	C5-23R4	C5-23R6	C5-23R8H	C5-23R0H
Replacement stator	C55-2C44	C55-2C46	C55-2C48	C55-2C40



TECH TIP

For accurate port alignment, these integrated motor/stream selectors must be turned in one direction only. Factory setting is clockwise rotation, but it can be changed by a jumper setting. (See Technical Note TN-821 on vici.com)

**Integrated motor/stream selector,
1/16" Valco ZDV fittings, 0.75 mm ports (.030")**

Model C65Z

SPECS

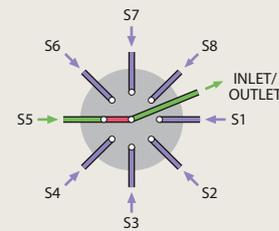
100 psi gas/ 250 psi liq
50°C max
PPS stator
Valcon E2 rotor

*** CE READY**

See note on facing page.

Includes Valco ZDV PEEK nuts and ferrules.

See Tech Tip on facing page.



Low pressure
Integrated
Stream selector
10-32 ZDV
1/16" 0.75 mm
CE ready*

	4 Position Prod No	6 Position Prod No	8 Position Prod No	10 Position Prod No
With integrated actuator	C65Z-3184I	C65Z-3186I	C65Z-3188I	C65Z-3180I
Including RS-232 interface	C65Z-3184IA	C65Z-3186IA	C65Z-3188IA	C65Z-3180IA
With motor and sensor only	C65Z-3184I-S	C65Z-3186I-S	C65Z-3188I-S	C65Z-3180I-S

**Integrated motor/stream stream selector,
1/4-28 fittings for 1/16" tubing, 0.75 mm ports (.030")**

Model C65

SPECS

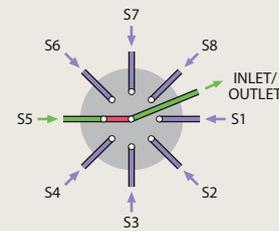
100 psi gas/ 250 psi liq
50°C max
PPS stator
Valcon E2 rotor

*** CE READY**

See note on facing page.

Includes multicolored Cheminert flangeless fittings for 1/16" tubing. See photo on facing page.

See Tech Tip on facing page.



Low pressure
Integrated
Stream selector
1/4-28 Internal
1/16" 0.75 mm
CE ready*

	4 Position Prod No	6 Position Prod No	8 Position Prod No	10 Position Prod No
With integrated actuator	C65-3184I	C65-3186I	C65-3188I	C65-3180I
Including RS-232 interface	C65-3184IA	C65-3186IA	C65-3188IA	C65-3180IA
With motor and sensor only	C65-3184I-S	C65-3186I-S	C65-3188I-S	C65-3180I-S

**Integrated motor/stream stream selector,
1/4-28 fittings for 1/8" tubing, 1.50 mm ports (.060")**

Model C65

SPECS

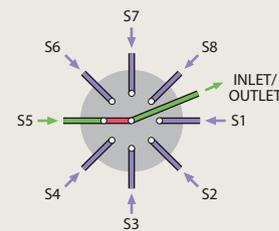
100 psi gas/ 250 psi liq
50°C max
PPS stator
Valcon E2 rotor

*** CE READY**

See note on facing page.

Includes multicolored Cheminert flangeless fittings for 1/8" tubing. See photo on facing page.

See Tech Tip on facing page.



Low pressure
Integrated
Stream selector
1/4-28 Internal
1/8" 1.50 mm
CE ready*

	4 Position Prod No	6 Position Prod No	8 Position Prod No	10 Position Prod No
With integrated actuator	C65-6184I	C65-6186I	C65-6188I	C65-6180I
Including RS-232 interface	C65-6184IA	C65-6186IA	C65-6188IA	C65-6180IA
With motor and sensor only	C65-6184I-S	C65-6186I-S	C65-6188I-S	C65-6180I-S