

**UHPLC • Nanovolume® injectors with 360µm fittings**



**CHEMINERT VALVES**

**UHPLC Nanovolume® valves**

**15,000 psi**

**360 MICRON FITTINGS, 150 MICRON BORE (.006")**

**15,000 psi**

Model C72MX includes stainless 360 micron fittings.  
 Universal actuator: 24 VDC, with autosensing 24 VDC power supply.  
 Includes RS232/485 serial interface. See page 174 for other interface options.

**Nanobore**

**360 µm 150 µm**



**6 Port**

*Prod No*



**10 Port**

*Prod No*

Coated stainless stator		
Manual	C72MX-6676	C72MX-6670
With universal actuator	C72MX-6676EUHA	C72MX-6670EUDA
Replacement valve	C72MX-6676D	C72MX-6670D
Replacement rotor	C72M-66R6	C72M-66R0
Replacement stator	C72M-6C76	C72M-6C70

**SPECIFICATIONS**

**15,000 psi liq  
 50°C max**

Stator: Stainless with inert coating  
 Rotor: Valcon E3

**OPTIONS**

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



**6 PORT VALVE**  
 360 micron fittings

**t TECH TIP**

Increasing the pressure rating shortens valve lifetime.

**➔ MORE INFO**

360 micron Nanovolume® fittings . . . . . pp 42-44



## UHPLC Nanovolume® valves

15,000 psi

1/32" VALCO STAINLESS FITTINGS, 150 MICRON BORE (.006")

### SPECIFICATIONS

15,000 psi liq  
50°C max

Stator: Stainless with inert coating  
Rotor: Valcon E3

Model C72NX includes stainless nuts and ferrules.  
Universal actuator: 24 VDC, with autosensing 24 VDC power supply.  
Includes RS232/485 serial interface. See page 174 for other interface options.

15,000 psi

Nanobore

1/32"

150 µm

### OPTIONS

- 100 micron (.004") bore
- 250 micron (.010") bore
- 10,000 and 20,000 psi versions available
- 4 and 8 port versions available



6 Port

Prod No



10 Port

Prod No

Coated stainless stator		
Manual	C82NX-6676	C82NX-6670
With universal actuator	C82NX-6676EUHA	C82NX-6670EUDA
Replacement valve	C82NX-6676D	C82NX-6670D
Replacement rotor	C72N-66R6	C72N-66 R0
Replacement stator	C72N-6C76	C72N-6C70



6 PORT VALVE

1/32" Valco stainless fittings

### Sample loops

Each stainless steel loop includes two stainless 1/32" Valco fittings. Pressure rating > 20,000 psi.

Volume Prod No

1 µl	CSLN1K
1.5 µl	CSLN1.5K
2 µl	CSLN2K
5 µl	CSLN5K
10 µl	CSLN10K



INTERNAL SAMPLE INJECTOR

1/32" Valco stainless fittings

## UHPLC Nanovolume® internal sample injectors

15,000 psi

1/32" VALCO STAINLESS FITTINGS, 150 MICRON BORE (.006")

### SPECIFICATIONS

15,000 psi liq  
50°C max

Stator: Stainless with inert coating  
Rotor: Valcon E3

Model C74NX includes stainless nuts and ferrules.  
Universal actuator: 24 VDC, with autosensing 24 VDC power supply.  
Includes serial interface. See page 174 for other interface options.



15,000 psi

Nanobore

Internal sample

1/32"

150 µm

### OPTIONS

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

Sample size: **10 nanoliters** **20 nanoliters** **30 nanoliters**  
Prod No Prod No Prod No

Coated stainless stator			
Manual	C84NX-6674-.01	C84NX-6674-.02	C84NX-6674-.03
With universal actuator	C84NX-6674-.01EUHA	C84NX-6674-.02EUHA	C84NX-6674-.03EUHA
Replacement valve	C84NX-6674-.01D	C84NX-6674-.02D	C84NX-6674-.03D
Replacement rotor	C74N-66R-.01	C74N-66R-.02	C74N-66R-.03
Replacement stator	C74N-6C7	C74N-6C7	C74N-6C7

### MORE INFO

1/32" Valco nuts and ferrules..... pp 12, 14

## UHPLC • Microbore



### CHEMINERT VALVES

## UHPLC microbore valves

**15,000 psi**

**1/16" VALCO FITTINGS, 0.25 MM PORTS (.010")**

15,000 psi

Microbore

1/16"

0.25 mm

Model C72X includes stainless steel nuts and ferrules.

Universal actuator: 24 VDC, with autosensing 24 VDC power supply.

Includes RS232/485 serial interface. See page 174 for other interface options.

### SPECIFICATIONS

**15,000 psi liq**  
**50°C max**

Stator: Stainless with inert coating  
Rotor: Valcon E3

### OPTIONS

- 0.15 mm ports (.006")
- 10,000 and 20,000 psi versions available



**4 Port**

Prod No



**6 Port**

Prod No



**8 Port**

Prod No



**10 Port**

Prod No

	Prod No	Prod No	Prod No	Prod No
Manual	C82X-1674	C82X-1676	C82X-1678	C82X-1670
With universal act.	C82X-1674EUHA	C82X-1676EUHA	C82X-1678EUDA	C82X-1670EUDA
Replacement valve	C82X-1674D	C82X-1676D	C82X-1678D	C82X-1670D
Replacement rotor	C72-16R4	C72-16R6	C72-16R8	C72-16R0
Replacement stator	C72-1C74	C72-1C76	C72-1C78	C72-1C70



**6 PORT VALVE**  
1/16" Valco stainless fittings

## Stainless steel sample loops

Each loop includes two stainless steel nuts and ferrules.

These loops are for use with valves on this page.



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

### ABOUT LOOPS

- Metal loops > 2 ml are made from 1/8" OD tubing with TIG welded 1/16" tube ends or reducing unions, and are not suitable for UHPLC use.
- 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.



## UHPLC microbore internal sample injectors

15,000 psi

1/16" VALCO FITTINGS, 0.25 MM PORTS (.010")

## SPECIFICATIONS

15,000 psi liq  
50°C maxStator: Stainless with  
inert coating  
Rotor: Valcon E3Model C74X includes stainless steel nuts and ferrules.  
Universal actuator: 24 VDC, with autosensing 24 VDC power supply.  
Includes RS232/485 serial interface. See page 174 for other interface options.

15,000 psi

Microbore

Internal sample

1/16"

0.25 mm

## OPTIONS

- 0.15 mm ports (.006")
- Other internal volumes are available on request
- 10,000 and 20,000 psi versions available

## Sample volume      20 nanoliters      50 nanoliters      100 nanoliters

	Prod No	Prod No	Prod No
Manual	C84X-1674-.02	C84X-1674-.05	C84X-1674-.1
With universal actuator	C84X-1674-.02EUHA	C84X-1674-.05EUHA	C84X-1674-.1EUHA
Replacement valve	C84X-1674-.02D	C84X-1674-.05D	C84X-1674-.1D
Replacement rotor	C74-16R-.02	C74-16R-.05	C74-16R-.1
Replacement stator	C74-1C7	C74-1C7	C74-1C7



**INTERNAL SAMPLE INJECTOR**  
1/16" Valco  
stainless fittings

**TECH TIP**

Increasing the pressure rating shortens valve lifetime.

**MORE INFO**

Actuators  
Microelectric ..... 176  
Universal ..... 174-175  
Materials  
Metals ..... 246-247  
Polymers ..... 248  
Valve rotors ..... 249