



HPLC Injectors

**Internal sample injectors, 1/16" fittings, 0.40 mm ports (.016")  
0.25 mm column port diameter (.010")**

**5,000 psi**  
**Internal sample**  
**1/16" 0.40 mm**

Standard electric actuator:  
110 VAC for USA  
110/230 VAC to 24 VDC power supply for international  
Microelectric actuator:  
24 VDC, with 110/230 VAC to 24 VDC power supply.



**SPECS**  
**5000 psi liq**  
**75°C max**  
Nitronic 60 valve body  
Valcon H rotor

| Sample volume                   | .06 µl     |       | .1 µl     |       | .2 µl     |       | .5 µl     |       |
|---------------------------------|------------|-------|-----------|-------|-----------|-------|-----------|-------|
|                                 | Prod No    | Price | Prod No   | Price | Prod No   | Price | Prod No   | Price |
| Manual                          | CI4W.06    |       | CI4W.1    |       | CI4W.2    |       | CI4W.5    |       |
| With air actuator               | ACI4W.06   |       | ACI4W.1   |       | ACI4W.2   |       | ACI4W.5   |       |
| With standard electric actuator | ECI4W.06   |       | ECI4W.1   |       | ECI4W.2   |       | ECI4W.5   |       |
| With microelectric actuator     | EPCI4W.06  |       | EPCI4W.1  |       | EPCI4W.2  |       | EPCI4W.5  |       |
| Replacement valve               | DCI4W.06   |       | DCI4W.1   |       | DCI4W.2   |       | DCI4W.5   |       |
| Replacement rotor               | SSACI4W.06 |       | SSACI4W.1 |       | SSACI4W.2 |       | SSACI4W.5 |       |



W Type  
1/16" fittings



UW Type  
1/16" fittings

**OPTIONS**

- 2", 3", 4", and 6" standoffs
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)
- 1/32" fittings with 0.25 mm bore (.010") also available. Consult factory for product number and pricing.

**Internal sample injectors, 1/16" fittings, 0.75 mm ports (.030")**

**5,000 psi**  
**Internal sample**  
**1/16" 0.75 mm**

Standard electric actuator:  
110 VAC for USA  
110/230 VAC to 24 VDC power supply for international  
Microelectric actuator:  
24 VDC, with 110/230 VAC to 24 VDC power supply.



**SPECS**  
**5000 psi liq**  
**75°C max**  
Nitronic 60 valve body  
Valcon H rotor

| Sample volume                   | .2 µl      |       | .5 µl      |       | 1 µl      |       | 2 µl      |       |
|---------------------------------|------------|-------|------------|-------|-----------|-------|-----------|-------|
|                                 | Prod No    | Price | Prod No    | Price | Prod No   | Price | Prod No   | Price |
| Manual                          | CI4UW.2    |       | CI4UW.5    |       | CI4UW1    |       | CI4UW2    |       |
| With air actuator               | ACI4UW.2   |       | ACI4UW.5   |       | ACI4UW1   |       | ACI4UW2   |       |
| With standard electric actuator | ECI4UW.2   |       | ECI4UW.5   |       | ECI4UW1   |       | ECI4UW2   |       |
| With microelectric actuator     | EDCI4UW.2  |       | EDCI4UW.5  |       | EDCI4UW1  |       | EDCI4UW2  |       |
| Replacement valve               | DCI4UW.2   |       | DCI4UW.5   |       | DCI4UW1   |       | DCI4UW2   |       |
| Replacement rotor               | SSACI4UW.2 |       | SSACI4UW.5 |       | SSACI4UW1 |       | SSACI4UW2 |       |

**OPTIONS**

- 2", 3", 4", and 6" standoffs
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)
- 1/32" fittings with 0.25 mm bore (.010") also available. Consult factory for product number and pricing.

UW Type



2009 #60

switching valves, 1/16" fittings, 0.40 mm ports (.016")

W Type

**SPECS**  
5,000 psi liq  
150°C max

Nitronic 60 valve body  
Valcon H rotor

Standard electric actuator:  
110 VAC for USA  
110/230 VAC to 24 VDC power supply for international  
Microelectric actuator:  
24 VDC, with 110/230 VAC to 24 VDC power supply

Sample loops are not included with valves.  
Order separately.

5,000 psi

Analytical

1/16" 0.40 mm

**OPTIONS**

- 3 and 12 port valves available
- 2", 3", 4", and 6" standoffs
- 1/32" and 1/16" versions available with 0.25 mm (.010") bore
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)



4 Ports

Prod No Price



6 Ports

Prod No Price



8 Ports

Prod No Price



10 Ports

Prod No Price

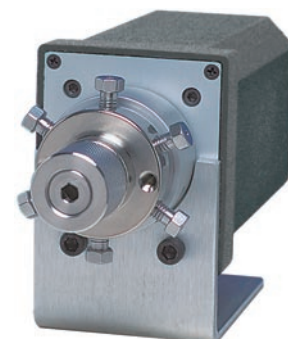
Manual  
With air actuator  
  
With standard electric actuator  
With microelectric actuator  
  
Replacement valve  
Replacement rotor

C4W  
AC4W  
  
EC4W  
EPC4W  
  
DC4W  
SSAC4W

C6W  
AC6W  
  
EC6W  
EPC6W  
  
DC6W  
SSAC6W

C8W  
AC8W  
  
EC8W  
EPC8W  
  
DC8W  
SSAC8W

C10W  
AC10W  
  
EC10W  
EPC10W  
  
DC10W  
SSAC10W



W Type  
1/16" fittings

**MORE INFORMATION**

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Valve rotors. .... 257  
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**ABOUT LOOPS**

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, PEEK, PTFE, and Titanium
- Loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.

**1/16" Stainless steel loops**

for W Type valves

Each stainless steel loop includes two stainless nuts and two stainless ferrules.  
Order special fittings separately.



| Volume | Prod No | Price | Volume | Prod No | Price |
|--------|---------|-------|--------|---------|-------|
| 2 µl   | SL2CW   |       | 100 µl | SL100CW |       |
| 5 µl   | SL5CW   |       | 250 µl | SL250CW |       |
| 10 µl  | SL10CW  |       | 500 µl | SL500CW |       |
| 15 µl  | SL15CW  |       | 1 ml   | SL1KCW  |       |
| 20 µl  | SL20CW  |       | 2 ml   | SL2KCW  |       |
| 25 µl  | SL25CW  |       | 5 ml   | SL5KCW  |       |
| 50 µl  | SL50CW  |       | 10 ml  | SL10KCW |       |

## Semi-Preparative HPLC

2009 #60

### Injectors and switching valves, 1/16" fittings, 0.75 mm ports (.030")

**5,000 psi**  
**Semi-prep**  
**1/16" 0.75 mm**

Standard electric actuator:  
110 VAC for USA  
110/230 VAC to 24 VDC power supply for international  
Microelectric actuator:  
24 VDC, with 110/230 VAC to 24 VDC power supply

Sample loops are not included with valves. Order separately.

#### SPECS

**5000 psi liq**  
**75°C max**  
Nitronic 60 valve body  
Valcon H rotor



**4 Ports**

Prod No Price



**6 Ports**

Prod No Price



**8 Ports**

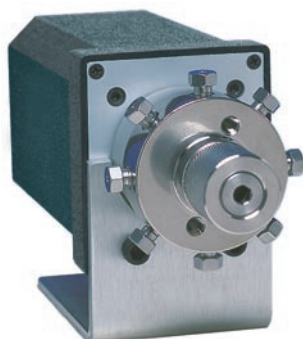
Prod No Price



**10 Ports**

Prod No Price

|                                 | 4 Ports | 6 Ports | 8 Ports | 10 Ports |
|---------------------------------|---------|---------|---------|----------|
| Manual                          | C4UW    | C6UW    | C8UW    | C10UW    |
| With air actuator               | AC4UW   | AC6UW   | AC8UW   | AC10UW   |
| With standard electric actuator | EC4UW   | EC6UW   | EC8UW   | EC10UW   |
| With microelectric actuator     | EDC4UW  | EDC6UW  | EDC8UW  | EDC10UW  |
| Replacement valve               | DC4UW   | DC6UW   | DC8UW   | DC10UW   |
| Replacement rotor               | SSAC4UW | SSAC6UW | SSAC8UW | SSAC10UW |



**UW Type**  
**1/16" fittings**

#### OPTIONS

- 3, 12, and 14 port valves available
- 2", 3", 4", and 6" standoffs
- 1/32" and 1/16" versions available with 0.25 mm (.010") bore
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)
- Larger bore available.

### 1/16" Stainless steel loops for UW Type valves

Each stainless steel loop includes two stainless nuts and two stainless ferrules. Order special fittings separately.



| Volume | Prod No | Price | Volume | Prod No  | Price |
|--------|---------|-------|--------|----------|-------|
| 3 µl   | SL3CUW  |       | 100 µl | SL100CUW |       |
| 5 µl   | SL5CUW  |       | 250 µl | SL250CUW |       |
| 10 µl  | SL10CUW |       | 500 µl | SL500CUW |       |
| 15 µl  | SL15CUW |       | 1 ml   | SL1KCUW  |       |
| 20 µl  | SL20CUW |       | 2 ml   | SL2KCUW  |       |
| 25 µl  | SL25CUW |       | 5 ml   | SL5KCUW  |       |
| 50 µl  | SL50CUW |       | 10 ml  | SL10KCUW |       |

#### ABOUT LOOPS

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, PEEK, PTFE, and Titanium
- Loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.

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2009 #60

switching valves, 1/8" fittings, 0.75 mm (.030")

UW Type

**SPECS**  
 5,000 psi liq  
 5°C max  
 live body  
 Valcon H rotor

Manual 10 port  
 includes 2" standoff.

Standard electric actuator:  
 110 VAC for USA  
 110/230 VAC to 24 VDC power supply for  
 international

Sample loops are not  
 included with valves.  
 Order separately.

**5,000 psi**

**Semi-prep**

**1/8" 0.75 mm**

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

**OPTIONS**

- 3 and 12 port valves available
- 2", 3", 4", and 6" standoffs
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)
- Larger bore available. (see page 116)



**4 Ports**

Prod No Price



**6 Ports**

Prod No Price



**8 Ports**

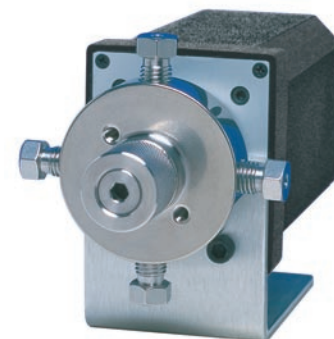
Prod No Price



**10 Ports**

Prod No Price

|                                 |        |        |        |         |       |
|---------------------------------|--------|--------|--------|---------|-------|
| Manual                          | 4UW    | 6UW    | 8UW    | 210UW   | \$720 |
| With air actuator               | A4UW   | A6UW   | A8UW   | A10UW   |       |
| With standard electric actuator | E4UW   | E6UW   | E8UW   | E10UW   | 1200  |
| With microelectric actuator     | ED4UW  | ED6UW  | ED8UW  | ED10UW  | 1430  |
| Replacement valve               | D4UW   | D6UW   | D8UW   | D10UW   |       |
| Replacement rotor               | SSA4UW | SSA6UW | SSA8UW | SSA10UW |       |



**UW Type**  
**1/8" fittings**

**MORE INFORMATION**

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 Standard elec. .... 193

Materials  
 Metals ..... 254-255  
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 Valve rotors ..... 257

Standoff  
 assemblies ..... 205

**ABOUT LOOPS**

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, PEEK, PTFE, and Titanium
- Loops < 100 µl are made from 1/16" OD tubing with brazed or welded 1/8" tube ends.



**1/8" Stainless steel loops** for UW Type valves

Each stainless steel loop includes two stainless nuts and two stainless ferrules. Order special fittings separately.

| Volume | Prod No | Price | Volume | Prod No | Price |
|--------|---------|-------|--------|---------|-------|
| 10 µl  | SL10UW  |       | 250 µl | SL250UW |       |
| 15 µl  | SL15UW  |       | 500 µl | SL500UW |       |
| 20 µl  | SL20UW  |       | 1 ml   | SL1KUW  |       |
| 25 µl  | SL25UW  |       | 2 ml   | SL2KUW  |       |
| 50 µl  | SL50UW  |       | 5 ml   | SL5KUW  |       |
| 100 µl | SL100UW |       | 10 ml  | SL10KUW |       |
|        |         |       | 20 ml  | SL20KUW |       |



2009 #60

### Injectors and switching valves, 1/8" fittings, large bore

**5,000 psi**  
**Prep**  
**1/8" Large bore**

Manual 10 port  
includes 2" standoff.

Standard electric actuator:  
110 VAC for USA  
110/230 VAC to 24 VDC power supply for  
international.

Sample loops are not  
included with valves.  
Order separately.

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

**SPECS**  
**5000 psi liq**  
**75°C max**  
Nitronic 60 valve body  
Valcon H rotor



**4 Ports**  
**1.7 mm (.067")**  
Prod No Price



**6 Ports**  
**1.7 mm (.067")**  
Prod No Price



**8 Ports**  
**1.3 mm (.050")**  
Prod No Price

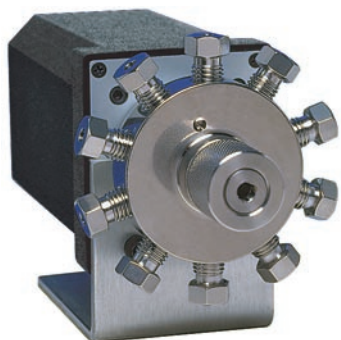


**10 Ports**  
**1.0 mm (.040")**  
Prod No Price

|                                 |         |         |         |          |
|---------------------------------|---------|---------|---------|----------|
| Manual                          | L4UW    | L6UW    | L8UW    | 2L10UW   |
| With air actuator               | AL4UW   | AL6UW   | AL8UW   | AL10UW   |
| With standard electric actuator | EL4UW   | EL6UW   | EL8UW   | EL10UW   |
| With microelectric actuator     | EDL4UW  | EDL6UW  | EDL8UW  | EDL10UW  |
| Replacement valve               | DL4UW   | DL6UW   | DL8UW   | DL10UW   |
| Replacement rotor               | SSAL4UW | SSAL6UW | SSAL8UW | SSAL10UW |

#### OPTIONS

- 3 port valve available
- 2", 3", 4", and 6" standoffs
- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-255)
- Smaller bore available. (see page 115)



**UW Type**  
**1/8" fittings**

#### MORE INFORMATION

Actuators  
Air ..... page 195  
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Standard elec. .... 193  
Materials  
Metals ..... 254-255  
Polymers ..... 256  
Valve rotors. .... 257  
Standoff  
assemblies ..... 205

### 1/8" Stainless steel loops for UW Type valves

Each stainless steel loop includes two stainless nuts and two stainless ferrules. Order special fittings separately.

| Volume | Prod No | Price | Volume | Prod No | Price |
|--------|---------|-------|--------|---------|-------|
| 100 µl | SL100UW |       | 2 ml   | SL2KUW  |       |
| 250 µl | SL250UW |       | 5 ml   | SL5KUW  |       |
| 500 µl | SL500UW |       | 10 ml  | SL10KUW |       |
| 1 ml   | SL1KUW  |       | 20 ml  | SL20KUW |       |



#### ABOUT LOOPS

- Other materials available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, PEEK, PTFE, and Titanium
- Loops < 100 µl are made from 1/16" OD tubing with brazed or welded 1/8" tube ends..

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