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

0.25 mm column por	t diameter (.010	')	· ·	W Туре	
5,000 psiMicrInternal sample1/16"0.40 mm	roelectric actuator: 24 V	DC, with 110/230 VAC to	o 24 VDC power supply	( and a second s	SPECS 5000 psi liq 75°C max Nitronic 60 valve body Valcon H rotor
Sample volume	<b>.06 µl</b> Prod No	<b>.1 μl</b> Prod No	<mark>.2 µl</mark> Prod No	<b>.5 μl</b> Prod No	OPTIONS ■ 2", 3", 4", and 6" standoffs
Manual With air actuator With microelectric actuator	CI4W.06 ACI4W.06 EPCI4W.06	CI4W.1 ACI4W.1 EPCI4W.1	CI4W.2 ACI4W.2 EPCI4W.2	CI4W.5 ACI4W.5 EPCI4W.5	<ul> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-5)</li> </ul>
Replacement valve Replacement rotor	DCI4W.06 SSACI4W.06	DCI4W.1 SSACI4W.1	DCI4W.2 SSACI4W.2	DCI4W.5 SSACI4W.5	
					<ul> <li>1/32" fittings with 0.25 mm bore (.010") also available. Consult factory for product number and pricing.</li> </ul>

W Type 1/16" fittings

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

5,000 psi Micro Internal sample 1/16" 0.75 mm	oelectric actuator: 24 \	/DC, with 110/230 VAC t	o 24 VDC power supply	(or a)	SPECS 5000 psi liq 75°C max Nitronic 60 valve body Valcon H rotor
Sample volume	<b>.2 μΙ</b> Prod No	<b>.5 μl</b> Prod No	<b>1 μl</b> Prod No	<b>2 μl</b> Prod No	OPTIONS 2", 3", 4", and 6" standoffs
Manual with 2" standoff	2CI4UW.2	2CI4UW.5	2CI4UW1	2CI4UW2	<ul> <li>Materials: Hastelloy C,</li> </ul>
With air actuator	ACI4UW.2	ACI4UW.5	ACI4UW1	ACI4UW2	Inconel 600, Monel 400,
With microelectric actuator	EDCI4UW.2	EDCI4UW.5	EDCI4UW1	EDCI4UW2	Nickel 200, Nitronic 50, Titanium, Zirconium (see pages 254-5)
Replacement valve	DCI4UW.2	DCI4UW.5	DCI4UW1	DCI4UW2	
Replacement rotor	SSACI4UW.2	SSACI4UW.5	SSACI4UW1	SSACI4UW2	
					<ul> <li>1/32" fittings with</li> <li>0.25 mm bore (.010")</li> </ul>



## UW Type

- 0,
- also available. Consult factory for product number and pricing.

NOTE

These valves are not available in manual closemount version.

UW Type 1/16" fittings

njectors and switchi	ing valves, 1/16" fittings,	0.40 mm ports	(.016")	W Туре	
<b>SPECS</b> 5000 psi liq 75°C max Nitronic 60 valve body Valcon H rotor	Microelectric actuator: 24 VDC, wi Sample loops are not included wi				5,000 psi Analytical 1/16" 0.40 mm
<ul><li>OPTIONS</li><li>3 and 12 port valves available</li></ul>		( )		(Poo)	le and le
2", 3", 4", and 6" standoffs		<b>4 Ports</b> Prod No	<b>6 Ports</b> Prod No	<b>8 Ports</b> Prod No	<b>10 Ports</b> Prod No
<ul> <li>1/32" and 1/16" versions available with 0.25 mm (.010") bore</li> </ul>	Manual With air actuator With microelectric actuator	C4W AC4W EPC4W	C6W AC6W EPC6W	C8W AC8W EPC8W	C10W AC10W EPC10W
<ul> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium, Zirconium</li> </ul>	Replacement valve Replacement rotor	DC4W SSAC4W	DC6W SSAC6W	DC8W SSAC8W	DC10W SSAC10W



W Type 1/16" fittings

#### OPTIONAL FLOWPATH

Model C6W 6 port valves can also be ordered with a dual 3-way rotor, as described in EPA Method 555.

(see pages 254-5)

To specify this flowpath, substitute "2X3" for "6" in the valve or rotor product number.



#### MORE INFORMATION Actuators

/	
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Manual	.204
Microelectric1	90-1
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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 > 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.

## 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	Volume	Prod No
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



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

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

гргер	
0.75 mm	

	4 Ports
	Prod No
Manual with 2" standoff	2C4UW
With air actuator	AC4UW
With microelectric actuator	EDC4UW
Replacement valve	DC4UW
Replacement rotor	SSAC4UW

6 Ports

Prod No 2C6UW AC6UW EDC6UW DC6UW SSAC6UW



2C8UW AC8UW EDC8UW DC8UW SSAC8UW



10 Ports

Prod No

2C10UW

AC10UW

EDC10UW

DC10UW

SSAC10UW

## SPECS

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

#### **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 254-5)
- Larger bore available.

#### NOTE

These valves are not available in manual closemount version.



UW Type 1/16" fittings

#### 1/16" Stainless steel loops

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



Volume	Prod No	Volume	Prod No
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

116 VICI AG International Sales: + 41-41-925-6200 Fax: + 41-41-925-6201 www.vici.com

#### **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.
- 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.

#### Injectors and switching valves, 1/8" fittings, 0.75 mm (.030") UW Type **SPECS** Manual 10 port includes 2" standoff. 5,000 psi 5000 psi liq Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply 75°C max Sample loops are not included with valves. Order separately. Semi-prep Nitronic 60 valve body 0.75 mm 1/8" Valcon H rotor **OPTIONS** 3 and 12 port valves available 10 Ports 4 Ports 6 Ports 8 Ports ■ 2", 3", 4", and 6" Prod No Prod No Prod No Prod No standoffs Materials: Hastelloy C, Manual with 2" standoff 24UW 26UW 28UW 210UW Inconel 600, Monel 400, With air actuator A4UW A6UW A8UW A10UW ED4UW ED8UW Nickel 200, Nitronic 50, With microelectric actuator ED6UW ED10UW Titanium, Zirconium D4UW D6UW D8UW D10UW Replacement valve (see pages 254-5) Replacement rotor SSA4UW SSA6UW SSA8UW SSA10UW Larger bore available. (see page 118)

#### NOTE

These valves are not available in manual closemount version.

#### **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.
- 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

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UW Type 1/8" fittings

### 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	Volume	Prod No
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 100 μl	SL50UW SL100UW	5 ml 10 ml 20 ml	SL5KUW SL10KUW SL20KUW

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

4 Ports

1.7 mm (.067")

Prod No

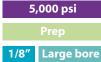
2L4UW

AL4UW

EDL4UW

DL4UW

SSAL4UW



Manual 10 port includes 2" standoff. Microelectric actuator: 24 VDC, with 110/230 VAC to 24 VDC power supply. Sample loops are not included with valves. Order separately.



Manual with 2" standoff

With microelectric actuator

With air actuator

Replacement valve

Replacement rotor



Prod No

2L6UW

AL6UW

EDL6UW

DL6UW

SSAL6UW



SSAL8UW

2L8UW AL8UW EDL8UW DL8UW

DL10UW SSAL10UW

10 Ports

1.0 mm (.040")

Prod No

2L10UW

AL10UW

EDL10UW

## SPECS

UW Type

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

#### **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 254-5)
- Smaller bore available. (see page 117)

#### NOTE

These valves are not available in manual closemount version.



UW Type 1/8" fittings

#### 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.

Prod No	Volume	Prod No
SL100UW	2 ml	SL2KUW
SL250UW	5 ml	SL5KUW
SL500UW	10 ml	SL10KUW
SL1KUW	20 ml	SL20KUW
	SL100UW SL250UW SL500UW	SL100UW         2 ml           SL250UW         5 ml           SL500UW         10 ml



#### **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..
- 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

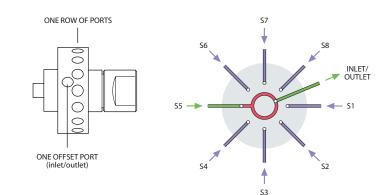
(cluators
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Ν

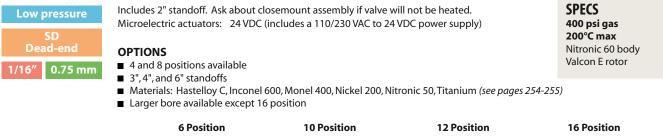
S

## Dead-end flowpath – SD configuration

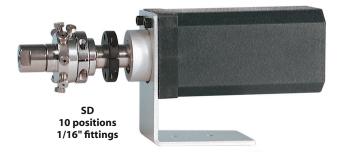
SD valves select one of 4 to 12 dead-ended streams. The selected stream flows from the outlet to a sample valve, pressure sensor, detector, column, etc. The same flowpath can also be used to direct one stream to a number of outlets in applications such as fraction collection. For an application suggestion, see page 136.



#### 1/16" fittings, 0.75 mm ports (.030")



	6 Position	10 Position	12 Position	16 Position	
	Prod No	Prod No	Prod No	Prod No	
Manual (not recommended)	2CSD6MWE	2CSD10MWE	2CSD12MWE	2CSD16MWE	
W ith air actuator	A2CSD6MWE	A2CSD10MWE	A2CSD12MWE	A2CSD16MWE	
With microelectric actuator	EMT2CSD6MWE	EMT2CSD10MWE	EMT2CSD12MWE	EMT2CSD16MWE	
Replacement valve	DCSD6MWE	DCSD10MWE	DCSD12MWE	DCSD16MWE	
Replacement rotor	SSACSD6MWE	SSACSD10MWE	SSACSD12MWE	SSACSD16MWE	



#### 

## 1/8" fittings, 1.0 mm ports (.040")

1/8" fittings, 1.0 mm	ports (.040")			МѠ Туре
SPECS 4-8 Positions: 400 psi gas 200°C max 10-16 Positions: 200 psi gas 200°C max Nitronic 60 body Valcon E rotor	Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply) OPTIONS 4 and 8 positions available 3", 4", and 6" standoffs Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-22) Larger bore available			Low pressure SD Dead-end 1/8" 1.0 mm e pages 254-255)
	6 Position Prod No	<b>10 Position</b> Prod No	<b>12 Position</b> Prod No	<b>16 Position</b> Prod No
Manual (not recommended) With air actuator With microelectric actuator Replacement valve	2SD6MWE A2SD6MWE EMT2SD6MWE DSD6MWE	2SD10MWE A2SD10MWE EMT2SD10MWE DSD10MWE	2SD12MWE A2SD12MWE EMT2SD12MWE DSD12MWE	2SD16MWE A2SD16MWE EMT2SD16MWE DSD16MWE
Replacement rotor	SSASD6MWE	SSASD10MWE	SSASD12MWE	SSASD16MWE

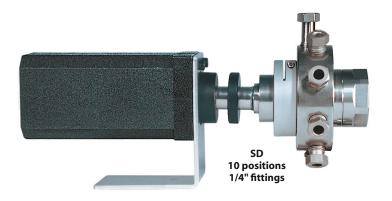
## 1/4" fittings, 4.0 mm ports (.156")

### MW Type

SPECS	Includes 2" standoff. Ask about closemount assembly if valve will not be heated.	Low pressure
100 psi gas	Manual version not available.	
75°C max	Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)	SD
Nitronic 60 body		Dead-end
Valcon E2 rotor	OPTIONS	1/4″ 4.0 mm

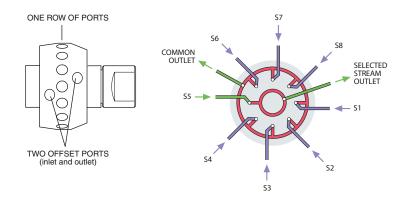
3", 4", and 6" standoffs
Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)

	<b>4 Position</b>	<b>6 Position</b>	<b>8 Position</b>	<b>10 Position</b>
	Prod No	Prod No	Prod No	Prod No
With air actuator	AH2VLSD4MWE2	AH2VLSD6MWE2	AH2VLSD8MWE2	AH2VLSD10MWE2
With microelectric actuator	EMT2VLSD4MWE2	EMT2VLSD6MWE2	EMT2VLSD8MWE2	EMT2VLSD10MWE2
Replacement valve	DVLSD4MWE2	DVLSD6MWE2	DVLSD8MWE2	DVLSD10MWE2
Replacement rotor	SSAVLSD4MWE2	SSAVLSD6MWE2	SSAVLSD8MWE2	SSAVLSD10MWE2



## Common outlet flowpath – SC configuration

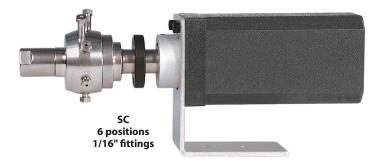
SC selectors are similar to the SD configuration, except that instead of being dead-ended the non-selected streams flow to a common outlet. For an application suggestion, see page 137.



## 1/16" fittings, 1.0 mm ports (.040")

Low pressure	Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)	SPECS
SC Common outlet	OPTIONS	200 psi gas 200°C max Nitronic 60 body
1/16″ 1.0 mm	<ul> <li>4 and 8 positions available</li> <li>3", 4", and 6" standoffs</li> </ul>	Valcon E rotor
	<ul> <li>S, 4, and 6 standors</li> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-25)</li> </ul>	5)

	<b>6 Position</b>	<b>10 Position</b>	<b>12 Position</b>	<b>16 Position</b>
	Prod No	Prod No	Prod No	Prod No
Manual (not recommended)	2CSC6MWE	2CSC10MWE	2CSC12MWE	2CSC16MWE
With air actuator	AH2CSC6MWE	A2CSC10MWE	A2CSC12MWE	A2CSC16MWE
With microelectric actuator	EMT2CSC6MWE	EMT2CSC10MWE	EMT2CSC12MWE	EMT2CSC16MWE
Replacement valve	DCSC6MWE	DCSC10MWE	DCSC12MWE	DCSC16MWE
Replacement rotor	SSACSC6MWE	SSACSC10MWE	SSACSC12MWE	SSACSC16MWE
Replacement lotor	JJACJCONIVL	SSACSCIONWE	SSACSCIZIVIVL	JJACJCTOWIWL



#### MORE INFORMATION Application.... page 137 Actuators Air .....196 Microelectric ....192 Universal ....193 Materials Metals.....254-255 Polymers ....256 Valve rotors....257 Mounting hardware Closemount ....208 Standoff....205

MW Type

## 1/8" fittings, 1.0 mm ports (.040")

<u>., e</u>	p = 10 (10 10 )			
SPECS 200 psi gas 200°C max Nitronic 60 body		about closemount assembly i 24 VDC (includes a 110/230 VA		Low pressure SC Common outlet
Valcon E rotor	4 and 8 positions avail	lable		1/8″ 1.0 mm
	<ul> <li>Materials: Hastendy C,</li> <li>Larger bore available of</li> <li>6 Position</li> <li>Prod No</li> </ul>		el 200, Nitronic 50, Titanium <i>(se</i> <b>12 Position</b> Prod No	<b>16 Position</b> Prod No
	2SC6MWE			
Manual (not recommended) With air actuator		2SC10MWE	2SC12MWE A2SC12MWE	2SC16MWE A2SC16MWE
	AH2SC6MWE	A2SC10MWE		
With microelectric actuator	EMT2SC6MWE	EMT2SC10MWE	EMT2SC12MWE	EMT2SC16MWE
Replacement valve	DSC6MWE	DSC10MWE	DSC12MWE	DSC16MWE
Replacement rotor	SSASC6MWE	SSASC10MWE	SSASC12MWE	SSASC16MWE

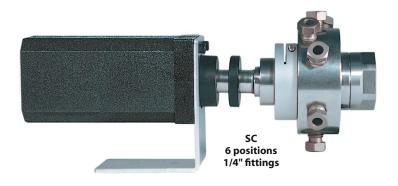
## 1/4" fittings, 4.0 mm ports (.156")

#### MW Type

SPECS 100 psi gas	Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Manual version not available.	Low pressure
75°C max	Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)	SC Common outlet
Nitronic 60 body Valcon E2 rotor	OPTIONS 3", 4", and 6" standoffs	1/4" 4.0 mm

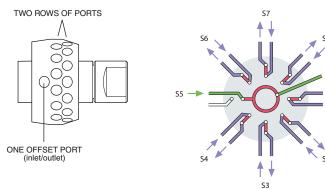
■ Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)

	<b>4 Position</b>	<b>6 Position</b>	<b>8 Position</b>
	Prod No	Prod No	Prod No
With air actuator	AH2VLSC4MWE2	AH2VLSC6MWE2	AH2VLSC8MWE2
With microelectric actuator	EMT2VLSC4MWE2	EMT2VLSC6MWE2	EMT2VLSC8MWE2
Replacement valve	DVLSC4MWE2	DVLSC6MWE2	DVLSC8MWE2
Replacement rotor	SSAVLSC4MWE2	SSAVLSC6MWE2	SSAVLSC8MWE2



## Flow-through flowpath – SF configuration

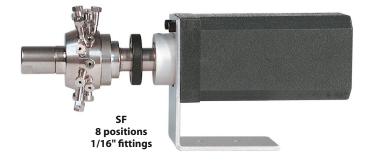
SD and SC valves select and isolate one of 4 to 16 streams, with the remainder dead-ended in the SD and flowing to a common outlet in the SC. The SF selector is similar, but carries the evolution a step further with the non-selected streams flowing through individual outlets. For an application suggestion, see page 138.



## 1/16" fittings, 1.0 mm ports (.040")

Low pressure	Includes 2" standoff. Ask about closemount assembly if valve will not be heated.	SPECS
SF Flow-through 1/16" 1.0 mm	Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply) OPTIONS  And 8 positions available Output to the set of the set	<b>200 psi gas</b> <b>200°C max</b> Nitronic 60 body Valcon E rotor
	<ul> <li>3", 4", and 6" standoffs</li> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-25)</li> </ul>	5)

	<b>6 Position</b> Prod No	<b>10 Position</b> Prod No	<b>12 Position</b> Prod No	<b>16 Position</b> Prod No
Manual (not recommended)	2CSF6MWE	2CSF10MWE	2CSF12MWE	2CSF16MWE
With air actuator	AH2CSF6MWE	A2CSF10MWE	A2CSF12MWE	A2CSF16MWE
With microelectric actuator	EMT2CSF6MWE	EMT2CSF10MWE	EMT2CSF12MWE	EMT2CSF16MWE
Replacement valve	DCSF6MWE	DCSF10MWE	DCSF12MWE	DCSF16MWE
Replacement rotor	SSACSF6MWE	SSACSF10MWE	SSACSF12MWE	SSACSF16MWE



#### 

**MORE INFORMATION** 

SELECTED STREAM OUTLET

**S**1

Universal	193
Materials	
Metals	254-255
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Valve rotors	257
Mounting hardwa	are
Closemount	208
Standoff	205

MW Type

## 1/8" fittings, 1.0 mm ports (.040")

<u> </u>				
<b>SPECS</b> 200 psi gas 200°C max Nitronic 60 body Valcon E rotor		about closemount assembly i 24 VDC (includes a 110/230 VA able		Low pressure SF Flow-through
	<ul> <li>3", 4", and 6" standoffs</li> </ul>			1/8″ 1.0 mm
	<ul> <li>Materials: Hastelloy C,</li> <li>Larger bore available e</li> <li>6 Position</li> <li>Prod No</li> </ul>		el 200, Nitronic 50, Titanium (se <b>12 Position</b> Prod No	e pages 254-255) <b>16 Position</b> Prod No
Manual (not recommended)	2SF6MWE	2SF10MWE	2SF12MWE	2SF16MWE
With air actuator	AH2SF6MWE	A2SF10MWE	A2SF12MWE	A2SF16MWE
With microelectric actuator	EMT2SF6MWE	EMT2SF10MWE	EMT2SF12MWE	EMT2SF16MWE
Replacement valve	DSF6MWE	DSF10MWE	DSF12MWE	DSF16MWE
Replacement rotor	SSASF6MWE	SSASF10MWE	SSASF12MWE	SSASF16MWE

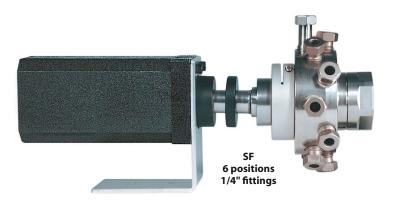
## 1/4" fittings, 4.0 mm ports (.156")

### MW Type

SPECS	Includes 2" standoff. Ask about closemount assembly if valve will not be heated.	Low pressure
100 psi gas	Manual version is not available.	
75°C max	Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)	SF
Nitronic 60 body		Flow-through
Valcon E2 rotor		1/4″ 4.0 mm

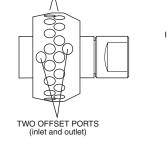
3", 4", and 6" standoffs
Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)

	<b>4 Position</b>	<b>6 Position</b>	<b>8 Position</b>
	Prod No	Prod No	Prod No
With air actuator	AH2VLSF4MWE2	AH2VLSF6MWE2	AH2VLSF8MWE2
With microelectric actuator	EMT2VLSF4MWE2	EMT2VLSF6MWE2	EMT2VLSF8MWE2
Replacement valve	DVLSF4MWE2	DVLSF6MWE2	DVLSF8MWE2
Replacement rotor	SSAVLSF4MWE2	SSAVLSF6MWE2	SSAVLSF8MWE2

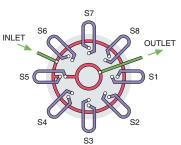


## Trapping flowpath – ST configuration

ST selectors are used for multi-column, multi-sample, or multi-trap operations, and are available for use with 4 to 16 loops, or positions. For an application suggestion, see page 139.



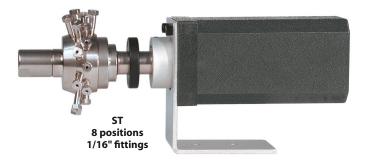
TWO ROWS OF PORTS



## 1/16" fittings, 0.75 mm ports (.030")

Low pressure	Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)	SPECS 200 psi gas
ST Trapping	OPTIONS	<b>200°C max</b> Nitronic 60 body
1/16″ 0.75 mm	<ul> <li>4 and 8 positions available</li> <li>3",4", and 6" standoffs</li> </ul>	Valcon E rotor
	<ul> <li>S , 4 , and 6 standors</li> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)</li> </ul>	5)

	<b>6 Position</b>	<b>10 Position</b>	<b>12 Position</b>	<b>16 Position</b>
	Prod No	Prod No	Prod No	Prod No
Manual (not recommended)	2CST6MWE	2CST10MWE	2CST12MWE	2CST16MWE
With air actuator	AH2CST6MWE	A2CST10MWE	A2CST12MWE	A2CST16MWE
With microelectric actuator	EMT2CST6MWE	EMT2CST10MWE	EMT2CST12MWE	EMT2CST16MWE
Replacement valve	DCST6MWE	DCST10MWE	DCST12MWE	DCST16MWE
Replacement rotor	SSACST6MWE	SSACST10MWE	SSACST12MWE	SSACST16MWE



#### 1/16" Stainless steel loops

for MW Type valves

Each stainless steel loop includes two stainless nuts and two stainless ferrules. Order special fittings separately. **Request matched loops when loops will be installed on a single valve.** 

Volume	Prod No	Volume	Prod No	K
50 μl	SL50CSTP	1 ml	SL1KCSTP	
100 μl	SL100CSTP	2 ml	SL2KCSTP	
250 μl	SL250CSTP	5 ml	SL5KCSTP	
500 μl	SL500CSTP	10 ml	SL10KCSTP	

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### 1/8" fittings, 1.0 mm ports (.040")

SPECS 200 psi gas 200°C max Nitronic 60 body Valcon E rotor Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)

OPTIONS

4 and 8 positions available

■ 3", 4", and 6" standoffs

■ Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)

Larger bore available except 16 position

	<b>6 Position</b>	<b>10 Position</b>	<b>12 Position</b>	<b>16 Position</b>
	Prod No	Prod No	Prod No	Prod No
Manual (not recommended)	2ST6MWE	2ST10MWE	2ST12MWE	2ST16MWE
With air actuator	AH2ST6MWE	A2ST10MWE	A2ST12MWE	A2ST16MWE
With microelectric actuator	EMT2ST6MWE	EMT2ST10MWE	EMT2ST12MWE	EMT2ST16MWE
Replacement valve	DST6MWE	DST10MWE	DST12MWE	DST16MWE
Replacement rotor	SSAST6MWE	SSAST10MWE	SSAST12MWE	SSAST16MWE

#### **ABOUT LOOPS**

- Other materials are available in many sizes: Electroformed Nickel, Hastelloy C, Nickel 200, PEEK, PTFE, and Titanium
- 1/16" loops > 2 ml are made from 1/8" OD tubing with brazed or welded 1/16" tube ends or reducing unions.
- 1/8" loops < 100 µl are made from 1/16" OD tubing with brazed or welded 1/8" tube ends.
- 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.



#### 1/8" Stainless steel loops

#### for MW Type valves

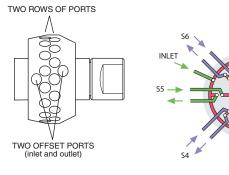
Each stainless steel loop includes two stainless nuts and two stainless ferrules. Order special fittings separately. **Request matched loops when loops will be installed on a single valve.** 

Volume	Prod No	Volume	Prod No
100 μl 250 μl	SL100STP SL250STP	1 ml 2 ml	SL1KSTP SL2KSTP
500 µl	SL500STP	5 ml 10 ml	SL5KSTP SL10KSTP

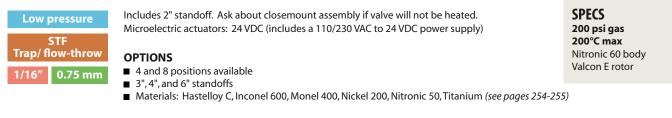
LOW	pressure
	ST
Tra	pping
1/8″	1.0 mm

## Trapping/flow-through flowpath – STF configuration

The STF selector is a variation of the ST flowpath, with the single difference that the non-selected streams are returned to their own vents or sources rather than being dead-ended or trapped as they are in the standard ST configuration. For an application suggestion, see page 140.



## 1/16" fittings, 0.75 mm ports (.030")



	<b>6 Position</b>	<b>10 Position</b>	<b>12 Position</b>	<b>16 Position</b>
	Prod No	Prod No	Prod No	Prod No
Manual (not recommended)	2CSTF6MWE	2CSTF10MWE	2CSTF12MWE	2CSTF16MWE
With air actuator	AH2CSTF6MWE	A2CSTF10MWE	A2CSTF12MWE	A2CSTF16MWE
With microelectric actuator	EMT2CSTF6MWE	EMT2CSTF10MWE	EMT2CSTF12MWE	EMT2CSTF16MWE
Replacement valve	DCSTF6MWE	DCSTF10MWE	DCSTF12MWE	DCSTF16MWE
Replacement rotor	SSACSTF6MWE	SSACSTF10MWE	SSACSTF12MWE	SSACSTF16MWE

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OUTLET

\$2

**MW** Type

S3

Closemount .......208 Standoff............205

## 1/8" fittings, 1.0 mm ports (.040")

SPECS 200 psi gas 200°C max Nitronic 60 body Valcon E rotor

Includes 2" standoff. Ask about closemount assembly if valve will not be heated. Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)

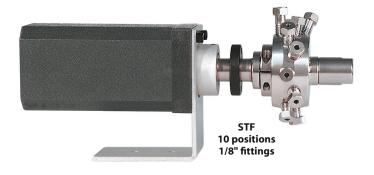
OPTIONS

4 and 8 positions available
3", 4", and 6" standoffs

■ Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see pages 254-255)

Larger bore available except 16 position

	<b>6 Position</b> Prod No	<b>10 Position</b> Prod No	<b>12 Position</b> Prod No	<b>16 Position</b> Prod No
Manual (not recommended)	2STF6MWE	2STF10MWE	2STF12MWE	2STF16MWE
With air actuator	AH2STF6MWE	A2STF10MWE	A2STF12MWE	A2STF16MWE
With microelectric actuator	EMT2STF6MWE	EMT2STF10MWE	EMT2STF12MWE	EMT2STF16MWE
Replacement valve	DSTF6MWE	DSTF10MWE	DSTF12MWE	DSTF16MWE
Replacement rotor	SSASTF6MWE	SSASTF10MWE	SSASTF12MWE	SSASTF16MWE



## MW Type

1.0 mm

Low pressure

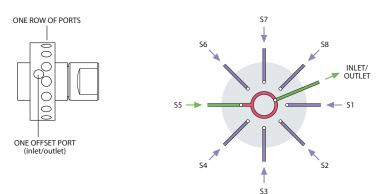
STF

Trap/ flow-throw

1/8"

# Dead-end flowpath – SD configuration

SD valves select one of 4 to 12 dead-ended streams. The selected stream flows from the valve outlet to a sample valve, pressure sensor, detector, column, etc. This configuration may also be used to direct one stream to a number of outlets for applications such as fraction collection. For an application suggestion, see page 141.



UW Type

UW Type

## 1/16" fittings, 0.4 mm ports (.016")

5,000 psi	Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)			SPECS 5000 psi liq
SD Dead-end 1/16" 0.40 mm	OPTIONS 8 and 12 positions avai 2", 3", 4", and 6" standod	<b>75°C max</b> Nitronic 60 body Valcon E rotor		
<ul> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see p. 254-255)</li> <li>Low pressure, high temperature versions available</li> <li>Larger bore available except 10 and 12 positions</li> </ul>				
	Prod No	Prod No	Prod No	
Manual (not recommen With air actuator With microelectric actua	ACSD4UW	CSD6UW ACSD6UW EMTCSD6UW	CSD10UW ACSD10UW EMTCSD10UW	
Replacement valve Replacement rotor	DCSD4UW SSACSD4UW	DCSD6UW SSACSD6UW	DCSD10UW SSACSD10UW	

## 1/8" fittings, 0.75 mm ports (.030")

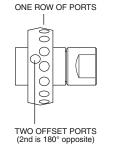
				/\
SD OP Dead-end 2 1/8" 0.75 mm	<ul> <li>Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply)</li> <li>OPTIONS <ul> <li>2", 3", 4", and 6" standoffs</li> <li>Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see p. 254-255)</li> <li>Low pressure, high temperature versions available</li> </ul> </li> </ul>			SPECS 5000 psi liq 75°C max Nitronic 60 body Valcon E rotor
	Low pressure, high temperatu Larger bore available except 8			
	4 Position	6 Position	8 Position	
	Prod No	Prod No	Prod No	54
Manual (not recommended)	SD4UW	SD6UW	SD8UW	The second second
With air actuator	ASD4UW	ASD6UW	ASD8UW	
With microelectric actuator	EMTSD4UW	EMTSD6UW	EMTSD8UW	
Replacement valve	DSD4UW	DSD6UW	DSD8UW	
Replacement rotor	SSASD4UW	SSASD6UW	SSASD8UW	A A

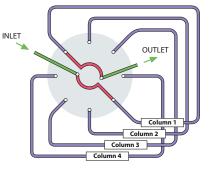
SD 6 positions 1/8" fittings

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## Both column ends selected – ST configuration

ST selectors are used for multi-column, multi-sample, or multitrap operations. This valve can be used between an injector and detector to permit manual or automated HPLC column selection. For an application suggestion, see page 141.





## 1/16" fittings, 0.4 mm ports (.016")

SPECS 5000 psi liq 75°C max Nitronic 60 body Valcon E rotor

Microelectric actuators: 24 VDC (includes a 110/230 VAC to 24 VDC power supply).
OPTIONS

■ 2", 3", 4", and 6" standoffs

**4 Columns or Loops** 

Prod No

Manual versions are not available.

- Materials: Hastelloy C, Inconel 600, Monel 400, Nickel 200, Nitronic 50, Titanium (see p. 254-255)
- Low pressure, high temperature versions available. (Consult factory.)

With air actuator With microelectric actuator

Replacement valve Replacement rotor ACST4UW EMTCST4UW DCST4UW SSACST4UW 6 Columns or Loops Prod No ACST6UW EMTCST6UW

> DCST6UW SSACST6UW



4 position 1/16" fittings

#### **ABOUT LOOPS**

- Other materials are 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.
- 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.



#### 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. **Request matched loops when loops will be installed on a single valve.** 

Volume	Prod No	Volume	Prod No
10 µl	SL10CSTUW	250 μl	SL250CSTUW
15 µl	SL15CSTUW	500 μl	SL500CSTUW
20 µl	SL20CSTUW	1 ml	SL1KCSTUW
25 µl	SL25CSTUW	2 ml	SL2KCSTUW
50 µl	SL50CSTUW	5 ml	SL5KCSTUW
100 µl	SL100CSTUW	10 ml	SL10KCSTUW

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0.40 mm

5,000 psi

1/16'