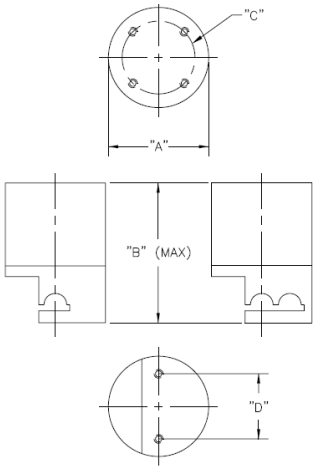
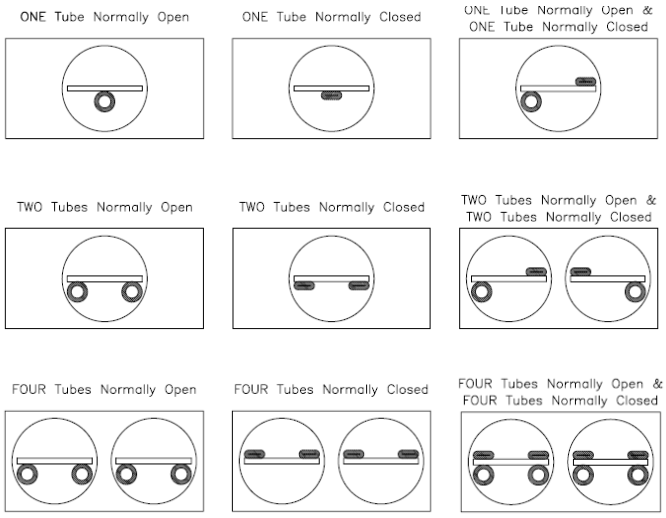
SV23

Normally Closed, Normally Open & Close-Open Pinch Valves
1, 2, 4 or 8 Tube Constructions

Valcor Engineering Corporation





DESCRIPTION

The SV23 series miniature pinch valves provide the ultimate high purity isolation of the media from the valve mechanism by pinching the silicone tubing that is typically part of the instrument's fluid handling system, to shut off flow. There is no possibility of the media coming into contact with the valve mechanism, or leaking externally. Available in single or multiple tube configurations, they are normally closed or normally open. Pairing a normally closed and a normally open tube set allows for diverter or selector operation. These valves are direct acting, and do not require system pressure to operate. Their compact size, low weight and low power coils allow these valves to be used portable and benchtop instruments.

APPLICATION

The SV23 are designed for analytical and medical instruments requiring the total isolation of the media from the valve mechanism. Applications include: blood analyzers and packaging equipment, analytical and medical instruments and equipment, clinical instruments, and reagent and diluent dispensers

FEATURES

- Tubing sizes from 1/32" to 3/16" ID silicone
- One to eight tube designs available
- Low power consumption is ideal for portable battery powered instruments
- 30 PSIG maximum pressure
- Easy tubing insertion and removal
- 12 and 24 VDC coils rated for continuous duty
- Convenient panel mounting holes in solenoid
- Mountable in any orientation
- Fully customizable for your application

Custom designs are our specialty. Contact us today to see how we can help on your next project.

Valcor Engineering Corporation
2 Lawrence Road | Springfield, NJ 07081
(973) 467-8400 | scientific@valcor.com
www.valcor.com

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Valve Parts in Contact with Fluid

Tubing	Dow Corning medical grade silicon

Dimensions

Model	A	B (Max.)	C	D	Hole Thread
SV23A	0.75"	1.15"	0.5"	0.3536*	2-56
SV23B	1.0"	1.8"	0.687"	0.687"	4-40
SV23C	1.25"	2.25"	0.875"	0.875"	4-40
SV23D	1.5"	2.6"	1.125"	1.125"	4-40

* This dimension is not on the center line as shown in the drawing.

Specifications

Series	Voltage	Configuration	# of Tubes	Tube P/N	ID	OD	Max. Pressure	Wattage
1 or 2 Tube Pinch Valve - Normally Closed (NC), Closed-Open (CO)								
SV23A	12/DC or 24 D/C	NC or NO	1	-01	1/32"	1/16"	30	1
		NO	1	-11	1/32"	3/32"	30	1
		CO	2	-01	1/32"	1/16"	30	1
SV23B	12/DC or 24 D/C	NC or NO	1 or 2	-11	1/32"	3/32"	30	1.5
		NC or NO	1 or 2	-21	1/16"	1/8"	30	1.5
		CO	2	-11	1/32"	3/32"	30	1.5
		CO	2	-21	1/16"	1/8"	30	1.5
SV23C	12/DC or 24 D/C	NC or NO	1 or 2	-22	1/16"	3/16"	30	4.2
		NC or NO	1	-42	1/8"	1/4"	20	4.2
		CO	2	-22	1/16"	3/16"	30	4.2
		CO	2	-42	1/8"	1/4"	20	4.2
SV23D	12/DC or 24 D/C	NC or NO	2	-42	1/8"	1/4"	20	7.2
		NC or NO	1	-62	3/16"	5/16"	20	7.2
		NC or NO	1	-82	1/4"	3/8"	20	7.2
		CO	2	-62	3/16"	5/16"	20	7.2
4 or 8 Tube Pinch Valve - Normally Closed (NC), Normally Open (NO), Closed-Open (CO)								
SV23B	12/DC or 24 D/C	CO	4 or 8	-11	1/32"	3/32"	30	1.5
SV23C	12/DC or 24 D/C	NC or NO	4	-11	1/32"	3/32"	30	4.2
		NC or NO	4	-21	1/16"	1/8"	30	4.2
		CO	4 or 8	-11	1/32"	3/32"	30	4.2
		CO	4 or 8	-21	1/16"	1/8"	30	4.2
		CO	4	-22	1/16"	3/16"	30	4.2
SV23D	12/DC or 24 D/C	NC	4	-42	1/8"	1/4"	30	7.2
		CO	4 or 8	-42	1/8"	1/4"	30	7.2

Alternate voltage of 115/50-60 Hz available. Consult factory.
Valves come with 12" length of medical grade silicon tubing. Other lengths available.
CO configuration is 3-way, meaning 1 tube is closed and 1 tube is open.

How To Specify Part Numbers

Series	Voltage	Configuration	# of Tubes	Tube Size
SV23B	24	N	1	-11
SV23C	12	CO	8	-11

Example: SV23B24NC1-11 = (one 1/32" ID x 3/32" OD tube, normally closed, 24/DC voltage)
SV23C12CO8-11 = (eight 1/32" ID x 3/32" OD tubes, 4 NC & 4 NO, 12/DC voltage)