Mini Solenoid and Binary Valves

General Purpose 2 & 3-Way Mini Solenoid Valves

MB25-3USC

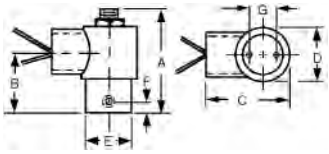
Dyna-Coil valves are used when you need to convert an electrical signal into a flow of air. 2-way models allow air to flow through the valve when energized. 3-way models allow air to flow through the valve when energized and exhaust when de-energized.

Normally closed means inlet air is blocked until the valve is energized. Normally open means inlet air flows through the valve and is blocked when energized.

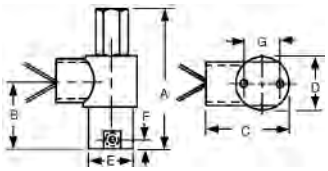
General Specifications	
Media:	Air / Max temperature 185˚ F
Pressure:	Vacuum to 120 PSI
Orifice:	0.038″
Conduit:	1/2″ NPS
Response:	20-30 ms
Base:	Aluminum
Mounting Holes(2):	8-32 UNC-2B threads
Lubrication:	None Required
Filtration:	40 Micron Minimum

Basic Dimensions

1/8″ and 1/4″ CSC Models

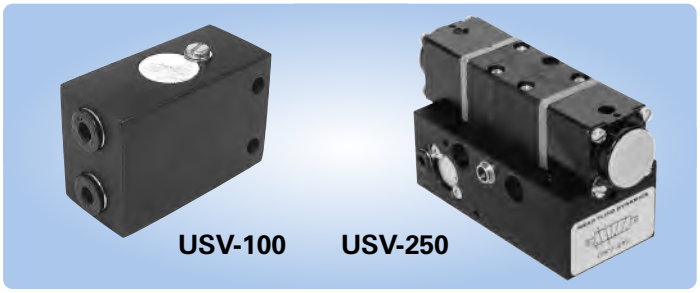


1/8″ and 1/4″ USC Models

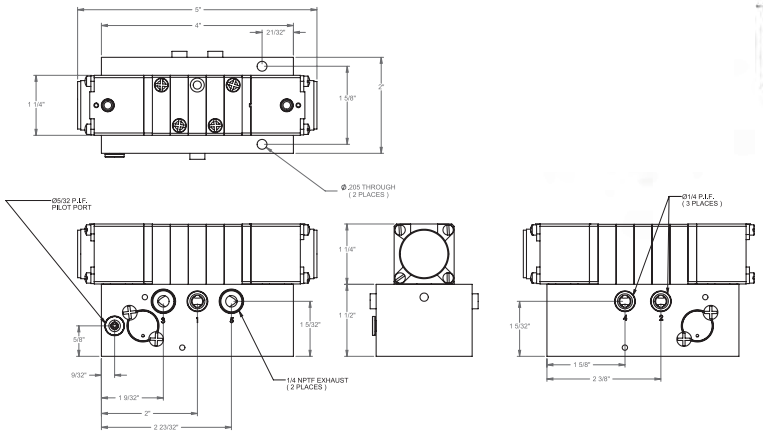


Model	Ports	Style	Exhaust	Voltage	Cv (In)	Cv (Exh)	A	B	C	D	E	F	G
MB12-2CSC	1/8″ NPT	2-Way NC	None	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	-	2 5/16	1 3/8	1 27/32	1 3/16	1	9/32	.738
MB25-2CSC	1/4″ NPT	2-Way NC	None	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	-	2 3/8	1 1/2	1 27/32	1 3/16	1 3/16	5/16	29/32
MB12-3CSC	1/8″ NPT	3-Way NC	Free to Atmos.	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	.050	2 5/16	1 3/8	1 27/32	1 3/16	1	9/32	.738
MB12-3USC*	1/8″ NPT	3-Way NC, NO	Piped	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	.050	2 23/32	1 3/8	1 27/32	1 3/16	1	9/32	.738
MB25-3CSC	1/4″ NPT	3-Way NC	Free to Atmos.	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	.050	2 3/8	1 1/2	1 27/32	1 3/16	1 3/16	5/16	29/32
MB25-3USC*	1/4″ NPT	3-Way NC,NO	Piped	24 VAC,120 VAC, 240 VAC, 12 VDC, 24 VDC	.035	.050	2 27/32	1 1/2	1 27/32	1 3/16	1 3/16	5/16	29/32

* Valve can be piped either normally closed (NC) or normally open (NO) Note: All models consume 7 watts of power. Lead wires measure 16″ in length



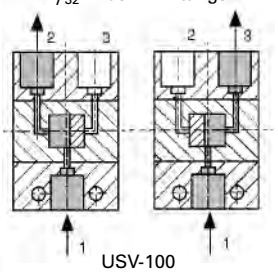
USV-100 USV-250



Binary Valves

The USV-100 provides alternating outputs from a single input port. The valve has two outputs which are selected alternately by applying a pulsing, on-off air signal to the input port. USV-100 will not function properly with a sustained signal.

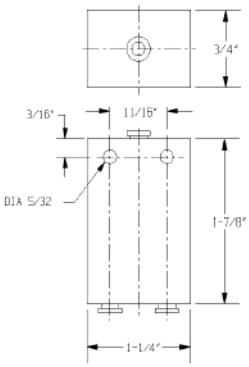
5/32″ Push-In Fittings



USV-100

When pressure is applied to port 1, it flows through the valve to provide an output at port 2. When the pressure is released from port 1, the valve changes over so that when pressure is next applied at port 1, air flows out through port 3. Release of the pressure again changes the valve back to its original position. Therefore, each time pressure is applied and released to port 1, outputs 2 and 3 change over. **Note:** The air signal must be fully exhausted to enable the valve to change over properly.

USV-100 Dimensions



Power models (USV-250) provide the same binary function as the 100 model but, in addition, offer full 4-way control power. They are suitable for direct connection to double-acting air cylinders. The USV-250 features a positive feed back from the outputs, eliminating incorrect sequential operation caused by poor signal performance.

Technical Specification	100 Model	250 Model
Operating Pressure	35-100PSI	35-100PSI
Flow to atmosphere	4 SCFM @ 100 PSI	36.9 SCFM @ 100 PSI
Permissible Mediums	Air and Inert Gas	Air and Inert Gas
Ambient Temp. Range	10°F to 120°F	10°F to 120°F
Lubrication	Recommended	Not necessary
Flow		C_V = 0.75