

NIV SERIES MEDIA ISOLATION VALVES

2-WAY & 3-WAY N.O. & N.C. PTFE VALVES



The Clippard NIV series media isolation valve is a solenoid-operated device that uses a flexible diaphragm to isolate the actuation mechanism from the fluid path. Media isolation valves are commonly used for a wide variety of applications, including those that require precise, repeatable dispensing of media for analytical instrumentation. All wetted areas of the valve are PTFE, making this series ideal for use with corrosive media.

A unique feature of the NIV series is the one-piece valve stem that functions as a sealing membrane while also supporting and centralizing the poppet in the seating area. This multi-functional poppet/diaphragm/stem results in a simplified design with fewer parts, longer life, and minimal dead volume. Choose from four orifice sizes available as 2-Way Normally-Closed, 2-Way Normally-Open, or 3-Way Selector/Diverter. Special configurations available by request.

Valve Type	2-Way Normally-Closed, 2-Way Normally-Open, 3-Way Selector/Diverter
Medium	Air, water, gas, or compatible fluids
Temperature Range	0 to 158°F
Operating Pressure	Vacuum to 30 psig
Flow	10 to 60 l/min
Max. Pressure Range	28" Hg to 30 psig
Power Consumption	1.0 to 7.2 watts
Response Time	5 to 20 ms
Electrical Connections	18" wire leads
Voltage	12 or 24 VDC
Ports	#10-32, 1/4-28 UNF or 1/8 NPS
Mounting	#2-56, #4-40, or manifold mount
Wetted Materials	PTFE, Peek available
More Details	clippard.com/link/niv

- Low power consumption
- Compact, lightweight design
- Bidirectional
- Minimal dead volume
- All wetted areas PTFE
- Ideal for use with corrosive media
- High cycle life
- Fast response time

Valve Type	Orifice Size	Ports	STANDARD STYLE		INTEGRATED MANIFOLD	
			12 VDC	24 VDC	12 VDC	24 VDC
2-Way Normally-Closed	0.040"	#10-32	NR1-2-12	NR1-2-24	NR1-2M-12	NR1-2M-24
	0.062"	1/4-28 UNF	NR2-2-12	NR2-2-24	NR2-2M-12	NR2-2M-24
	0.093"	1/4-28 UNF	NR3-2-12	NR3-2-24	NR3-2M-12	NR3-2M-24
	0.156"	1/8 NPS	NR4-2-12	NR4-2-24	NR4-2M-12	NR4-2M-24
2-Way Normally-Open	0.040"	#10-32	NR10-2-12	NR10-2-24	NR10-2M-12	NR10-2M-24
	0.062"	1/4-28 UNF	NR20-2-12	NR20-2-24	NR20-2M-12	NR20-2M-24
	0.093"	1/4-28 UNF	NR30-2-12	NR30-2-24	NR30-2M-12	NR30-2M-24
	0.156"	1/8 NPS	NR40-2-12	NR40-2-24	NR40-2M-12	NR40-2M-24
3-Way Selector/Diverter	0.040"	#10-32	NR1-3-12	NR1-3-24	NR1-3M-12	NR1-3M-24
	0.062"	1/4-28 UNF	NR2-3-12	NR2-3-24	NR2-3M-12	NR2-3M-24
	0.093"	1/4-28 UNF	NR3-3-12	NR3-3-24	NR3-3M-12	NR3-3M-24
	0.156"	1/8 NPS	NR4-3-12	NR4-3-24	NR4-3M-12	NR4-3M-24