

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.

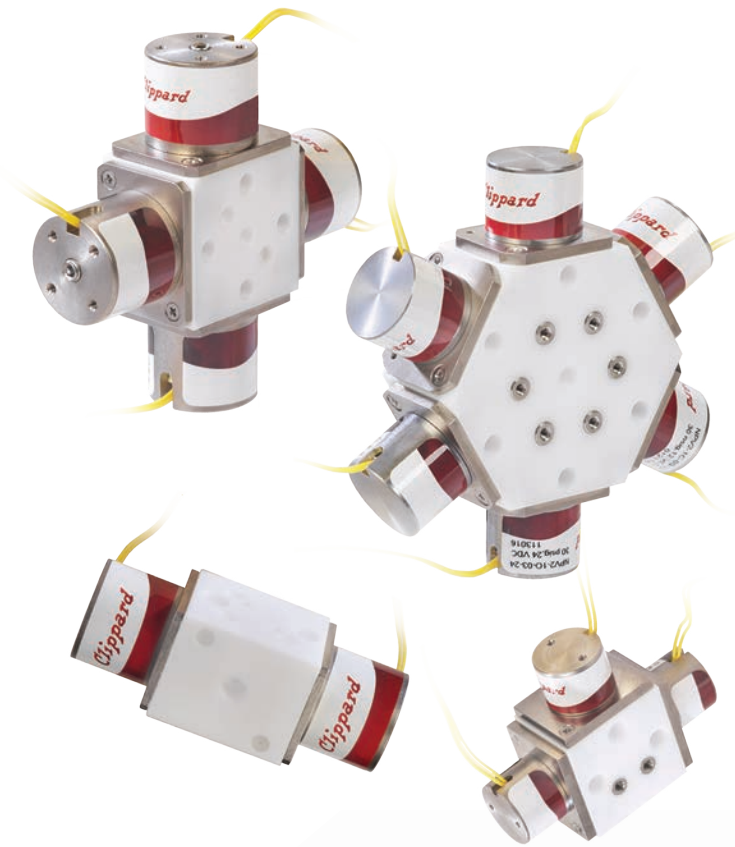
Valve Type	2-Way Normally-Closed, 2-Way Normally-Open, 3-Way Selector/Diverter
Medium	Air, water, gas, or compatible fluids
Max. Coil Temp. Rating	158°F
Operating Pressure	Vacuum to 30 psig
Flow	10 to 60 l/min
Max. Pressure Range	28" Hg to 30 psig
Power Consumption	1.0 to 7.2 watts
Response Time	5 to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

NIV SERIES GRADIENT MIXING VALVES

2-WAY N.C. PTFE MIXING VALVES



NIV series mixing valves feature multiple solenoids connected around a central body. This unique design provides significant reduction in internal volume with enhanced mixing capabilities. Each actuator operates independently, allowing for flow of various media to be mixed or for one media to be split into multiple streams.

These valves utilize a standard 2-Way, Normally-Closed configuration. Standard options include four different orifice sizes, available in 12 or 24 VDC.

- Ideal for gradient, mixing, and diverting applications
- Compatible with corrosive fluids
- Variety of multi-valve configurations

Valves	Orifice Size	Ports	12 VDC	24 VDC
2	0.040"	#10-32	NR1-2-12-G2	NR1-2-24-G2
	0.062"	1/4-28 UNF	NR2-2-12-G2	NR2-2-24-G2
	0.093"	1/4-28 UNF	NR3-2-12-G2	NR3-2-24-G2
	0.156"	1/8 NPS	NR4-2-12-G2	NR4-2-24-G2
3	0.040"	#10-32	NR1-2-12-G3	NR1-2-24-G3
	0.062"	1/4-28 UNF	NR2-2-12-G3	NR2-2-24-G3
	0.093"	1/4-28 UNF	NR3-2-12-G3	NR3-2-24-G3
	0.156"	1/8 NPS	NR4-2-12-G3	NR4-2-24-G3
4	0.040"	#10-32	NR1-2-12-G4	NR1-2-24-G4
	0.062"	1/4-28 UNF	NR2-2-12-G4	NR2-2-24-G4
	0.093"	1/4-28 UNF	NR3-2-12-G4	NR3-2-24-G4
	0.156"	1/8 NPS	NR4-2-12-G4	NR4-2-24-G4
6	0.040"	#10-32	NR1-2-12-G6	NR1-2-24-G6
	0.062"	1/4-28 UNF	NR2-2-12-G6	NR2-2-24-G6
	0.093"	1/4-28 UNF	NR3-2-12-G6	NR3-2-24-G6
	0.156"	1/8 NPS	NR4-2-12-G6	NR4-2-24-G6

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Mounting	#2-56, #4-40, or manifold mount
Wetted Materials	PTFE
More Details	clippard.com/link/niv

Available with two, three, four, and six valves, these units provide a compact solution for applications requiring an inert wetted path for corrosive or aggressive liquids. Special configurations available by request.