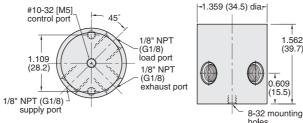
SPECIAL PILOTED 3-WAY VALVES



3-Way Normally-Closed Amplifier Valves

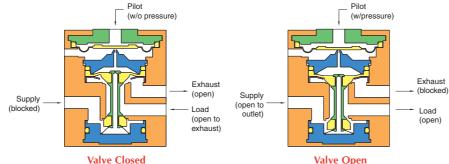
MODEL 201

3-Way Valve Normally-Closed Interface amplifies very low pressure air-jet sensing signals to working power levels



Top View

(39.7)8-32 mounting holes **Side View**



Valve Open

Medium: Air

Material: Anodized aluminum body, Buna-N diaphragms

Input Pressure: 30 to 100 psig/ 2 to 7 bar max.

Air Flow: 22 scfm @ 100 psig;

530 l/min @ 6 bar

Pilot Pressure: 4" H₂O @ 100 psig

Maximum Allowable Pilot Pressure: 5 psig

Response Time: 10 milliseconds dead

. headed

Operating Speed: 50 Hz Bleed: 0.1 scfm @ 100 psig

Ports: Load - 1/8" NPT (G1/8) female Supply - 1/8" NPT (G1/8) female Exhaust - 1/8" NPT (G1/8) female Control - #10-32 (M5) female

Part No. Description

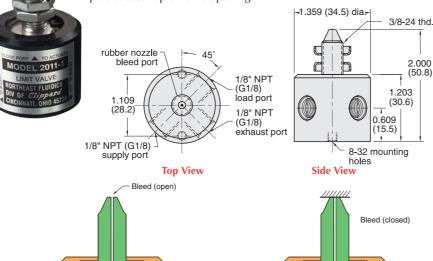
Normally-Closed 2010

Interface, 1/8" NPT 2010-MG Normally-Closed Interface, G1/8

3-Way Bleed Pressure Piloted Limit Valves



Supply (blocked) 3-Way Bleed Pressure Piloted Limit Valve; blocking of the sensing port causes rapid valve opening



(open)

(open to

Medium: Air

Material: Anodized aluminum body, Buna-N diaphragms

Input Pressure: 30 to 100 psig/ 2 to 7 bar max.

Air Flow: 22 scfm @ 100 psig; 530 l/min@ 6 bar

Bleed: 0.1 scfm @ 100 psig Response Time: 15 milliseconds

Ports: 1/8" NPT (G1/8)

Note: Supplied with threaded bulkhead mount and integral rubber nozzle for direct actuation by mechanical closure. By removing rubber nozzle and inserting a #10-32 fitting and length of hose, 2011-1 can be converted to a remote sensing valve.

Description Part No. 2011-1 Piloted Limit Valve, 1/8" NPT 2011-1-MG Piloted Limit Valve,

G1/8

Exhaust

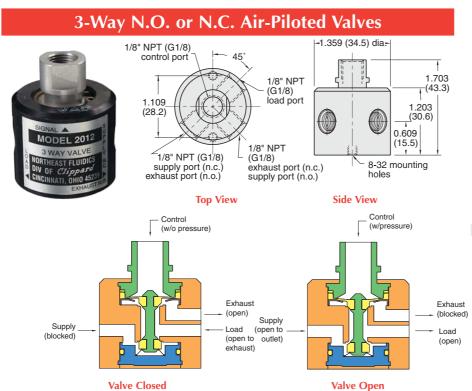
(open)

Valve Open

Valve Closed



SPECIAL PILOTED 3-WAY VALVES



Medium: Air

Material: Anodized aluminum body,

Buna-N diaphragms

Input Pressure: 1 to 100 psig/7 bar max.

Air Flow: 22 scfm @ 100 psig; 530 l/min @ 6 bar

Bleed: 0.1 scfm @ 100 psig

Minimum Pilot Pressure:

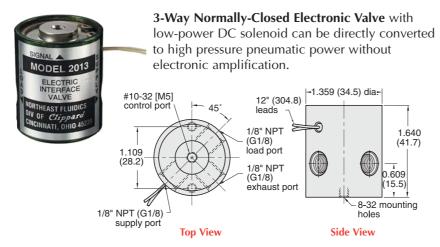
N.O. - 90% of supply pressure N.C. - 60% of supply pressure

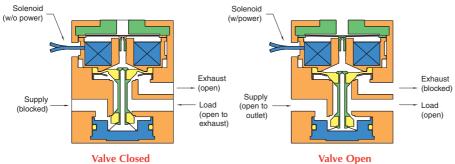
Response Time: 15 milliseconds after pilot

pressure reaches switch point **Operating Speed:** 1100 CPM

Part No. **Description** Piloted Valve, 1/8" NPT 2012 2012-MG Piloted Valve, G1/8 2012-VAC **Valve for Vacuum Operation** (requires positive pressure pilot signal) 2012-G Valve for Liquid Adhesives (silicone diaphragm and seals), 1/8" NPT 2012-G-MG Valve for Liquid Adhesives (silicone diaphragm and seals), G1/8

3-Way N.O. or N.C. Electronically Piloted Valves





Medium: Air

Material: Anodized aluminum body,

Buna-N diaphragms

Input Pressure: 30 to 100 psig/2 to 7 bar

max

Air Flow: 22 scfm @ 100 psig 530 l/min @ 6 bar Bleed: 0.1 scfm @ 100 psig Filtration: 10 micron

Frequency Response: 50 Hz @ 100 psig

70 Hz @ 30 psig

Switching Speed: 10 milliseconds Leads: 28 gauge stranded PVC insulated Continuous Overload: 350% @ 25°C ambient; 250% @ 50°C ambient

Power Consumption: less than 0.50 watts at rated voltage 80 ma. @ 6V
40 ma. @ 12V
20 ma. @ 24V

Part No.	Description
2013-6	Valve, 6 Volts DC, 1/8" NPT
2013-12	Valve, 12 Volts DC, 1/8" NPT
2013-24	Valve, 24 Volts DC, 1/8" NPT
2013-6-MG	Valve, 6 Volts DC, G1/8
2013-12-MG	Valve, 12 Volts DC, G1/8
2013-24-MG	Valve, 24 Volts DC, G1/8

SPECIAL PILOTED 3-WAY VALVES



3-Way Normally-Closed Pressure Piloted Valve





èxhaust port

1/8" NPT (G1/8)

supply port

Top View

Designed to be piloted by a Clippard EV or ET manifold mount electronic valve. Output from the EV/ET actuates the valve to produce outputs up to 22 scfm at 100 psig. Combines low wattage, long life and cool running of the EV/ET valves with quick response and high flow of Clippard booster type valves.

The 2020 and 2021 are identical in all respects except one. The 2020 has an external

#10-32 (M5) port for the pressure supply to the EV/ET electronic pilot valve. The 2021 has an internal pressure supply to the EV/ET.

ET Inp

Input Pressure: 30 to 100 psig/2.7 to 7 bar max.

Air Flow: 22 scfm @ 100 psig; 620 l/min

@ 6 bar

Pilot Pressure: 60% of supply pressure, min.

Response Time: Approx. 20 milliseconds

Mounting: Mounting holes provided

Materials: Anodized aluminum, stainless

steel

Medium: Air

s an internal pressure supp	ny to the LV/LI.				
1 11	,			Part No.	Description
				2020	Piloted Valve, 1/8" NPT
				2020-MG	Piloted Valve, G1/8
10-32 [M5] pilot valve	#10-32 [M5] pilot su	nnly 0.040		2021	Piloted Valve, 1/8" NPT
mounting hole	1.359	0.070		2021-MG	Piloted Valve, G1/8
1	(34.5)	dia.	December 1		
	1/8" NPT	<u> </u>			
1.109	(G1/8)				
(28.2)	load port	1.562			
	1/8" NPT (G1/8)	(40.0)	PLOT SUPRY		
	(G1/8)	***	MODEL 2027	2020 cha	we with ET Pilot Valvo

2020 shown with ET Pilot Valve and external pilot supply

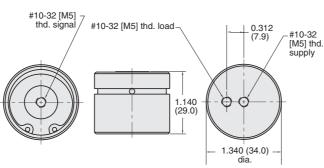
Pressure Piloted Snap Action Amplifying Valve

Side View



Provides a sharp, clean output signal, even with slow-changing pressure input signals; output is stabilized without chatter or oscillation

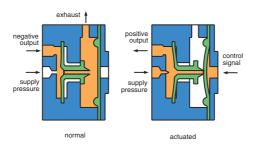
#8-32 mounting holes



Top View

Side View

Bottom View



Medium: Air

Input Pressure: 3 to 100 psig/0.2 to 7

bar max.

Minimum Pilot Pressure: 1.5"

H₂O psig

Maximum Pilot Pressure: 1 psig

(28" H₂O")

Air Flow: 0.18 scfm @ 100 psig;

5 l/min @ 6 bar

Bleed Orifice Diameter: 0.010"

Part No. Description
3200-A Amplifying Valve, #10-32
3200-A-M5 Amplifying Valve, M5