



All-Flo Accessories | Solenoid Valves for On/Off Control

Remotely start and stop with an in-line solenoid valve for the air-operated double-diaphragm pump's air line.

Part No.	Description
13412-00-10	3/8" Ported Solenoid Valve, 110/50 VAC or 120/60 VAC, for use with A050, A075, and 100 Pumps*
13412-00-12	3/8" Ported Solenoid Valve, 12 VDC, for use with A050, A075, and A100 Pumps*
13412-00-20	3/8" Ported Solenoid Valve, 220/50 VAC or 240/60 VAC, for use with A050, A075, and A100 Pumps*
13412-00-24	3/8" Ported Solenoid Valve, 24 VDC, for use with A050, A075, and A100 Pumps*
13413-00-10	3/4" Ported Solenoid Valve, 110/50 VAC or 120/60 VAC, for use with A150, A200, and A300 Pumps
13413-00-12	3/4" Ported Solenoid Valve, 12 VDC, for use with A150, A200, and A300 Pumps
13413-00-20	3/4" Ported Solenoid Valve, 220/50 VAC or 240/60 VAC, for use with A150, A200, and A300 Pumps
13413-00-24	3/4" Ported Solenoid Valve, 24 VDC, for use with A150, A200, and A300 Pumps
13434-00	6' Cord with DIN 43650B Female Plug, for use with A050, A075, A100, A150, A200, and A300 Pumps
13465-00	Illuminated Connector with 6' Cord for 110 VAC/220 VAC, A025 Metering Pumps
13466-00	Illuminated Connector with 6' Cord for 12 VDC/ 24 VDC, A025 Metering Pumps
13840-26	3/8" Male to 1/4" Male Adapter

*3/8" to 1/4" Adaptor Required

Solenoid Valves for On/Off Control

Cycle Control for Air-Operated Double-Diaphragm Pumps

The A025, A050, and A100 can be configured with solenoid pulse control to enable metering and dispensing application. The solenoid is available in 4 voltages, 110 VAC, 220 VAC, 12 VDC and 24 VDC. All solenoid equipped pumps have a standard DIN 43650B male connector. The 1/4 in. A025 is available with an optional DIN 43650C male connector. See pump product manual for configuration codes.

A025 Solenoid Electrical Properties				
Voltage +/- 10%	Current (Amps)		Resist. (OHMS @ 77°F (25°C))	Power (AC = VA, DC = Watts)
	Inrush	Holding		
110/50	.02	.02	2310	2.4
110/60				
220/50	.01	.01	9515	2.4
220/60				
12 VDC	.15	.15	78	2.0
24 VDC	.09	.09	283	2.0

A050, A075, A100, A200, and A300 Solenoid Electrical Properties				
Voltage +/- 10%	Current (Amps)		Resist. (OHMS @ 77°F (25°C))	Power (AC = VA, DC = Watts)
	Inrush	Holding		
110/50	.08	.05	840	6.9
110/60				
220/50	.04	.03	3310	6.4
220/60				
12 VDC	.38	.38	32	4.8
24 VDC	.20	.20	121	4.8

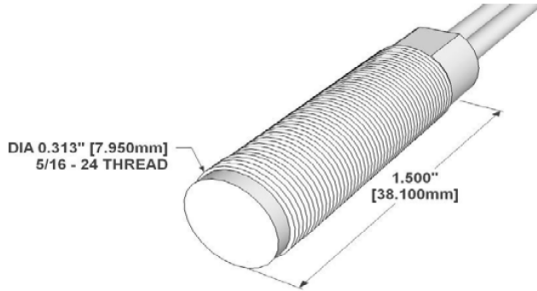
Valve Operation		
	5/2 Single	
	De-Energized	Energized
<p>DE-ENERGIZED 12 ENERGIZED 14</p>	<p>Pressure from Port 1 to Port 2</p> <p>Exhaust from Port 4 to Port 5</p>	<p>Pressure from Port 1 to Port 4</p> <p>Exhaust from Port 2 to Port 3</p>

Solenoid Valves for On/Off Control

Cycle Control for Air-Operated Double-Diaphragm Pumps

Operational Description

The cycle counter model operates via a magnetically actuated proximity-switch installed into the main air-valve. The switch closes when the spool is in the down position, thus allowing open loop metering applications. This option is available on all pumps. See pump product manual for configuration codes.



Physical	Configuration*	SPST
	Form*	A
	Contact Position	CENTER
	Glass L	14.50 mm
	Glass D	2.54 mm
	Total L*	46 mm
	Wire D	0.60 mm
	Gap Location	Center
	Mount Spec*	THRU
	Contact Material	RUTHENIUM
	Max Vibration Resistance	10 G
	Max Shock Resistance	150 G
	Lead Tensile Strength	N/A
	Operating	Pull in (+/- 2AT)*
Drop Out*		7.5-17.5 AT
Operate Time		0.10 ms
Bounce Time		0.15 ms
Release Time		30 μ s
Resonant Frequency		5100 Hz
Max Operating Frequency		N/A
Operating Temperature Range		-67°-221°F (-55°-105°C)
Electrical	Storage Temperature	N/A
	DC Contact Rating	15 W
	AC Contact Rating	N/A
	DC Switching Voltage	200 VDC
	AC Switching Voltage	140 VAC
	DC Switching Current	1.00 A
	AC Switching Current	1.00 A
	DC Max Carry Current	1.75 A
	AC Max Carry Current	1.75 A
	Min Breakdown Voltage	275 VDC
	Max Initial Contact Resistance	100 mOhm
	Typical Initial Contact Resistance	70 mOhm
	Max Contact Capacitance	0.30 pF
	Min Insulation Resistance	10 ⁶ Ohm

*Pre-processed, bare reed element

Assembly Characteristics

Housing	2250
Housing Material	CELANEX 3316
Reed	1051
Configuration	SPST
Form	A

Wire/Cable Characteristics

Type	Wires
Length	6 in. (152.4 mm)
Conductor Count	2
Colors	BLK
Insulation Material and Description	PVC
Gauge	24 AWG
Standard Copper	7 STR-TC
Maximum Temperature	221°F (105°C)

Standard Actuator/Minimum Make Distance

2250-4002-00 – Alnico 5 – Cylinder	0.13" (3.3 mm)
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Assembly Certifications

UL Recognized (file #: E102207)	Y
RoHS	Y