



PRODUCT SPECIFICATION

CONTROLLERS

A **valmont** COMPANY

GATOR MOSOL - Mini Motorised Electric to Hydraulic Actuator (Solenoid Valve)

This range of 3 Way valves can be used in irrigation applications including agricultural and landscaping systems where the requirement is to control a field valve using hydraulic pressure to open and close the main valve.

FEATURES

- Constructed from two main parts -
 - Hydraulic wet end comprising of the control ports and hydraulic change over mechanism
 - Electrical housing designed to IP68 standard and containing the electrical and the hand control components
- A single actuator valve that performs normally open and normally closed functions by switching the connections of the control ports
- Low electrical power requirement characteristics offering longer wire run lengths with less voltage drop thus making wire selection sizing more economical. (See over page)
- Built in hand control offering manual "OPEN", "CLOSE" and "AUTO" control settings



OPERATING PARAMETERS AND SPECIFICATIONS

	24 VOLT AC	12-40 VOLT DC LATCHING
Operating Voltage	24VAC (18V Min to 28V Max)	12VDC (12V Min to 40V Max)
Electrical Pulse Range	-	80mS Min to 500mS Max
Operating Pressure Range	0 - 10 Bar	
Maximum Ambient Operating Temperature	60° C	
Maximum Fluid (H2O) Operating Temperature	60° C	
Recommended Filtration Mesh	80 Micron	
Inrush Current	90mA	-
Holding Current	75mA	-
Electrical Wire Spec (800mm)	2 x 0.5mm Black	0.5mm Red (+) 0.5mm Black (-)
Approx. Valve Activation Delay	2 - 5 seconds	-
Wet End Material	Body - Polyamide, Diaphragm - EDPM	
Hydraulic Port Sizes	1/8" Female BSP	
Orifice Size	2mm	
Valve Mounting Screws	2 x Self Taper 5mm x 25mm	
Mounting Bracket Materials	304 Stainless Steel	
Override Knob (Open, Close, Auto)	Red	Black
Warranty	24 months	

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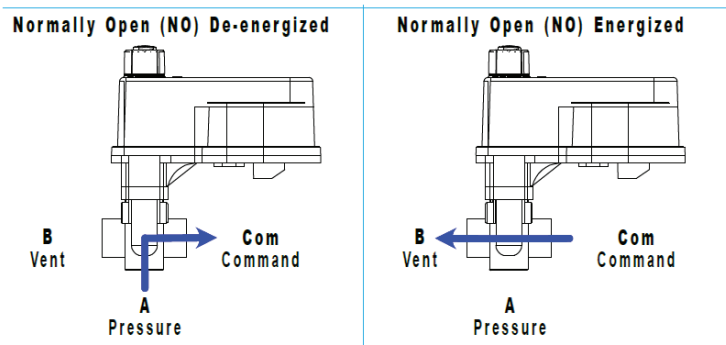
RECOMMENDED WIRE RUN LENGTH

WIRE CROSS SECTION mm ²	24 VOLT AC	12-40 VOLT DC LATCHING
0.5	1,250	100
1.0	3,200	200
1.5	5,000	300

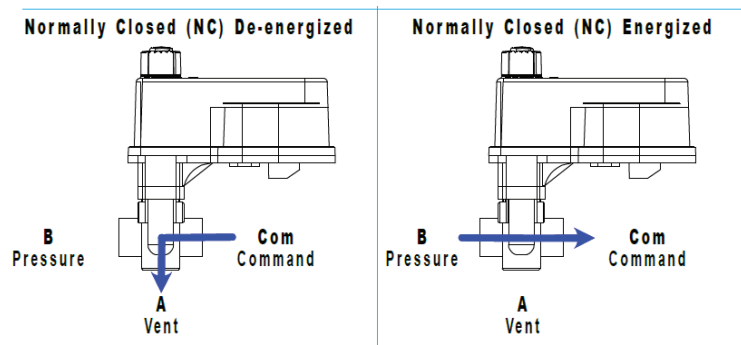
* Wire run length is expressed as the distance from the power source (controller) to the Mosol Valve. DC run lengths are calculated based on the voltage at the source being 13.5VDC and a pulse time of 80 mS.

With the DC pulse/latch model, when swapping the two electrical wires around, the valve can be changed from Normally Open (NO) to Normally Closed (NC) mode.

Plumbing for Normally Open Wiring of MOSOL Irrigation Valve **CLOSED** Irrigation Valve **OPEN**



Plumbing for Normally Closed Wiring of MOSOL Irrigation Valve **OPEN** Irrigation Valve **CLOSED**



Manual (Hand) Control Dial

If you choose to change from Normally Open to Normally Closed then the operation of the Control Dial will be the reverse. **CLOSE** - Links Port A and Com **OPEN** - Links Port B and Com

MODELS	CODE
24V AC 3 Way Mosol Actuator	G8V24VAC - MOSOL
12V DC Latching 3 Way Mosol Actuator	G8V12VDC - MOSOL
Mosol Diaphragm	G8VMOSOLDIA
Mosol Mounting Bracket	G8VMOSOLBRACKET

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