



## "MGV" Moto-G Valve Operations & Maintenance Manual



**Record Your Model, Serial Number and  
Other Information on the back of this document.**

**Manufacturing:** Bypass & Filter Feeders, Glycol Feed Packages, Separators & Separator Systems, Tanks, Tank Stands, Chemical Batch Mixers, Corrosion Coupon Racks, Packaged Feed Systems and Custom Systems

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**\*\*\* WARNING – BEFORE YOU GET STARTED \*\*\***

- 1) All fasteners & fittings should be inspected and secured before operation
- 2) Personnel safety practices should apply at all times
- 3) Safety glasses or face shields and gloves should be worn
- 4) Do not service without disconnecting power
- 5) Close isolation valve and release pressure before servicing any components on the system
- 6) All liquids in system should be drained before servicing

**1.0 INTRODUCTION** Thank you for choosing General Treatment Products “Moto-G” Motorized Ball Valves. The motorized ball valve that thinks it’s a solenoid. Just apply power for the minimum cycle to open and remove power and it closes by itself. Fail safe by design, these inexpensive valves could just be your piece of mind.

**2.0 WARRANTY** General Treatment Products “Moto-G” Valves are guaranteed for one year from date of shipment against manufacturing defects in material and workmanship that develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.

**3.0 UNPACKING** Upon receipt of order, inspect package thoroughly. In the event there was damage incurred in transit you must notify the freight company within **3-5 days of receipt of order**. Once valve is inspected for damage and received in good condition, and store indoors until installing.

**3.1 ORDER VERIFICATION**

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**4.0 LOCATION/ENVIRONMENT** Although the enclosure is NEMA rated, valve and mounting hardware and power cord should not be exposed to direct elements. In most cases, there will not be a dry indoor location that is convenient to install the Moto-G valve. Some shelter, awning or shed needs to be installed to validate warranty.

**5.0 INSTALLATION/OPERATION** **When installing any control valve, always plumb in an isolation valve for maintenance.** Moto-G valves come standard with a 30" power cord and may be mounted in any direction but should avoid mounting in a vertical line with flow headed down. Have only an experienced electrician hardwire valve. Wiring diagrams are provided in section 9.0.

The Moto-G valve operates simply by adding power, as the valve opens the capacitor begins stores energy. Once power is removed the stored energy from the capacitor will close the valve. Power cycles for the 1/2" to 1" valves need to be a minimum of 30 seconds and the 1 1/2" to 2" valves need to be powered for a minimum of 60 seconds to be sure there is enough power to close. **"CAUTION" Short power cycle(s) may cause the valve to stay open or not finish the close cycle.**

**6.0 PRESSURE AND TEMPERATURE LIMITATIONS** Moto-G Valves maximum operating perimeters are 150PSI @ 85F. Some optional fittings, as noted in descriptions, may change limitations.

MATERIAL	MAXIMUM SHORT TERM TEMPERATURE	MAXIMUM OPERATING TEMPERATURE	MAXIMUM OPERATING PRESSURE
Polyethylene (PE)	160°F/69°C	85°F/36°C	N/A
Polyvinylchloride (PVC)	140°F/60°C	85°F/36°C	100PSI/6.9BAR
Chlorinated Polyvinylchloride (CPVC)	180°F/77°C	120°F/49°C	100PSI/6.9BAR
Polypropylene (PP)	180°F/77°C	100°F/49°C	100PSI/6.9BAR
Carbon Steel (CS)	200°F/93°C	200°F/93°C	150PSI/10.3BAR
Cast Iron (CI)	200°F/93°C	200°F/93°C	150PSI/10.3BAR
Brass (BR)	200°F/93°C	200°F/93°C	150PSI/10.3BAR
Stainless Steel (SS)	200°F/93°C	200°F/93°C	150PSI/10.3BAR

Note: Minimum Fluid Temperature is 50°F/10°C.

**7.0 ROUTINE MAINTENANCE** Routine maintenance in this section is referred to as checking a valve once a month until a maintenance schedule can be determined. **All fasteners should be check for proper operations.** Maintenance and care will depend upon the usage.

**8.0 PARTS LISTING** Contact factory for further information.

**9.0 WIRING** The Motor G valve is a two wire valve. Standard 115VAC enclosure will have a RED wire (Neutral) and a black wire (Hot). When power is applied for the minimum cycle the valve will open and power is removed valve will close.

**Valve without options:**

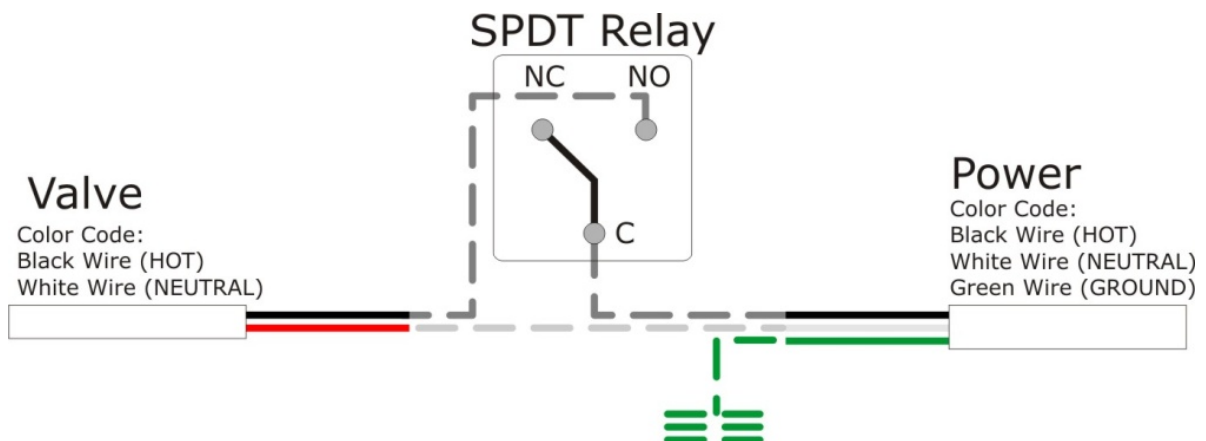
Neutral = RED  
Hot (115VAC) = Black  
Green = N/A

**Optional WP W/Cord**

Neutral = White  
Hot (115VAC) = Black  
Green = Ground

**Wired to a relay:**

Neutral = Red/White  
Normally Open = Black  
Green = Ground



## 10.0 TROUBLE SHOOTING

Trouble	Action
Valve will not close after Power is cycled	<b>Check Control Settings;</b> Besure that valve is being power for a minimum of 30-60 seconds. Large valves need 60 second minimum cycle time. <b>Testing;</b> Plug valve into hot wall socket for 30 seconds and remove power Remove valve and clean
Valve will not open or close	<b>Check Wiring;</b> See wiring examples above <b>Check Control Relay;</b> Bypass controls by plugging valve into hot wall socket

If you are having trouble, contact us at: [repairs@gtpcompany.com](mailto:repairs@gtpcompany.com) or you can call us at the number on the front of the instruction manual.

## 11.0 NOTES

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## 12.0 PRODUCT LABEL

**Model:**

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**Serial Number:**

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