



## **"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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**General Treatment Products Inc., Brea, CA 92821**  
O&M Manual INSTMOTOG Rev. 0220, Page 1 of 5

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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 always apply
- 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**

| MODEL                 |  |   |    |
|-----------------------|--|---|----|
| MGV                   | 075  | B | WP |
| <b>OPTIONS</b>        |  |   |    |
| PTC                   | "Power To Close" Motorized Ball Valve                    |   |    |
| X                     | "Power To Close valve, with positioning indicator/signal |   |    |
| WP                    | Weatherproof junction box and 8FT power cord             |   |    |
| <b>VALVE MATERIAL</b> |  |   |    |
| B                     | Brass Valve  |   |    |
| S                     | Stainless Steel Valve                                    |   |    |
| P                     | PVC Valve  |   |    |
| <b>PORT SIZE</b>      |  |   |    |
| 05                    | 1/2" Valve   |   |    |
| 07                    | 3/4" Valve   |   |    |
| 10                    | 1" Valve   |   |    |
| 15                    | 1 1/2" Valve   |   |    |
| 20                    | 2" Valve   |   |    |
| <b>BASE MODEL</b>     |  |   |    |
| MGV                   | Moto-G Valve, Motor, Enclosure and mounting hardware     |   |    |

**Notes:** "PTC" and "X" Power to close valves must be hardwired and cannot come with plug and play cabling. Please see wiring for details.

**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.

Apart from the power to close valves, 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.**

"PTC" and "X" Valve must be hardwired and need power to close. See wiring details for further instructions.

**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.

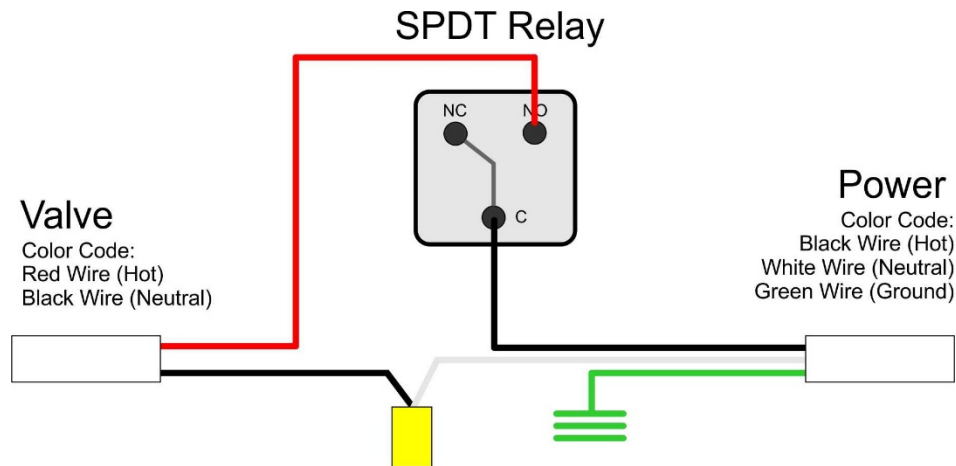
| MATERIAL                             | MAXIMUM SHORT TERM TEMPERATURE | MAXIMUM OPERATING TEMPERATURE | MAXIMUM OPERATING PRESSURE |
|--------------------------------------|--------------------------------|-------------------------------|----------------------------|
| Polyethylene (PE)                    | 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.

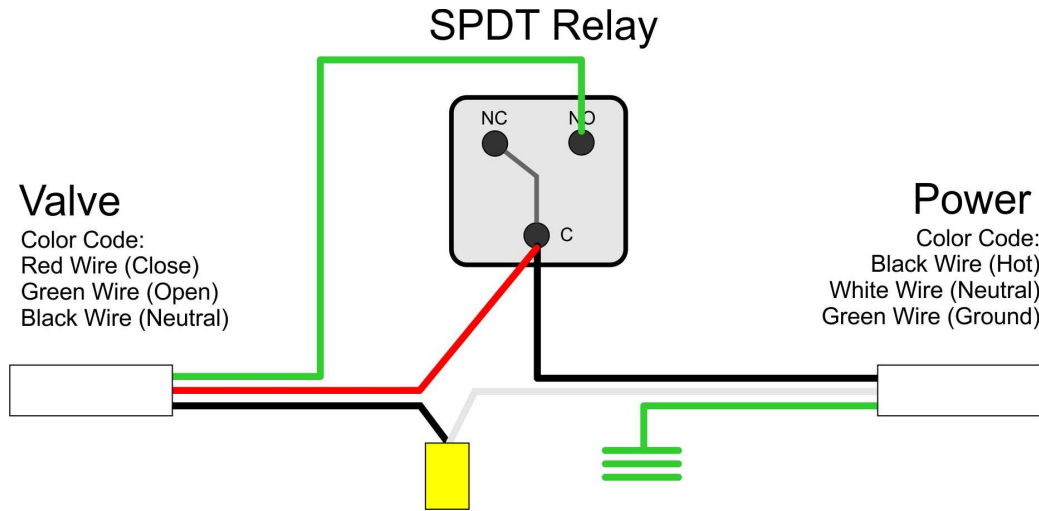
**8.0 PARTS LISTING** Contact factory for further information.

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

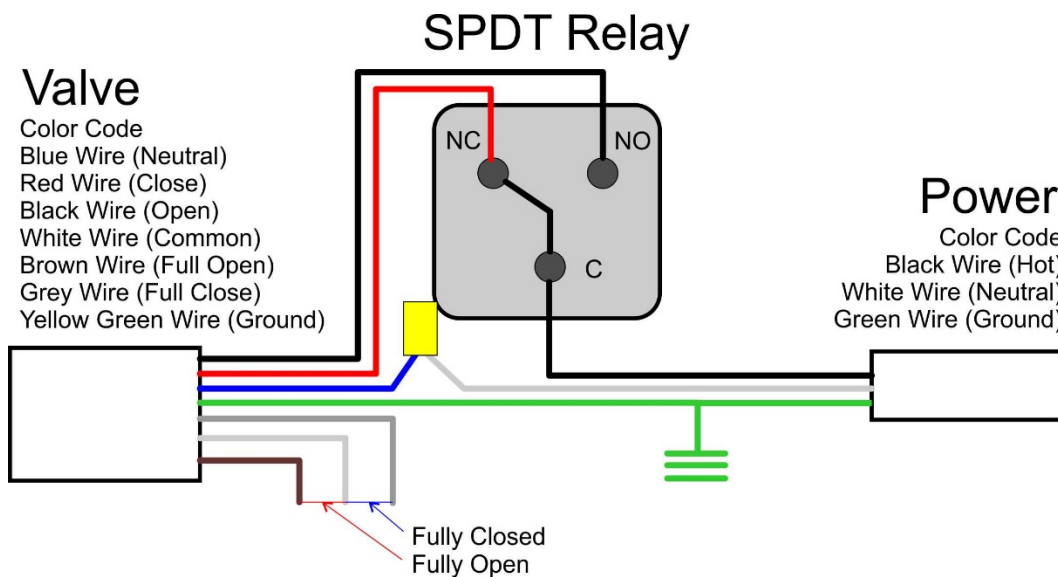


**9.1 WIRING "PTC"** The Moto G "PTC" valve is a three-wire valve. Standard 115VAC enclosure will have a Red wire (Hot), a Green wire (Open) and a Black wire (Close). When power is applied to the red wire the valve will open and when power is removed, power to the black wire will close it.

**Please note**, in the event of a power failure, during a purge (or open cycle) valve will not close until power is reapplied.



**9.1 WIRING "X"** The Moto G "X" positioning valve is a eight-wire valve. Supplied with a 10FT cable, the Moto G "X" valve must be hardwired. When power is applied to valve Black wire will open valve and when power is supplied to Red wire valve will close. **Please note**, in the event of a power failure, during a purge (or open cycle) valve will not close until power is reapplied. Positioning points are dry switch closures.



## 10.0 TROUBLE SHOOTING

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

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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