

GTP Moto-G Valves Operations & Maintenance Manual



This "QUICK START" manual is supplied as a guideline for installation; please visit www.gtpcompany.com for complete instruction manual, assembly drawings and installation drawings.

GENERAL INFORMATION					
MODEL:	_____			SERIAL:	_____
MATERIAL:	<input type="checkbox"/> Brass	<input type="checkbox"/> PVC	<input type="checkbox"/> 316SS	<input type="checkbox"/>	_____
PORT SIZE:	<input type="checkbox"/> 1/2"	<input type="checkbox"/> 3/4"	<input type="checkbox"/> 1"	<input type="checkbox"/> 1 1/2"	<input type="checkbox"/> 2"
ACCESSORIES:	<input type="checkbox"/> "WP" Weather Proof	<input type="checkbox"/>	<input type="checkbox"/> 230VAC	<input type="checkbox"/>	<input type="checkbox"/>

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

- 1) All fasteners & fittings should be inspected and secured before operation as they may be loosened in transit
- 2) Personnel safety practices should apply at all times
- 3) Safety glasses or face shields and gloves should be worn
- 4) Do not service glycol feed package 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

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 system is inspected for damage and received in good condition, and store indoors until installing.

4.0 LOCATION AND ENVIROMENT 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.

Please note:

Power cycles for the 1/2" to 1" valves need to be a minimum of 30 seconds.
Power cycles for the 1 1/2" to 2" valves need to be powered for a minimum of 60 seconds.
This minimum power cycle is to ensure there is enough stored power to close. **"CAUTION" Short power cycle(s) may cause the valve to stay open or not finish the close cycle.**

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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, contact factory for assistance.

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 (Neutral). Optional "WP" enclosures will have standard US 115VAC power and have three wire leads. Wiring WP optional valves, black wire is HOT, white wire is NUETRAL and green wire is GROUND. When power is applied the valve will open and power is removed valve will close. **The "Moto-G" valve is a self-closing valve; you do not need power to 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	Check Control Settings; Besure that valve is being power for a minimum of 30-60 seconds. Large valves need 60 second minimum cycle time.
	Testing; Plug valve into hot wall socket for 30 seconds and remove power
	Remove valve and clean
Valve will not open or close	Check Wiring; See wiring examples above
	Check Control Relay; Bypass controls by plugging valve into hot wall socket

If you are having trouble, contact us at repairs@gtpcompany.com, or you can call us at the number on the front of the Instruction manual.

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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