

"GP-H" Series

HIGH TEMP GLYCOL PACKAGE

Specification WRTNGLYGH

Written: October 2016



1.0 DESCRIPTION

1.1 AUTOMATIC INDUSTRIAL HIGH TEMPERATURE GLYCOL FEED PACKAGE: Shall be manufactured by General Treatment Products, or approved equal and consist of an epoxy coated carbon steel tank, hinged steel cover, carbon steel frame, lockable NEMA 4X control panel, low level float switch, 1/3HP open motor bronze gear pump with internal pressure relief, pressure switch, pressure relief valve, check valve, Y strainer, steel plumbing and reinforced butyl rubber hose assemblies.

2.0 MATERIALS

2.1 TANK AND FRAME: Epoxy coated carbon steel open top tank shall be a minimum wall thickness of 16 gauge. Lid shall be 1/3 hinged with steel hinge welded in place. Tank frame shall be constructed of carbon steel with fixed bracing for control panel, plumbing and gear pump. Maximum temperature is 180F.

Optional Tank Sizes Include:

☐ 15 Gallon ☐ 30 Gallon ☐ 55 Gallon ☐ 100 Gallon

2.2 GEAR PUMP: Gear pump shall be close coupled with internal pressure relief valve. Gear pump shall be capable of a minimum 1.3 gallons per minute against 100 PSI. Motor shall be 115 VAC, 1 Phase, 60 Hertz, open drip proof type and be hard wired to pressure control circuit.

"-E4" Pump: **2.2GPM free flow, 1/3HP 5.6AMP**

Pump Curve: 2.1GPM @ 20PSI, 1.9GPM @ 40PSI, 1.7GPM @ 60PSI, 1.5GPM @ 80PSI, 1.3GPM @ 100PSI

Optional Pump Outputs Include:

☐ "-E5" Pump: **4.4GPM free flow, 1/2HP 7.2AMP**

Pump Curve: 4.3GPM @ 20PSI, 3.8GPM @ 40PSI, 3.5GPM @ 60PSI, 3.2GPM @ 80PSI, 3.0GPM @ 100PSI

☐ "-LP" Pump: **10.8GPM free flow, 3/4HP 11.5AMP**

Pump Curve: 10.7GPM @ 20PSI, 10.6GPM @ 40PSI, 10.3GPM @ 60PSI, 10.0GPM @ 80PSI, 9.7GPM @ 100PSI

2.3 PRESSURE SWITCH: Pressure switch and control circuit shall be designed for pressures as shown below. Pressure switch shall turn on pump on falling pressure and turn off pump on rising pressure. Standard pressure range is Code 1, 10-45 cut-in, 20-50 cut-out, 10-30 pressure differential.

Optional Pressure Ranges Include:

☐ Code 2, 40-80 cut-in, 65-100 cut-out, 20-40 pressure differential

☐ Code 3, 3-10 cut-in, 9-30 cut-out, 6-20 pressure differential

2.4 CONTROL PANEL: Polycarbonate NEMA 4X lockable control panel shall be of ample size needed for equipment and servicing of electrical components. All components shall be installed behind clear viewing panel and have locking hasp to deter tampering. Wiring diagram shall be color coded for easy trouble shooting. All internal wiring shall be of ample gauge for supply voltage and amp draw. Controls shall be, but not limited to, main power/disconnect switch and indicator, pump manual/off/auto switch and indicator and red low level indicator. All indicator lights shall be LED and designed for continuous use.

2.5 DISCHARGE MANIFOLD: Discharge manifold is made from carbon steel and will be mounted securely to the system. Manifold is to include brass tubing pump connection, pressure switch port, pressure gauge port, pressure relief port and brass isolation valve. System connection is 1/2" NPT.

2.6 PRESSURE RELIEF VALVE: Brass pressure relief valve shall have adjustment handle and have brass seat and elastomer seal. Valve shall be of ample size to handle full pump.

2.7 CHECK VALVE: Back flow check valve shall be tapered body design with an enlarged valve chamber to reduce valve chatter and clogging. Valve shall be constructed of bronze and stainless steel and have a raised radius valve seat for positive seal.

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2.8 LOW LEVEL SWITCH: Stainless steel low level switch with carbon steel tank fitting shall be interlocked with 5 AMP relay and stop glycol feed pump when liquid reaches factory set level. Low level circuit will then turn on RED indicator light and initiate 115 VAC 5 amp circuit.

2.9 PRESSURE AND TEMPERATURE LIMITATIONS: Shall have maximum operating perimeters of 150PSI @ 120F.

2.10 OPTIONAL FEATURES: Select options from below.

- ☐ Code "D" Dual Pumps with dual manifolds, control switches and indicators
- ☐ Code "ET" 2.1-gallon expansion tank
- ☐ Code "AL" 95 decibel audible alarm and silence switch
- ☐ Code "DC" Remote dry contact on low level
- ☐ Code "MX" Batch mixer, mount bracket and control switch
- ☐ Code "HL" High level indicator
- ☐ Code "TEFC" Totally enclosed Fan Cooled pump motor
- ☐ Code "MTR/STR" Motor starter, 20 AMP
- ☐ Code "AUX" Auxiliary pump adder (Standby)
- ☐ Code "ALT" Alternating pump adder
- ☐ Code "EMS05" Dry contact control box for up to 5 sensing points

3.0 WARRANTY

General Treatment Products Gly-Pack Feed Systems are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship which 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.