

GLYCOL FEEDER FOR CLOSED LOOP SYSTEMS

DESCRIPTION

The AF-1 and AF-2 Glycol Feed Systems maintain a consistent operating pressure in a closed loop system allowing for a controlled level of glycol to be maintained in the loop.

The Glycol Feed System is a complete packaged unit consisting of a tank, pump, and control panel all assembled and prewired requiring only a power connection and discharge piping connection to the loop.

The control panel allows for either manual pump control or automatic pump control by loop system pressure. An audible and visual alarm warns operators of low liquid level in the glycol tank and disables the pump to prevent damage due to dry operation.

The bronze gear pump provides positive glycol feed to the loop and a pressure relief valve provides over pressure protection. A line check is provided to prevent glycol contamination from the loop system.

SPECIFICATIONS

CONTROL

POWER REQUIREMENTS	120 VAC 60 HZ 20 AMP
PUMP CONTROL	MANUAL-OFF-AUTOMATIC
CONTROL ENCLOSURE	NEMA 12
PRESSURE GAUGE	0-100 PSI
PRESSURE SWITCH	CUT-IN 30 PSI CUT-OUT 50 PSI
TANK LEVEL SWITCH	PUMP SHUT-OFF AND ALARM

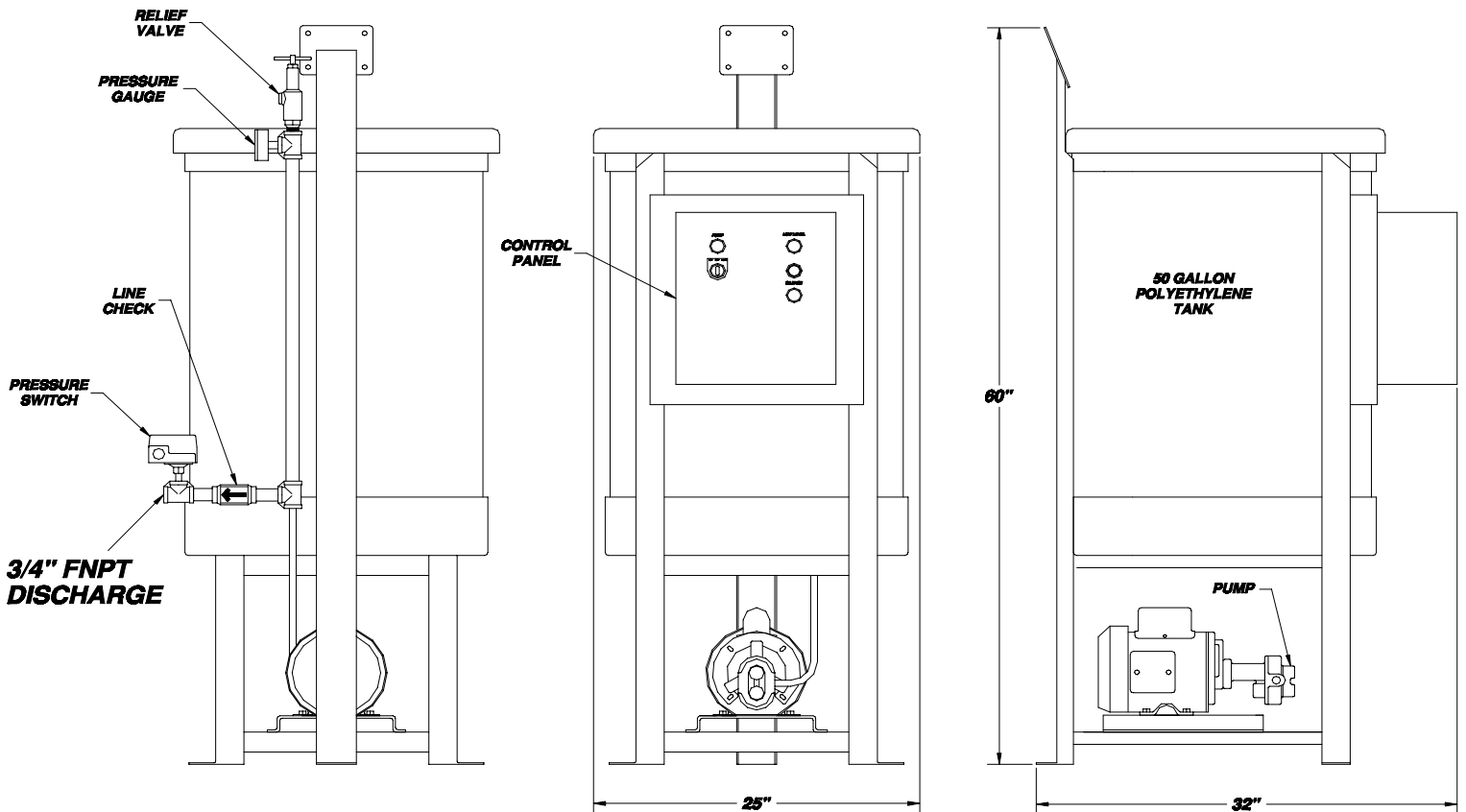
GLYCOL TANK

CAPACITY	55 GALLONS
MATERIAL	AF-1 POLYETHYLENE AF-2 CARBON STEEL
COVER	SS HINGED LID
PIPING	PVC-BLACK IRON-COPPER
PRESSURE RELIEF VALVE	ADJUSTABLE 0-100 PSI

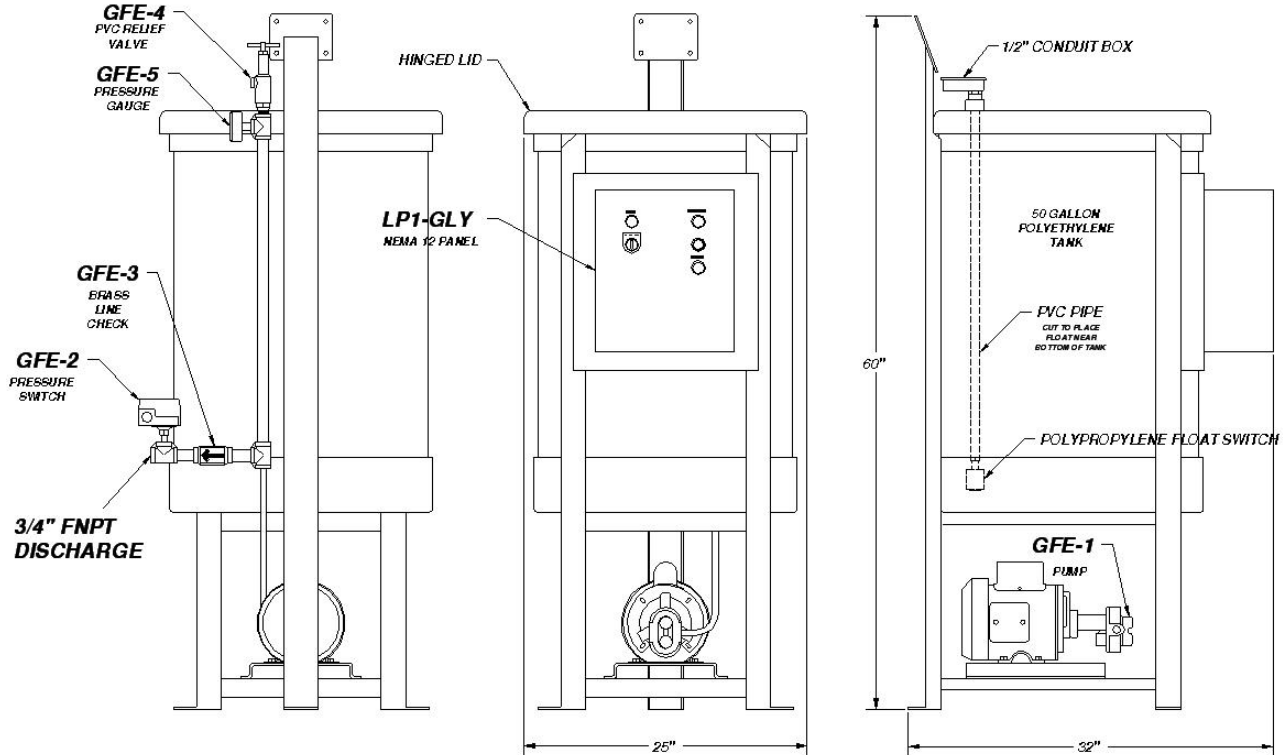
GLYCOL PUMP

CAPACITY	3 GPM @ 60 PSI
MATERIAL	BRONZE
DRIVE	1/2 HP TEFC MOTOR

AF-1 GLYCOL SYSTEM



AF-1 GLYCOL SYSTEM



INSTALLATION & OPERATION:

- 1) Connect 120 VAC 20 Amp service to the control panel
- 2) Connect a 3/4" line from the 3/4" NPT discharge connection of the Glycol Feeder to the closed loop process system. It is recommended that a valve be installed in this line for the purpose of isolating the Glycol Feeder during maintenance.
- 3) Fill the Glycol Feeder supply tank with glycol.
- 4) With the 3/4" customer installed isolation valve closed, turn the glycol pump switch to **MAN** position and adjust the pressure relief valve on the top of the tank until the pressure gauge reads about 80 PSI. Turn the glycol pump switch to off and tighten the pressure relief valve lock nut. During normal operation the pressure relief valve will prevent the system pressure from ever exceeding 80 PSI.
- 5) The standard pressure switch supplied with the AF-1 Glycol Feeder is factory set to start the glycol pump when system pressure falls below 30 PSI and shut off the pump when the system pressure rises to 50 PSI. The optional pressure switch is on at 5 PSI and off at 21 PSI. With the glycol pump switch in the **AUTO** position, the system pressure will be maintained between the set limits of the pressure switch.
- 6) A low level sensing switch in the supply tank will shut off the glycol pump and sound an audible alarm should the liquid level in the tank fall to an unsafe level. Once the liquid in the supply tank is replenished, the pump will continue normal operation. A dry contact is wired to the terminal strip inside the glycol control panel which can be used to trigger a remote alarm at liquid low level.

