

Grinder Pump Packaged Basin Units

INSTALLATION AND
SERVICING INSTRUCTIONS FOR
MODEL TPL15 SIMPLEX AND DUPLEX
GRINDER PUMPS WITH LIFT-OUT
RAIL SYSTEM INSTALLED IN
FIBERGLASS BASIN, AT FACTORY,
AS COMPLETE SYSTEM FOR
INSTALLATION BY CUSTOMER

MODELS:

TPL15-R5S

TPL15-R5D

TPL15-R6S

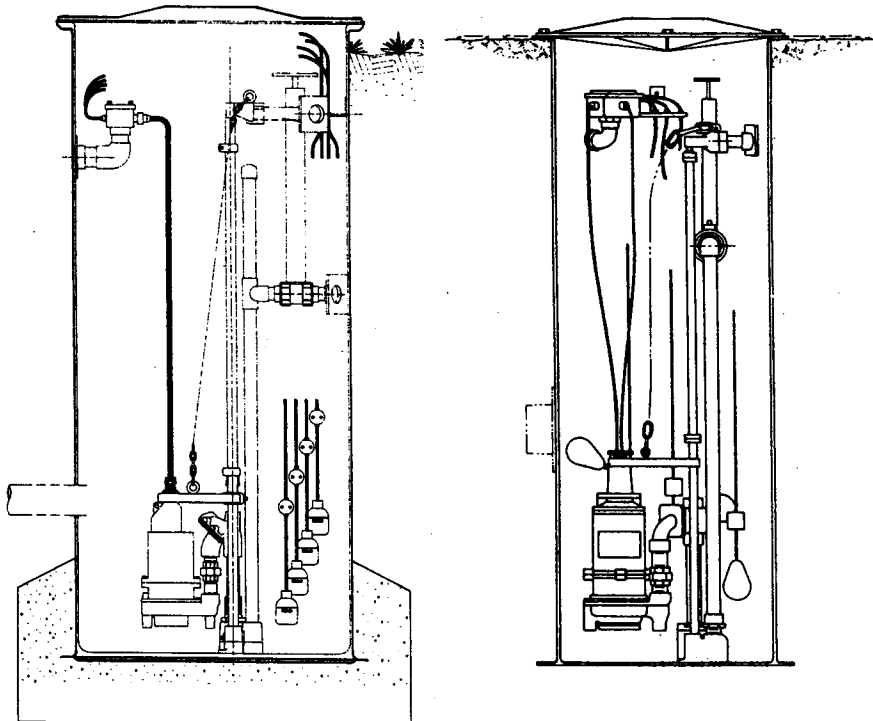
TPL15-R6D

TPL15-R7S

TPL15-R7D

TPL15-R8S

TPL15-R8D



NOTE – When complete packaged system, including fiberglass basin is supplied from factory all parts are mounted in basin except pump, check valve, and guide plates. Piping and guide plates for pump are shipped in separate package and must be mounted in the field.

ASSEMBLING PIPING TO PUMP

Attach guide plate and piping to pump as shown in Figure 1. Be sure piping is plumb, then tighten all set screws. Attach lifting chain to lifting eye with clevis supplied. Pump(s) can now be lowered into position with lifting chain. Retain power and control cords at surface as pump is lowered. When pump(s) is in place, attach cords to connection box. Remove slack from wires so that they will hang vertical without tangling.

See Figure 1 for instructions for mounting to pump.

MECHANICAL ASSEMBLY

1. Inlet flange must be mounted to basin at depth required to get gravity flow into basin. Bottom of basin must be at least 36" below inlet pipe. Two inlet flanges are supplied, one for use with 4 inch SDR 35 PVC pipe and one for use with 4 inch SCHEDULE 40 PVC pipe. Inlet flanges are available for either 4 or 6 inch pipe and more than one inlet may be used if desired.
2. Cut hole(s) through fiberglass basin at desired location using the correct size hole saw. For 4 inch inlets use a 5 inch hole, for 6 inch inlets use a 7 inch hole. Select the inlet which matches the type of pipe being used, (4 or 6 inch, SDR 35 or SCH. 40). Insert the inlet into the previously cut hole. Chamfer the ends of the plastic pipe for ease of installation. Lubricate pipe with soapy water. Insert pipe through inlet so that the pipe protrudes through the inlet approximately one inch.
3. This unit is equipped with hold-down guides and hold-down pipe. Upper guides hold to rail and hold down pipe with set screws. The hold-down pipe is necessary to prevent hydraulic pressure from lifting pump from base. The hydraulic pressure keeps the pumps suspended when in operation so there is no side load on the rails and removal is easier when required.

BONDING PLASTIC PIPE TO DISCHARGE AND CONDUIT FLANGES IN BASIN ASSEMBLY

WARNING: EYE IRRITANT. BONDS SKIN IN SECONDS.

Contains cyanoacrylate ester. In case of eye contact or ingestion get medical attention immediately. If fingers stick, roll apart slowly. Use in adequate ventilation.

KEEP AWAY FROM CHILDREN!

DO NOT USE PVC OR ABS ADHESIVE

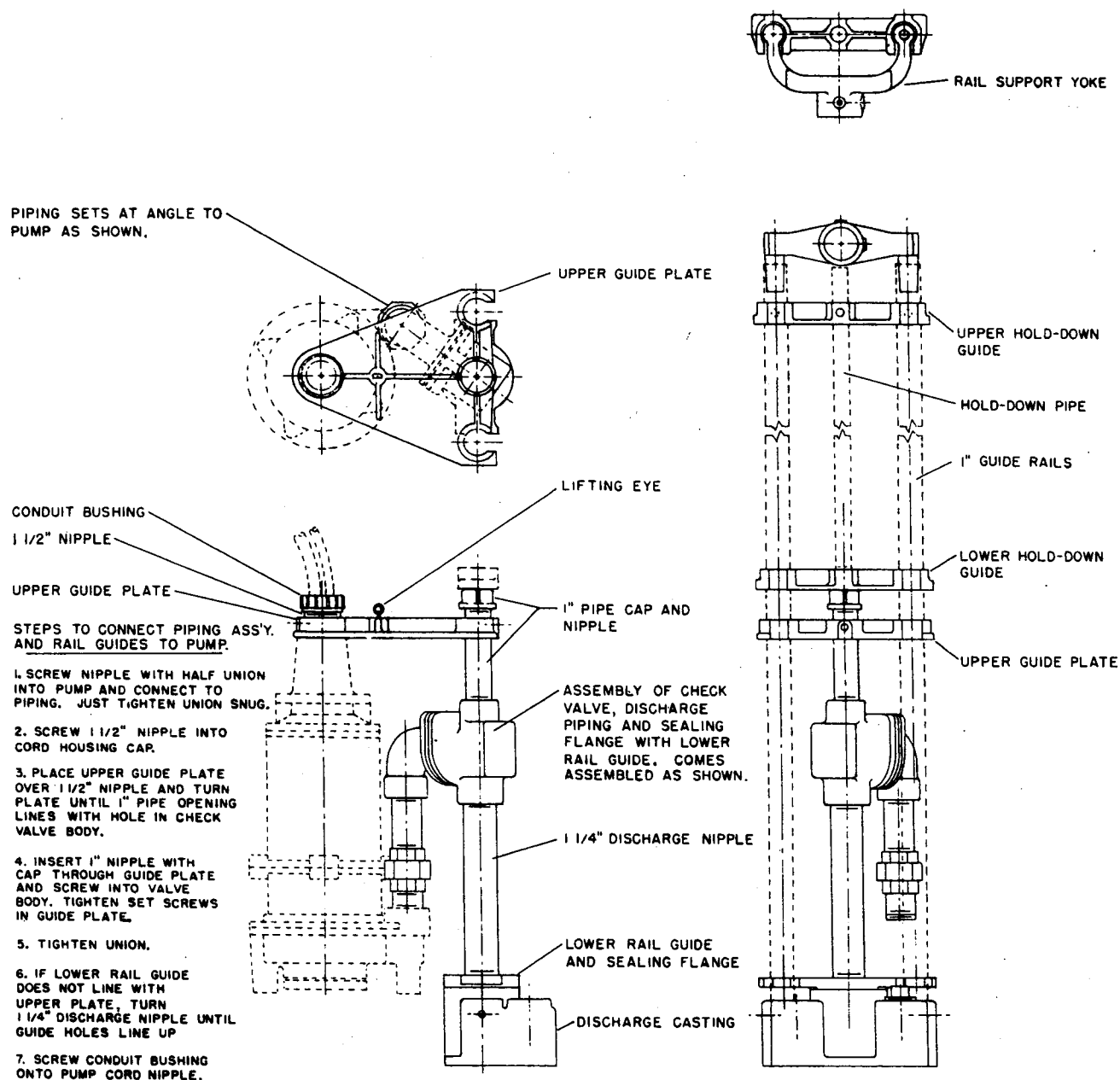
Read these instructions and the instructions on the bottle thoroughly before bonding. The adhesive will set quickly, rehearse the steps before applying.

1. Have all the pipes cut to length and fit for assembly before bonding together.
2. Pipe and flange must be clean and free of water and oil.
3. End of pipe must be cut square and free of flash.
4. Apply two beads of instant adhesive completely around pipe. One at the end and one approximately $\frac{3}{16}$ " from end of pipe.
5. Insert pipe completely into flange, bottoming it out.
6. Hold assembly together firmly for 40 to 60 seconds.
7. Do not run water through piping for 24 hours after bonding.

ELECTRICAL ASSEMBLY

1. Adjust level controls on bracket for proper pumping and alarm elevations. Off level control must be set so that pump will turn off when sump level is 1" to 2" above bottom of pump.
2. Connect level control and pump power cords to connection box as shown on connection diagram. Make certain that all compression fittings are tight.
3. Install control box.
4. Run wires to control box through conduit and connect to cords coming into connection box. Mark or trace each incoming wire so that it can be connected to proper cord.

ASSEMBLING DISCHARGE PIPING AND RAIL GUIDES TO PUMP FIG. 1



5. Do not install sealing compound into fitting until pumps have been run, to be sure all connections are correct.

INSTALLATION

1. The basin is fiberglass, and concrete must be poured over anti-floatation ring to prevent basin from floating up. Do not leave basin in unfilled hole without concrete as ground water or rain may float basin up breaking inlet, discharge and electrical conduit connections.
2. Cubic feet of concrete to be poured around basin to prevent floatation:

BASIN DIA.	CUBIC FEET OF CONCRETE REQUIRED PER FOOT OF BASIN DEPTH
24"	2 cu. ft.
36"	5 cu. ft.

Example – 24" dia. basin 5 ft. deep requires $2 \times 5 = 10$ cu. ft. of concrete to prevent floatation. If basin is installed on dry ground without surface water, $\frac{1}{3}$ of above values may be used. However, if basin is left in open hole without backfilling for any period of time, full amount of concrete must be used, as unexpected rain may cause basin to float up.

STARTING SYSTEM

1. Open $1\frac{1}{4}$ " ball valve.
2. Set H-O-A switch on "AUTO" position and run water into sump until "ON" level control starts pump. Allow pump to operate until sump level drops, deactivating "OFF" level control, stopping pump.

IMPORTANT – "OFF" level control should be set so that sump level drops to within 1" to 2" from bottom of pump before stopping pump.

3. Turn pump switch to "OFF" and fill sump over alarm control. Red light should flash.
4. Set H-O-A switch to "AUTO" position. System is now ready for automatic operation.

IN CASE OF TROUBLE, CHECK THE FOLLOWING:

Pump will run but not deliver water.

- Cause – 1. Probably air lock. Start and stop pump several times using H-O-A switch. If this does not clear air, turn pump to "OFF" and run more water into sump 6" to 12" higher. If air still does not clear, it may be necessary to raise hold-down pipe and lift pump so that lower seal fitting is out of the discharge case to release air.
2. Be sure shut-off valve is open in discharge line.

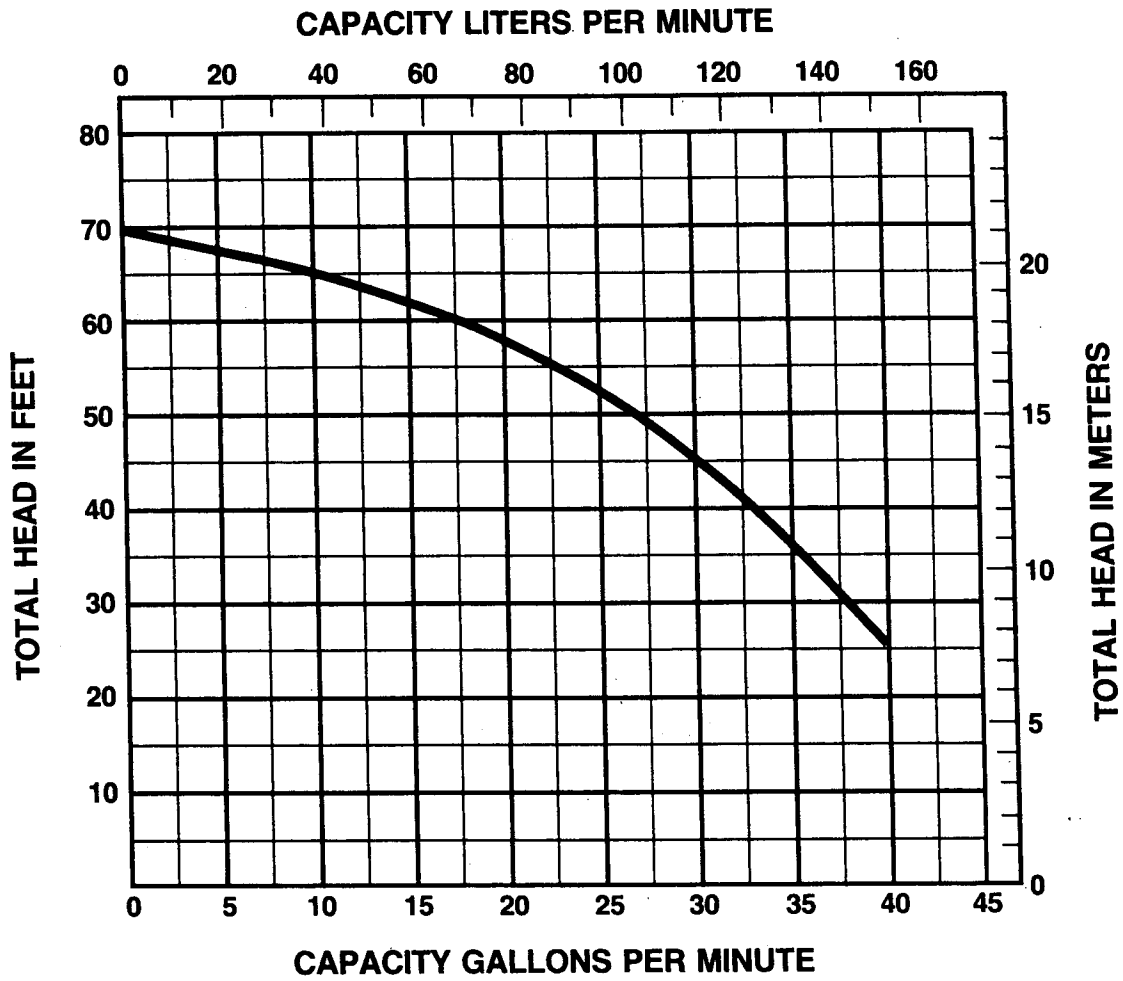
Pump seal fitting leaks.

- Cause – Probably cut or broken "O" ring. Replace if necessary. Trash may be caught in seal flange. Lift pump and open shut-off valve to back flush discharge casting.

On installations where discharge line is not filled it may be necessary to lift pump until seal flange is out of discharge case, then run pump to flush casting.

For all other trouble problems with pump or control box refer to pump or control box instructions included with these items.

CAUTION – Never work on pumps or controls unless power is turned off. If pump is remote from control box, disconnect wires to pump(s) to be certain power can not be turned on when working on pumps. **NEVER PUT FINGERS NEAR GRINDER IMPELLER WHEN PUMP CORD IS CONNECTED.**

PERFORMANCE CURVE TPL15-21-10 GRINDER PUMP

LIMITED WARRANTY

F.E. Myers warrants the grinder pump, electrical controls, and all system components to be free of defects in material and workmanship for one year from date of installation, providing it is within 18 months from date of manufacture.

F.E. Myers will repair or replace directly or through its agents defective parts free of charge within the warranty period.

Warranty does not cover labor to remove or replace the equipment and does not include freight, consequential or incidental damage.

Misuse or abuse of the equipment is not covered by the warranty.

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