



1500 Frost Rd. | P.O. Box 2068 | Streetsboro, Ohio 44241 330.626.2801 | support@permco.com

Common Installation Instructions

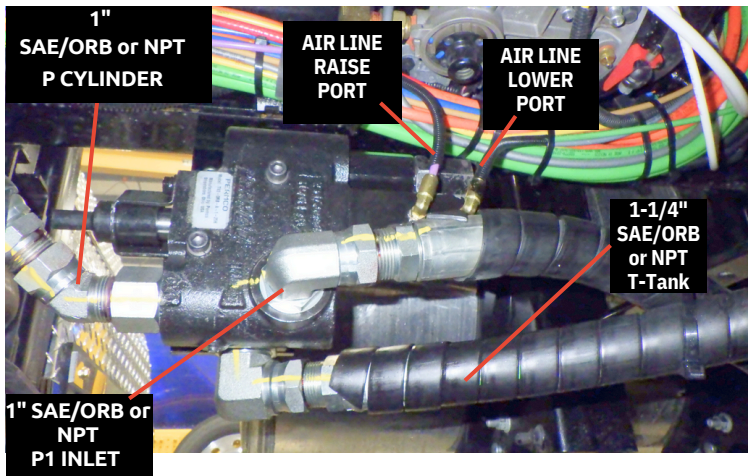
Product designed for Single Acting Cylinder & Walking Floor applications.

1. The vehicle must be securely "locked out" before any work is performed on the hydraulic circuit. Never work on a raised dump bed without proper body props and supports.
2. Follow PTO/Truck Chassis Manufacturers Guidelines for PTO connection(s) to ECMs/TCMs to control operating parameters.
3. Prior to PTO engagement, ensure the Hydraulic Pump has unobstructed oil supply!
4. PTO should be properly disengaged PRIOR to lowering the bed and before vehicle movement.

LIL Tipper II - TV2

PLUMBING INSTRUCTIONS

(Top View)



1" NPT fitting torque not to exceed 130 ft. lbs.
1-1/4" NPT fitting torque not to exceed 160 ft. lbs.

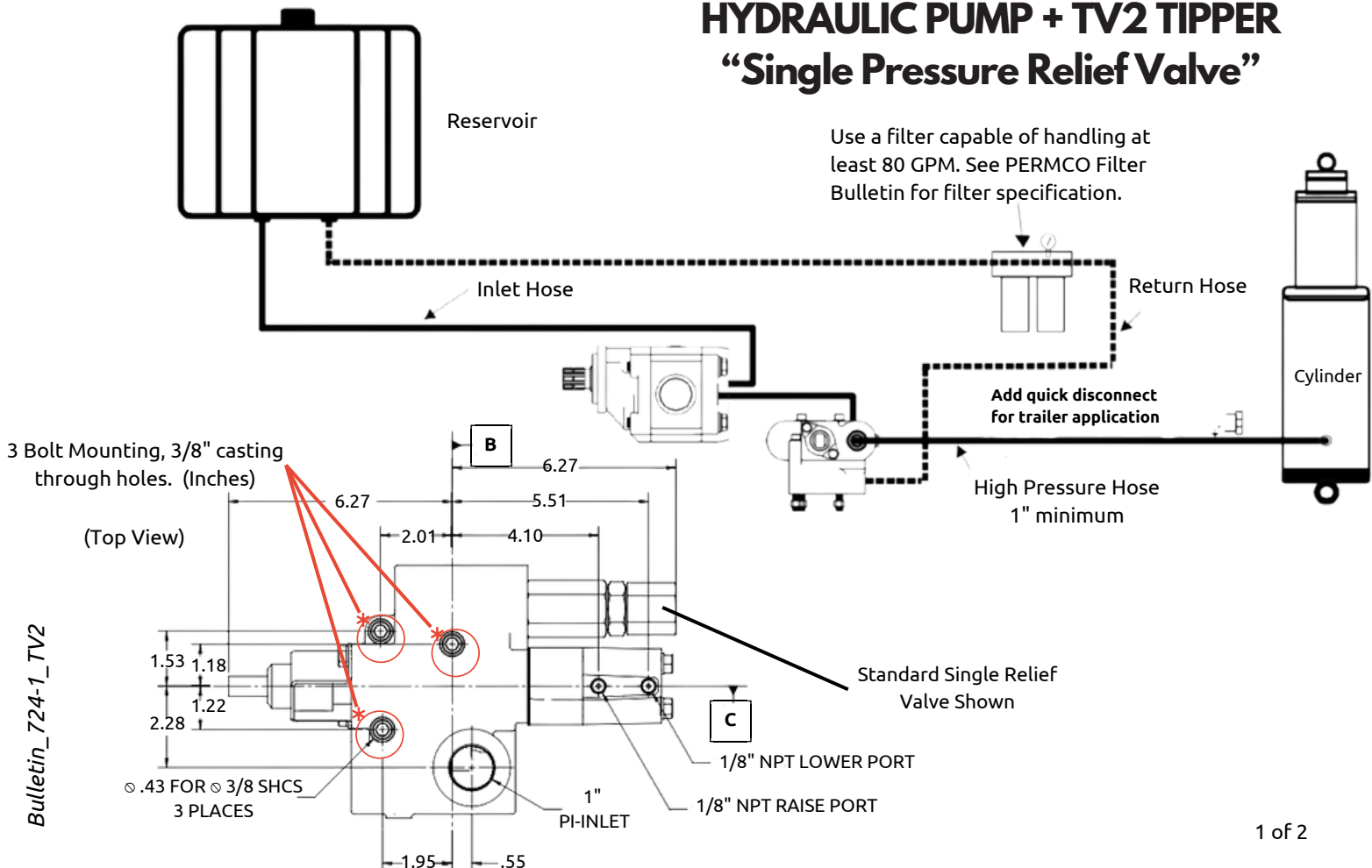
When using NPT Fittings, the use of Loctite Primer 7649 and Loctite Sealant 567 is recommended for thread sealant. Do not use Teflon Tape as a thread sealant. The use of Teflon Tape will void all warranties expressed or implied for this product.

Three Lines to connect. (P, P1 and T ports are marked on the casting).

1. 1" P1 from Pump.
2. 1-1/4" T-Tank, Return to Reservoir.
3. 1" P-Cylinder or work circuit.

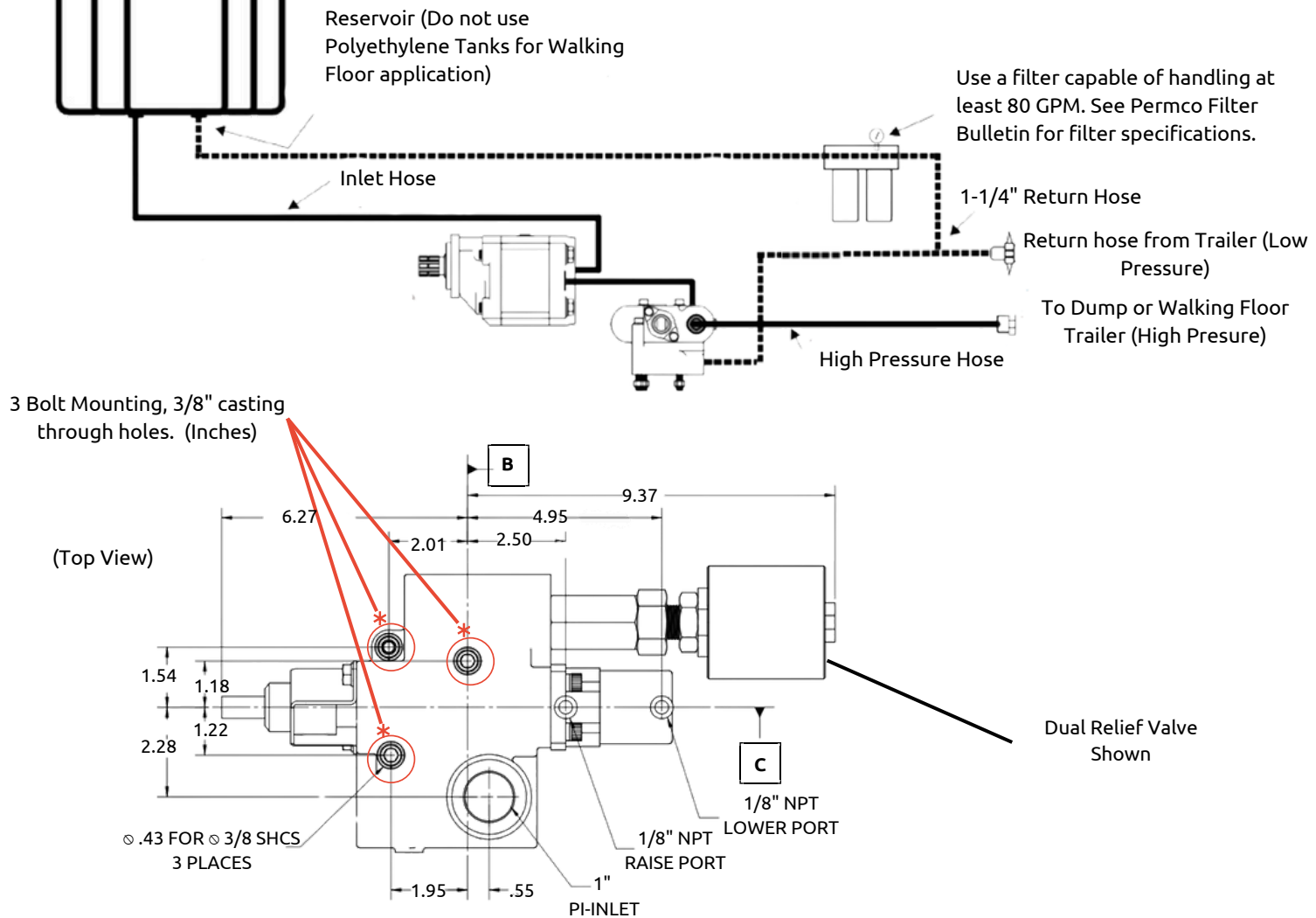
The relief valve setting should be verified before the equipment is put into service. Relief valves available: 2000, 2500 or 3000 PSI (+/- 5%). Dual Pressure Relief Valve is optional: 2500/3200 PSI.

HYDRAULIC PUMP + TV2 TIPPER "Single Pressure Relief Valve"



Bulletin_724-1_TV2

HYDRAULIC PUMP + TV2 TIPPER “Dual Pressure Relief Valve”



Installation Review & Recommendations

1. Use correct pressure and return line rated hose. Incorrect hose and/or size may prevent Tipper Valve from performing properly.
2. Caution, do not over-tighten NPT fitting. See maximum torque values shown above.
3. All fluid connections on the Reservoir must be below the minimum fluid level with the cylinder fully extended.
4. A return line diffuser is required if the Reservoir does not have an internal baffle.
5. When a top Reservoir return port is used, a long drop tube should be installed and located on the opposite side of suction port.
6. Oil should NOT exceed an ISO 4406 cleanliness level of 19/17/14.
7. Oil temperature not to exceed 180 °F.
8. System GPM should not exceed 46 GPM or 3200 PSI.
9. After installation, verify there are no leaks, and the reservoir has the correct fluid level.
10. When replacing an existing pump, always filter or replace hydraulic fluid to remove contaminants.