

APTV-100 Single Pressure Tipper Valve

Installation and Operation Instructions

Please read the following information before installation. A visual inspection of this product for damage during shipping is recommended prior to installation. It is your responsibility to ensure that qualified technicians install this product.



Warning: High Pressure oil can cause severe injury. Turn off PTO and bleed pressure before servicing hydraulic system.



Caution: Surface May be Hot. Ensure PTO is off and unit has cooled before servicing.

Never loosen or tighten a hydraulic connection when the system is under pressure. Catastrophic failure of the connection can result in an injection injury or damage to property.

Never use your hand to locate a leak in a hydraulic line. Because hydraulic fluid is highly pressurized, compressed fluid released through a leak can penetrate the skin or eyes, causing severe injury, such as gangrene. Injection injuries from high-pressure hydraulic fluid require immediate medical care.

When trying to locate a leak in a hydraulic line, wear eye protection and gloves. Run a piece of paper, wood, cardboard, or Plexiglas along the hydraulic line to determine the location of the leak. Always relieve the hydraulic pressure in an operating system before detaching or attaching a hydraulic line to make necessary repairs.

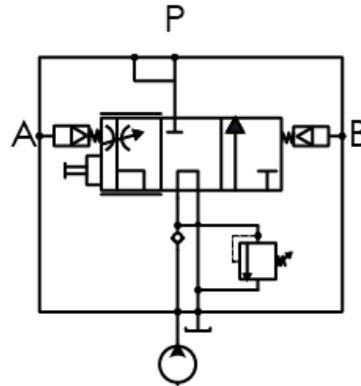
Never set relief valve to a pressure higher than the lowest pressure rated component in the system

Shut off the engine before working on the PTO or driven equipment. Do not work on or near an exposed shaft when the engine is running.

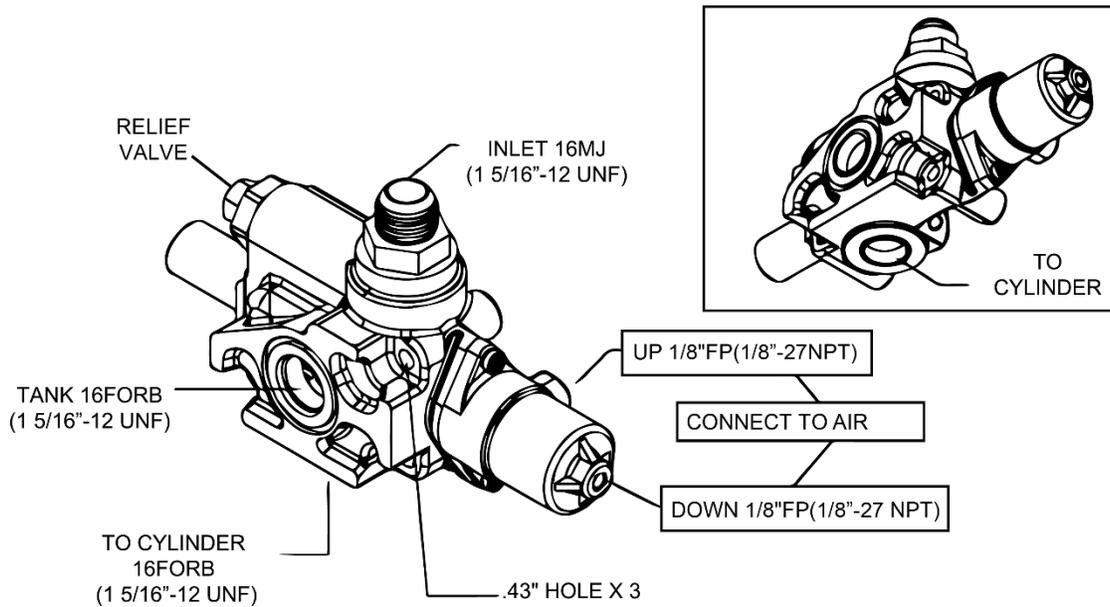
Overview

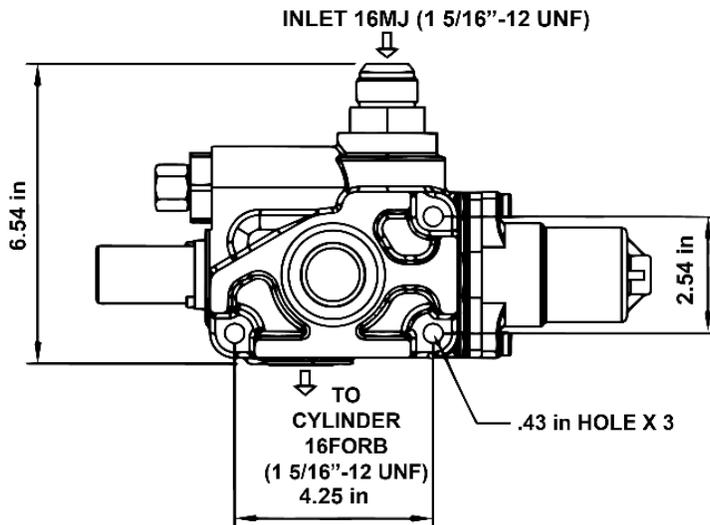
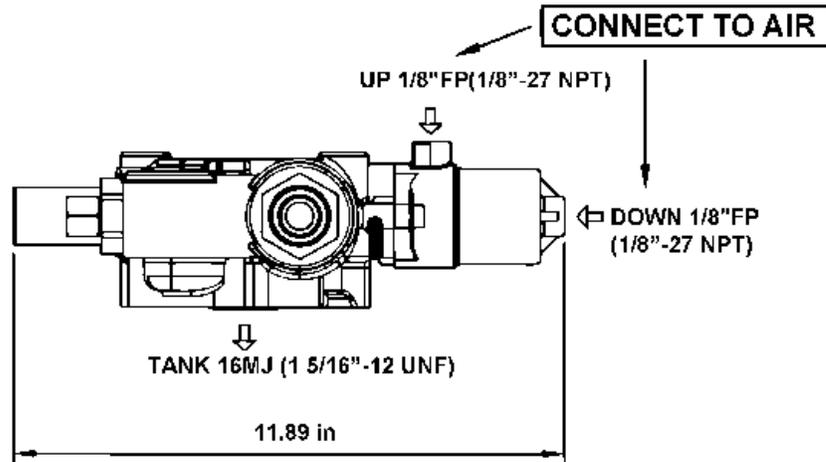
The APSCO APTV-100 is a pneumatically operated hydraulic tipping valve. The control valve works well with both dump trucks and dump trailers. The valve is open center and includes a check valve on the pump input port as well as a built-in adjustable relief valve.

- 66GPM Max Flow Rate
- 2000psi Factory Set Single Pressure Relief Valve
- Mounts to Chassis or Tank
- 3625psi Max Operating Pressure
- Built in Inlet Check Valve



Installation





Set relief valve:

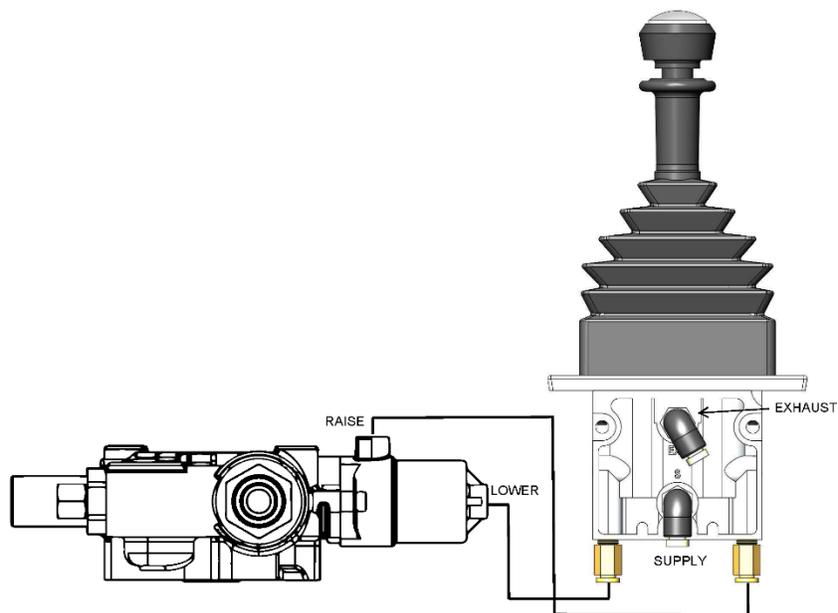
Stock relief valve pressure setting is 2000PSI. To adjust relief valve, remove cap and turn adjustment screw a quarter turn for every 100PSI. Clockwise to increase relief pressure and counterclockwise to decrease pressure. Reinstall relief valve cap with blue thread locking compound.

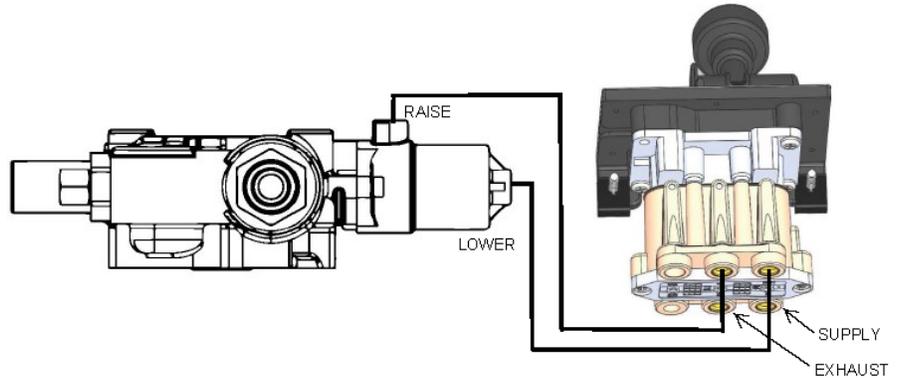
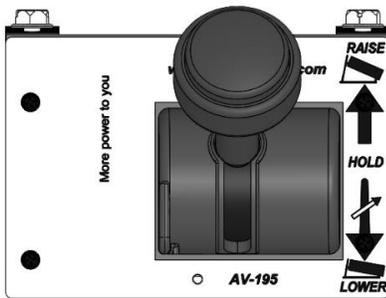
Mounting Options:

The APTV-100 comes with 1/4" tube quick connect air fittings for the air actuator and an O-ring for use when the valve is direct mounted to the tank, allowing direct oil return. The APTV-100 is typically mounted between the trucks frame rails to protect the valve from road debris. Mount valve to a flat surface to prevent spool binding.

Operation

The APSCO Tipper Valve APTV-100 is used to control pump flow to a dump cylinder. The APTV-100 mounts to the tractor, and is controlled from inside the cab, typically using a pneumatic valve, such as an APSCO VM8 or AV-195. The in-cab air control pneumatically activates the tipper valve, which controls the flow of oil to the cylinder. The air control has three positions, Raise, Hold, and Lower. Moving the controller to the Raise position causes oil flow to extend the cylinder. In Hold, the cylinder is held in position. In Lower, oil is returned from the cylinder back to tank allowing the cylinder to lower.





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