

**QUICK TEST PUMP:**

Quick test pumps have a small displacement. Minimize the volume to be pressurized. Install a shut-off valve close to the instrument and make your test connection between the valve and instrument. Internal parts of pump are made of Buna-N rubber, aluminum, brass and stainless steel. The pump can be used with oil, water or other compatible fluids. Use of water will accelerate wear of 'O' rings and some sticking of piston may result. The recommended fluid is any petroleum based hydraulic oil, light weight motor oil or mineral oil. Do not use brake fluid or synthetic oils, they may crack the Lexan reservoir or cause swelling or decomposition of the 'O' rings. Always keep the pump primed. To prime the pump put a small amount of hydraulic fluid in the reservoir. With the bleed-off valve open squeeze the handle. Fluid should circulate out the bleed-off valve hole back into the reservoir. This may take several squeezes of the handle. If pump will not prime remove the reservoir and insert a small wire into inlet check valve hole to make sure check valve moves freely. Squirt oil into the inlet check valve while squeezing and releasing handle. When pump is connected to an instrument and pressurized you will note a slight drop-off of pressure. This is caused by the natural stretching of the hose. This is temporary and the pressure soon reaches equilibrium.

**OPERATION OF THE PUMP:**

Connect hose end to the brass adaptor on the pump. As hose is connected to the adaptor it opens a small check valve in the adaptor. Always store pump with hose disconnected to prevent oil leakage. Connect other end of the hose to the instrument to be calibrated. With bleed-off valve (plastic coated handle opposite the hose connection) open, squeeze the handle several times to make sure fluid is flowing back into the reservoir through the hole above the bleed-off valve. Shut the bleed-off valve. Pump should pressure up. Pressurize to about 50 psi below desired pressure. Use fine tuning vernier (non-coated handle facing out the front of the pump) to carefully adjust pressure to desired amount.

**TROUBLESHOOTING:**

**IF PUMP WILL NOT PUMP:** It has probably lost it's prime. See (QUICK TEST PUMP) above. The pump will not pressure up the system unless liquid is first flowing freely back into the reservoir. Dirt under one of the check valves may cause liquid to not flow freely back into the reservoir. Remove, clean and replace check valves.

**IF PUMP WILL NOT HOLD PRESSURE:** It is leaking internally or externally. If leak is not visible externally it may be at one of three place internally (inside reservoir): 1. around brass screw above brass plug, 2. around brass plug or 3. around outlet check valve under brass plug. If pressure goes up when handle is squeezed and drops when handle is released then dirt is under the outlet check valve. Remove brass plug, clean check valve and replace.

**PARTS PRICE LIST**

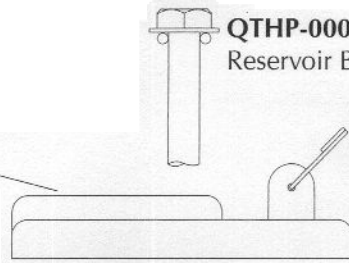
**QTHP-0002**  
Vent Plug



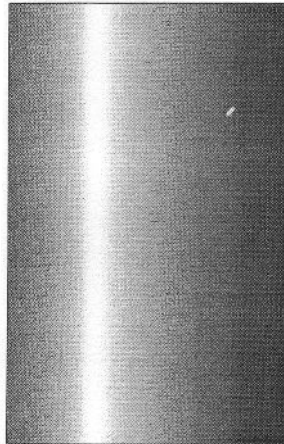
**QTHP-0004**  
Reservoir Bolt & O-ring



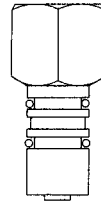
**QTHP-0006**  
Reservoir Top Casting



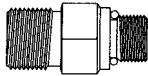
**QTHP-RESV**  
Reservoir & Gaskets



**SWIV-0000**  
Gauge Swivel Fitting



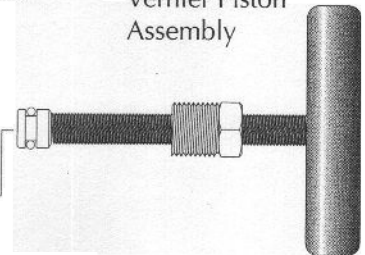
**QTFT-3SB0** (XH Series)  
**QTHA-3SB1** (HP Series)  
Outlet Fitting



**QTHP-0010**  
Outlet Check Valve  
Assembly



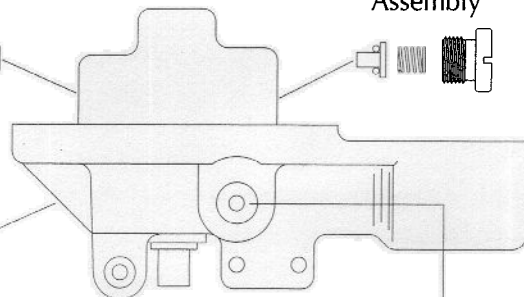
**QTHP-0014**  
Vernier Piston  
Assembly



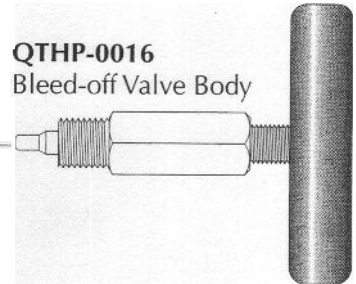
**QTHP-0008**  
Inlet Check Valve  
Assembly



**QTHP-0011** (HPOV)  
**QTHP-0012** (HPGV)  
**QTHP-0013** (XHOV)  
**QTHP-0015** (XHGV)  
Body Casting with Piston



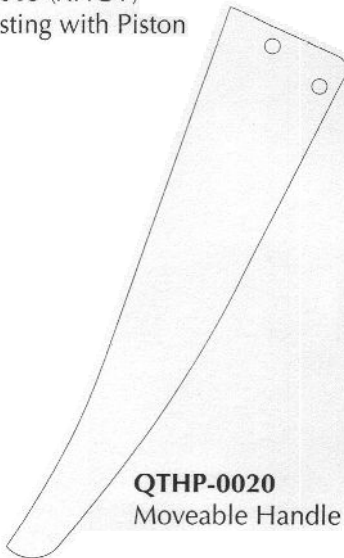
**QTHP-0016**  
Bleed-off Valve Body



**QTHP-0018**  
Bleed-off Valve Stem



**QTHP-0020**  
Moveable Handle



**QTHP-0022**  
Fixed Handle

