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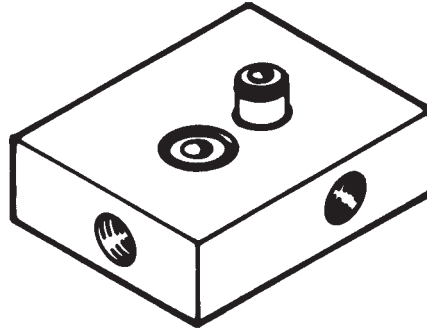
Form No. 102469

## Operating & Installation Instructions for.

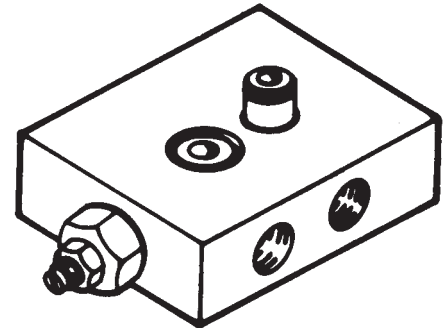
9620 Y-30547  
9621 Y-30588  
S1A

# VALVE SUBPLATE BLOCK

SPECIFICATIONS	
MAX. WORKING PRESSURE	10,000 PSI
MAX. FLOW RATING	5 GPM
PORT SIZES	3/8 NPTF



**SUBPLATE BLOCK  
NO. 9621, Y-30547**



**SUBPLATE BLOCK  
REGULATOR VALVE ASSY.  
NO. 9620, Y-30588, S1A**

These subplate blocks are manufactured and assembled to exacting standards. Read and carefully follow the operating instructions before installation and use of this assembly.

### NOTE:

- Inspect the subplate upon arrival. The carrier, not the manufacturer, is responsible for any damage resulting from shipment.
- Read and carefully follow these instructions. Most problems with new equipment are caused by improper operation or installation.

## SAFETY PRECAUTIONS

### Hydraulic Hose

**⚠ WARNING:** To help avoid personal injury,

- Before operating the pump, tighten all hose connections using the proper tools.
- Do not overtighten the connections. Connections need only be tightened securely and leak-free. Overtightening may cause premature thread failure or high pressure fittings to split at pressures lower than their rated capacities.
- Shut off the pump motor before breaking any connection in the system. Shift the flow control valve two times to release all system pressure.
- Should a hydraulic hose ever burst or rupture, immediately shut off the pump. Never attempt to grasp a leaking hose under pressure with your hands. The force of the escaping hydraulic fluid could cause serious and permanent injury.
- Avoid any conditions which could damage the hose and impair the pump or valve's performance. Never allow the hose to kink, twist, curl or bend so tightly that the oil flow within the hose is blocked or reduced. This could damage the hose and possibly result in serious injury to persons working in the immediate vicinity.
- Do not subject the hose to any potential hazard (ex: fire, extreme heat or cold, heavy impact or sharp surfaces) which might rupture or weaken the hose.
- Do not use the hose to lift or move the equipment connected to it.
- Periodically inspect the hose for signs of wear. Never use a defective hose with any pressurized equipment.
- Always consult the manufacturer before painting the hose(s). Never paint the couplers!
- Hose material and coupler seals must be compatible with the hydraulic fluid used.
- Avoid contact with creosote-impregnated timber or fabrics.

Sheet No. 1 of 2

Rev. 1 Date: 25 May 2012

## Safety Precautions, (Continued)

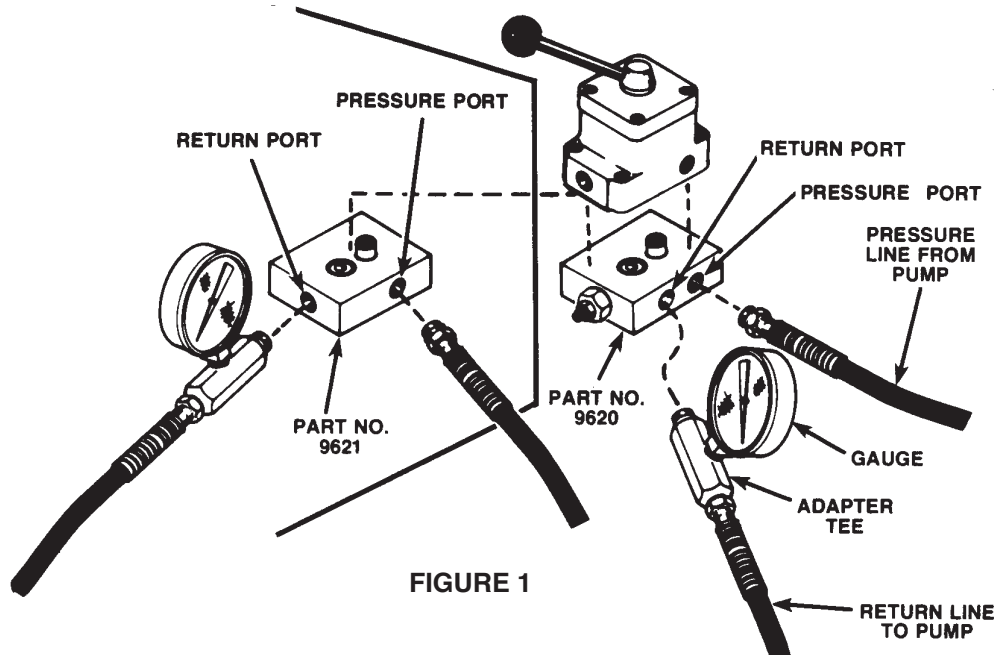
### Control Valve

#### **⚠️ WARNING:**

- Do not install quick couplers or allow restrictions in the hydraulic return line located between the hydraulic pump and a remote valve set-up.
- Do not allow the valve case pressure (as measured on the return line from valve to pump at the valve) to exceed 500 PSI. Refer to case pressure check as detailed in the valve set-up procedure in these instructions.
- Do not exceed either the pump, the control valve or the cylinder's hydraulic pressure rating.

## SUBPLATE MOUNTING PROCEDURE

1. Mount the subplate with the control valve as shown in Figure 1.



2. Apply Power Team HTS-6 thread sealant or PTFE tape to the external threads of the hydraulic components that will be attached.

**IMPORTANT:** Seal all external pipe connections with a high-quality, nonhardening thread sealant, such as Power Team HTS6. PTFE tape can be used to seal hydraulic connections if only one layer of tape is used. Apply the tape carefully, two threads back, to prevent it from being pinched by the coupler and broken off inside the system. Any loose pieces of tape could travel through the system and obstruct the flow of oil or cause jamming of precision-fit parts.

3. Install a temporary set-up of a hydraulic gauge mounted to a tee adapter, directly into the oil return port of the subplate (see Figure 1).
4. Install all hydraulic hoses from the pump and the cylinders into the remote valve set-up.

**NOTE:** Refer to control valve parts list or operating instructions for porting information.

#### **⚠️ WARNING:** Do not install quick couplers in the oil return line between the pump and the valve.

5. Recheck all hydraulic installation fittings. Then fully advance and retract all cylinders through several cycles. Check the pressure gauge installed on the return line observe the return oil pressure as the valve is cycled through the advance, neutral (hold), and return positions.

#### **⚠️ WARNING:** Return line oil pressure between the valve and pump must not exceed 500 PSI. If return line pressure exceeds 500 PSI:

- Switch to a larger diameter return line.
- Do not use quick couplers on the return line.
- Eliminate as many bends and restrictions in the return line as possible.

6. If return line pressure is within the 500 PSI maximum limit, remove gauge and tee adapter. Connect return line into subplate return port.

Note: Shaded areas reflect last revision(s) made to this form.

## REGULATOR VALVE ADJUSTMENT

Subplate Block No. 9620 is equipped with a pressure regulating valve that is adjustable to any pressure between 1,000 PSI and 10,000 PSI.

### IMPORTANT:

- **Adjust the pressure regulating valve by increasing it to a desired setting. Do not adjust by decreasing from a higher to a lower pressure.**
  - **Place pipe plugs, as shown in Figure 2, in the control valve ports when adjusting the pressure regulating control or fully extend all cylinders.**
1. Loosen lock nut on the pressure regulating valve and turn the adjusting screw counterclockwise to decrease the pressure setting to a lower than desired setting (see Figure 2).
  2. Connect the pump power supply and place the hydraulic flow control valve in the "advance" position. Set the motor control switch on "Run".
  3. Slowly turn the adjusting screw in a clockwise direction. This will gradually increase the pressure setting. When the desired pressure setting is reached, lock the adjusting screw in position by tightening the locknut.

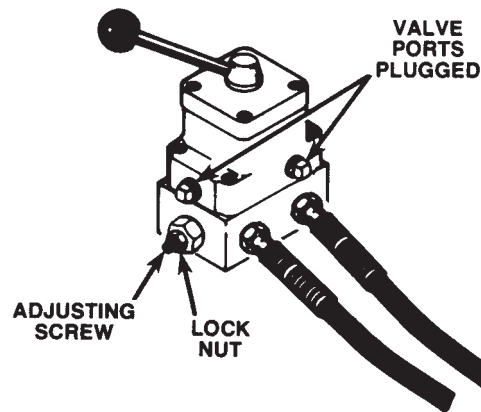


FIGURE 2