POWER TEAM
HYDRAULIC TECHNOLOGIES

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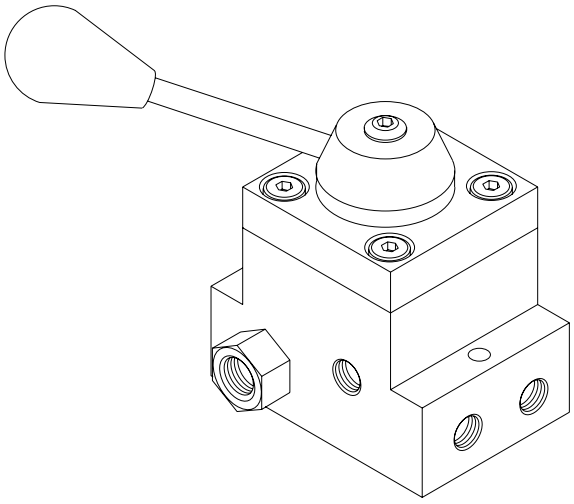
Form No. 102847

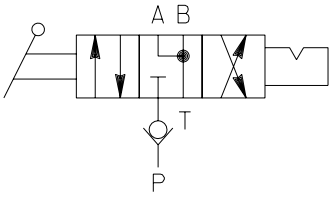
Operating Instructions for:

100843

MODEL B
THREE POSITION, 4-WAY MANUAL
VALVE ASSEMBLY
Max. Capacity: 5,000 PSI

Specifications	
Max. Working Pressure	5,000 PSI
Max. Flow Rating	5 GPM
Max. Valve Case Pressure (Return Tank Line)	500 PSI





HYDRAULIC SCHEMATIC

FUNCTION:
"CENTER" POSITION:
PRESSURE IS BLOCKED
"A" & "B" PORTS TO TANK
"A" POSITION:
PRESSURE TO "A" PORT
"B" PORT TO TANK
"B" POSITION:
PRESSURE TO "B" PORT
"A" PORT TO TANK

SAFETY PRECAUTIONS

WARNING: To help avoid possible personal injury,

Before operating pump, all hose connections must be tightened with the proper tools. Do not overtighten. Connections should only be tightened securely and leak-free. Overtightening can cause premature thread failure or high pressure fittings to split at lower than their rated capacities.

Should a hydraulic hose ever rupture, burst or need to be disconnected, immediately shut off the pump and shift the control valve twice to release all pressure. Never attempt to grasp a leaking pressurized hose with your hands. The force of escaping hydraulic fluid could cause serious injury.

Do not subject the hose to potential hazards such as fire, heavy impact, sharp surfaces, or extreme heat or cold. Do not allow the hose to kink, twist, curl, or bend so tightly that the flow within the hose is blocked or reduced. Periodically inspect the hose for wear, because any of these conditions can damage the hose and possibly result in personal injury.

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SAFETY PRECAUTIONS (Continued)

Do not use the hose to move attached equipment. Stress can damage the hose and possibly cause personal injury.

Hose material and coupler seals must be compatible with the hydraulic fluid used. Hoses also must not come in contact with corrosive materials such as creosote-impregnated objects and some paints. Consult the manufacturer before painting a hose. Never paint the couplers. Hose deterioration due to corrosive materials can result in personal injury.

INSTALLATION

(Refer to Parts List #101441)

NOTE:

This valve has a low torque design for use with double-acting or single-acting actuators.

If this valve is to be used with single-acting cylinders, one port must remain plugged.

Valve handle can be moved to the desired position by loosening the cap screw and rotating in increments of 22-1/2°. Torque cap screw to 60/80 in. lbs. See Figure 1.

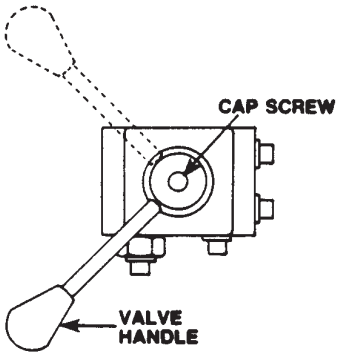

Figure 1

1. Remove the port plugs from the pump, valve, and actuators.
2. Apply Power Team HTS6 thread sealant to the threads of any hydraulic components to be attached. Teflon tape can also be used if only one layer ot tape is used. Apply tape carefully, two threads back, to prevent it from being pinched by the fitting and broken off inside the pipe end. Any loose pieces of tape could travel through the system and obstruct the flow of oil or cause jamming of precision-fit parts.
3. It is recommended that a gauge, mounted to a tee adapter, be temporarily installed directly into the oil return port of the valve. Return line pressure should not exceed 500 PSI. See Figure 2.

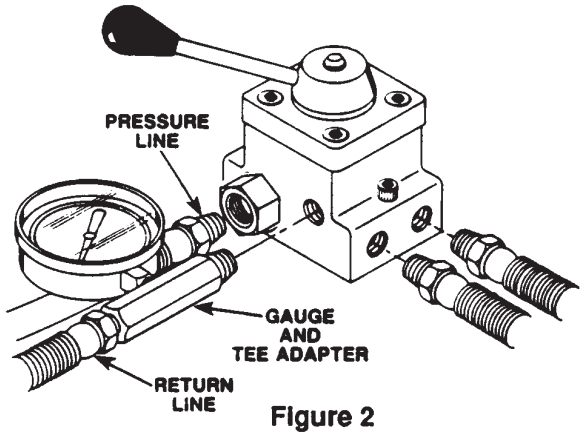

Figure 2

WARNING: To help avoid personal injury,
Do not install quick couplers in the oil return line between the pump and the remote mounted valve. Any condition that causes back pressure in a return line has the potential to damage the valve or cause a malfunction in the hydraulic system, possibly resulting in personal injury.

TYPICAL APPLICATION