

Marathon and Turbo: Hoists will have a third line/return line included in the installation carton. This third line will recirculate hydraulic fluid back to the reservoir minimizing the chance for the pump to overheat.

INSTALL CYLINDER HOSES – DOUBLE ACTING

For M53 series, install a 1 1/16 ORB male x 3/4 NPT female 90° swivel adapter in the power-up port on the cylinder. For M63 series, install a 1 1/16 ORB male x 1 NPT female 90° swivel adapter in the power-up port on the cylinder. Install a 3/4 ORB male x 3/8 NPT female 90° swivel adapter in the power-down port.

For M53 series, install a 1 1/16 ORB x 3/4 NPT 90° swivel adapter in the B (power up) port of the control valve. For M63 series, install a 1 1/16 ORB x 1 NPT 90° swivel adapter in the B (power up) port of the control valve. Install a 1 1/16 ORB x 3/4 ORB extension and a 3/4 ORB x 3/8 NPT 90° swivel adapter in the A (power down) port. Using a 60" long hose, connect the B port on the control valve to the power up port on the cylinder. Using a 60" long 3/8" I.D. hose, connect the A port to the power down port. This will raise the body when the valve control lever is pulled back and lower the body when the lever is pushed forward.

INSTALL CYLINDER HOSE – SINGLE ACTING

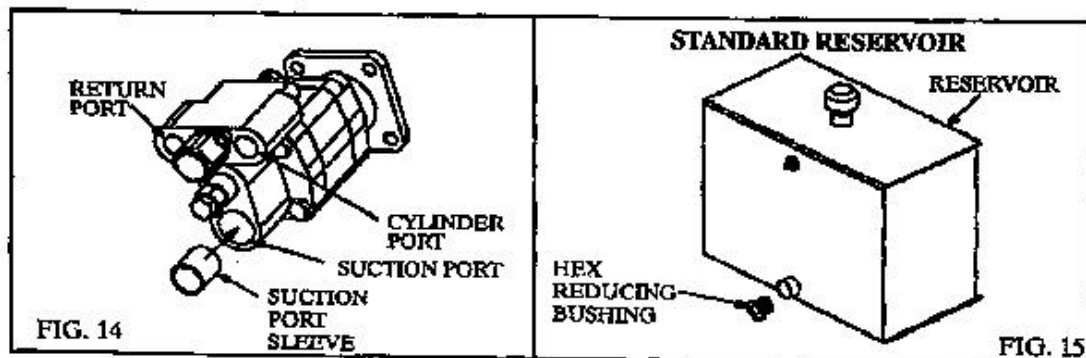
For M53 series, install a 1 1/16 ORB male x 3/4 NPT female 90° swivel adapter in the port on the cylinder. Install a 1 1/16 ORB x 3/4 NPT swivel adapter in the work port of the control valve. Using a 60" long hose, connect the work port of the control valve to the port on the telescopic cylinder.

For M63 and M74 series, install a 1 5/16 ORB male x 1 NPT female 90° swivel adapter in the port on the cylinder. Using a 60" long hose, connect the work port of the control valve to the port on the telescopic cylinder.

INSTALL RETURN AND SUCTION HOSES

A return line hose must be installed for long pump life. A suction port sleeve has been installed in the suction port on the pump. (See Fig. 14.) This sleeve prevents the oil from recirculating inside the pump/valve and directs the oil flow out the return port. Operating this pump/valve without installing the return line will cause the pump/valve to fail.

For M53 series, install a 1 1/4 x 1 hex reducing bushing in the return port on the reservoir. Remove the plug from the return port on the control valve and install a swivel adapter in its place. Install a 72" long hose from the return port on the pump to the return port on the reservoir.



Install the 2" NPT x 1 1/2" hose barb in the suction port on the bottom of the frame-mounted reservoir, the 1 1/2" NPT x 1 1/2" hose barb for the doghouse reservoir, and the 1 1/4" NPT x 1 1/2" hose barb in the suction port on the back of the pump/valve. Connect a 1 1/2" I.D. suction hose from the