

Hydraulic Cylinder Testing Procedure

1. Place cylinder into the testing platform, making sure it is in line properly with the columns, and set the stops at about the midway point of the cylinder's extension range.
2. Attach the hose from an adequately filled and primed pump-can to the male fitting on the front of the cylinder, making sure that the fitting is tightly attached with tread tape, isn't loose in any way, and that the hose is secured and coupled correctly in place to allow for pressurization of the cylinder.
3. Turn the knob on the turn-valve on the top of the can to the position parallel with the hose, and begin pumping fluid into the cylinder.
4. As the cylinder fills, it will extend upward toward the stopper; keep pumping fluid into the cylinder until it reaches the stopper.

Note: If the cylinder is not extending, this is indicative of an equipment malfunction. The cylinder should be tagged as defective and set aside away from any other working or untested equipment of a similar nature.

5. Once the cylinder has reached this point, look down at the gauge on the turn-valve and continue to pump fluid into the cylinder, slowly. The force of the stopper against the force of the cylinder will make the needle move into the green "safe working range". Once this has been achieved, stop pumping.
6. Leave the cylinder in the testing platform, extended, with the needle in the green "safe working range" on the gauge for 5 mins. This time frame will verify that all parts of the cylinder's internal components are in working order and able to withstand the pressure they will be subjected to on the worksite. The counter-pressurization will also allow for diagnosis of any leaks the cylinder may be effected by, so attention must be paid to the fitting for the presence of any fluid being expelled in excessive amounts.
7. After this time allotment has passed, turn the knob to the left to release the pressure. You will also have to push the cylinder down some to remove it from the testing platform.
8. After the cylinder has been removed from the testing platform, push down again on the top of the cylinder to return the fluid from the fill cavity into the pump-can for future use.
9. At this point, you can detach the pump-can's hose from the fitting on the cylinder, as the test has now concluded and the equipment is in working order.