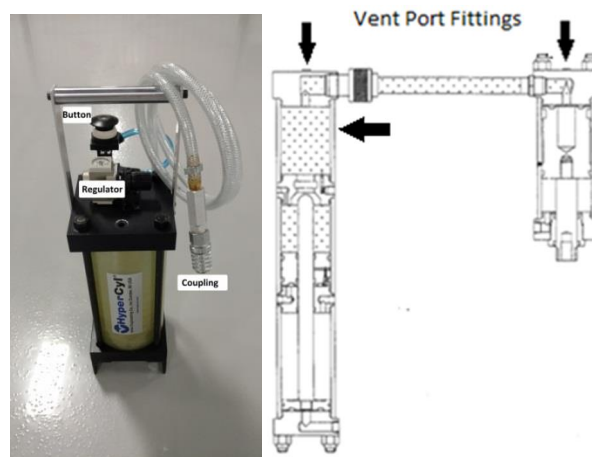




### HPS/HPX SERIES FILL AND VENT PROCEDURE – HFP-1

1. Fill the HFP-1 fill unit with ISO 32 oil or equivalent.
2. Attach air line to HFP-1, set regulator to 40 psi.
3. Retract the cylinder rod (energize B1) and block in retracted position.
4. Remove the black rubber dust cover from the cylinder fill coupling.
5. Depress the inner ring on the fill unit coupling to allow oil to flow. Depress the fill unit button and hold depressed until step 8. Once all air has been vented from the fill unit tubing, close coupling.
6. Connect fill unit to fill coupling on cylinder. Do not allow the fill unit can to get completely empty. Refill as necessary.
7. Once oil has stopped flowing from the fill unit, slowly loosen the vent port fitting on the cap of whichever unit is lower. **DO NOT REMOVE PLUG.** Once all air has been vented from the vent port fitting (free from bubbles) tighten vent port fitting. Repeat process on whichever unit is higher, working the hydraulic hose to ensure all air is allowed to travel to the highest vent port.
8. Release the fill unit button and allow air pressure to equalize.
9. Disconnect the fill unit from the cylinder.
10. Repeat steps 5 thru 9 until no air is noticed in fill unit tubing as air pressure is equalizing.



Note: Air must be applied to port “B2” to extend or retract cylinder rod. Always remember that air will travel to the highest point in any system. Any coil in the hydraulic hose will trap air. This fill and vent procedure will not remove air trapped in a coil of the hydraulic hose.