



**FSL – Inertech® Installation Guide Non-Selector Valve  
Systems (IG01, IG100, IG55 & IG541)**

**TO BE USED IN CONJUNCTION WITH FSL APPROVED  
INSTALLATION MANUAL**

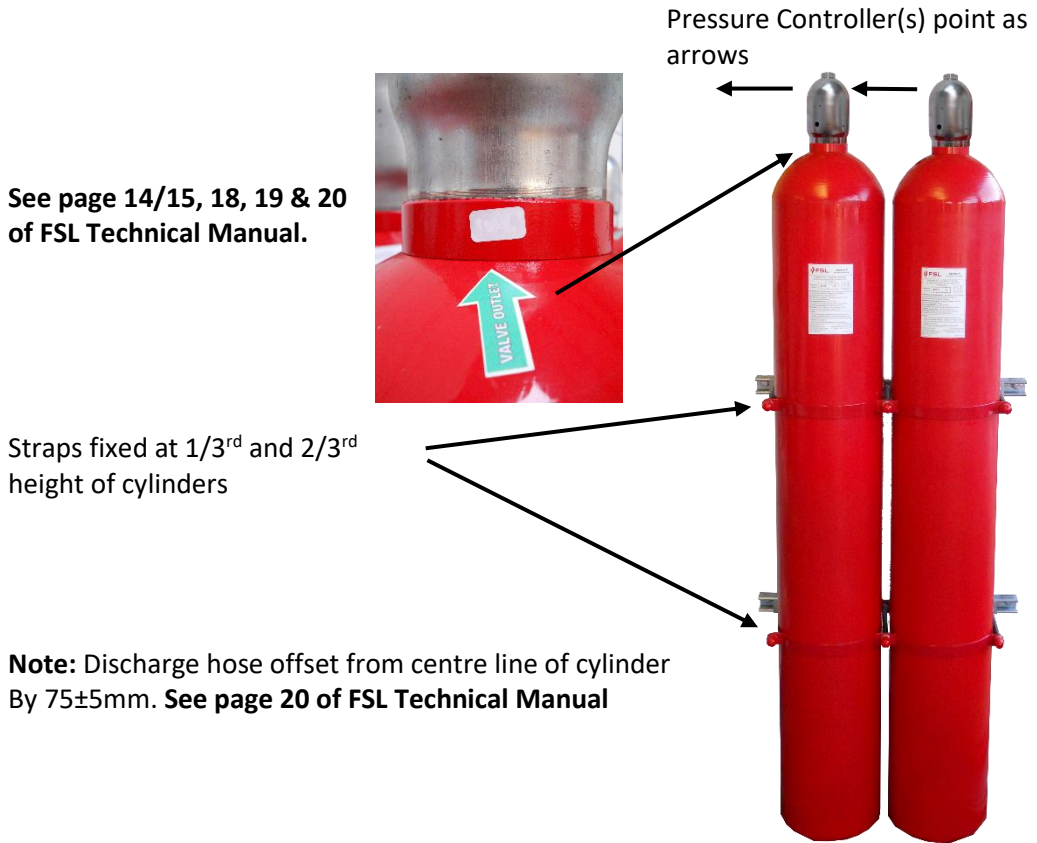
**Please note:**

Before System install; See page 22 of user manual.  
Discharge pipework and nozzle(s) to be fitted as per  
FSL hydraulic calculation. Pipework tested to relevant  
EN15004, ISO and NFPA standards. Unistrut, required  
as part of the cylinder strap and manifold installation  
(not provided by FSL), must be in place to retain  
cylinder(s)

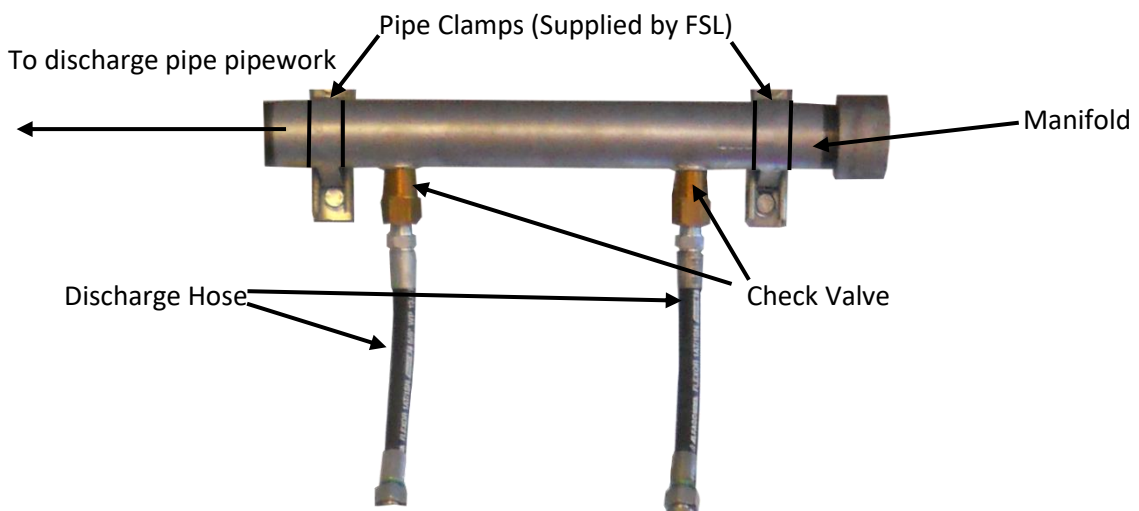
All tapered threads to be fitted using 2 turns of PTFE  
tape

**ALL PICTURES FOR ILLUSTRATION PURPOSES ONLY**

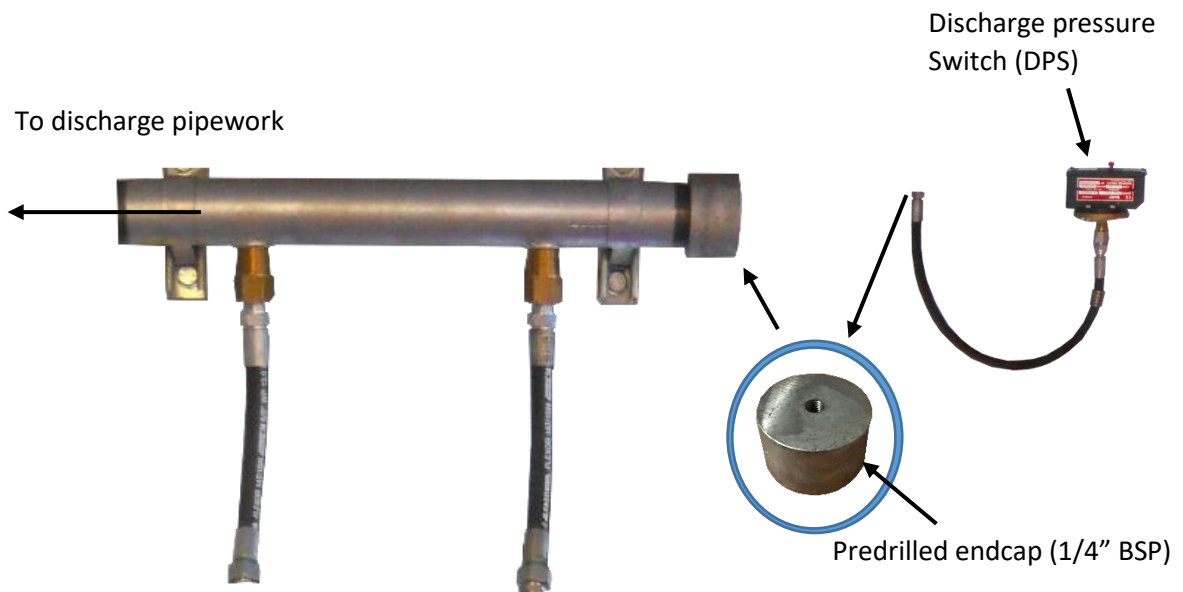
1. Fix cylinder to wall via Unistrut in correct orientation (outlet position indicated by sticker on cylinder shoulder).



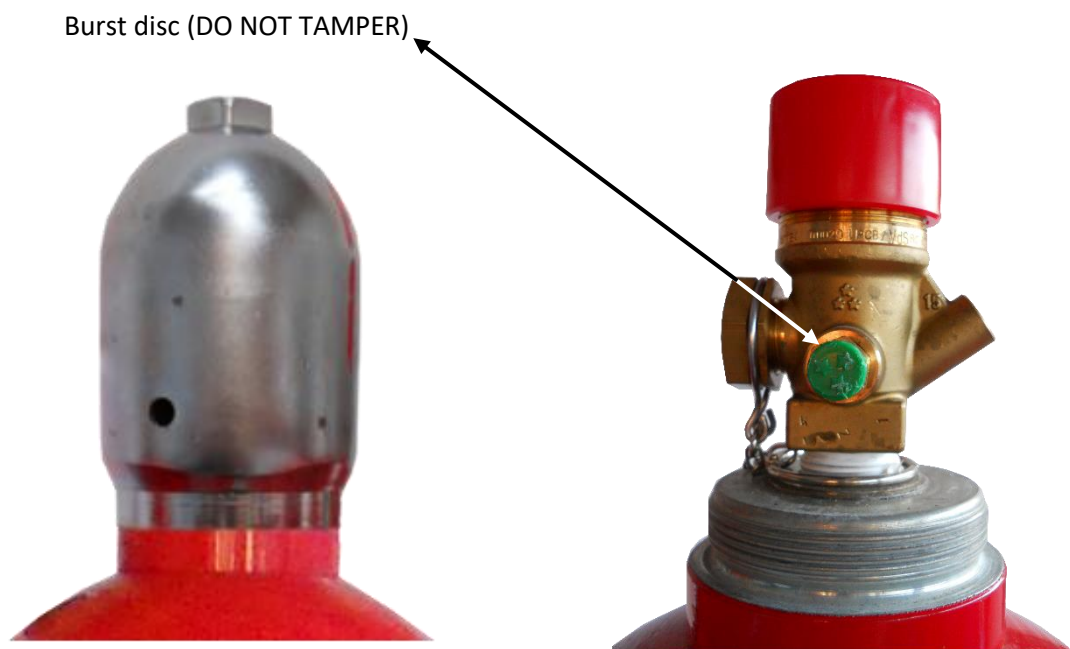
2. Fix check valves to manifold and discharge hoses to check valves. Check valves supplied with all discharge hoses for manifold systems. See page 23 of FSL Technical Manual.



3. Attach discharge pressure switch to manifold via predrilled endcap or to pipework via 'T' piece for single cylinder non-manifold systems.



4. Remove transport cap from cylinder(s).



- Attach pressure gauge(s). Screw in by hand or by using a 14mm spanner across the flats, then back off to orientate. Check pressure within cylinder is correct. **See page 16 of FSL Technical Manual.**



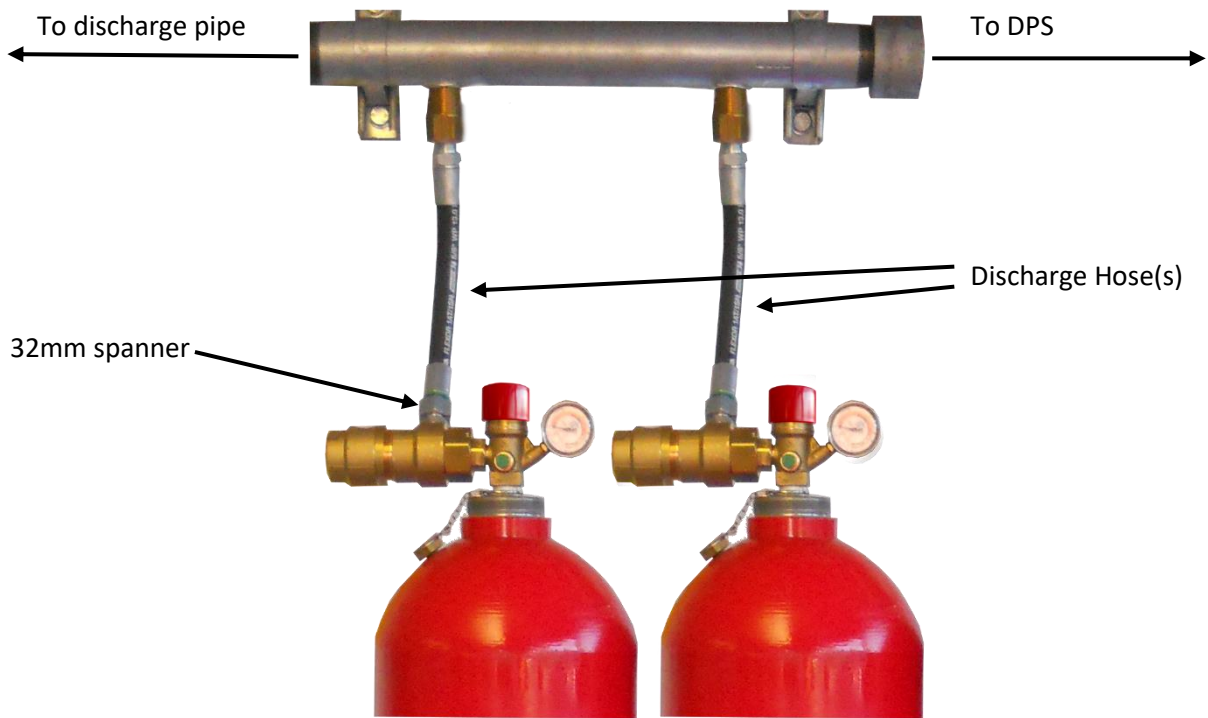
- Ensure the nylon seal is in place before attaching pressure controller(s) to cylinder valve outlet(s). **See Page 28 Of FSL Technical Manual.**

Pressure Controller

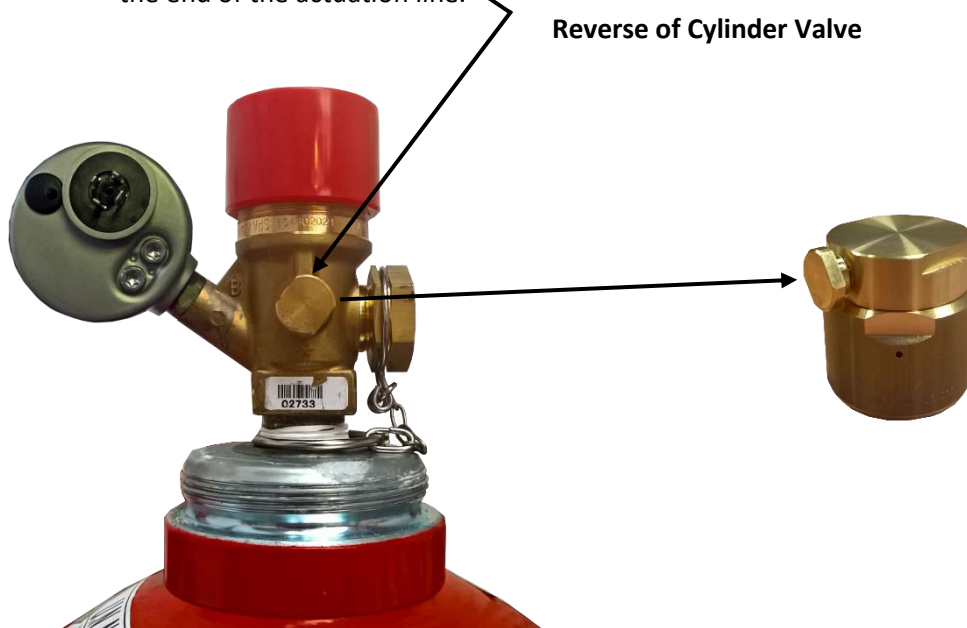
Tighten using AF 30mm spanner



7. Rotate pressure controller to align with outlet hose. Attach discharge hoses to pressure controller(s).



8. Remove actuation port plug from master cylinder and insert into pneumatic actuator at the end of the actuation line.



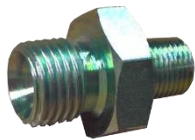
9. Attach pneumatic actuators to hoses on entire actuation line; attach right angle adaptor to actuation hose

10. Remove adaptor from master actuation hose. Screw adaptor into actuation port plug.  
See page 45 to 47 of FSL Technical Manual.

Right angle  
to master  
cylinder



End of actuation line



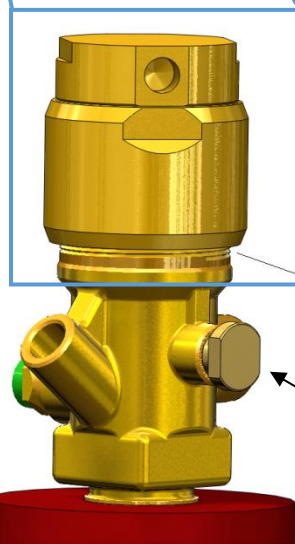
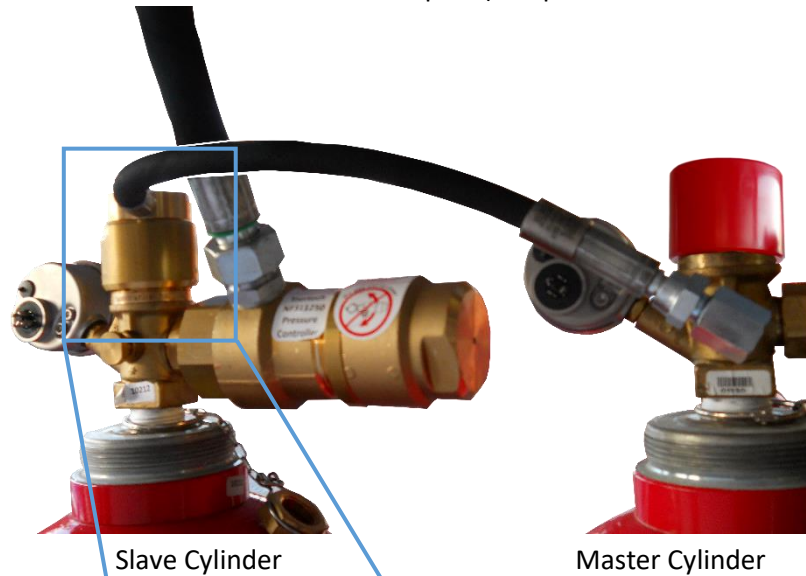
Adaptor



11. Attach actuation hose(s) (adaptor supplied). See page 44/45 of FSL Technical Manual.



12. Attach master actuation hose to valve port (complete actuation line to slave cylinders)

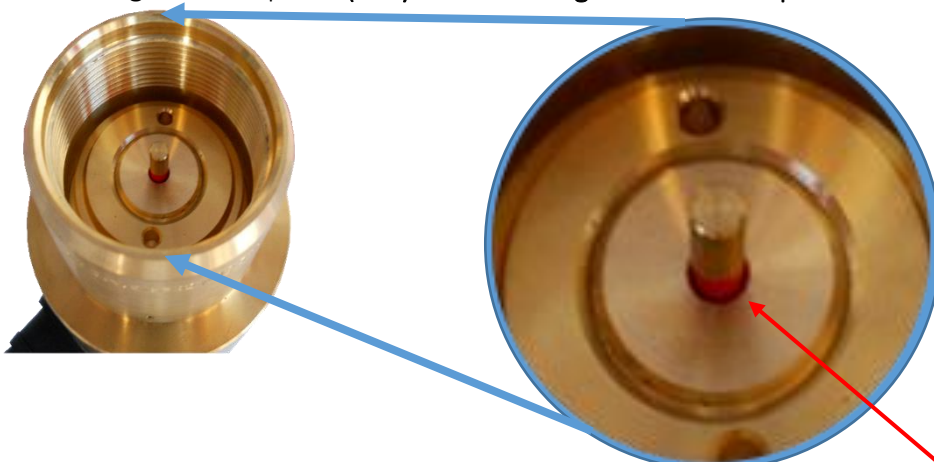


Using spanner (A/F 46mm) screw actuator down so that there are 2 threads showing on the cylinder valve connection and the actuator is tight.

G1/8 Plug removed and replaced with fittings as shown previously. Use the plug to seal the last pneumatic actuator for NON-selector valve systems. DO NOT discard.

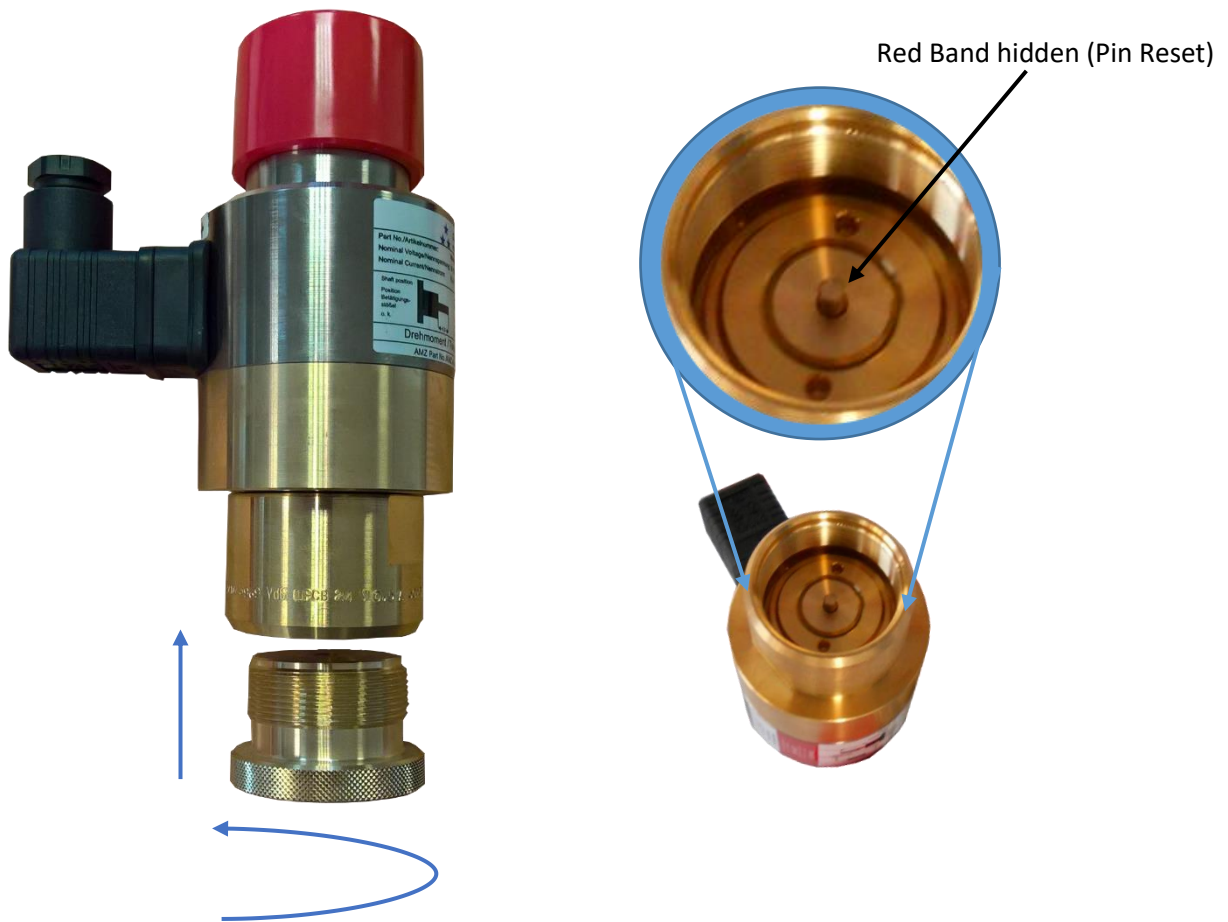
Testing solenoid panel (Only electrical engineers can complete this work)

a.

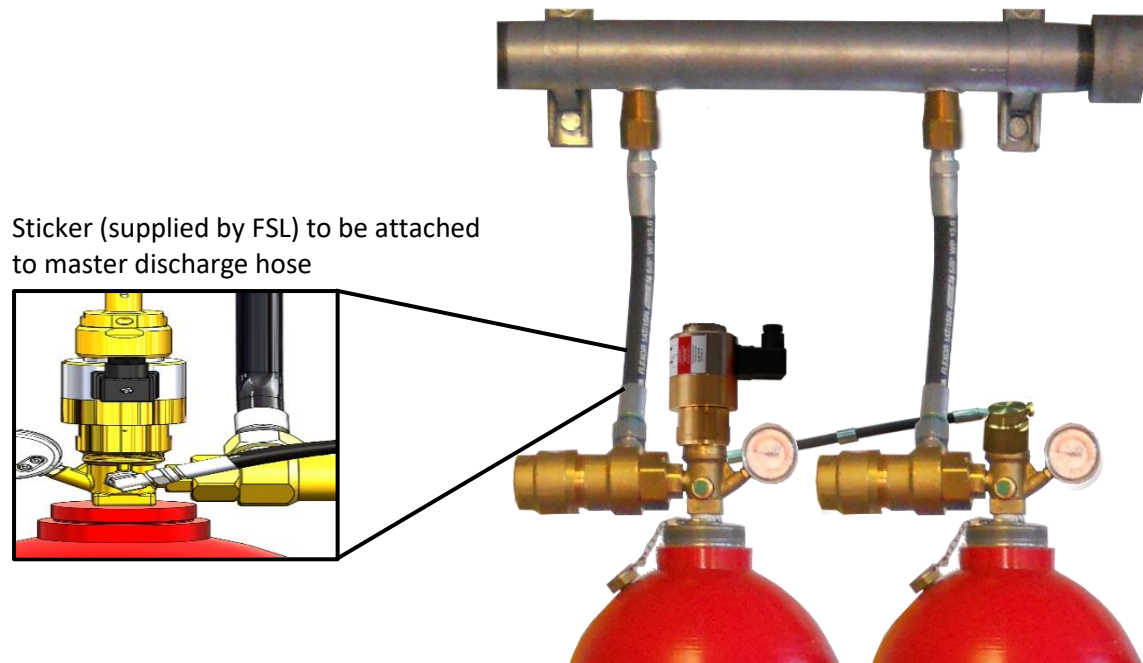


**Before attaching solenoid**, electrically actuate and ensure the pin fires to leave **red band showing**.

b. **Reset Solenoid actuator** before replacing by screwing reset tool in tight until a click is heard, keep screwing until fully tightened, check that pin is reset and band is no longer visible

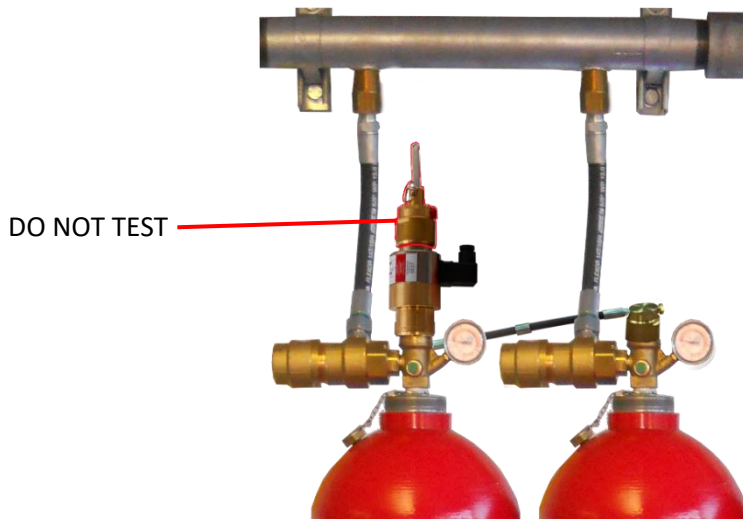


13. (After final testing by electrical engineer\*) Attach solenoid actuator to master cylinder.

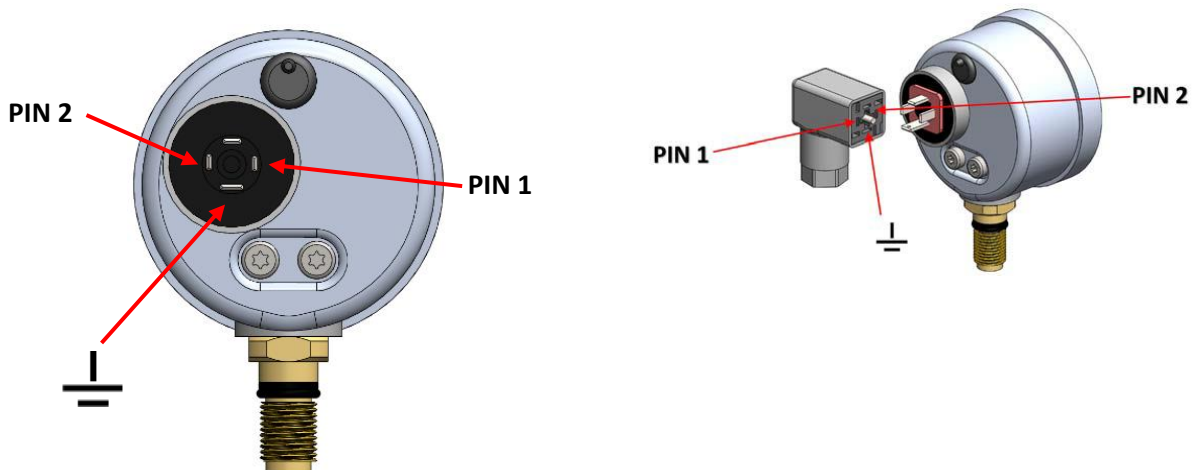




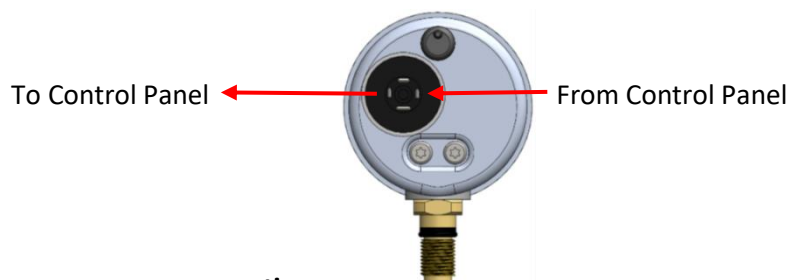
14. Attach Manual/pneumatic actuator to solenoid actuator



15. Connect (normally closed) Pressure gauge(s) to control panel (**Only qualified Electrical Technicians can complete this work**). NB Pressure gauge electrical switch will open (register a fault on panel) at low pressure in cylinder(s)



a. Single cylinder pressure gauge connection



b. Multiple cylinder pressure gauge connection

