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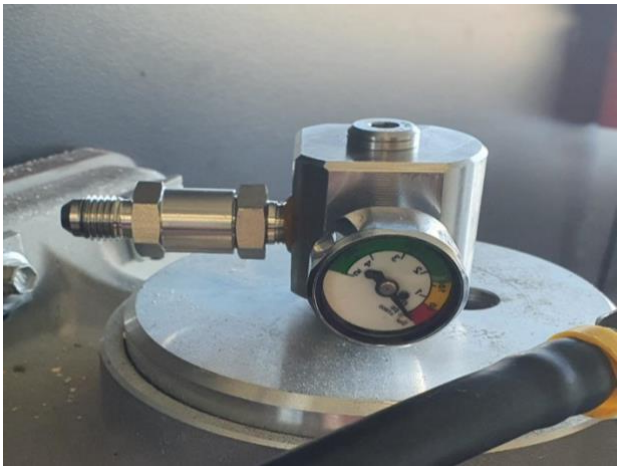
RECHARGE PROCEDURE

ENSURE THE CORRECT PPE AND SAFETY EQUIPMENT IS USED DURING THIS PROCEDURE

IF THE ACTUATOR AND CYLINDER GAUGE IS READING ZERO THE SYSTEM HAS DISCHARGED. PLEASE FOLLOW THE FOLLOWING DIRECTIONS TO RECHARGE THE CYLINDER

NOTE THE ISOLATION VALVE REMAINS OPEN FOR THE ENTIRITY OF THIS PROCEEDURE



1. Remove the discharge hose and elbow from the cylinder, insert the nipple (1/4 BSP to 7/16 JIC)

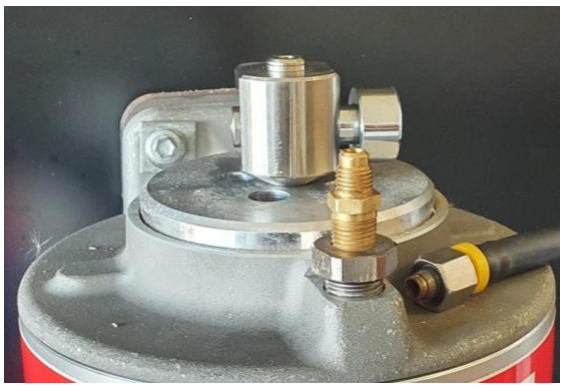


FIG 1 Picture shows elbow removed and nipple in place

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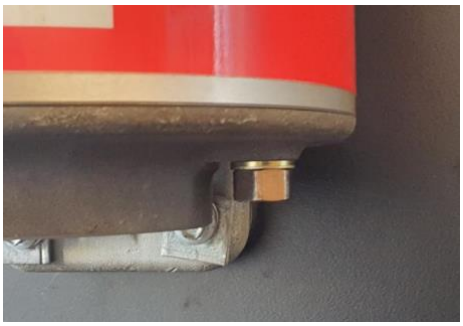

FIG 2 Vent valve

2. Ensure the isolation wheel is open and remove vent valve (FIG 2 - above). If residual pressure is present, use and O ring pick or Allen Key to press the centre of the vent valve in, this will release and residual pressure

3. With the vent valve removed, attach nitrogen to nipple on cylinder discharge port (fig 1) and slowly pressurize, you will hear the piston return to the bottom of cylinder. The piston indicator will be in the out position.



FIG 3 Piston indicator

4. Once the piston indicator is out (FIG 3), replace the vent valve.

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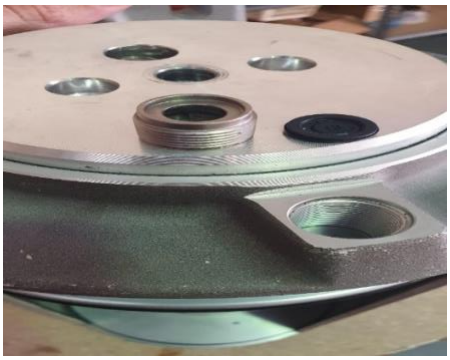
5. Remove the nipple and housing to change the burst disc. You will need a 10mm Allen key.



Burst disc removed from discharge port

6. Mix a 10 litre container with 200ml of foam and 10L water or 2%. Syphon or pour the agent into the cylinder using a funnel or thin tube to syphon. The opening is quite small so this will take a few minutes. A tube like burn tube is easy to syphon into the cylinder. Fill until over flowing.



Cylinder being filled from premix foam – fill until it over flows

7. Replace burst disc with new item. Refit the hex key section and replace the discharge fittings and hose.



BURST DISC



LOCATION ON TOP OF CYLINDER



BURST DISC IN PLACE

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BURST DISC AND INSERT SECTION

8. Charge the detection system with nitrogen to the top of the green on the actuator gauge via the manifold block – make sure isolation valve is open.



Brass charging port for detection line- charge to the top of the green on actuator gauge

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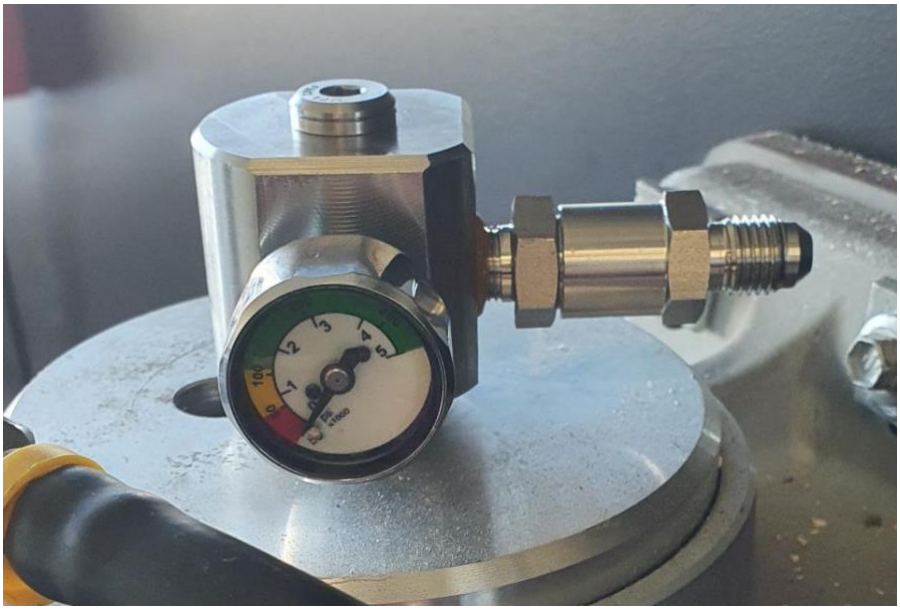
9. Conduct leak test using soapy water in a spray bottle over the detection network

10 If the detection network is leak free, charge the cylinder via the gauge set on top of the cylinder to the green zone. Preferred pressure is 150 – 200 BAR. You will need a 20,000kpa outlet pressure nitrogen regulator



Cylinder charge port to the right. Replace cap after charging.

NOTE: THE CYLINDER CHARGE SECTION CAN SWIVEL ON THE CYLINDER

11 Replace nozzle caps on each nozzle.
12 Ensure the isolation valve is still open.

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