Test gas cylinder valves prior to use and during refilling for possible leaks.

Gas refiller:
Gas filler to check for gas leaks every time he refill the cylinder.

Users:
Users to test LPG cylinder for leaks prior to use.
Leak testing should be done at home before using a cylinder.

Test for leaks on the valve by applying luke warm soapy water on the valve – bubbles will indicate the leak area.

Determine where the leak is:
There are three possible leakage areas.
1. Thru the valve itself when it is closed. (This is where you screw the regulator in)
   A leak in this case is usually caused by damage to the valve seat.
2. Thru seals on the valve spindle.
   To detect this you have to block the valve outlet and check for a leak with soapy water
3. At the point where the valve is screwed into the cylinder.

IN ALL SITUATIONS LEAK TESTING SHOULD BE DONE OUTDOORS AWAY FROM ANY OPEN FLAMES / DRAINS / VEHICLES OR ANY SOURCE OF FLAME IGNITION.
1. Thru the valve itself when it is closed. (This is where you screw the regulator in) A leak in this case is usually caused by damage to the valve seat. Dirt or particles – gas get trapped on the valve seat and damage the valve seat causing a leak.

**Filling Station**
This cylinder is dangerous as it is continuously leaking and the filling station should empty the gas inside the cylinder according to the procedure in SANS 10087-PART 7. The cylinder valve needs to be replaced by the cylinder manufacturer.

**Consumers**
**Do not transport a leaking cylinder:**
If this is picked up at a user at his residence:
Take the cylinder to an open area (veld) space (open area) far from homes / fires / drains and empty it by opening the valve slowly to release the gas.
Return the cylinder once empty to the retailer if it is in warranty. CADAC can replace leaking valves on older cylinders.
2. Thru seals on the valve spindle.
   To detect this you have to block the valve outlet and check for a leak with soapy water when the cylinder valve is open.

**Refillers**
Test for leaks just after filling have started.
Apply soapy water in the area around the valve spindle.

**Consumers**
Do this outdoors when the appliance is connected to the cylinder.
Screw the regulator on and ensure the appliance valve is closed.
Open the cylinder valve and put soapy water on and over the valve spindle.
Bubbles will indicate a leak.

Gas Leaking thru O Rings on the spindle
For Gas fillers
Leakage thru seals on the valve spindle. (Continued from previous page)

This gas leak is potentially dangerous when an appliance is connected to the cylinder and the appliance is being used. (flame on the burners)
Specific care when the cylinder is connected to a Gas Heater or when the cylinder or used in a semi enclosed area.

When the leak is detected – or in case of a fire on the cylinder.
IMMEDIATELY CLOSE THE VALVE – THIS WILL STOP GAS LEAK, GAS FLOW AND A FIRE.
Always have CO₂ fire extinguisher as per regulation on site.
For the public:
Leakage thru seals on the valve spindle. (Continued from previous page)

Leak tested with a regulator on the cylinder and the cylinder valve opened. The appliance valve must be closed.

When the leak is detected – or in case of a fire on the cylinder.
IMMEDIATELY CLOSE THE VALVE – THIS WILL STOP GAS LEAK AND ANY FIRE.
As a safety precaution for your home - have a CO₂ fire extinguisher available.
DO NOT SPRAY WATER ON AN LPG FLAME.
Smother the fire with a cloth or put the flame out with a CO₂ fire extinguisher.
If the fire cannot be extinguised quickly: LEAVE THE AREA – AND CALL THE FIRE DEPARTMENT.
Gas refiller and users
Gas filler to check for gas leaks every time he refill the cylinder.
Test for leaks at the point where the valve is screwed into the cylinder.

Check for leaks in this area