



# SAFETY ASPECTS IN GAS DISTRIBUTION FOR RESIDENTIAL AND COMMERCIAL CUSTOMERS

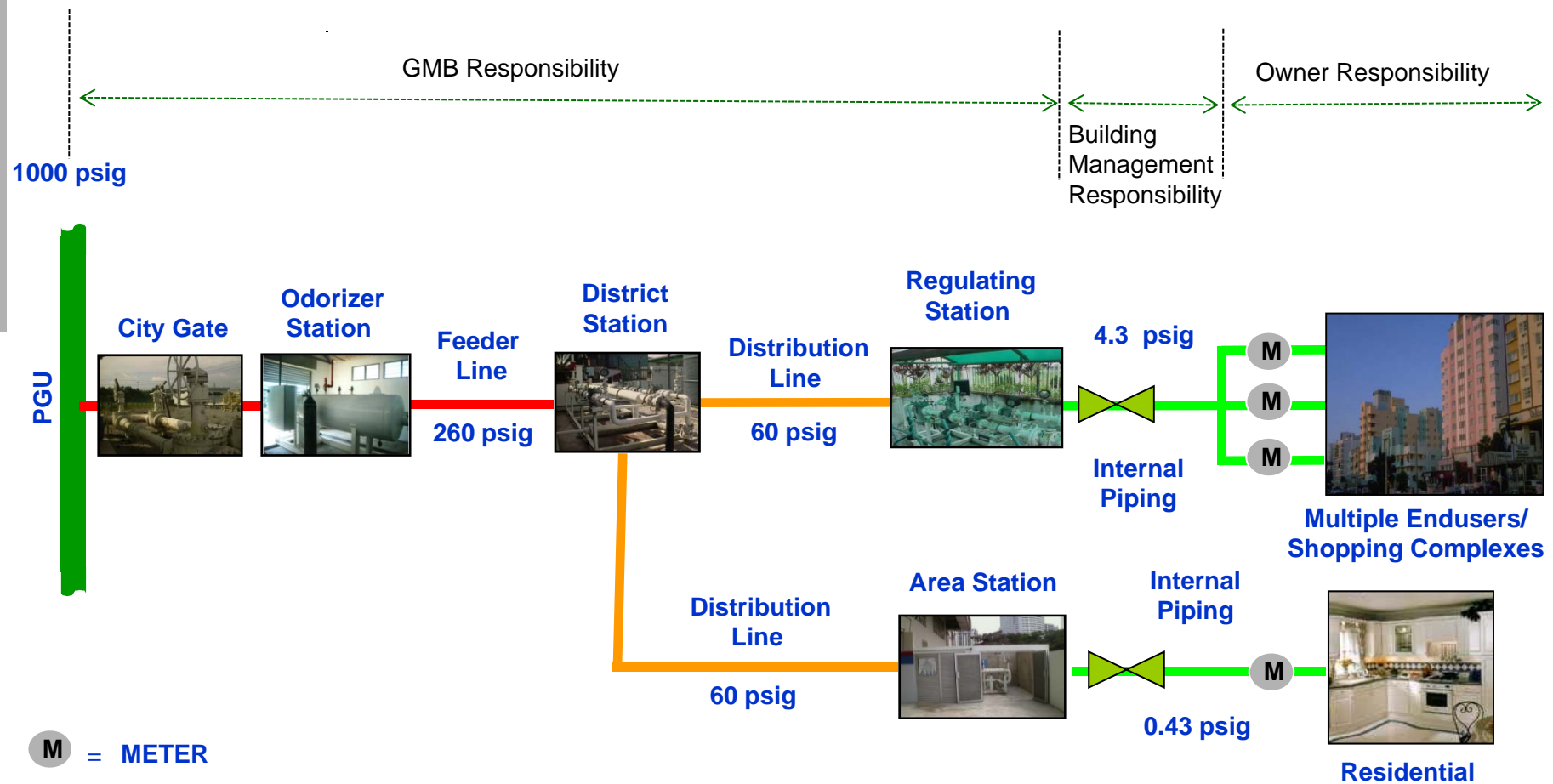
# Table of Contents

- **Safety Responsibility**
- **Safety Tips**
- **What to do when there is no gas supply**
- **Our Recommendations**



# SAFETY RESPONSIBILITY

# Demarcation of Responsibility



# Responsibility by GMB

- GMB is responsible for main system up to station outlet inclusive of gas meter
  - Operations and maintenance
  - Odourisation

# Odourisation

- Regulatory Requirement
  - Odor is added at the odoriser station
  - Gas shall be detectable when the density of gas in air is 1%

# Odorant Inspection

- To ensure sufficient odorant content is maintained
- Inspection Frequency:
  - Every 3 months at strategic stations and random buildings
  - Daily monitoring at strategic location

# Safety Features of GMB System

- Isolation valve before station
- Overpressure design in the station
- Emergency Shut-Off Valve



# Responsibility by Building Management or Owners

- Building management is responsible from station outlet to gas meter inlet
- Owner is responsible from gas meter outlet to appliances

# Safety Features of Building Management or Owners System

- Solenoid valve
- Meter valve
- Riser / shut off valve
- Gas detector

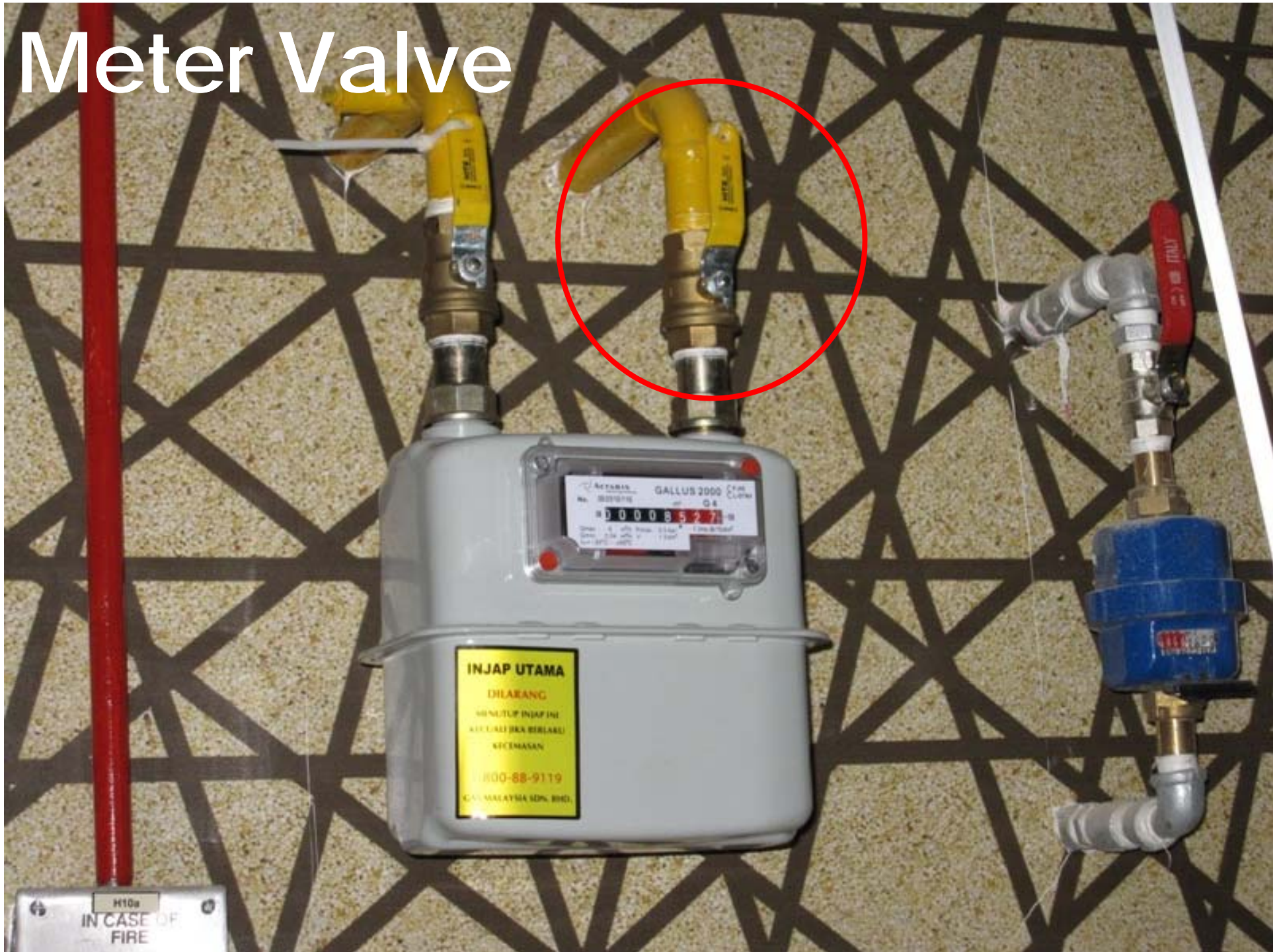
# Emergency Shut Off Valve



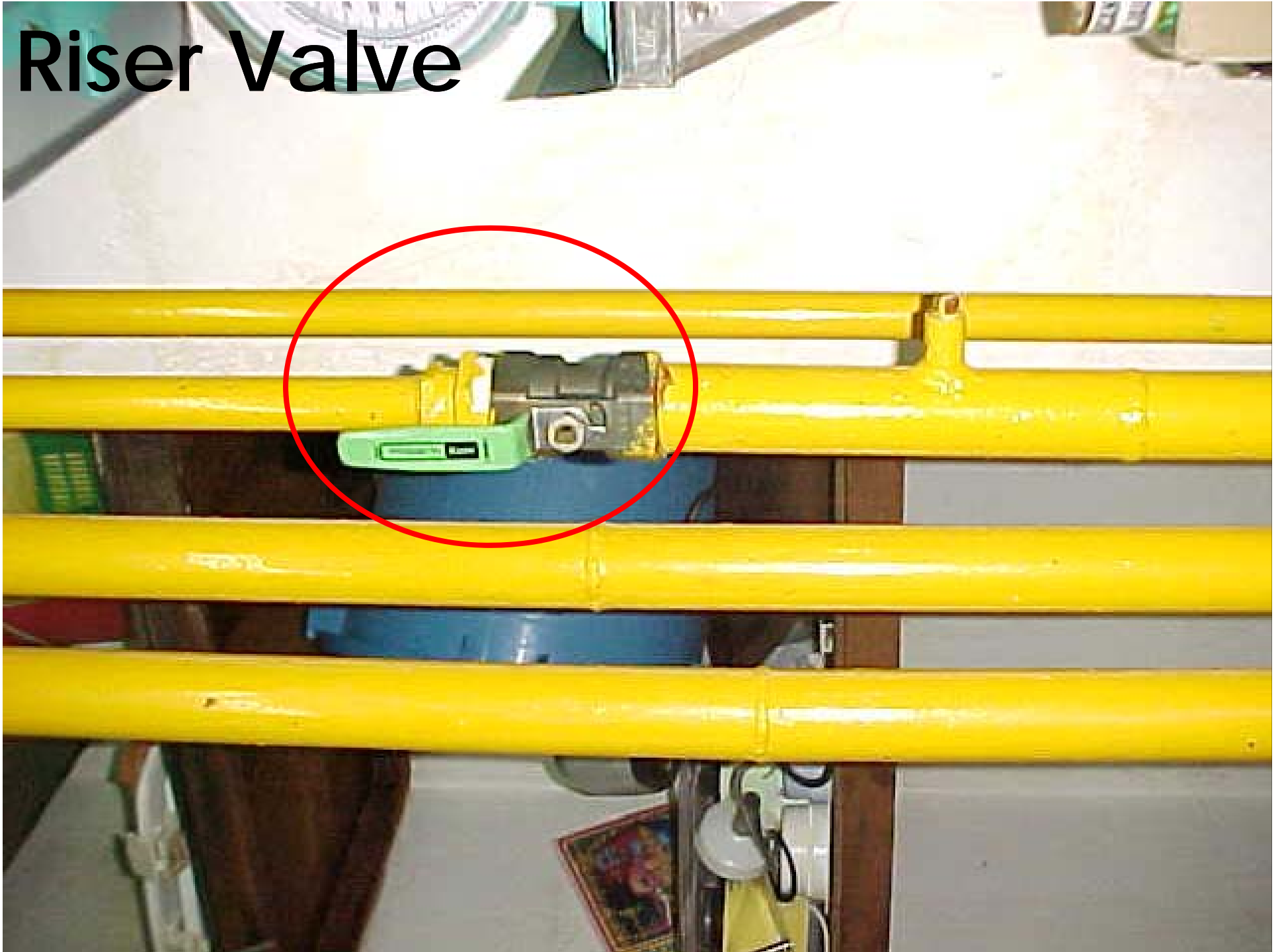
# Solenoid Valve



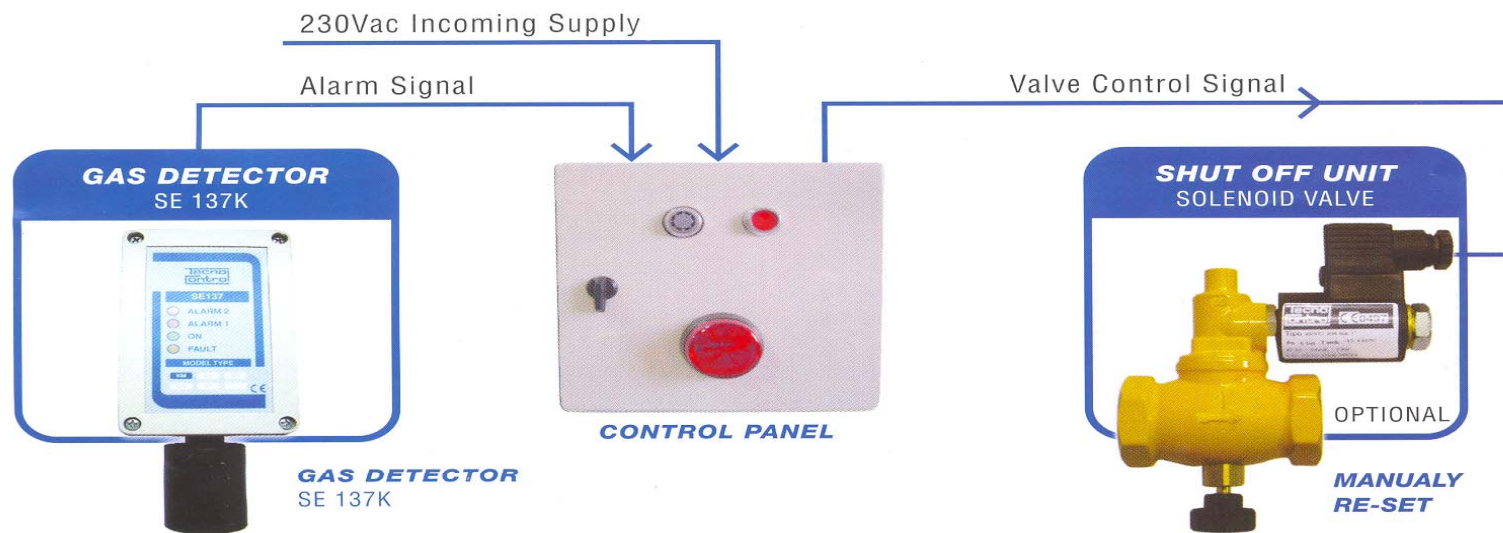
# Meter Valve



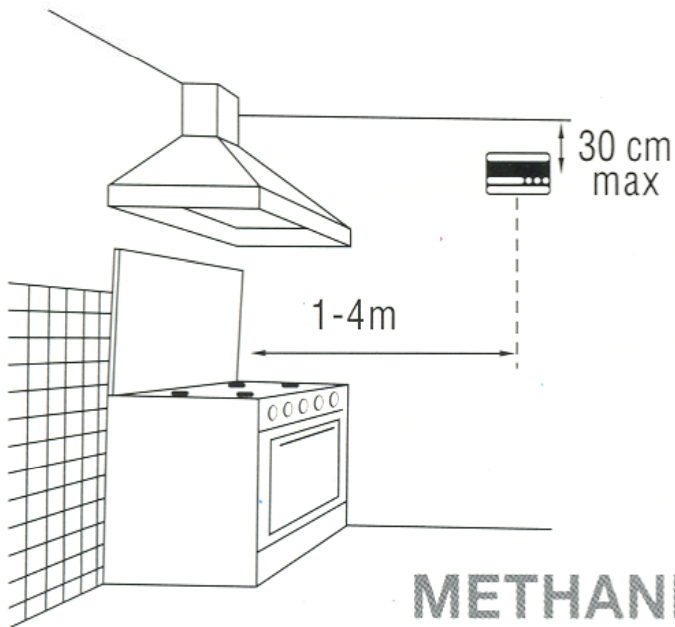
# Riser Valve



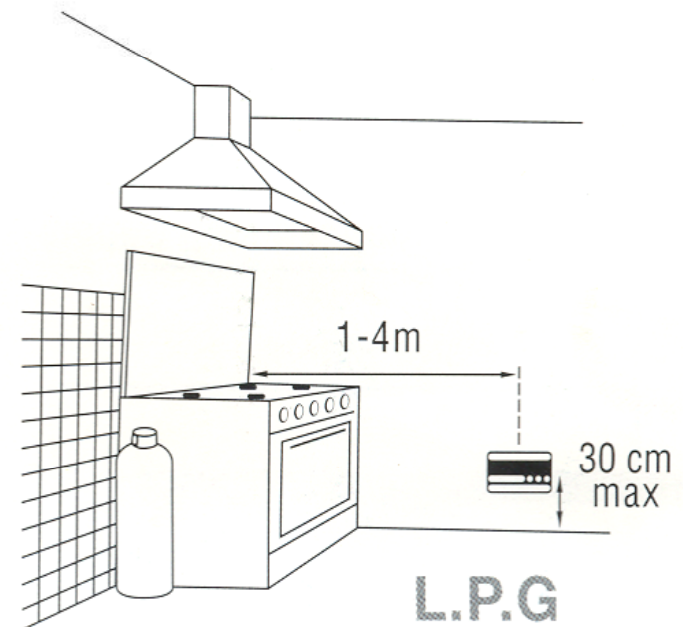
# Gas Detector



# Gas Detector



**METHANE**  
METHANE Detector



**L.P.G**  
L.P.G. Detector





# SAFETY TIPS

# Customers shall

- Understand gas characteristics
- Aware of gas leaks
- Always inspect piping and installation
- Always keep appliance attended

- **Ensure the right flame for cooking**
- **Shut the appliance valve after work / cooking**
- **Ensure good ventilation for appliance**
- **Keep good appliance maintenance**

# If Leakage Occurs

- Do not turn on / off electrical switches
- Stop cooking – turn off appliances
- Open up windows and doors
- Conduct leak check
- Shut the relevant valve
- Call GMB (if necessary)

# In Case of Emergency / Fire

- Shut off the ESV / Solenoid valve
- Evacuate
- Call BOMBA
- Call GMB

# How to Identify Leaks

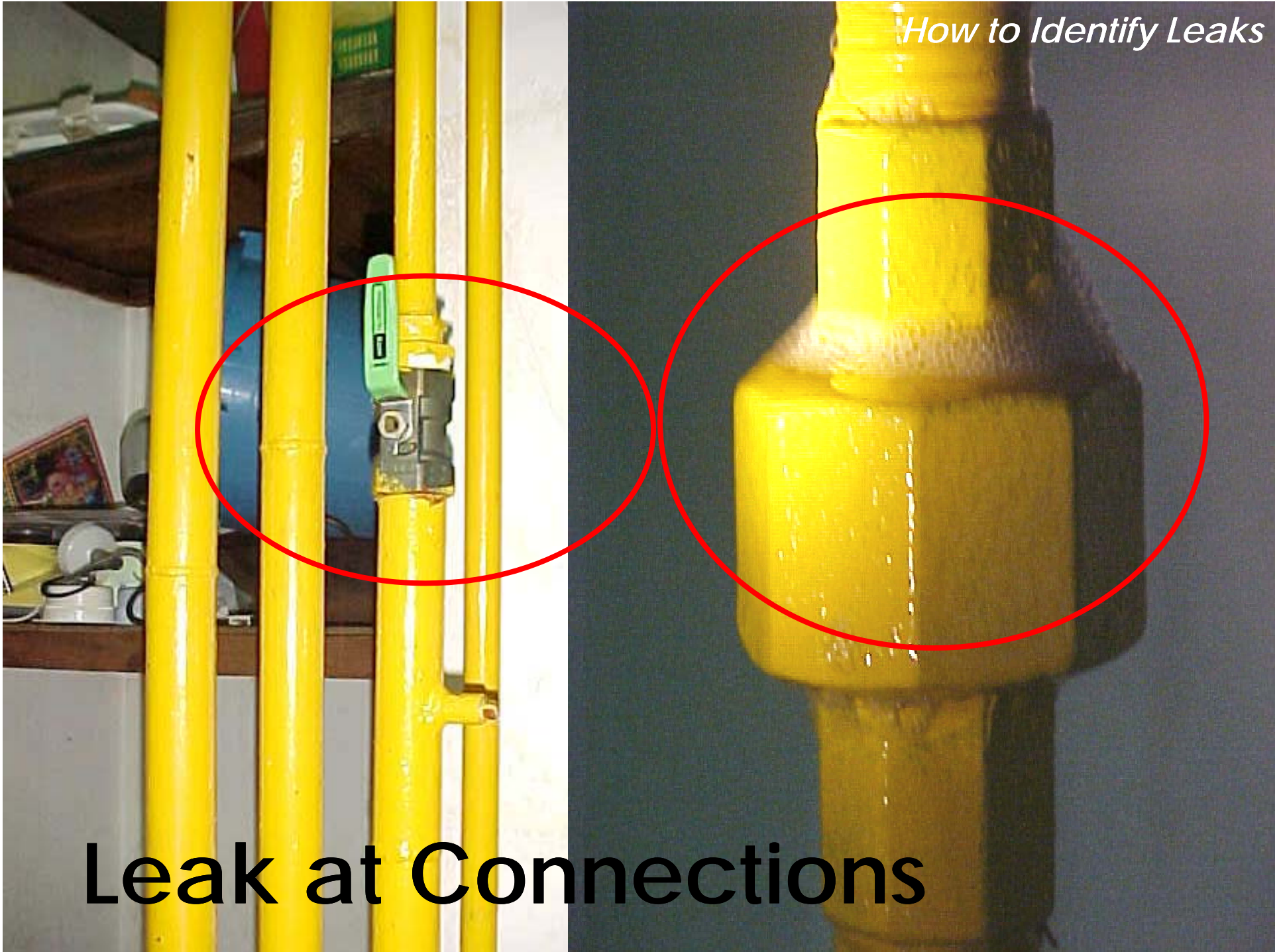
- Gas smell
- Hissing sound (if any)
- Presence of insects
- Pressure drop
- Unusual high bill
- Conduct leak check

*How to Identify Leaks*



**Use soapy solution**

*How to Identify Leaks*



**Leak at Connections**

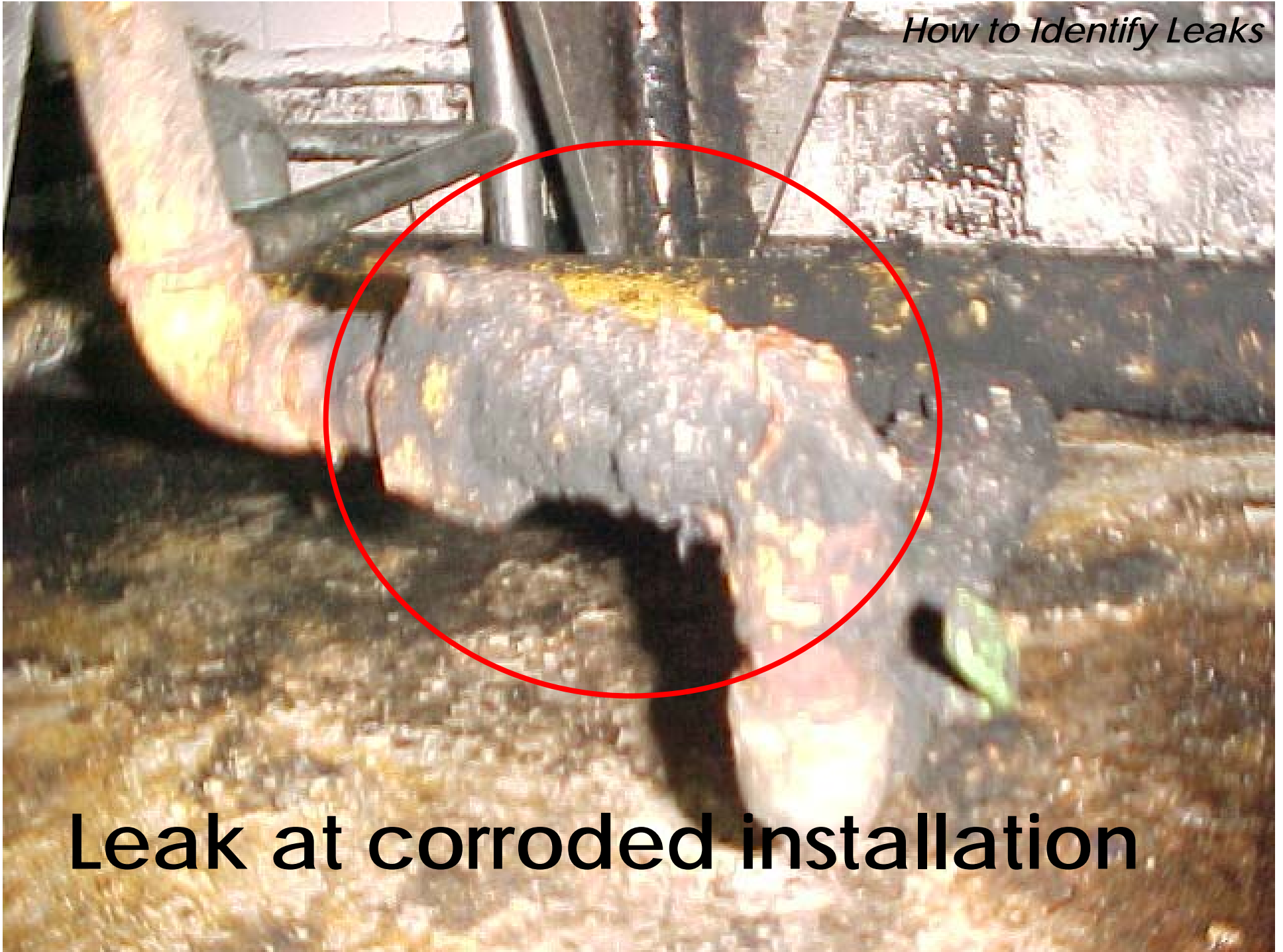


# Leak at Connections



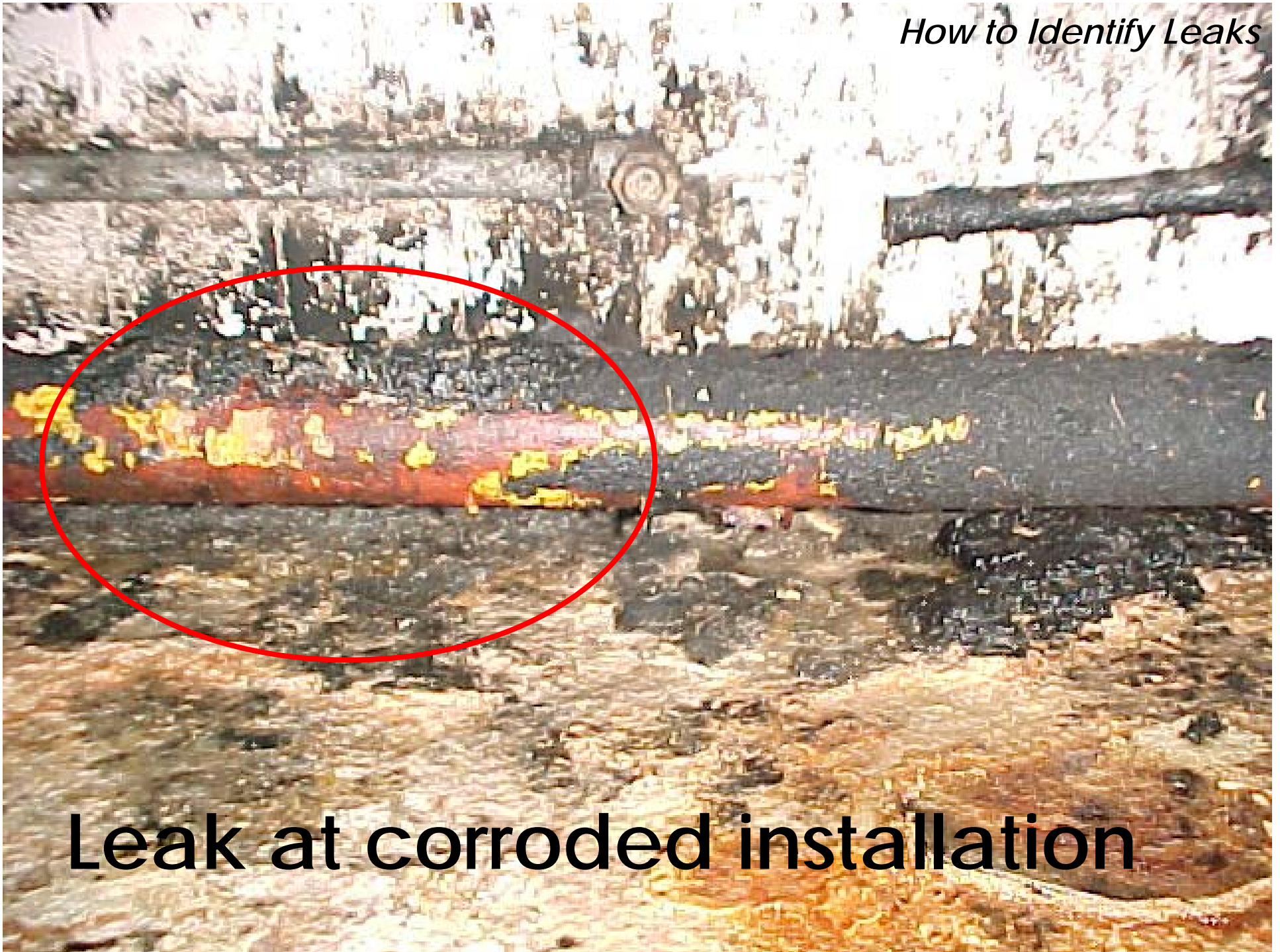
# Leak at Connections





**Leak at corroded installation**

*How to Identify Leaks*



**Leak at corroded installation**



**Leak at appliances**

# Leak at appliances





# WHAT TO DO WHEN THERE IS NO GAS SUPPLY

## For tenants

- Check the appliance:
  - Open the knob
  - Check the spark
- Check the gas valve in the kitchen
- Check the rubber hose



## *What We Do When There is No Gas Supply*

- Check the payment status
- Check the meter valve
- If problem persist, contact the building management

# For management

- Check the meter valve
- Check the riser valve
- Check the solenoid valve
- Purge at the customer's appliance
- If the problem persists, call GMB



# OUR RECOMMENDATIONS

# Customer shall

- Install safety devices:
  - Solenoid valve
  - Gas detector
- Engage a competent person

- Establish an inspection program
  - Visual inspection
  - Leak check

- **Maintain piping color codes**
- **Engage competent person for any piping modification**
- **Monitor any renovation works**

# GMB Emergency Number

**1-800-88-9119**



**THANK YOU**

