

LPG – CYLINDER INSTALLATIONS

Professional Training Program

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1. Regulatory framework



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1. REGULATORY FRAMEWORK

**FOR ALL INSTALLATIONS, THE APPLICABLE REGULATIONS CONSIST OF
VARIOUS STANDARDS/NORMS**



**TECHNICAL REGULATIONS FOR
THE PLANT/INSTALLATION**

**REGULATIONS FOR THE
PLANT/INSTALLATION –
INTERACTION WITH THE
ENVIRONMENT**

1. REGULATORY FRAMEWORK



**INSTALLATION DESIGN
REGULATIONS**

**TECHNICAL REGULATIONS
FOR EQUIPMENT**

**REGULATIONS RELATING TO
THE ENVIRONMENT**

**LPG CYLINDERS
REGULATIONS**

2. LPG CYLINDERS



1. DEFINITION

2. GENERAL INFORMATION

3. TYPES OF CYLINDERS
3.1 STEEL AND LIGHT STEEL
3.2 COMPOSITE

4. LARGE LPG CYLINDERS

5. ELEMENTS OF THE CYLINDERS

6. CONNECTION TO THE INSTALLATION-
FLEXIBLES PIPES

7. VAPORIZATION

8. MAXIMUM GAS FLOW RATE

9. SELECTION CRITERIA

10. TYPES OF INSTALLATIONS

11. MAX. NUMBER OF CYLINDERS IN AN
INSTALLATION

3. INSTALLATION COMPONENTS



1. DESIGN OF CYLINDERS BANKS
1.1 CAPACITY ≤ 15 kg
1.2 CAPACITY > 15 kg

2. LOCATION OF CYLINDERS

3. STORAGE CABINET DESIGN
3.1 CONFIGURATIONS
3.2 DIMENSIONS

4. SAFETY DISTANCES

5. CALCULATION OF THE GAS
INSTALLATION

6. TESTING AND VERIFICATIONS

7. INERTIZATIONS AND
COMMISSIONING

8. DECOMMISSIONING

9. MAINTENANCE

10. ACTIONS IN CASE OF EMERGENCY

4. NEW TECHNOLOGIES



1. CYLINDER TRACKING

2. INTELLIGENT METERING SYSTEMS
PAY-AS-YOU-COOK

3. SMART VALVES

4. SMART GAS SENSORS

5. ADVANCED LEAK DETECTION SYSTEM

6. AUTOMATIC SWITCHING REGULATOR

7. CONSUMER / END USER INFORMATION

5. INSTALLATION DESIGN

GROUP EXERCISE



1. TOTAL POWER

2. SIMULTANEOUS POWER

3. GAS CONSUMPTION FLOW RATE

4. STORAGE CAPACITY

5. NUMBER OF CYLINDERS REQUIRED

6. DEFINITION OF THE INSTALLATION

7. PIPE SIZING



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