

LPG – DISTRIBUTION NETWORKS

Professional Training Program

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1. Regulatory Framework



2. Distribution Network – Definition



3. LPG Station



4. Distribution Network



5. Installation Design

1. REGULATORY FRAMEWORK

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

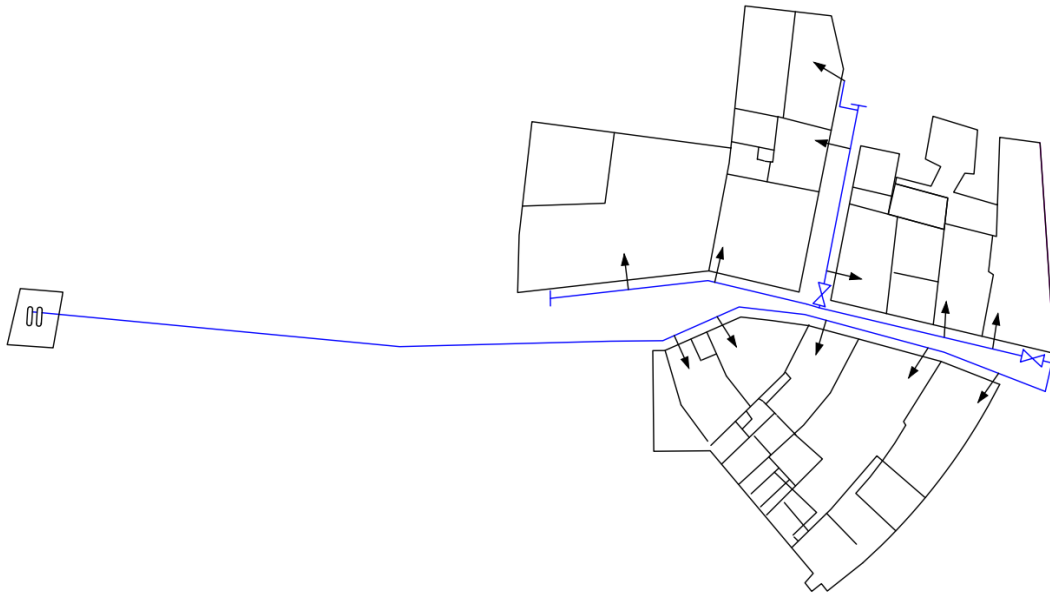


**TECHNICAL REGULATIONS FOR
THE PLANT/INSTALLATION**

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

1. REGULATORY FRAMEWORK

LPG NETWORK



**REGULATIONS FOR
INSTALLATION DESIGN**

**TECHNICAL REGULATIONS
EQUIPMENT AND
INSTALLATIONS**

**REGULATIONS RELATING
TO THE ENVIRONMENT**

2. DISTRIBUTION NETWORK



1. NETWORK CLASSIFICATION

2. OPERATING PRESSURE

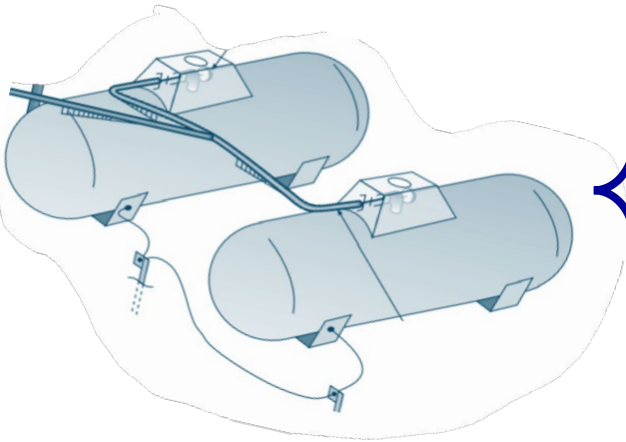
3. NETWORK COMPONENTS

3.1 LPG STATION

3.2 DISTRIBUTION NETWORK

3.3 END USER CONNECTIONS

3. LPG STATION



1. CLASIFICATION
1.1 LOCATION
1.2 VOLUME
1.3 GEOMETRY
1.4 STORAGE CAPACITY

2. SAFETY DISTANCES

3. LPG TANK

4. ACCESSORIES OF LPG TANKS

5. REGULATION EQUIPMENT

6. PIPING

7. FORCED VAPORIZATION

8. CIVIL WORKS
8.1 ABOVE GROUND TANKS
8.2 UNDERGROUND TANKS

9. WALL FENCE

10. ELECTRICAL INSTALLATION
10.1 GROUNDING
10.2 PROTECTION AGAINST
CORROSION

11. HAZARDOUS AREAS

12. FIRE PROTECTION

4. DISTRIBUTION NETWORK



1. NETWORK DOCUMENTATION

2. ELEMENTS TO BE QUOTED IN DOCUMENTATION

3. MATERIALS
3.1 STEEL
3.2 POLYETHENE
3.3 COPPER

4. NETWORK – ELEMENTS

5. END USER INSTALLATIONS – ELEMENTS

6. TESTING AND VERIFICATIONS

7. INERTIZATION AND COMMISSIONING

8. DECOMMISSIONING TANK/INSTALLATION

9. MAINTENANCE

10. ACTIONS IN CASE OF EMERGENCY

5. INSTALLATION DESIGN

GROUP EXERCISE



1. TOTAL POWER

2. TOTAL SIMULTANEOUS POWER

3. MAXIMUM FLOW RATE

4. ENERGY CONSUMED

5. REQUIRED STORAGE

6. VOLUME – TANK SELECTION

7. VAPORIZER - CALCULATION

8. DEFINITION OF NODES

9. PIPING - SIZING

10. INSTALLATION LPG/NATURAL
GAS COMPATIBLE

11. SAFETY DISTANCES

12. HAZARDOUS AREAS

13. DISTANCE REDUCTION

14. CATHODIC PROTECTION



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