DIN EN 12007-5:2025-06 (E)

Gas infrastructure - Pipelines for maximum operating pressure up to and including 16 bar - Part 5: Service lines - Specific functional requirements

Contents

Page

European foreword 4

Introduction 6

1 Scope 8

2 Normative references 9

3 Terms and definitions 10
3.1 General terminology 10
3.2 Pressure related terminology 12
3.3 Jointing Methods 12

4 Design 13
4.1 General 13
4.2 Protection 15
4.3 Materials and components 15
4.3.1 General 15
4.3.2 Isolation valve 16
4.3.3 Flow limiting device 16
4.3.4 Safety devices 16
4.3.5 Regulators and meters 16
4.4 Service line routing 16
4.4.1 External routing 16
4.4.2 Wall and floor transition 17
4.4.3 Internal routing 18
4.5 Pipe sizing 18
4.6 Identification 19

5 Construction 19
5.1 General 19
5.2 Storage, handling and transportation 19
5.3 Service line installation 19
5.4 Connections to existing gas infrastructure 20

6 Quality control 21
6.1 Quality management system 21
6.2 Inspection prior to installation 21
6.3 Inspection during installation 21
6.3.1 Ground conditions 21
6.3.2 Joint integrity 21
6.4 Competence 21

7 Pressure testing 22
7.1 General 22
7.2 Safety during pressure testing 22
7.3 Prior to testing 23
7.4 Test mediums 23
7.5 Measurement equipment 23
7.6 Strength test 23
7.7 Tightness test 24

7.8 Failed pressure test 24

8 Commissioning and decommissioning 25
8.1 General 25
8.2 Purging 25

9 Operation and maintenance 25
9.1 General 25
9.2 Record system and traceability 25

Annex A (informative) Material, component and joint selection 27

Annex B (normative) Jointing methods 29

Bibliography 31