DIN EN ISO 14692-4:2005-07 (E)

Petroleum and natural gas industries - Glass-reinforced plastics (GRP) piping - Part 4: Fabrication, installation and operation (ISO 14692-4:2002); English version EN ISO 14692-4:2002

Contents

Page

Foreword ... 3

Introduction ... 4

1 Scope ... 5

2 Normative references ... 5

3 Terms and definitions ... 5

4 Symbols and abbreviated terms ... 5

5 Fabrication and installation ... 6
5.1 Delivery, inspection and documentation of GRP piping ... 6
5.2 Handling and storage ... 6
5.3 System design documentation ... 6
5.4 Installer requirements ... 7
5.5 Installation methods ... 7
5.6 System testing ... 16
5.7 Inspection ... 17
5.8 Certification and documentation ... 19
5.9 Repair after installation ... 19

6 Operations ... 19
6.1 Operator's documentation ... 19
6.2 Maintenance and repair ... 21
6.3 Repair methods ... 23
6.4 Modifications and tie-ins ... 25
6.5 Requirements for testing and re-certification ... 25
6.6 Decommissioning ... 25

Annex A (normative) **Defect types — Acceptance criteria and corrective actions** ... 26

Annex B (normative) **Handling and storage** ... 33

Annex C (informative) **Guidance for use of jointing methods** ... 36

Annex D (normative) **Qualification of pipe fitter, supervisor and inspector** ... 45

Annex E (informative) **Guidance on NDE methods** ... 51

Annex F (normative) **Health and safety** ... 55

Bibliography ... 56