DIN EN ISO 17078-1:2010-08 (E)

Petroleum and natural gas industries - Drilling and production equipment - Part 1: Side-pocket mandrels (ISO 17078-1:2004 + Amd 1:2010); English version EN ISO 17078-1:2004 + A1:2010

Inhalt

Seite

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Abbreviated terms 11

5 Functional specification 11
5.1 General 11
5.2 Functional characteristics 11
5.3 Well parameters 12
5.4 Operational parameters 13
5.5 Compatibility with related well devices 13
5.6 Environmental service classes 14
5.7 Design validation 14
5.8 Product functional testing grades 14
5.9 Quality-control grades 14
5.10 Additional requirements 14

6 Technical specification 15
6.1 General 15
6.2 Technical characteristics 15
6.3 Design criteria 16
6.4 Design verification 17
6.5 Allowable design changes 17
6.6 Design validation 18
6.7 Product-functional testing requirements 18

7 Supplier/manufacturer requirements 19
7.1 General 19
7.2 Documentation and data control 19
7.3 Product identification requirements 21
7.4 Quality-control requirement 21
7.5 Heat treatment requirements 23
7.6 Welding requirements 24
7.7 Non-destructive examination (NDE) requirements 24
7.8 Storage and shipping preparation 26
7.9 Repair 27

Annex A (normative) **Environmental-service requirements** 28

Annex B (normative) **Design-validation requirements** 30

Annex C (normative) **Product-functional testing requirements** 34

Annex D (normative) **Quality-control requirements** 37

Annex E (informative) **Operating performance envelope** 39

Annex F (informative) **Schematics of side-pocket mandrels** 42

Bibliography 44