DIN EN ISO 10424-2:2008-07 (E)

Petroleum and natural gas industries - Rotary drilling equipment - Part 2: Threading and gauging of rotary shouldered thread connections (ISO 10424-2:2007); English version EN ISO 10424-2:2007

Inhalt

Seite

Foreword 3

Introduction 4

1 Scope 5

2 Conformance — Units of measurement 5

3 Normative references 5

4 Terms, abbreviated terms, definitions and symbols 6
4.1 Terms and definitions 6
4.2 Design types and definitions 8
4.3 Abbreviations and symbols 9

5 Information to be supplied by purchaser 12

6 Threading 12
6.1 Thread profile and dimensions 12
6.2 Bevels for drill collars and tools that mate directly with drill collars 19
6.3 Low-torque feature 20

7 Product optional features 22
7.1 General 22
7.2 Stress-relief features 22
7.3 Benchmarks 25
7.4 Surface treatment 27
7.5 Cold working 27
7.6 Break-in 27

8 Product gauging 28
8.1 Gauging 28
8.2 Stand-off measurement 28
8.3 Gauge contact points 29
8.4 Lead measurement 29
8.5 Taper measurement 31
8.6 Thread height measurement and gauges 32

9 Gauge relationships for rotary shouldered connections 32
9.1 Gauge relationship 32
9.2 Gauge specifications 33

10 Gauge calibration 45
10.1 Calibration system 45
10.2 Acceptance criteria 45
10.3 Gauge measurement methods 45
10.4 Gauge certification 51

Annex A (informative) **Tables in USC units** 52

Annex B (informative) **Care and use of regional master gauges** 61

Annex C (normative) **Shipment of reference master gauges** 63

Annex D (normative) **Care and use of working gauges** 65

Annex E (informative) **API gauge certification requirements** 66

Annex F (informative) **Other rotary shouldered connections** **69**
Annex G (informative) **USC units conversion table** **90**
Annex H (informative) **Recommended practice for gauging new rotary shouldered connections** **91**
Annex I (informative) **Calculations** **97**
Annex J (informative) **API grand and regional master rotary connection gauges** **101**