DIN EN ISO 10438-1:2005-07 (E)

Petroleum, petrochemical and natural gas industries - Lubrication, shaft-sealing and control-oil systems and auxiliaries - Part 1: General requirements (ISO 10438-1:2003); English version EN ISO 10438-1:2003

Contents

Page

Foreword ... 3

Introduction ... 4

1 Scope ... 5

2 Normative references ... 5

3 Terms, definitions and abbreviated terms ... 6
3.1 Terms and definitions ... 6
3.2 Abbreviated terms ... 10

4 Dimensions and units ... 12

5 System selection ... 12

6 Basic design ... 12
6.1 Pressure design code ... 12
6.2 Design ... 12

7 Piping ... 12
7.1 General ... 12
7.2 Oil piping ... 17
7.3 Instrument piping ... 17
7.4 Process piping ... 17

8 Intercoolers and aftercoolers ... 17

9 Instrumentation, control and electrical systems ... 18
9.1 General ... 18
9.2 Instrument installation ... 19
9.3 Alarms and shutdowns ... 19
9.4 Instrumentation ... 20
9.5 Electrical systems ... 22

10 Inspection, testing, and preparation for shipment ... 24
10.1 General ... 24
10.2 Inspection ... 24
10.3 Testing ... 26
10.4 Preparation for shipment ... 27

11 Vendor's data ... 28
11.1 General ... 28
11.2 Proposals ... 29
11.3 Contract data ... 30

Annex A (informative) Data sheets ... 32

Annex B (informative) Typical responsibility matrix worksheet ... 39

Annex C (informative) Vendor drawings and data requirements ... 41

Annex D (informative) Filter ratings and cleanliness standards ... 45

Bibliography ... 55