DIN EN ISO 9809-3:2010-10 (E)

Gas cylinders - Refillable seamless steel gas cylinders - Design, construction and testing - Part 3: Normalized steel cylinders (ISO 9809-3:2010)

Contents

Page

Foreword 3

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Symbols 8

5 Inspection and testing 9

6 Materials 9

7 Design 11

8 Construction and workmanship 15

9 Type approval procedure 17

10 Batch tests 22

11 Tests/examinations on every cylinder 27

12 Certification 29

13 Marking 29

Annex A (informative) Description and evaluation of manufacturing imperfections and conditions for rejection of seamless steel gas cylinders at time of final visual inspection by the manufacturer 30

Annex B (normative) Ultrasonic examination 36

Annex C (informative) Type approval certificate 42

Annex D (informative) Acceptance certificate 43

Annex NA (normative) Specific European requirements 45

Bibliography 47