DIN EN ISO 23088:2021-05 (E)

Gas cylinders - Periodic inspection and testing of welded steel pressure drums - Capacities up to 1 000 l (ISO 23088:2020)

Contents

Page

European foreword 4

Foreword 5

Introduction 6

1 Scope 7

2 Normative references 7

3 Termsanddefinitions 7

4 Intervals between periodic inspections and tests 8

5 List of procedures for periodic inspection and test 8

6 Identificationofpressuredrum 9

7 Preparation for inspection and testing 9
7.1 General 9
7.2 Depressurization 9
7.3 Devalving and flange removal 9

8 External visual inspection 9
8.1 Preparation 9
8.2 Procedure 10

9 Internal visual inspection 10

10 Supplementary tests 10

11 Inspectionofopeningsandfittings 10
11.1 Internal threads 10
11.2 Damaged internal threads 11
11.3 Flanged openings and retaining assemblies 11
11.4 Damaged flanged openings and/or retaining assemblies 11

12 Pressure test 12
12.1 General 12
12.2 Proof pressure test 12
12.3 Test procedures 12
12.3.1 Hydraulic test 12
12.3.2 Pneumatic test 13
12.4 Acceptance criteria 13

13 Repair of pressure drums 14
13.1 Welds 14
13.2 Other repairs 14
13.3 Requirements for repair 14

14 Inspection of valves 14

15 Final operations 14
15.1 Drying and cleaning 14
15.2 Painting 15
15.3 Fitting valves 15
15.4 Fitting of flanges 15
15.5 Verification of tare 15
15.6 Retest marking 15
15.7 Reference to the next test date 16
15.8 Records 16

16 Rejection and rendering unserviceable 16

Annex A (informative) Periodic inspection and test periods 18

Annex B (normative) Description, evaluation of defects and conditions for rejection of pressure drums at the time of visual inspection 19

Bibliography 25