DIN EN 13617-2:2021-11 (E)

Petrol filling stations - Part 2: Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers

Contents

Page

European foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Explosion protection measures 7

5 Construction 7
5.1 General 7
5.2 Hose breaks 7
5.3 Inlet threads 8
5.3.1 Safe break type 1 8
5.3.2 Safe break type 2 9

6 Physical properties 9

7 Operational requirements 10

8 Overview of tests 11

9 Information for use 12
9.1 General 12
9.2 Marking and instruction 12

10 Environmental aspects 12

Annex A (normative) General requirements of test 13

A.1 General 13
A.2 Tightness test 1 13
A.3 Pressure separation test 1 13

Annex B (normative) Tests 14

B.1 Test liquid 14
B.2 Liquid compatibility pre-conditioning 14
B.3 Pre-conditioning of re-usable safe breaks by a mechanical impact test 14
B.4 Tightness test 2 15
B.5 Pressure separation test 2 15
B.6 Pressure test 15
B.7 Axial separation force test 1 15
B.8 Axial separation force test 2 to nozzle breaks and pump breaks 16
B.9 Non-axial separation force test 1 to nozzle breaks and pump breaks 16
B.10 Non-axial separation force test 2 to nozzle breaks and pump breaks 16
B.11 Axial separation force test 3 16
B.12 Axial separation force test 4 17
B.13 Liquid release test 17
B.14 Re-connection test 1 17

B.15 Re-connection test 2 17
B.16 Electrical resistance test 18

Annex C (informative) Environmental aspects 19

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/34/EU aimed to be covered 21

Bibliography 23