DIN EN ISO 4126-1:2013-12 (E)

Safety devices for protection against excessive pressure - Part 1: Safety valves (ISO 4126-1:2013)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Symbols and units 7

5 Design 7
5.1 General 7
5.2 Valve end connections 8
5.3 Minimum requirements for springs 8
5.4 Materials 9

6 Production testing 9
6.1 Purpose 9
6.2 General 9
6.3 Hydrostatic testing 9
6.4 Pneumatic testing 10
6.5 Adjustment of set or cold differential test pressure 11
6.6 Seat leakage test 11

7 Type testing 11
7.1 General 11
7.2 Tests to determine operating characteristics 12
7.3 Tests to determine flow characteristics 14
7.4 Determination of the coefficient of discharge 15
7.5 Certification of coefficient of discharge 15

8 Determination of safety valve performance 16

9 Sizing of safety valves 16

10 Marking and sealing 16
10.1 Marking 16
10.2 Sealing of a safety valve 16

Annex ZA (informative) Relationship between this International Standard and the Essential Requirements of EU Directive 97/23/EC (PED) 17

BibliographyAnnex ZA (informative) Relationship between this International Standard and the Essential Requirements of EU Directive 97/23/EC (PED) 18