DIN EN 12516-4:2018-11 (E)

Industrial valves - Shell design strength - Part 4: Calculation method for valve sh ells manufactured in metallic materials other than steel (includes Amendment A1:2018)

Contents

Page

European foreword ... 3

1 Scope ... 4

2 Normative references ... 4

3 Symbols and units ... 5

4 Interrelation of thickness definitions ... 5

5 Requirements ... 5
5.1 General ... 5
5.2 Materials — Cast iron ... 5
5.2.1 Allowable grades ... 5
5.2.2 Strength values ... 6
5.2.3 Pressure/temperature ratings for cast iron ... 8
5.2.4 Welding ... 8
5.3 Materials — Wrought copper alloys ... 8
5.3.1 General ... 8
5.3.2 Strength values ... 9
5.3.3 Pressure/temperature ratings for wrought copper alloy ... 13
5.4 Materials — Wrought aluminium alloys ... 13
5.4.1 General ... 13
5.4.2 Strength values ... 14
5.4.3 Pressure/temperature ratings for wrought aluminium alloys ... 19
5.5 Allowable stresses ... 19
5.5.1 Aluminium and aluminium alloys - wrought materials ... 19
5.5.2 Materials other than aluminium ... 19

Annex ZA (informative) Relationship between this European Standard and the essential Requirements of EU Directive [A1] 2014/68/EU (PED) aimed to be covered [A1] ... 20

Bibliography ... 21