

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

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

---

<b>Contents</b>		<b>Page</b>
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 $\square_{A1}$ 2014/68/EU (PED) aimed to be covered $\square_{A1}$ .....		20
Bibliography.....		21