|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **非圆形(椭圆/长圆/矩形/正方形)平盖设计** | | | | | 计算单位 | |  | | |
| 计算所依据的标准 | | | | | | **NB/T 47003.1-2009** | | | |
| **计 算 条 件** | | | | | | **平 盖 简 图** | | | |
| 设计温度, t | | | ℃ | **$$001** | | $09  $06 | | | |
| 设计压力, Pd | | | MPa | **$$002** | |
| 介质静压力, Ps | | | MPa | **$$003** | |
| 平 盖 | 材料标准号 | | **$$004** | | |
| 材料牌号/名称 | | **$$005** | | |
| 名义厚度, δpn | | mm | **$$006** | |
| 腐蚀裕量, Cp2 | | mm | **$$007** | |
| 焊接接头系数, φp | | / | **$$008** | |
| 短轴长度, a | | mm | **$$009** | |
| 长轴长度, b | | mm | **$$010** | |
| 压力试验类型 | | | **气压试验** | | |
| **材 料 特 性** | | | | | | | | | |
| 平 盖 | | 材料密度, ρp | kg/m³ | **$$012** | | 设计温度许用应力, [σ]pt | | MPa | **$$015** |
| 材料负偏差, Cp1 | mm | **$$013** | | 试验温度许用应力, [σ]p | | MPa | **$$016** |
| 试验温度下屈服点, RpeL | MPa | **$$014** | | / | | | |
| **内 压 强 度 计 算 及 校 核** | | | | | | | | | |
| 计算压力, Pc | | | MPa | Pc = Pd + Ps | | | | | **$$017** |
| 结构特征系数, Kp | | | / |  | | | | | **0.25** |
| 平 盖 | | 厚度附加量, Cp | mm | Cp = Cp1 + Cp2 | | | | | **$$019** |
| 有效厚度, δpe | mm |  | | | | | **$$020** |
| 形状系数, Zp | / |  | | | | | **$$021** |
| 计算厚度, δpc | mm |  | | | | | **$$022** |
| 设计厚度, δpd | mm | δpd = δpc + Cp2 | | | | | **$$023** |
| 厚度校核 | / | δpn ≥ δpd + Cp1 | | | | | **$$024** |
| **压 力 试 验** | | | | | | | | | |
| 平盖试验压力值, PT | | | MPa |  | | | | | **$$025** |
| **MAWP** | | | | | | | | | |
| 平盖最大允许工作压力 | | | MPa |  | | | | | **$$026** |