|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **宽面垫片螺栓连接圆形平盖设计** | | | | 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 | | | ℃ | **$$001** | $06  $07 | | |
| 设计压力, Pd | | | MPa | **$$002** |
| 介质静压力, Ps | | | MPa | **$$003** |
| 平 盖 | 材料标准号 | | **$$004** | |
| 材料牌号/名称 | | **$$005** | |
| 螺栓中心圆直径, Dc | | mm | **$$006** |
| 名义厚度, δn | | mm | **$$007** |
| 腐蚀裕量, C2 | | mm | **$$008** |
| 焊接接头系数, φ | | / | **$$009** |
| 压力试验类型 | | | **气压试验** | |
| **材 料 特 性** | | | | | | | |
| 平 盖 | | 材料密度, ρ | kg/m³ | **$$011** | 设计温度许用应力, [σ]t | MPa | **$$014** |
| 试验温度下屈服点, ReL | MPa | **$$012** | 试验温度许用应力, [σ] | MPa | **$$015** |
| 材料负偏差, C1 | mm | **$$013** | / | | |
| **内 压 强 度 计 算 及 校 核** | | | | | | | |
| 计算压力, Pc | | | MPa | Pc = Pd + Ps | | | **$$016** |
| 结构特征系数, Kp | | | / |  | | | **0.25** |
| 平 盖 | | 厚度附加量, C | mm | C = C1 + C2 | | | **$$018** |
| 有效厚度, δe | mm |  | | | **$$019** |
| 计算厚度, δc | mm |  | | | **$$020** |
| 设计厚度, δd | mm | δd = δc + C2 | | | **$$021** |
| 厚度校核 | / | δn ≥ δd + C1 | | | **$$022** |
| **压 力 试 验** | | | | | | | |
| 平盖试验压力值, PT | | | MPa |  | | | **$$023** |
| **MAWP** | | | | | | | |
| 平盖最大允许工作压力 | | | MPa |  | | | **$$024** |