|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **大锥角锥形封头外压校核** | | | 计算单位 |  | | |
| 计算所依据的标准 | | | | **HG/T 20582-2011** | | |
| **计 算 条 件** | | | | **简 图** | | |
| 设计外压力, Pd | | MPa | **$$001** | $07  $06  $05  $07 | | |
| 设计温度, t | | ℃ | **$$002** |
| 封 头 | 材料标准号 | **$$003** | |
| 材料牌号/名称 | **$$004** | |
| 大端内直径, Dsi | mm | **$$005** |
| 半顶角, α | ° | **$$006** |
| 名义厚度, δcn | mm | **$$007** |
| 腐蚀裕量, Cc2 | mm | **$$008** |
| 焊接接头系数, Φc | / | **$$009** |
| 压力试验类型 | | **气压试验** | |
| **材 料 特 性** | | | | | | |
| 密度, ρc | | kg/m³ | **$$011** | 设计温度许用应力, [σ]ct | MPa | **$$013** |
| 材料负偏差, Cc1 | | mm | **$$012** | 设计温度下弹性模量, Ect | 103 MPa | **$$014** |
| **过 程 参 数** | | | | | | |
| 封头厚度附加量, Cc | | mm | Cc = Cc1 + Cc2 | | | **$$015** |
| 封头有效厚度, δce | | mm |  | | | **$$016** |
| **外 压 计 算 及 校 核** | | | | | | |
| 系数, γ | | / |  | | | **$$017** |
| 系数, K | | / |  | | | **$$018** |
| 稳定安全系数, ny | | / | ny = 3.0 | | | **3.0** |
| 弹性稳定许用外压力, [P]E | | MPa |  | | | **$$020** |
| 强度许用外压力, [P]H | | MPa |  | | | **$$021** |
| 锥壳许用外压力, [P] | | MPa |  | | | **$$022** |
| 外压校核 | | / | [P] ≥ Pd | | | **$$023** |
| **压 力 试 验** | | | | | | |
| 封头试验压力值, PcT | | MPa | PcT = 1.10×Pd | | | **$$024** |