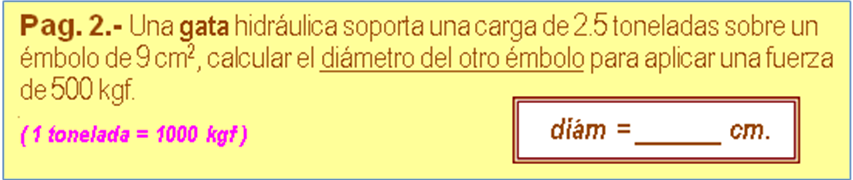
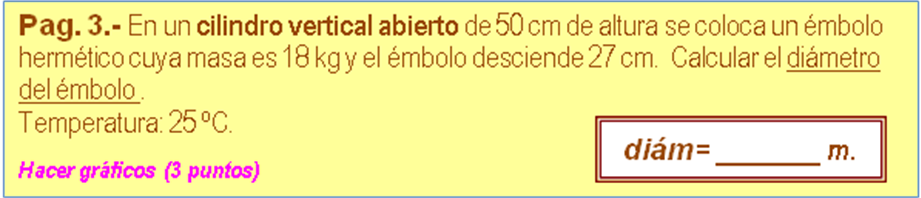


|  |  |  |
| --- | --- | --- |
| **** AGUA | **1000,00** | kg /m2 |
| **** ALCOHOL | **790,00** | kg /m3 |
| **** MADERA | **810,00** | kg /m3 |
| **P**ATM = | **101325** | Pa |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **a** M | **0,70** | m | 0,3430 | m3 (Vol) |
|  |  | m M | 277,8300 | kg |
|  |  | w M | 2.722,7340 | N |
|  |  | E M | 2.655,5060 | N |
|  |  |  |  |  |
|  |  | **F** | **67,2280** | **N** |



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| w | **2,5** | Ton | 2500,0000 | kgf |
|  |  |  |  |  |
| F | **500** | kgf |  |  |
| A1 | **9** | cm2 | 3,3851 | cm (D1) |
|  | diám = (( F/w )^0,5)\*D1 | | |  |
|  |  | **diám** | **1,5139** | **cm** |



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| m | **18,00** | kg |  |  |
| T1 | **No** | ºC |  |  |
| h1 | **0,50** | m |  |  |
| h | **0,27** | m | 0,2300 | m (h2) |
|  |  |  |  |  |
|  | D = (4\*m\*g /(pi()\*(PATM\*(h1/h2)-PATM)))^0,5 | | | |
|  |  | **D** | **0,0435** | **m** |



|  |  |  |
| --- | --- | --- |
| **** HIELO = | **0,92** | gr /cm3 |
| **** AGUA = | **1,00** | gr /cm3 |
| **L*f***HIELO = | **80,0** | cal /gr |
| **L*v***AGUA = | **540,0** | cal /gr |
| **c** HIELO = | **0,50** | cal /gr-ºC |
| **c** AGUA = | **1,00** | cal /gr-ºC |
| **c** VAPOR = | **0,48** | cal /gr-ºC |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| t 1 | **194,0** | ºF | 90,0000 | ºC |
| t f | **32,0** | ºF | 0,0000 | ºC |
| t 2 | **14,0** | ºF | -10,0000 | ºC |
| m | **0,50** | lb | 227,3 | gr |
| Q = (cAGUA\*(t f-T1) + cHIELO\*(T2 -t f )-L*f* HIELO )\*m | | | | |
|  |  | ** Q** | **-39.772,7** | **cal** |