# Placa solar

Daniel Vázquez Lago

March 9, 2023

# Contents

**1 Caudal número 1** **3**

**2 Caudal número 2** **3**

**3 Caudal número 3** **3**

**4 Caudal número 4** **4**

**5 Caudal número 5** **4**

**6 Caudal número 6** **4**

**7 Caudal número 7** **5**

# 1 Caudal número 1

Los datos para este caudal:

$$\begin{array}{lcllcl} P_c & = & 600KPa & s(P_c) & = & 50KPa \\ P_v & = & 250KPa & s(P_v) & = & 25KPa \\ Q & = & 50.0g/s & s(Q) & = & 2.0g/s \\ W & = & 268J & & & \end{array} \quad (1)$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.7 | 53.8 | 24.8 | 6.8 | 20.0 | 26.0 | 20.1 | 12.1 |
| 17.7 | 54.0 | 24.9 | 6.7 | 20.0 | 26.0 | 19.9 | 12.1 |
| 17.6 | 54.1 | 24.9 | 6.8 | 20.1 | 26.2 | 20.2 | 12.3 |
| 17.7 | 54.1 | 24.9 | 6.7 | 20.0 | 26.0 | 20.3 | 12.3 |
| 17.8 | 54.1 | 24.9 | 6.7 | 20.0 | 25.9 | 20.5 | 12.2 |

# 2 Caudal número 2

Los datos para este caudal:

$$\begin{array}{lcllcl} P_c & = & 675KPa & s(P_c) & = & 50KPa \\ P_v & = & 268KPa & s(P_v) & = & 25KPa \\ Q & = & 40.0g/s & s(Q) & = & 2.0g/s \\ W & = & 277J & & & \end{array} \quad (2)$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.5 | 55.2 | 27.6 | 27.6 | 21.9 | 29.2 | 20.4 | 12.8 |
| 17.5 | 55.3 | 27.6 | 27.6 | 21.8 | 29.1 | 20.5 | 12.7 |
| 17.5 | 55.2 | 27.6 | 27.6 | 21.8 | 29.0 | 20.4 | 12.8 |
| 17.6 | 55.2 | 26.5 | 26.5 | 21.8 | 29.0 | 20.5 | 12.8 |
| 17.7 | 55.3 | 27.5 | 27.5 | 21.8 | 29.3 | 20.4 | 12.8 |
| 17.7 | 55.3 | 27.6 | 27.6 | 21.7 | 29.1 | 20.4 | 12.9 |

# 3 Caudal número 3

Los datos para este caudal:

$$\begin{array}{lcllcl} P_c & = & 800KPa & s(P_c) & = & 50KPa \\ P_v & = & 275KPa & s(P_v) & = & 25KPa \\ Q & = & 30.0g/s & s(Q) & = & 2.0g/s \\ W & = & 289J & & & \end{array} \quad (3)$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.9 | 57.6 | 32.0 | 8.9 | 24.1 | 34.5 | 20.8 | 13.7 |
| 17.9 | 57.7 | 32.1 | 8.9 | 24.0 | 34.0 | 20.7 | 13.8 |
| 17.9 | 57.7 | 32.0 | 8.7 | 24.0 | 33.8 | 21.2 | 13.6 |
| 18.0 | 57.7 | 31.8 | 8.7 | 24.0 | 34.0 | 21.0 | 13.7 |
| 18.1 | 57.7 | 31.9 | 8.9 | 24.1 | 34.3 | 20.7 | 13.7 |
| 18.0 | 57.7 | 32.1 | 9.0 | 24.3 | 34.8 | 20.4 | 13.6 |

# 4 Caudal número 4

Los datos para este caudal:

$$\begin{array}{lcllcl} P_c & = & 850KPa & s(P_c) & = & 50KPa \\ P_v & = & 335KPa & s(P_v) & = & 25KPa \\ Q & = & 25.0g/s & s(Q) & = & 2.0g/s \\ W & = & 293J & & & \end{array} \tag{4}$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.8 | 17.5 | 32.0 | 9.1 | 25.2 | 37.3 | 20.6 | 13.9 |
| 17.8 | 17.5 | 32.1 | 9.3 | 25.2 | 37.5 | 20.6 | 14.0 |
| 17.7 | 17.5 | 32.0 | 9.3 | 25.2 | 37.2 | 20.6 | 14.0 |
| 17.7 | 17.6 | 31.8 | 9.2 | 25.3 | 37.6 | 20.6 | 13.9 |
| 17.7 | 17.7 | 31.9 | 9.1 | 25.2 | 37.2 | 20.5 | 13.9 |

# 5 Caudal número 5

Los datos para este caudal:

$$\begin{array}{lcllcl} P_c & = & 950KPa & s(P_c) & = & 50KPa \\ P_v & = & 300KPa & s(P_v) & = & 25KPa \\ Q & = & 20.0g/s & s(Q) & = & 2.0g/s \\ W & = & 307J & & & \end{array} \tag{5}$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.4 | 61.6 | 38.0 | 9.5 | 26.8 | 41.8 | 20.4 | 14.3 |
| 17.4 | 61.7 | 38.2 | 9.6 | 26.8 | 41.8 | 20.4 | 14.2 |
| 17.4 | 61.7 | 38.2 | 9.6 | 26.8 | 41.7 | 20.2 | 14.2 |
| 17.3 | 61.8 | 38.2 | 9.5 | 26.8 | 41.0 | 20.2 | 14.2 |
| 17.3 | 61.7 | 38.2 | 9.6 | 26.9 | 7.0 | 20.2 | 14.2 |

# 6 Caudal número 6

Los datos para este caudal:

$$
\begin{array}{lcllcl}
P_c & = & 1100KPa & s(P_c) & = & 50KPa \\
P_v & = & 300KPa & s(P_v) & = & 25KPa \\
Q & = & 15.0g/s & s(Q) & = & 2.0g/s \\
W & = & 318J & & &
\end{array}
\tag{6}
$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.6 | 66.0 | 43.6 | 10.4 | 28.7 | 48.4 | 21.0 | 14.9 |
| 17.7 | 66.1 | 43.6 | 10.4 | 28.6 | 48.3 | 20.8 | 14.9 |
| 17.6 | 66.1 | 43.5 | 10.3 | 28.6 | 48.1 | 20.8 | 14.8 |
| 17.6 | 66.1 | 43.5 | 10.2 | 28.6 | 48.0 | 20.8 | 14.8 |
| 17.6 | 66.1 | 43.4 | 10.3 | 28.6 | 48.0 | 20.7 | 14.8 |

# 7 Caudal número 7

Los datos para este caudal:

$$
\begin{array}{lcllcl}
P_c & = & 1350KPa & s(P_c) & = & 50KPa \\
P_v & = & 325KPa & s(P_v) & = & 25KPa \\
Q & = & 10.0g/s & s(Q) & = & 2.0g/s \\
W & = & 343J & & &
\end{array}
\tag{7}
$$

| $T_1$ | $T_2$ | $T_3$ | $T_4$ | $T_5$ | $T_6$ | $T_7$ | $T_8$ |
|---|---|---|---|---|---|---|---|
| 17.6 | 72.3 | 50.4 | 10.7 | 30.4 | 57.0 | 20.7 | 15.1 |
| 17.7 | 72.3 | 50.4 | 10.7 | 30.5 | 57.2 | 20.8 | 15.1 |
| 17.7 | 72.4 | 50.5 | 10.7 | 30.5 | 57.1 | 20.9 | 15.2 |
| 17.7 | 72.4 | 50.5 | 10.7 | 30.5 | 56.9 | 20.7 | 15.1 |
| 17.7 | 72.4 | 50.4 | 10.7 | 30.4 | 56.7 | 20.6 | 15.0 |