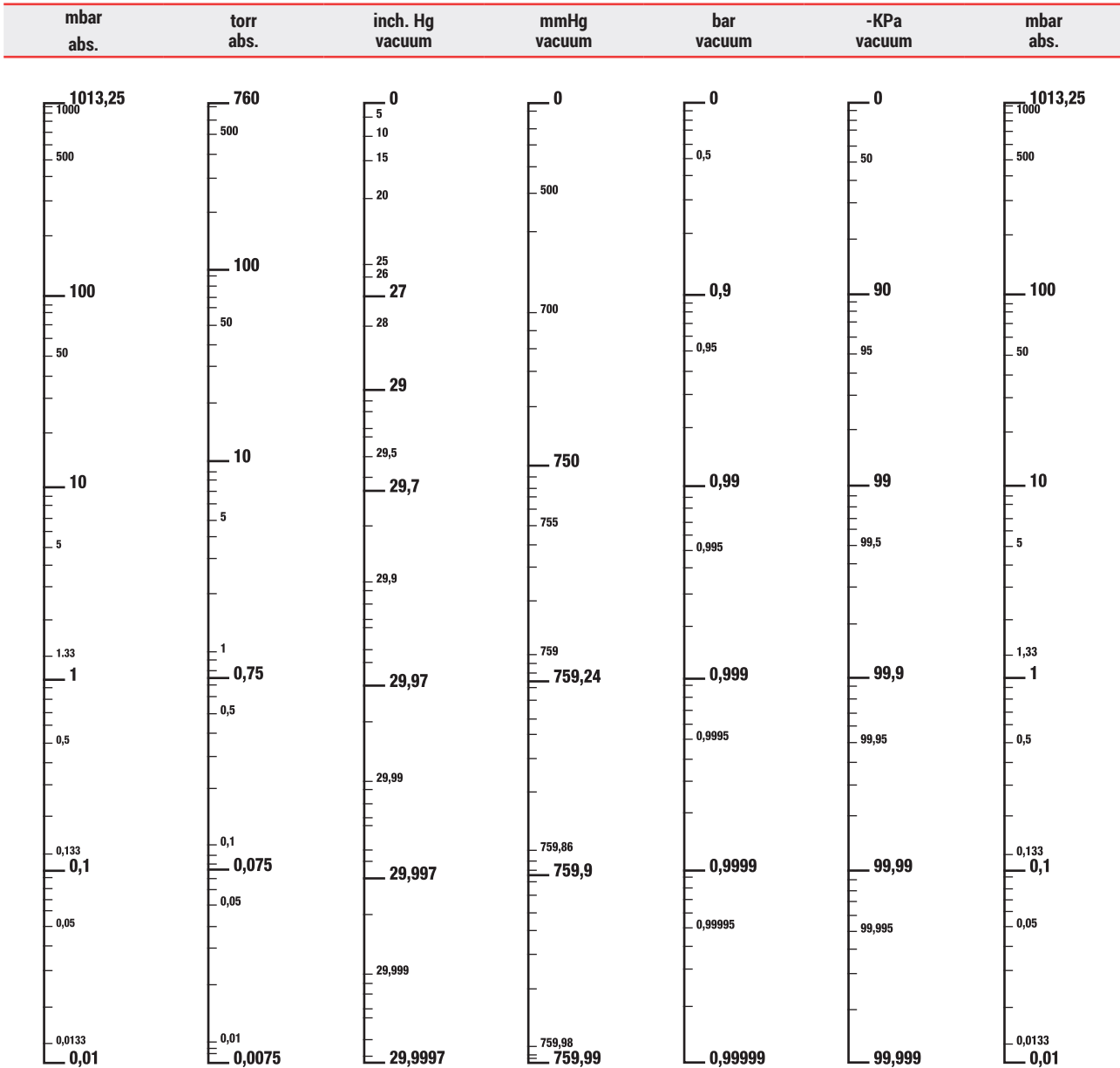




# CONVERSION TABLES

## VACUUM AND PRESSURE UNIT CONVERSION TABLES



3D drawings are available on [vuotecnica.net](http://vuotecnica.net)

## PRESSURE MEASUREMENT UNIT CONVERSION FACTORS (ABSOLUTE VALUES)

PRESSURE MEASUREMENT UNIT CONVERSION FACTORS (ABSOLUTE VALUES)

|                                 | = mbar | = bar                   | = torr                  | = inch. Hg              | = psi (lbf/in <sup>2</sup> ) | = atm                   | = Kg/cm <sup>2</sup> (at) | = mm H <sub>2</sub> O    | = m H <sub>2</sub> O | = Pa (N/m <sup>2</sup> ) |          |
|---------------------------------|--------|-------------------------|-------------------------|-------------------------|------------------------------|-------------------------|---------------------------|--------------------------|----------------------|--------------------------|----------|
| <b>mbar</b>                     | x      | 1                       | 10 <sup>-3</sup>        | 0,75                    | 2,95 x 10 <sup>-2</sup>      | 14,5 x 10 <sup>-3</sup> | 9,87 x 10 <sup>-4</sup>   | 1,02 x 10 <sup>-3</sup>  | 10,2                 | 1,02 x 10 <sup>-2</sup>  | 100,0    |
| <b>bar</b>                      | x      | 1000,0                  | 1                       | 750,0                   | 29,53                        | 14,6                    | 0,987                     | 1,02                     | 10197,0              | 10,19                    | 100000   |
| <b>torr</b>                     | x      | 1,33                    | 1,33 x 10 <sup>-3</sup> | 1                       | 3,94 x 10 <sup>-2</sup>      | 1,93 x 10 <sup>-2</sup> | 1,316 x 10 <sup>-3</sup>  | 1,359 x 10 <sup>-3</sup> | 13,59                | 1,359 x 10 <sup>-3</sup> | 133,32   |
| <b>inch. Hg</b>                 | x      | 33,9                    | 33,9 x 10 <sup>-3</sup> | 25,4                    | 1                            | 0,491                   | 3,34 x 10 <sup>-2</sup>   | 3,45 x 10 <sup>-2</sup>  | 345,0                | 0,345                    | 3386,0   |
| <b>psi (lbf/in<sup>2</sup>)</b> | x      | 68,9                    | 6,89 x 10 <sup>-2</sup> | 51,7                    | 2,04                         | 1                       | 6,8 x 10 <sup>-2</sup>    | 7,03 x 10 <sup>-2</sup>  | 703                  | 0,703                    | 6897     |
| <b>atm</b>                      | x      | 1013,25                 | 1,013                   | 760,0                   | 30,0                         | 14,696                  | 1                         | 1,033                    | 10332                | 10,332                   | 101325,0 |
| <b>Kg/cm<sup>2</sup> (at)</b>   | x      | 981                     | 0,981                   | 735,6                   | 28,96                        | 14,2                    | 0,968                     | 1                        | 10000                | 10                       | 98067,0  |
| <b>mm H<sub>2</sub>O</b>        | x      | 9,81 x 10 <sup>-2</sup> | 9,81 x 10 <sup>-5</sup> | 7,35 x 10 <sup>-2</sup> | 2,89 x 10 <sup>-3</sup>      | 1,42 x 10 <sup>-3</sup> | 9,67 x 10 <sup>-5</sup>   | 10 <sup>-4</sup>         | 1                    | 10 <sup>-3</sup>         | 9,8067   |
| <b>m H<sub>2</sub>O</b>         | x      | 98,067                  | 9,81 x 10 <sup>-2</sup> | 73,5                    | 2,89                         | 1,42                    | 9,67 x 10 <sup>-2</sup>   | 10                       | 10000                | 1                        | 9806,7   |
| <b>Pa (N/m<sup>2</sup>)</b>     | x      | 0,01                    | 10 <sup>-5</sup>        | 7,5 x 10 <sup>-3</sup>  | 2,95 x 10 <sup>-4</sup>      | 1,45 x 10 <sup>-4</sup> | 9,87 x 10 <sup>-6</sup>   | 1,02 x 10 <sup>-5</sup>  | 0,102                | 1,02 x 10 <sup>-4</sup>  | 1        |

Example: To transform 10 mbar in Torr = 10 x 0,75 = 7.5 Torr