

## The gas volume calculator

For calculating the gas volume related to norm conditions the following program can be used.

Also it is possible, when putting in the pipe diameter to calculate the velocity related to norm conditions.

For decimal point please use the comma.

Description of the input windows:

### (1) FLOW RATE

Line 1 = Input of the operating-volume in **m<sup>3</sup>/h** or **l/h**.

Line 2 = Input of the operating-temperature in **°C** or **°K**.

Line 3 = Input of the operating-pressure in **bar** or **mbar**.

### (2) FLOW RATE in m<sup>3</sup>/h

After finishing the input of all values in the 2. window the calculated volumes in m<sup>3</sup>/h will shown, related to **NORM / STANDARD / ISO** conditions.

In the 4. column free conditions are available.

### (3) PIPE DIAMETER in mm

Line 1 = Input of the inner pipe diameter in mm.

Line 2 = Output of the velocity under norm conditions (0°C, 1013mbar).

As dimension **m/s** or **km/h** is available.

**GasFlowrateCalculator**

**flow rate**   m<sup>3</sup>/h  l/min *softflow.de GmbH*

at temperature   °C  K

pressure   bar  mbar

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**flow rate in m<sup>3</sup>/h**

norm (0°C, 1013,25mbar)	standard (20°C, 1013,25mbar)	ISO (15°C, 1013,25mbar)	at 0°C, 1013,25 mbar
394,769	423,674	416,448	394,769

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**pipe diameter in mm**

**velocity at norm conditions**   m/s  km/h