

## UNITS

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|                     |  |
|---------------------|--|
| Electrical current  | A (ampere)   |
| Electric power      | W (watt)   |
| Electric resistance | ohm  |
| Electric voltage    | V (volt)   |
| Length              | mm (millimeter)  |
|                     | in (inch)  |
| Negative pressure   | kPa (kilo pascal)  |
|                     | mmHg (millimeters of mercury)                              |
|                     | inHg (inches of mercury)                                   |
|                     | kPa (kilo pascal)  |
| Positive pressure   | kgf/cm <sup>2</sup> (kilogram force per square centimeter) |
|                     | psi (pounds per square inch)                               |

|        |                                    |
|--------|------------------------------------|
| Torque | N·m (Newton meter)                 |
|        | kgf·m (kilogram force meter)       |
|        | kgf·cm (kilogram force centimeter) |
|        | ft·lbf (foot pound force)          |
|        | in·lbf (inch pound force)          |
| Volume | L (liter)                          |
|        | US qt (U.S. quart)                 |
|        | Imp qt (Imperial quart)            |
|        | ml (milliliter)                    |
|        | cc (cubic centimeter)              |
|        | cu in (cubic inch)                 |
|        | fl oz (fluid ounce)                |
| Weight | g (gram)                           |
|        | oz (ounce)                         |

### Conversion to SI Units (Système International d'Unités)

- All numerical values in this manual are based on SI units. Numbers shown in conventional units are converted from these values.

### Rounding Off

- Converted values are rounded off to the same number of places as the SI unit value. For example, if the SI unit value is 17.2 and the value after conversion is 37.84, the converted value will be rounded off to 37.8.

### Upper and Lower Limits

- When the data indicates upper and lower limits, the converted values are rounded down if the SI unit value is an upper limit, and rounded up if the SI unit value is a lower limit. Therefore, converted values for the same SI unit value may differ after conversion. For example, consider 2.7 kgf/cm<sup>2</sup> in the following specifications:

**210—260 kPa {2.1—2.7 kgf/cm<sup>2</sup>, 30—38 psi}**

**270—310 kPa {2.7—3.2 kgf/cm<sup>2</sup>, 39—45 psi}**

- The actual converted values for 2.7 kgf/cm<sup>2</sup> are 265 kPa and 38.4 psi. In the first specification, 2.7 is used as an upper limit, so the converted values are rounded down to 260 and 38. In the second specification, 2.7 is used as a lower limit, so the converted values are rounded up to 270 and 39.