

Physical Fundamentals and Units of Measurement (metric system)

Units of measurement that are relevant in pneumatics:

- Meter – m (length / distance)
- Kilogram – kg (weight / mass)
- Second – s (time)
- Kelvin – K (temperature)

Derived units that are used:

- Newton – N (force)
- Pascal – Pa (pressure)

Force

Force is any interaction that, when unopposed, will change the motion of an object. In other words, a force can cause an object with mass to change its velocity (acceleration, change of shape). Force can also be described as a push or pull. It is a vector quantity consisting of magnitude and direction.

- Symbol: **F**
- Unit: Newton
- Unit symbol: N
- In SI -based units:

$$\frac{kg \cdot m}{s^2}$$

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Ying-Ying Zheng



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