Position indicators are mechanical measuring devices which indicate and monitor the movement of a machine component along a linear shaft or threaded lead spindle.

They are used to move and give a readout of values such as lengths [m, mm], forces [N], volumes [l], revolutions [rpm], etc.

Position indicators are split into the following categories:

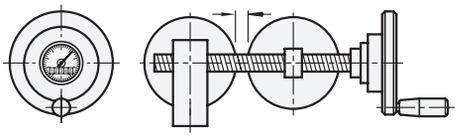
Operating principle of the measuring mechanism

- Energized by a weighted pendulum and gravity (gravity drive) for connecting to a horizontal spindle
  EN 000.8 → *page 350*
  EN 000.3 → *page 351*
- Self-energized, direct or indirect, stationary system to be connected in any required position
  EN 000.9 → *page 366*
  EN 000.13 → *page 367*
  EN 953 → *page 372*
  EN 954 → *page 374*
  EN 955 → *page 376*
- Drive, direct and contact-free
  EN 9053 → *page 378*
  EN 9054 → *page 380*

Type of readout

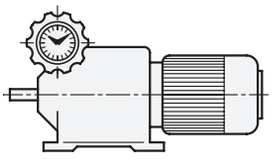
- Analog (EN 000.8 / EN 000.9)
- Digital / analog (EN 000.3 / EN 000.13)
- Digital (EN 953 / EN 954 / EN 955)
- Digital, electronic, LCD display (EN 9053 / EN 9054)

The movement is in most cases initiated by operating elements. There is an extensive range of handwheels and hand knobs available that can be used for incorporaring position indicators in their hubs.



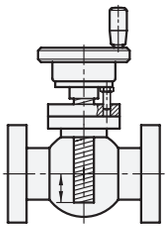
Handwheel with position indicator EN 000.3
Operating principle gravity drive, digital and analog readout

Application example:
Lining of rollers (rolls) in mechanical engineering
(printing machines, straightening machines)



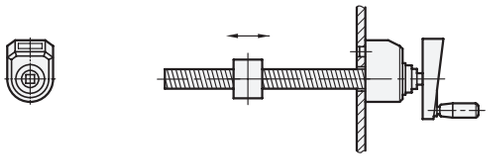
Handwheel with position indicator EN 000.8
Operating principle gravity drive, analog readout

Application example:
Regulating rpm speed on steplessly adjustable gear boxes



Handwheel with position indicator EN 000.9 / EN 000.13
Operating principle stationary system, digital and analog readout

Application example:
Valve adjustment with vertical adjustment spindle



Crank handle with position indicators EN 953 / EN 954 / EN 955 / EN 9053 / EN 9054 / EN 9153
Operating principle stationary system (direct driven), digital readout

Application example:
Positioning of machine parts