

## PROTECTION AGAINST CONTACT, PARTICLES AND WATER OF WIKA PRESSURE GAUGES (SEE DIN 40 050)

Degree of protection against contact and foreign particles.

First code digit	Degree of protection
0	
1	Does not apply to pressure gauges
2	
3	Protection against entry of solid particles with diameter above 2.5mm (small particles) Protection against tools, wires and similar objects exceeding 2.5mm. <sup>1)</sup>
4	Protection against entry of solid particles with diameter above 1mm (grain-sized particles). Protection against tools, wires and similar objects exceeding 1mm. <sup>1)</sup>
5	Protection against damaging dust deposits. The entry of dust is not absolutely prevented, but the dust shall not enter in quantities impairing the operation of the device (dust protection). Complete protection against contact. <sup>2)</sup>
6	Protection against entry of dust (dustproof). Complete protection against contact.

<sup>1)</sup> The openings needed for the pressure compensation with the atmosphere of overpressure gauges are located so that a damaging effect in the sense of the test per DIN 40 050 is prevented.

<sup>2)</sup> Entering dust can impair the function of the pressure gauge by an increase of the movement friction. The next higher degree of protection should be preferred.

## PROTECTION AGAINST CONTACT, PARTICLES AND WATER OF WIKA PRESSURE GAUGES (SEE DIN 40 050) (CONTINUED)

Degree of protection against water.

Second code digit	Degree of protection
0	Does not apply to pressure gauges
1	Protection against water drops falling vertically It shall have no damaging effect (dripping water). <sup>1)</sup>
2	Protection against water drops falling vertically. It shall not have a damaging effect on a device (casing) inclined up to 15 degree from its normal position (dripping water, oblique). <sup>1)</sup>
3	Protection against water falling in any angle up to 60 degree from the vertical. It shall have no damaging effect (beating rain, water spray). <sup>1)</sup>
4	Protection against water spraying from all directions against the device (casing). It shall have no damaging effect (splash water). <sup>1)</sup>
5	Protection against a water jet from a nozzle directed against the device (casing), from all directions. It shall have no damaging effect (water jet). <sup>1)</sup>
6	Protection against heavy sea or strong water jet. The water shall not enter into the device (casing) in damaging quantities (flooding). <sup>2)</sup>
7	Protection against water if the device (casing) is submerged in water under specified pressure and time conditions. The water shall not enter in damaging quantities (immersion). <sup>2)</sup>
8	The device (casing) can be used for continuous underwater operation at conditions specified by the manufacturer (submerged operation). <sup>2)</sup>

<sup>1)</sup> The openings needed for the pressure compensation with the atmosphere of overpressure gauges are located so that entering water can flow out again.

<sup>2)</sup> During flooding, immersion and submersion the pressure gauge is not surrounded by the atmospheric pressure any more (see sections 1 and 2).