



Pneumatic components (pressure gauge)

To Use This Product Safely

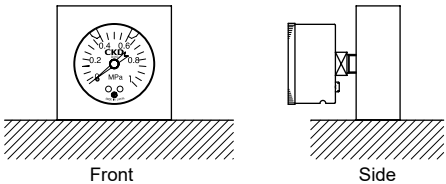
Be sure to read this before use.
For general pneumatic components precautions, see Intro 27 for details.

Individual Precautions : Pressure Gauge

Design / Selection

CAUTION

- Pressure gauge
Repeated and sudden increase and decrease in pressure and pressure pulsation must be avoided because it could adversely affect the life of the pressure gauge. Either ease the pressure fluctuation in the circuit or contact CKD so that a pressure gauge with a cushioning screw can be prepared. Pressure exceeding the pressure range may damage the gauge.
- Mount vertically in respect to the ground so that the scale can be viewed straightforward. (See below) Mounting in any other direction can cause the needle movement to become unstable, and can cause the accuracy to drop.



- Make sure that impact and vibration are not applied directly onto the body. Failure of indicator accuracy or a zero point deviation may occur.
- Carefully prevent water hammer when using non-corrosive liquid (G49D, G59D).
- The limit markers of the Pressure Gauges with Limit Marks (G45D) will not completely seat against each other. A clearance of approx. one gradient may form.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Components Product Site(<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → [Instruction Manual](#).

Pressure Gauge

Specific Precautions

About Chemical Resistance of Plastics

Warning

- The chemical resistance of the lens is shown below.
- Avoid using products in an atmosphere where chemicals are contained in compressed air or atmosphere, or where they could adhere to parts.
- Use in the above state could lead to lens damage.

Polycarbonate lens:
G52D, G29D, VG41D, G401
polyamide lens : G40D, G45D, GA400

Chemical resistance of plastic lens/bowl

Type of Chemical	Classification of Chemical	Main Chemical Products	General Usage Examples	Polycarbonate lens/bowl	Polyamide lens
Inorganic Chemicals	Acid	Hydrochloric acid, sulfuric acid, hydrofluoric acid, phosphoric acid, chromic acid, etc.	Metal pickling solutions / Acidic degreasing solutions Coating treatment solution, etc.	x	x
	Alkaline	Alkalis such as caustic soda, caustic potash, calcium hydroxide, aqueous ammonia, sodium carbonate	Alkaline degreasing solution for metals Water-soluble cutting fluid, leak detection agent	x	○
	Inorganic Salts	Sodium sulfide, sodium nitrate, potassium dichromate, sodium sulfate, etc.		x	○
Organic Chemicals	Aromatic Hydrocarbon	Benzene, toluene, xylene, ethylbenzene, styrene, etc.	Contained in paint thinner (benzene, toluene, xylene)	x	x
	Chlorinated Aliphatic Hydrocarbons	Methyl chloride, ethylene chloride, methylene chloride, acetylene chloride, chloroform, trichlorethylene, perchlorethylene, carbon tetrachloride	Organic solvent-based cleaning liquid for metals (trichlorethylene, perchlorethylene, carbon tetrachloride, etc.)	x	○
	Chlorinated Aromatic Hydrocarbons	Chlorobenzene, dichlorobenzene, hexachlorobenzene (B.H.C), etc.	Pesticides	x	○
	Petroleum Components	Solvent naphtha, gasoline, kerosene		x	○
	Alcohol	Methyl alcohol, ethyl alcohol, cyclohexanol, benzyl alcohol	Used as an antifreeze agent Leak detection agent	x	x
	Phenol	Carbolic acid, cresol, naphthol, etc.	Disinfectant solution	x	x
	Ether	Methyl ether, methyl ethyl ether, ethyl ether	Additive for brake fluid	x	○
	Ketone	Acetone, methyl ethyl ketone, cyclohexanone, acetophenone, etc.		x	x
	Carboxylic Acid	Formic acid, acetic acid, butyric acid, acrylic acid, oxalic acid, phthalic acid, etc.	Dyes / Oxalic acid is aluminum treatment agent Phthalic acid used for paint base Used as leakage detection agent	x	x
	Ester	Dimethyl phthalate (DMP), diethyl phthalate (DEP), dibutyl phthalate (DBP), dioctyl phthalate (DOP)	Lubricant, synthetic oil, rust preventing agent additives Used as plasticizers in synthetic resins	x	○
	Oxyacid	Glycolic acid, lactic acid, malic acid, citric acid, tartaric acid		x	x
	nitro compound	Nitromethane, nitroethane, nitroethylene, nitrobenzene, etc.		x	○
	Amine	Methylamine, dimethylamine, ethylamine, aniline, acetanilide, etc.	Additive for brake fluid	x	x
	Nitrile	Acetonitrile, acrylonitrile, benzonitrile, acetoisonitrile, etc.	Raw materials for nitrile rubber	x	○

○ : Usable x : Not available (Plastic will become damaged.)