

## KMR & KHR Level Gauges and Valves



**Brand:** Kenco Engineering

### Short Description

KENCO Flat Glass Gauges are used where direct visual observation of process fluids is required. These gauges are suitable for a wide range of applications with pressures up to 4000 psig (275.79 bar) @ 100°F (37.7°C), and temperatures up to 750°F (398.8°C) @ 2300 psig (158.57 bar). KENCO gauges are available in a wide variety of construction materials, connections and other options to meet most specifications.

### Description

**Chamber:** Center of the gauge, and is the part that primarily contains the process fluid. It is machined from bar stock. The gasket seat is recessed for lateral support, and easy positioning. **Glass:** Provides the visual interface between the process fluid and the outside. **Cover:** Protects the glass, and provides the compression surface for sealing the gauge. The cushion seat is recessed for lateral support and easy positioning.

**Gasket/Cushion:** Provides for a seal between the chamber and glass (gasket), and protects the glass from mechanical stresses from the cover (cushion). For a given gauge, the gasket and cushion are normally the same material. **Bolts/Studs/Nuts:** Provides a uniform compression load to the gauge for pressure sealing. Reflex gauges have a single piece of glass, mounted on one side of the chamber. This piece of glass is flat on the outside, and has a series of prisms on the inside, facing the process fluid. When light strikes the portion of the glass covered by a liquid, the light is reflected from the back of the chamber. This area appears “black”. When light strikes the glass where no liquid is present, the prisms reflect the light directly out of the gauge. This area appears “silvery”. Reflex gauges provide an excellent way to measure clear, or difficult to see fluids. The “silvery”/“black” interface is easy to see from several feet away.