

User Manual of Bourdon Tube Pressure Gauge

1. General information

The instrument described in this manual has been designed and produced in conformity to the following standards:

EN 837-1-2-3 and ASME B40.1. All components are submitted to severe quality and traceability controls. The quality management system is certified according to the ISO 9001 standard. This manual contains important information about the use and the installation of the gauge in safe conditions. Therefore it is highly recommended to read carefully the following instructions before using.

The instrument works in safe conditions when selected and installed correctly in the system and when rules concerning the product as well as the maintenance procedures established by the manufacturer are respected.

The staff charged with the selection, installation and maintenance of the instrument must be able to recognize the conditions that may negatively affect the instrument ability to work and which may lead to premature breakage. The staff must, therefore, be technically qualified and properly trained, and must carry out the procedures established by the plant regulations.

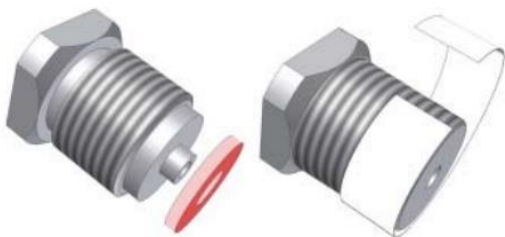
2. Installation

Before installation, commissioning and operation, ensure that the appropriate pressure gauge has been selected in terms of measuring range, design and suitable wetted material (corrosion) for the specific measuring conditions. In order to guarantee the measurement accuracy and long-term stability specified, the corresponding load limits must be observed.

Only qualified persons authorized by the plant manager are permitted to install, maintain and service the pressure gauges.

For hazardous media such as oxygen, acetylene, flammable or toxic gases or liquids, and refrigeration plants, compressors, etc., in addition to all standard regulations, the appropriate existing codes or regulations must also be followed.

The gauge should be connected to the process system forcing through a special wrench on the process connection point without forcing on the case by the hands. As for process connections provided with cylinder threading, a head gasket compatible with the fluid to measure should be used. In case the connection threading is conic additional sealing materials are applied on the thread (PTFE tape).



For the liquid filled gauge, after installation, open the vent valve (if available) or set from CLOSE to OPEN or cut the top of cap.

