

## PRESSURE GAUGES PURCHASING & INSTALLATION

### 01.

The operating pressure should be in the mid-third of the pressure range specified for the gauge. The maximum pressure load should not exceed 75% of full scale value at static loads, or 65% of full scale value for pulsating loads.

### 02.

When selecting pressure gauges the selection criteria and installation recommendations provided here must be observed. The use of pressure gauges which do not meet the requirements encountered in practice can cause great consequential damage.

### 03.

When using hazardous pressure media, for example, oxygen, acetylene, combustible substances, toxic substance, as well as refrigerating units, compressors etc. the applicable regulations must be observed. Fluid filled pressure gauges must be equipped with blow-out devices.

### 04.

The repair of pressure gauge should leave to skilled staff. Generally, pressure gauges will not require any maintenance. These instruments may only be repaired by the manufacturer.

### 05.

For sealing connections with a parallel thread, for example, flat gaskets or profile seals must be fitted or on the other hand, the corresponding sealing lens has to be provided in case of high pressure connection.

### 06.

The pressure gauge needs to be mounted at the proper position so that it will not be subjected to vibration for accurate dial reading.

### 07.

If the temperature of the pressure medium at the point where it is measured deviates from the operating temperature specified for the pressure gauge, then a sufficiently high pressure gauge, a siphon or a chemical seal with a capillary line must be mounted to the pressure gauge.

### 08.

For services at corrosive atmospheres or fluid elements, suitable casings and components made of corrosion resistant materials must be provided. Also special material may help to protect the outside of the pressure gauge. For example SS316, PP, or teflon. Because of the restricted choice of materials for the elastic elements, diaphragm pressure gauges with protective lining will possibly have to be used, or chemical seals made of pressure media resistant materials needed to be mounted to a bourdon tube pressure gauge.

### 09.

Before installation, the tapered threads (PT & NPT Threads) are to be sealed off with additional sealants like PTFE tape, for example. As for PF & PS threads, it is recommended to use suitable flat gaskets in the material of brass or teflon to be fitted.

### 10.

During installation or removal of a lower mounting pressure gauge, apply the wrench to the wrench flats provided. It must be ensured that the matching process connection has been selected (nominal width, suitable sealing face, if required).