1. **PART 1 – GENERAL**
   1. **References**
      1. All work shall be in conformance to the latest revision of « Quebec Building Code – Chapter I», unless otherwise indicated.
      2. All work shall conform to the latest revised codes and standards that having jurisdiction, including but not limited to:
         1. ANSI / ASME B40.1, Pressure Gauges and Gauge attachments.
   2. **Submittals**
      1. Product Data:
         1. Submit shop drawings and technical data in conformance with client’s instructions.
      2. Identify the features listed on the manufacturer's documentation:
         1. Pressure gage;
         2. Pressure snubber;
         3. Isolation valves;
         4. Siphons.
   3. **Instruction and Maintenance Manual**
      1. Submit manufacturer’s installation and start-up instructions.
      2. The maintenance manual will comprise of or indicate the following:
         1. A description of the major components; the manufacturer, series or model reference number;
         2. All details relating to the operation, care and maintenance of component;
         3. A list of equivalent component replacements.
2. **PART 2 – PRODUCT**
   1. **Pressure Gage**
      1. Dial indicator type with 4-1/2" (114 mm) diameter dial face. Conforming to ANSI / ASME B40.1, Class 2A, accurate to within 1%, unless otherwise indicated.
         1. Gage housing and ring is constructed of polished stainless steel. Internal working mechanism constructed of stainless steel. Gage can be recalibrated.
         2. Choose gauges with the consideration of the range and graduation of pressures to be measured, ensuring that the nominal pressure is close as possible to the center of this range.
         3. Acceptable component: Flo Fab DRY series RFF0400D5 and Flo Fab LIQUID FILLED series RFF0400LF.
      2. Each gage must have an isolation ball valve installed at the inlet of the gage.
         1. Glycerin filled gages are to be used at the pump suction and discharge as well as in areas where there is excessive pulsations.
         2. Install an isolation siphon when used on steam networks.
         3. Install a diaphragm connector when used on a corrosive fluid network.
3. **PART 3 – EXECUTION**
   1. **Installation**
      1. Install pressure gages at these recommended locations:
         1. At the suction and discharge of pumps;
         2. Upstream and downstream of pressure reducing components;
         3. Upstream and downstream of pressure regulating valves;
         4. All entrances and exits of heat exchangers and boiler systems;
         5. All other indicated location.
      2. Use extension piping when the gauges are mounted on insulated piping.
      3. Supply and pre-install fittings for gauges where proper system balancing will require pressure measurements.

**End of Section**