

Part 1 General

1.1 SCOPE OF WORK

- .1 Materials and installation for thermometers and pressure gauges in piping systems.

1.2 REFERENCES

- .1 American Society of Mechanical Engineers (ASME).
 - .1 ASME B40.100, Pressure Gauges and Gauge Attachments.
 - .2 ASME B40.200, Thermometers, Direct Reading and Remote Reading.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-14.4, Thermometers, Liquid-in-Glass, Self Indicating, Commercial/Industrial Type.
 - .2 CAN/CGSB-14.5, Thermometers, Bimetallic, Self-Indicating, Commercial/Industrial Type.

1.3 SUBMITTALS

- .1 Submit shop drawings and product data.
- .2 Submit manufacturer's product data for following items:
 - .1 Thermometers.
 - .2 Pressure gauges.

Part 2 Products

2.1 GENERAL

- .1 Design point to be at mid point of scale or range.

2.2 DIRECT READING THERMOMETERS

- .1 Liquid action, 125 mm dial thermometer, variable angle type, liquid filled, 0 to 115°C dual range.
- .2 Acceptable Material: "Ashcroft", Series EL or approved equivalent in accordance with B6.

2.3 THERMOMETER WELLS

- .1 Use thermowells for all thermometers.
- .2 Copper pipe: copper or bronze wells.
- .3 Steel pipe: brass wells.

2.4 PRESSURE GAUGES

- .1 150 mm, dial type, liquid filled, stainless steel having 1.6% accuracy 6 mm NPT connection, 0 – 450 kPa dual range (kPa & PSI).
- .2 Acceptable Material: Trerice, Series 700 or approved equivalent in accordance with B6.
- .3 Provide:
 - .1 Isolation ball valve on all pressure gauge connections.
 - .2 Snubber for pulsating operation.
 - .3 No petcocks.

Part 3 Execution

3.1 GENERAL

- .1 Install gauges so they can be easily read from floor or platform. If this cannot be accomplished, install remote reading units.
- .2 Install between equipment and first fitting or valve.

3.2 THERMOMETERS

- .1 Install in locations as indicated on drawings.
- .2 Use extensions where thermometers are installed through insulation.

3.3 PRESSURE GAUGES

- .1 Install in locations as indicated on drawings.
- .2 Use extensions where pressure gauges are installed through insulation.

END OF SECTION