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. ASTM A126, Specification for Grey Iron Castings for Valves, Flanges and Pipe Fittings.
         2. ASTM A216 / 216, Specification for Steel Castings, Carbon, Suitable for Fusion Welding for High-Temperature Service.
         3. ASTM A278, Specification for Grey Iron Castings for Pressure - Containing Parts for Temperatures up to 345°C.
         4. ASTM A351 / A351, Specification for Steel Castings, Austenitic, for High-Temperature Service.
         5. ASTM B62, Specification for Composition Bronze or Ounce Metal Castings.
         6. ASTM A47M, Specification for Ferrite Malleable Iron Castings.
         7. ASTM A53, Specification for Pipe, Steel, Black, and Hot-Dipped, Zinc Coated, Welded and Seamless.
         8. ANSI / ASME B16.1, Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250 and 800.
         9. ANSI / ASME B16.25, Butt welding Ends.
         10. ANSI / ASME B16.3, Malleable-Iron Threaded Fittings, Classes 150 and 300.
         11. ANSI / ASME B16.5, Pipe Flanges and Flanged Fittings.
         12. ANSI / ASME B16.9, Factory-Made Wrought Steel Butt welding Fittings.
         13. ANSI B18.2.1, Square and Hex Bolts and Screws.
         14. ANSI/ASME B18.2.2, Square and Hex Nuts.
   2. **Submittals** 
      1. Product Data:
         1. Submit shop drawings and technical data in conformance with client’s instructions.
   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. **PARTIE 2 – PRODUITS**
   1. **Rubber Flexible Connectors**
      1. Compensation for axial, lateral or angular misalignment: as indicated.
      2. Maximum working pressure: 1475 kPa (214 psi).
      3. Maximum working temperature: 115°C (240°F).
      4. Free form or constrained, standard flexibility or extra flexibility, without packing, maintenance free, factory-tested at a pressure equal to 1-1/2 times the maximum working pressure. Test certificates can be provided.
      5. Body: Material to be EPDM. High pressure moulding of single or multiple bellows.
      6. Connection:
         1. Smaller sizes ½” to 2”: #150 MI union fittings at both ends;
         2. Larger sizes 1-½” to 20”: Floating metallic flanges designed to mate with standard 150# ANSI flanges.
      7. Control Units (Optional): Protect flexible connector from excessive deformation.
         1. Double Control rod plates, nickel iron;
         2. Multiple control rods between control plates, carbon steel, painted
      8. Acceptable component: Flo Fab series DUT, SSP et DSP.
   2. **Anchors and pipe supports**
      1. Anchors.
         1. As indicated;
         2. Concrete and metal reinforcement: as prescribed.
      2. Pipe guide.
         1. Provided by the manufacturer of the piping.
         2. Agree to the thickness of insulation required over the piping.
         3. Design to preserve the integrity of the vapour barrier and pipe liner.
      3. Acceptable component: Flo Fab series PG.
3. **PART 3 – EXECUTION**
   1. **Installation**
      1. Install flexible connectors in a room temperature environment. Record the values when placing item under pressure and temperature.
      2. Install flexible connector according to manufacturer's instructions.
      3. Install anchors and pipe supports as indicated. The supports must be able to absorb 150% axial thrust.

**End of Section**