

SECTION 15535 - "REFRIGERATION PIPING AND SPECIALTIES"

- 1.0 Reference Sections
Section 15400 for piping materials, joints, and fittings.
Section 15015 for Basic Materials and Methods (including pipe supports).
- 2.0 All refrigeration system piping arrangements, pitching and sizing shall be as recommended by the manufacturer and indicated on the drawings.
- 3.0 All refrigeration systems shall be tested, evacuated and charged by the installing contractor. The contractor shall verify, in writing, that the system has been tested and is leak free and properly charged as determined by the specified test. Refer to Section 15990 "Testing, Balancing and Adjusting" for specific test requirements.
- 4.0 All systems shall be designed with the following:
 - A. Service valves.
 - B. Liquid line sight and moisture indicators at the condenser or receiver and at the entrance to the expansion valve.
 - C. Filter dryers with a replaceable core, and with a valved bypass to permit changing and/or bypassing of the filter without system shutdown.
 - D. Relief Valves - Automatic, forged brass body, reseating characteristics, stem guide, factory sealed, ASME constructed and certified. Series 520 as manufactured by Henry Valve Company or equivalent by Sporlan or Ranco.
- 5.0 Special Installation Notes:
 - A. Condensers or condensing units provided for local environmental rooms, or similar applications, shall be located on the floor served and at a serviceable location near or on the floor. Do not locate these units above ceilings. Provide sufficient cooling to remove heat of rejection from this equipment. Consideration should be given to use water cooled units utilizing condenser water or chilled water return where applicable.

END OF SECTION