# SECTION 23 02 15

# VALVES

## PART 1 – GENERAL

### 1.1 RELATED DOCUMENTS

A. The general provisions of the Contract, including the Conditions of the Contract (General, Supplementary and other conditions, if any) and Division 1 as appropriate, apply to the work specified in this section.

B. Refer to Section 230200 for HVAC General Provisions.

C. Refer to other sections in Division 15 for materials and methods not specified herein.

### 1.2 DESCRIPTION OF WORK

A. This Section includes the following:
1. General
2. Refrigerant Valves and Specialties

### 1.3 QUALITY ASSURANCE

A. Provide adequate supervision of labor force to assure that all aspects of the specifications are being fulfilled.

B. Verify that all work and equipment is installed in accordance with manufacturer's warranty requirements.

## PART 2 – PRODUCTS

### 2.1 GENERAL

A. All gate and globe valves shall be designed for repacking under pressure when fully opened, and shall be equipped with packing suitable for the intended service. When the valve is fully opened, the back seat shall protect the packing and the stem threads from the fluid. All gate and globe valves shall have a gland follower. The pressure- temperature rating of valves shall be not less than the design criteria applicable to all components of the system.

B. Insofar as possible, all valves of the same type shall be of the same manufacture.

C. All valves shall be provided with stem extensions. Valve handle shall be clear of insulation jacket.

D. Manufacturers:

Stockham
Milwaukee

Hammond
Apollo
Watts
Walworth
Nibco
Jamesbury

2.2 REFRIGERANT VALVES

A. Service Valves:

1. Globe Shutoff Valves: Forged brass, packed, back seating, winged seal cap, 300 degrees F (149 degrees C) temperature rating, 500 psi working pressure.

2. Check Valves: Forged brass, accessible internal parts, soft synthetic seat, fully guided brass piston and stainless steel spring, 250 degrees F (121 degrees C) temperature rating, 500 psi working pressure.

3. Manufacturers:

Henry Valve Co.
Parker Hannifin Corp., Refrigeration & Air-Conditioning
Sporlan Valve Co.

**PART 3 – EXECUTION**

3.1 PIPING SYSTEMS

A. Valve body construction shall match piping system material.

B. Install isolating fittings between sections of ferrous and non-ferrous pipe or connected equipment.

C. Valves shall be installed with stems above horizontal.

D. Valves shall be installed on all sides of equipment and control valves to allow isolation for repair.

E. Unions shall be provided adjacent to all valves, at equipment connections, and where necessary to facilitate dismantling of the piping system.

3.2 TAGS, CHARTS AND IDENTIFICATION

A. Identify each valve in all systems in accordance with requirements of Section 230210.

**END OF SECTION 23 02 15**