

SECTION 15113 - AIR RELEASE AND VACUUM VALVES

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing air release and vacuum valves as indicated, complete and operable, including accessories and drain connections.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 15100 Valves, General

PART 2 -- PRODUCTS

2.1 GENERAL

- A. **Air and Vacuum Valves:** Air and vacuum valves shall be capable of venting sufficient quantities of air as determined by the manufacturer's approved sizing methods, while pipelines are being filled and allowing air to re-enter while pipelines are being drained. They shall be of the size indicated, with flanged or screwed ends to match piping. Bodies shall be of high-strength cast iron. The float, seat, and all moving parts shall be constructed of Type 316 stainless steel. Seat washers and gaskets shall be of a material insuring water tightness with a minimum of maintenance. Valves shall be designed for minimum 150 psi water-working pressure, unless otherwise indicated.
- B. **Air-Release Valves:** Air-release valves shall vent accumulating air while system is in service and under pressure and be of the size indicated and shall meet the same general requires as specified for air and vacuum valves except that the vacuum feature will not be required. They shall be designed for a minimum water-working pressure of 150 psi, unless otherwise indicated.
- C. **Combination Air Valves:** Combination air valves shall combine the characteristics of air and vacuum valves and air release valves by exhausting accumulated air in systems under pressure and releasing or re-admitting sufficient quantities of air, as determined by the manufacturer's approved sizing methods, while a system is being filled or drained, respectively. They shall have the same general requirements as specified for air and vacuum valves.
- D. **Sewage Air Release Valves:** Sewage air release valves shall vent accumulating gases during system operation. They shall have long float stems and bodies to minimize clogging. The same general requirements shall apply as specified for air and vacuum valves. Each

sewage air release valve shall be furnished with the following backwash accessories, fully assembled on the valve:

1. Inlet shut-off valve
2. Blow-off valve
3. Clear water inlet valve
4. Rubber supply hose
5. Quick disconnect couplings

2.2 MANUFACTURERS

A. Products shall be manufactured by one of the following (or equal):

1. APCO (Valve and Primer Corporation)
2. Crispin (Multiplex Manufacturing Company)

PART 3 -- EXECUTION

3.1 INSTALLATION

- A. Air release and vacuum valves shall be installed at high points in piping systems and where indicated.
- B. All valves shall be installed in accordance with the manufacturer's printed recommendations.
- C. All air and vacuum release valves shall have piped outlets to the nearest acceptable drain, firmly supported, and installed in such a way as to avoid splashing and wetting of floors.

**** END OF SECTION ****