21. Air Valves with Entry Port.

a. General Requirements.

1) When either air valves or combination air and vacuum valves and entry ports are within a short distance of each other, design both in the same vault according to the guidelines in this section and in Part One, Section 19 (Air Valves) and Section 20 (Entry Ports).

b. Piping and Vault Configuration.

1) For the sizing and design of the air valve or combination air and vacuum valve, see requirements under Part One, Section 19 (Air Valves) and locate the valve in the vault as follows:

   a) For 2-inch and smaller air valves, provide a detail on the drawing and connect to the pipeline in the vault with a tapped corporation stop, as follows:

      (1) Maintain a minimum distance of one and one half (1-1/2) feet from the flanged joint of the entry port tee to the tapped corporation stop.

      (2) Maintain a minimum distance of one and one half (1-1/2) feet from the vault wall to the tapped corporation stop.

   b) For 3-inch and larger combination air and vacuum valves, connect the valve to the pipeline with a welded-on connection in the vault as shown on Standard Detail W/10.5 and as follows:

      (1) Maintain a minimum distance of two (2) feet from the flanged joint of the entry port tee to the welded-on connection.

      (2) Face the small air release valve toward the entry port tee.

      (3) Maintain a minimum distance of one and one half (1-1/2) feet from the vault wall to the welded-on connection.

2) For information on Entry Ports, see requirements under Part One, Section 21 (Entry Ports) and locate the entry port in the vault as follows:

   a) For pipelines 36-inch to 48-inch diameter, see Standard Detail W/10.5.

   b) For pipelines larger than 48-inch diameter, see requirements under Part One, Section 20 (Entry Ports).