

SECTION 026604
AIR RELEASE VALVES (S-96)
(WASTEWATER APPLICATION)

1. Description

This specification shall govern all work necessary to furnish and install all air release valves and accessories required to complete the work as shown on the drawing.

2. Air Release Valve

The automatic sewage air release valve shall be designed to operate under pressure to allow entrapped air to escape from a sewage force main line, sewage pump, or wastewater system. After the air escapes out of the air release valve, the valve shall shut off until more air accumulates in it and the opening cycle will repeat automatically.

The sewage air release valve must have a compound internal linkage of precision molded delrin. All other internals must be stainless steel to positively prevent galvanic action. The float rod shall be 20" long to provide an air gap between the linkage and waste level inside the valve to retard the waste solids from clogging the linkage. Each valve shall be complete with hose and blow-off valves to permit back flushing without dismantling valve.

Body and Cover Cast Iron	ASTM A48, Class 30
Internal Delrin Linkage	ASTM D2133
Stainless Float	ASTM A240
Buna-N	ASTM SB800
Exterior Paint Red Lead	TTP 86 B, Type IV

Valve Height 17½ " - with back flushing attachments - 23½ "
Inlet Size = 2" I.P.T.
Orface Size = 5/16 "
Minimum Capacity = 20 CFM @ 15 PSIG
Operating Pressure Range = 10 to 25 PSIG
Type: APCO 400 SARV or approved equal

Accessories

Service Saddle: Ford Brass Saddle Style 202 BS Double Stainless Band
2" IPT tap and C900 or C905 PVC pipe application
Two - 2" I.P.T. Short Nipples
One - 2" I.P.T. Shut-Off Valve (Gate Valve)
One - 1" I.P.T. Short Nipple
One - 1" I.P.T. Blow-Off Valve (Gate Valve)
One - ½ " I.P.T. 90° Elbow
One - ½ " I.P.T. Nipple
One - ½ " I.P.T. Shut-Off Valve (Gate Valve)
Two - ½ " I.P.T. Quick Connect Valve Couplings
One - Rubber Hose (10' Minimum Length) with Two Quick
Connect Couplings for In Place Back Flushing

3. Operation & Maintenance Manual and Field Service

The Contractor shall submit five (5) sets of detailed drawing and specifications with installation instructions and maintenance procedures for the Engineer's review prior to installation. The manufacturer's field representative shall check installation and make any required adjustments prior

to operation of system.

4. Measurement and Payment

Unless indicated otherwise in the Proposal, Air Release Valves and accessories shall be measured as units and shall include but not be limited to valve, accessories and vault. Payment shall include all material, labor, and incidentals required to complete the work.