

03-08

**ROGERS WATER UTILITIES SEWER SYSTEM  
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR COMBINATION  
AIR-VACUUM VALVES  
DECEMBER 2004**

1. **SCOPE**

This specification covers automatic valves installed on sewer force mains to vent accumulated air under system pressure, and to provide air exhaust during initial fill or to prevent a vacuum during draining of the system.

2. **GENERAL REQUIREMENTS**

- a. Valve body and cover shall be cast iron fabricated in accordance with ASTM A126 Class B. Inlets shall be screwed (NPT) or flanged (125# ANSI B 16.1).
- b. Internal seat trim float arm and pivot pin shall be stainless steel type 303 or 304. Floats shall be stainless steel ASTM A240. Other internal parts shall be stainless steel ASTM A240 or ASTM A276.
- c. Internal seat or orifice button shall be of Buna-N rubber compounded for water service. Cover bolts shall be alloy steel.
- d. Ball valves, piping, nipples and plugs shall be schedule 40 stainless steel, ASTM type 315.
- e. Valve body shall have a working pressure rating of 200 psi.

3. **GENERAL OPERATION REQUIREMENTS**

Combination valves shall provide for both automatic air release under system pressure and to allow air movement during filling or draining operations. The combination valve may be housed in a single casting. The housing shall be designed to incorporate conventional or kinetic flow principles to properly vent the air without premature closure.

4. **QUALITY ASSURANCE**

- a. The Rogers Water Utilities may, at no cost to the manufacturer, subject random air-vacuum valves to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting.

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b. All air-vacuum valves shall be domestically manufactured.

The following manufactures are approved for combination air-vacuum valves.

**APPROVED MANUFACTURERS LIST**

<u>Manufacturer</u>	<u>4"-8" PIPE</u>	<u>10-12" PIPE</u>
G.A. Industries, Inc. (Empire)	939(2"x 1"NPT)	993(3"Flg.)
Val-Matic Mfg. Co.	48S/301S(2"NPT)	48/303(3"NPT)