

For Air Removal from Liquid Systems
To 150 psig at 300°F
Cast Iron Construction

**Series AV 813W
AIR ELIMINATOR**

Applications

Series AV813W is designed to remove air from liquid systems. Some typical uses are:

- Storage Tanks
- Condensate Systems
- Heat Exchangers
- Water-Cooled Engines & Compressors
- Liquid Mixing
- Water Heating Systems
- Oil Applications (Viton Option)

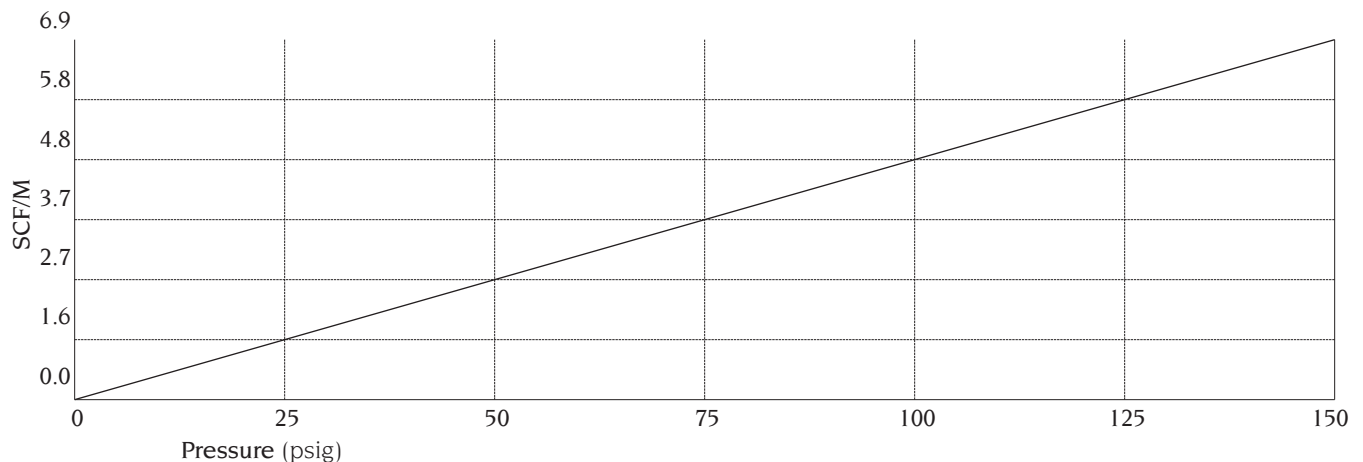
Features

- Rugged Cast Iron Housing
- Simple Design, Low Maintenance
- Tight Shut-Off, EDPM Valve Head
- All Stainless Steel Internals

How It Works

The Air Eliminator relies on the weight of the float and lever assembly to automatically open the flow-through passage in the valve seat, allowing air to escape from the system. When the liquid level rises, the buoyant force created on the float actuates the lever mechanism to the closed position, sealing off any loss of liquid.

The amount of air exhausted by the Air Eliminator, is a function of time and pressure and is reflected in the following chart:



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WATSON McDANIEL COMPANY

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Manufacturers of:

**PRESSURE & TEMPERATURE REGULATORS - RELIEF VALVES - STEAM TRAPS - CLEAN STEAM PRODUCTS
LIQUID DRAINERS - PRESSURE PUMPS - EJECTORS - SPECIALTY PRODUCTS**



ASME Sect VIII Div I

SP-540

SPECIALTY PRODUCTS

Series AV 813W Specifications

Installation & Maintenance

The Air Eliminator should be mounted vertically at the highest point of piping system or equipment where air collects. The outlet should be piped to a safe place.

Isolate the AV813W before attempting repair. If the valve seat orifice becomes clogged, clean out by inserting a small diameter wire. Replace the cover gasket each time the cover is reassembled to body. Make sure the seat and cover bolts are properly tightened when reassembling. The vertical flow pattern is available with 3/4" inlet and 3/8" outlet NPT pipe size connections.

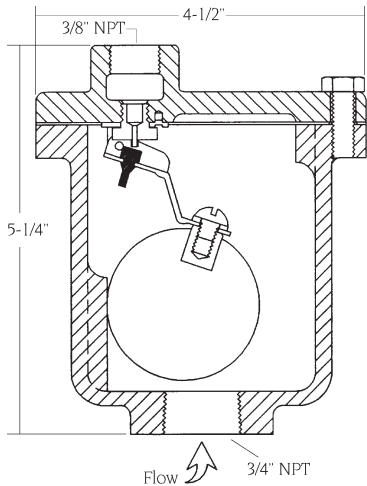
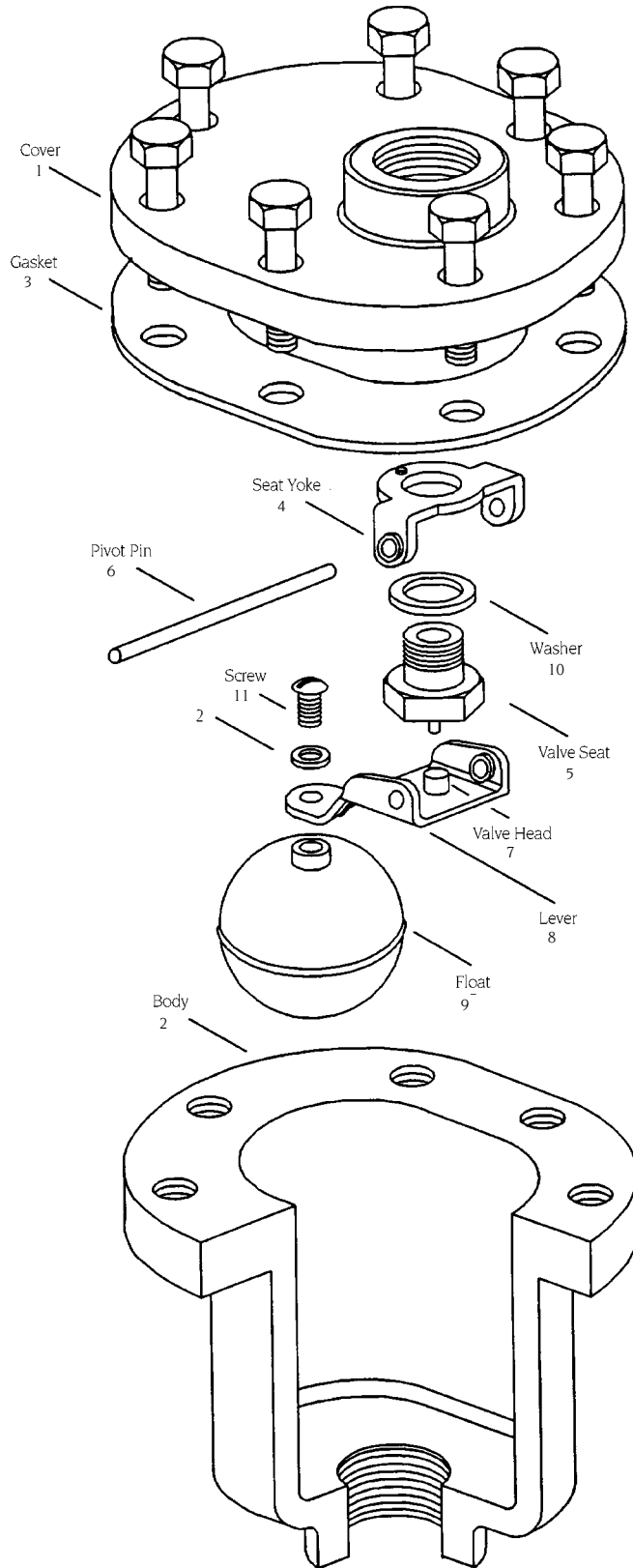
Materials

- (1) Cover Cast Iron ASTM A-126, Class B
- (2) Body Cast Iron ASTM A-126, Class B
- (3) Gasket Grafoil
- (4) Seat Yoke Stainless Steel Type 304
- (5) Valve Seat Stainless Steel Type 304
- (6) Pivot Pin Stainless Steel Type 304
- (7) Valve Head *EPDM
- (8) Lever Stainless Steel Type 304
- (9) Float Stainless Steel Type 304
- (10) Washer Stainless Steel Type 304
- (11) Screw & Washer ..Stainless Steel Type 304

*Optional Viton

Ordering Spare Parts

Description	Part Number
Cover with Gasket	1
Cover Gasket	1-A
Complete Mechanism Ass'y.....	2
Body	4
Float	5



Maximum rating: 150 psig at 300°F