



Member of Aveng Manufacturing DFC

COMBINATION SEWAGE AIR RELEASE AND VACUUM VALVES

A. Description and Service

1. Valve shall have the following functions: continuous discharge of dis-entrained pressurized air/gas, unrestricted vacuum break, and pipeline surge protection in a single chamber. Valves shall be anti-surge and anti-shock air release and vacuum break valves.
 - a. The small orifice shall release air accumulations after the pipeline is filled, under pressure and in operation.
 - b. The valve shall be equipped with an integral surge alleviation mechanism that automatically dampens surge pressures due to rapid air discharge or the subsequent rejoining of separated water columns.

B. Construction and Design

1. The intake/discharge orifice area is equal to the nominal size of the valve, i.e., an 8" valve shall have 8" full flow inlet and 8" outlet.
2. Nozzle and Anti-Shock floats shall be solid unbreakable HDPE that will not deform under twice the design working pressure.
3. Manufacturer shall have ISO 9001, and third party vacuum testing to certify sizing and performance. CFD, FEA or other types of theoretical modeling are not acceptable.
4. Valve shall have a 10 year in-service warranty for all internal components.
5. Materials of Construction:
 - a1. Fusion Bonded Ductile Cast Iron Body, 304 Stainless Steel Top Cover and Fasteners.
 - a2. 304 Stainless Steel Body, Flange, Top Cover and Fasteners.
 - b. 316 Stainless Steel Nozzle & Lower Float Assembly
 - c. Integral High Density Polyethylene Anti-Shock and Nozzle Floats
 - d. EPDM Seats and Seals.
 - e. Tangential top and bottom Flushing Ports.

C. Manufacturer & Model

1. Vent-O-Mat Series RGXII by RF Valves, Inc. Hanover, Maryland U.S.A.

RF VALVE®

aiRFlex®

VENT-O-MAT®

RF-SKG®