

## Model SWG Standard Sewage Valve—Overview

The **Vent-Tech Model SWG** sewer valve combines thirteen years of manufacturing experience with advanced Patent Pending flow designs. The Model SWG was engineered to expand and improve the technological advances of the flat float air/vacuum valve.

### APPLICATIONS

- Municipal Wastewater Systems
- Force Mains
- High Points
- Lift Stations

### FUNCTION

	Large Air Release at Start-Up	Controlled Air Release at Start-Up	Air Release Under Pressure	Full Port Vacuum Relief	Surge Control
Series-C	✕		✕	✕	✕
Series-B		✕	✕	✕	✕
Series-V	✕		✕		✕
Series-N				✕	

### PURPOSE

- Minimize pumping energy
- Protect from pipeline collapse due to vacuum
- Air related surge protection
- Manage column separation
- Maximize the capacity of the pipeline

### FEATURES

- Designed and manufactured for wastewater applications.
- Manufactured in 304 and 316 Stainless Steel.
- Rated for pressures of 10 bar (145psi), 16 bar (232 psi) and 25 bar (362 psi).
- Minimum sealing pressure at three (3) psi.
- Tubular design with direct acting floats.
- Includes two side ports.
- Self-flushing at pump shut-down and valve emptying.
- High efficiency screens prevent ingress of airborne debris and bugs.
- Available with connection to odor control units
- Inlets, outlets, and internal clearances have a cross-sectional area at least equal to that of the valve’s nominal size.
- Valve flanges are designed to minimize energy losses at the transition to the valve body air passages.
- The anti-shock/surge floats automatically limit surge and transient pressure.
- Multi-orifice anti-shock/surge floats with evenly spaced orifices distribute pressurized air across the face of the float.
- The anti-shock/surge floats respond directly to any negative pressure by fully opening the large orifice of the valve.
- Orifices fitted with inserts protect from heat softening and abrasive wear.
- Inter-changeability of valve inlet components allows for efficient conversion between Series - C, B, V or N valve functions.
- Performance verification by independent testing facility.

PERFORMANCE		02 SWG	03 SWG	04 SWG	54 SWG	55 SWG	56 SWG	06 SWG	08 SWG	10 SWG	12 SWG
Vacuum Relief Capacity	(CFM)	604	1,411	1,745	2,560	3,226	3,622	4,380	7,826	11,248	17,308
Minimum Sealing Pressure	(psi)	3	3	3	3	3	3	3	3	3	3



### FEATURES AND BENEFITS MODEL SWG, SERIES C, B, V, N