

## Model WTR Standard Water Valve—Overview

The **Vent-Tech Model WTR** clean water valve combines thirteen years of manufacturing experience with advanced Patent Pending flow designs. The Model WTR 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 clean water applications.
- Manufactured in 304 and 316 Stainless Steel.
- Rated for pressures of 25 bar (362 psi), 40 bar (580 psi).
- Minimum sealing pressure at three (3) psi.
- Tubular design with direct acting floats.
- Pressure relief port.
- High efficiency screens prevent ingress of airborne debris and bugs.
- 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		01 WTR	02 WTR	03 WTR	04 WTR	54 WTR	55 WTR	56 WTR	06 WTR	08 WTR	10 WTR	12 WTR
Vacuum Relief Capacity	(CFM)	108	604	1,411	1,745	2,560	3,226	3,622	4,380	7,826	11,248	17,308
Minimum Sealing Pressure	(psi)	5	5	3	3	3	3	3	3	3	3	3

**Notes:** (1) The above table represents the performance of 25 bar (362psi) valves, the max flow of higher pressure rated valves may decrease slightly due to the decreased internal clearances dictated by the need to use thicker components.

	<b>FEATURES AND BENEFITS MODEL WTR, SERIES C, B, V, N</b>
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