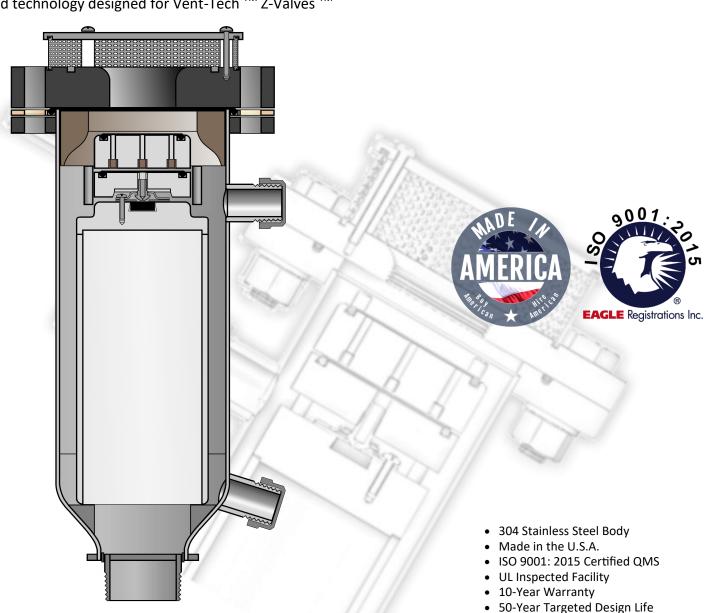


Vent-Tech Model SSG—Series C

145 psi (10 Bar) 232 psi (16 Bar)—Combination Air Valve for Wastewater

GENERAL SPECIFICATION

- · Optimized for High Vacuum Flow
- Compact Design: < 25-inch installed height.
- 30% shorter than Model SWG TM
- Vacuum Relief Capacity: 640 scfm
- Patented technology designed for Vent-Tech TM Z-Valves



Model SSG Standard Water Valve—Overview

The <u>Vent-Tech Model SSG</u> sewer valve is essentially a shorter version of the Model SWG air/vacuum relief valve, but with improved flow performance, less weight and better self-cleaning. In applications where clearance height is ample or valve weight is not a factor, specify the Model SWG valve, otherwise we recommend specifying the Model SSG.

APPLICATION

Waste Water Systems

Force Mains

• High Points

Lift Stations

FUNCTION

	Market	Large Air Release at	Controlled Air Release	Air Release Under	Full Port Vacuum	Surge Control
	Application	Start-Up	at Start-Up	Pressure	Relief	Juige Control
Series C	95%	X		Х	Χ	X
Series B	5%		X	X	Х	X
Series V	< 1%	X		X		X
Series N	< 1%				Х	

PURPOSE

- Minimize pumping energy by removing air plugs
- Protect from pipeline collapse due to vacuum
- Control water hammer velocity

- Manage water column rejoining transients
- Internal anti-surge device

FEATURES

- Features
- Performance
- Designed and manufactured for wastewater applications.
- Reduced height versus full height flat float designs (e.g. 02SSG is 24.25-inches tall installed: 02SWG is 32-inches tall).
- Reduced weight versus other flat float designs (e.g. 02SWG is 48 lbs. while 02SSG is 37.5 lbs.).
- Manufactured in 304 and 316 Stainless Steel.
- Rated for pressures of 10 bar (145psi).
- Minimum sealing pressure at less than (1) psi.
- Compact tubular design with direct acting floats.
- Includes two side ports.
- Self-flushing at pump shut-down and valve emptying.
- High efficiency screens prevent ingression 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.
- Composite or Polymer top flange improves balance and handling
- 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.
- Performance verification by independent testing facility.



International Valve / Vent-Tech General Specification—SSG-C Series

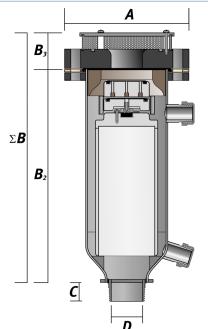
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145 psi (10 Bar); 2								Standard
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			\sim	\sim		ANSI B16.5 Stud Pa		304 SS
21 23 25		24) (22)	21 23 25	24 22	2	Wrenching Hex for NPT Connections		304 SS
19		20	19	20	2	Streamlined Base F Studded Connection	ns	3104 SS
						Control Float Stand		304 SS
17		18	17	18		Tubular Valve Body	/	304 SS
		40		10	_	Control Float		UHMW-PE
						Side Port Cap		3104 SS
15		16	15	16		Nozzle Assembly		316 SS
					_	Lower Side Port Nozzle Float		304 SS UHMW-PE
13//		14	(13) /	14	_	Nozzle Float		EPDM Rubber
						Guide Rail		304 SS
11// /		12	(11) /	12		Air Release Nozzle		316 SS
		(12)				Dynamic O-Ring Se	اد	Viton
						Upper Side Port Ca		Plastic (Temporary)
9)/		(10)	9 Y/	10		Air Spacer	۲	Nylon, UHMW-PE
						Upper Side Port Ca	p	Plastic (Temporary)
7		(8)	(7)	8)		Support Flange	۲	Nylon
						Protected Orifice In	nsert	316 SS
						Body Flange	15010	304 SS
5		6	(5)	(6)		Static O-Ring Seal		Viton, Buna N
						Streamlined Sealin	g Flange	Nylon
(3)		(4)	(3)	(4)		Punched Screen Gu		304 SS
						Screen Standoff Sp		Polypropylene
1		2)	1	2		Screen Lid Fastene		304 SS
		2		(2)	25	Screen Lid		UHMW-PE, HDPE
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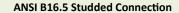
www.internationalvalve.com

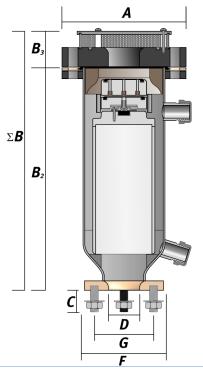
Model SSG: Series C-Dimensions

145 psi (10 Bar); 232 psi (16 Bar)

NPT Threaded Connection







Valve Part Number	Valve Size D		Pres- sure	Top Flange Dia.		,	Valve Heig	ht		Nipple or Stud Length	Base Flange Dia.	Stud Circle Dia.	# of Studs	Stud Size	Weight
		Rating	Α	B ¹	B ²	B ³	ΣΒ	Н	С	F	G				
	inch	psi	inch	inch	inch	inch	inch	inch	inch	inch	inch	each	inch	lbs.	
NPT Threaded (Connectio	n													
12SSG10TCS	2	145	10	-	21	3 1/4	24 1/4	-	2	-	-	0	-	34	
02SSG10TCS	2	145	10	-	21	3 1/4	24 1/4	-	2	-	-	0	-	34	
12SSG16TCS	2	232	10	-	21	3 1/4	24 1/4	-	2	-	-	0	-	34	
02SSG16TCS	2	232	10	-	21	3 1/4	24 1/4	-	2	-	-	0	-	34	
ANSI B16.5 Stud	ded Con	nection													
12SSG10SCS	2	145	10	-	21	3 1/4	24 1/4	-	2 1/4	5	4 3/4	4	5/8	34	
02SSG10SCS	2	145	10	-	21	3 1/4	24 1/4	-	2 1/4	5	4 3/4	4	5/8	34	
12SSG16SCS	2	232	10	-	21	3 1/4	24 1/4	-	2 1/4	5	4 3/4	4	5/8	34	
02SSG16SCS	2	232	10	-	21	3 1/4	24 1/4	-	2 1/4	5	4 3/4	4	5/8	34	

Model SSG: Series C—Flow Data

145 psi (10 Bar); 232 psi (16 Bar)

Valve Code	Pipe Connec-		200-	Nom Valve	Operating	Small Noz-	Aı	nti-Surge Orif	fices†	Controlled Air Re-	Vacuum Relief Ca-	
	tion*					zle Orifice Diameter	Count	Size	Single Hole Equivalent	lease Thru Anti- Surge Orifices ‡	pacity §	
	code			inch	psi	mm	each	mm	mm	max. scfm	min. scfm	
12SSG	Т	S	R	2	< 1 - 232	1.5	1	4.5	4.5	68	149	
02SSG	Т	S	R	2	< 1 - 232	1.5	4	4.5	9	271	642	

^{*} T = Male NPT Thread, S = Studded Flange, R = Trophy Connection
† Quantity and sizes of orifices are customizable. Please contact factory for additional information
‡ At pressure of 145 psig
§ Standard cubic feet per minute (ft3/min) at 70° Fahrenheit,14.7 psi absolute and 5.08 psi differential