

AIM Sales - PVC Tank Vent (Patented)

Spec & Submittal Sheet - 2025 Edition

Type: Above-ground and elevated storage tank vent

Manufacturer: AIM Sales

Origin: Centerville, Texas - Made in the USA

Product Description

The AIM PVC Tank Vent is a **patented, above-ground and elevated storage tank vent system** designed to protect tanks from overpressure and vacuum conditions caused by liquid level or temperature fluctuations.

Made of durable **Schedule 40 PVC**, the vent integrates reinforced gussets, stainless steel bird screens, and a bolt-on flange assembly for easy installation and long-term service.

Purpose:

Provides consistent airflow exchange to prevent tank deformation or rupture, minimizes gas accumulation, and ensures compliance with tank safety and inspection requirements.

Applications

- Municipal water and wastewater storage tanks (EST, GST, HPT)
- Industrial process and terminal storage
- Oil & Gas containment and hydraulic systems
- Dam and river authority water-control infrastructure

Key Features

- **Material:** Schedule 40 PVC with UV stabilization
 - **Design:** Reinforced 3/4" gussets and bolt-on flange connection
 - **Vent Geometry:** Tapered airflow design for balanced pressure relief
 - **Bird Screen:** Integrated 316 stainless-steel expanded mesh (removable)
 - **Installation:** Simple bolt-on system - no welding required
 - **Maintenance:** Removable screen for inspection and cleaning
 - **Configuration:** Supply-only or supply-and-install options available
 - **Made in the USA** - Designed and fabricated in Centerville, Texas
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Technical Specifications

Parameter	Specification
Nominal Size	24" Sch 40 PVC
Overall Width	84.000 in
Overall Height	36.000 in
Center Throat Width	24.000 in
Side Section Width	30.000 in each
Gussets	(2) × 3/4" thick PVC plate
Bird Screen	316 SS expanded mesh, removable
Flange OD	Ø28.500 in
Bolt Circle	Ø20.688 in
Bolt Holes	(8) × Ø0.688 equally spaced
Recommended Bolts	(8) × 5/8-11 SS316 with flat + lock washers

Gasket	1/8" EPDM (potable-water compatible)
Operating Temp Range	32°F – 140°F (PVC limitation)
Pressure Range	Atmospheric venting (non-pressurized)
Finish	Natural PVC - UV stabilized
Configuration Options	Supply-only or turnkey installation

Performance Summary

Characteristic	Description
Airflow Capacity	To be confirmed - requires flow test data
Net Free Area	TBD (based on screen and vent geometry)
Design Intent	Prevents tank collapse or overpressure events
Pressure Drop	Minimal - pending flow test results
Durability	Resistant to corrosion, UV degradation, and chemical exposure
Testing	Built and tested for fit-up and functional performance

Compliance & Quality Assurance

- Fabricated to AIM internal QA/QC standards
- Fully insured operations (COI available on request)
- Safety-first jobsite practices: LOTO, PPE, and site-specific training
- Compatible with municipal inspection and reporting standards

- Patent protected - AIM proprietary vent design
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Installation Notes

- Mount vent to tank flange or adapter using supplied gasket and SS fasteners
 - Torque bolts evenly in a star pattern to manufacturer spec
 - Verify bird screen is securely seated and unobstructed
 - For elevated installations, ensure vent orientation avoids debris accumulation
 - Conduct airflow and leak check during commissioning
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Maintenance

- Inspect quarterly or during scheduled tank maintenance
- Remove and clean bird screen as needed
- Replace gaskets during reinstallation to ensure seal integrity
- Maintain clear access for airflow and inspection

Ordering Information

Model	Description	Type	Lead Time
AIM-VT24	24" PVC Tank Vent	Supply Only	2-3 Weeks
AIM-VT24-I	24" PVC Tank Vent with Installation	Turnkey	3-4 Weeks
AIM-VT36	36" Custom PVC Tank Vent	Custom Order	4-6 Weeks

Warranty

- Standard 1-year manufacturer warranty
 - Covers defects in material and workmanship
 - Does not cover misuse, improper installation, or chemical incompatibility
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Contact

AIM Sales

Centerville, Texas - Serving Texas & Gulf Coast

Phone: (832) 764-1537

Email: james.angelo@aimsalestx.com | ashley.angelo@aimsalestx.com

Website: www.aimsalestx.com

Recommended Next Steps

- Add verified airflow test data (CFM vs. ΔP chart)
 - Update spec sheet with patent number once finalized
 - Create submittal bundle (drawing + spec + QA checklist)
 - Publish downloadable PDF version on AIM website
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Product Image / Diagram



