

DEFENDER SERIES® PRESSURE/VACUUM VENT WITH IN-LINE VAULT

Defender Series® Pressure/Vacuum (P/V) vents regulate the pressure at which vapor is allowed to escape from the underground storage tank and the vacuum at which outside air is allowed to enter the tank. The P/V vent's internal rolling diaphragm delivers consistent and controlled cracking for both low leak and high-pressure conditions while the superior construction of UV-resistant materials extends the overall service life. The in-line vault provides added protection and facilitates at-grade servicing and testing. This eliminates the added expense of lift trucks as well as the potential safety concerns of conducting work at height.



HIGHLIGHTS

Pressure / Vacuum Vent

- The P/V vent is constructed of high-grade, UV-resistant materials and premium internal components designed and tested to last.
- A vent cap with stainless steel mesh debris shield protects the system from water and insect intrusion.
- The one-turn locking mechanism provides easy installation and removal for servicing.
- High tolerance for over-pressure situations.
- Designed to meet all major motor fuel types.
- A rolling diaphragm achieves low leak rates and high flow rates with a tight and consistent seal.
- The internal female threads are compatible with OPW® vent stack adapters for easy retrofit onto existing sites.
- Compatible with manifolded vent applications.

In-Line Vault

- The cast ductile iron enclosure houses the P/V vent for added security and protection from the environment while also placing it at grade-level for safer, cost-effective maintenance and testing.
- The stainless steel gasketed faceplate includes a swivel pin that holds it in place during service.
- Tamper-resistant screws secure the faceplate to the vault.
- Eliminates wrenching at height.
- Integrated drain plug facilitates draining of condensate.

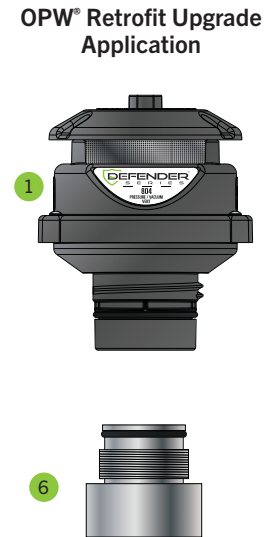
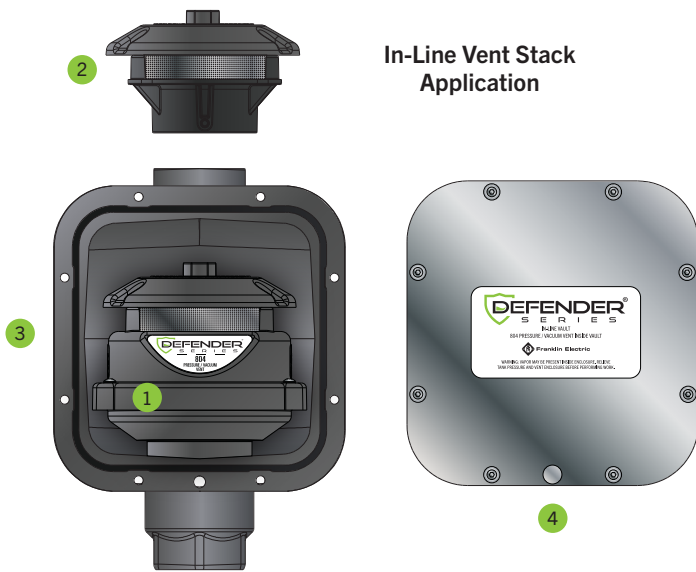
SPECIFICATIONS

Pressure setting	2.5" to 6.0" WC
Vacuum setting	-6.0" to -10.0" WC
Pressure leak rate	≤ 0.05 CFH at +2" WC
Vacuum leak rate	≤ 0.21 CFH at -4" WC
Maximum flow rate	8000 SCFH at 2 PSI
Operating temperature	22° F at 122° F (-30° C at 50° C)
P/V vent body	UV-resistant polymer
Seals	UL Listed elastomers
Screens	Stainless steel
Rain cap	UV-resistant polymer
In-line vault body	E-coated cast ductile iron
In-line vault cover	Stainless Steel
Approvals/ Certifications	- UL2583 listed - CARB Enhanced Vapor Recovery (EVR) certified under Executive Orders VR-101, VR-102, VR-104, and VR-105 - Meets the requirements of EPA 40 CFR part 63 for Gasoline Dispensing Facilities

SPECIFICATIONS CONTINUED

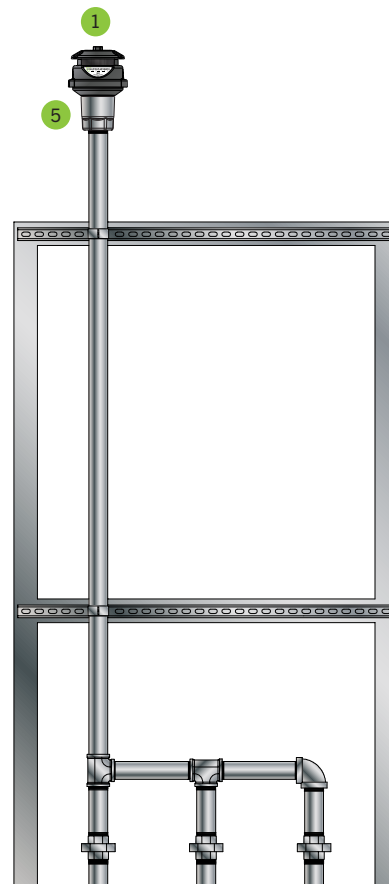
Components

- 1 P/V vent
- 2 Vent cap
- 3 In-line vault
- 4 In-line vault faceplate
- 5 Defender Series® vent stack adapter
- 6 OPW® vent stack adapter (not available for purchase)



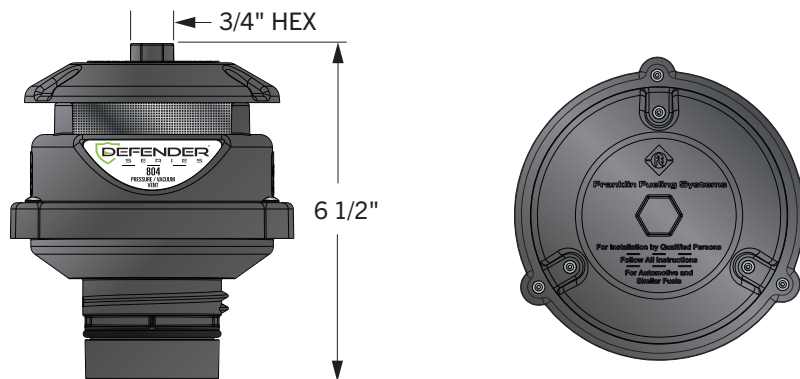
Installation Options

Install in-line at grade with the in-line vault and vent cap or end-of-line with the Defender Series® vent stack adapter. The P/V vent is also compatible for retrofit onto existing OPW® vent stack adapters. All installation methods are compatible with manifolded vent lines as well.

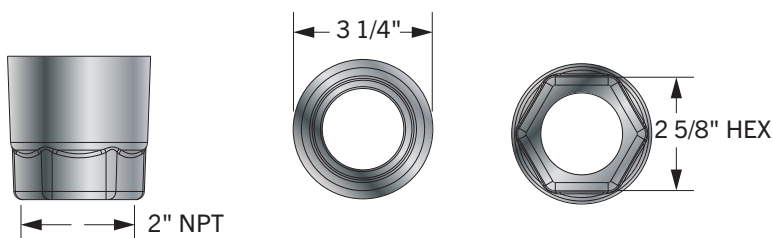


SPECIFICATIONS CONTINUED

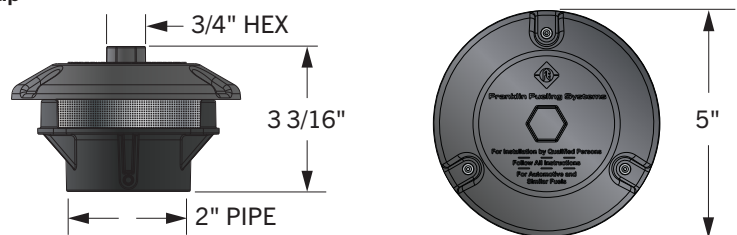
Pressure/Vacuum Vent



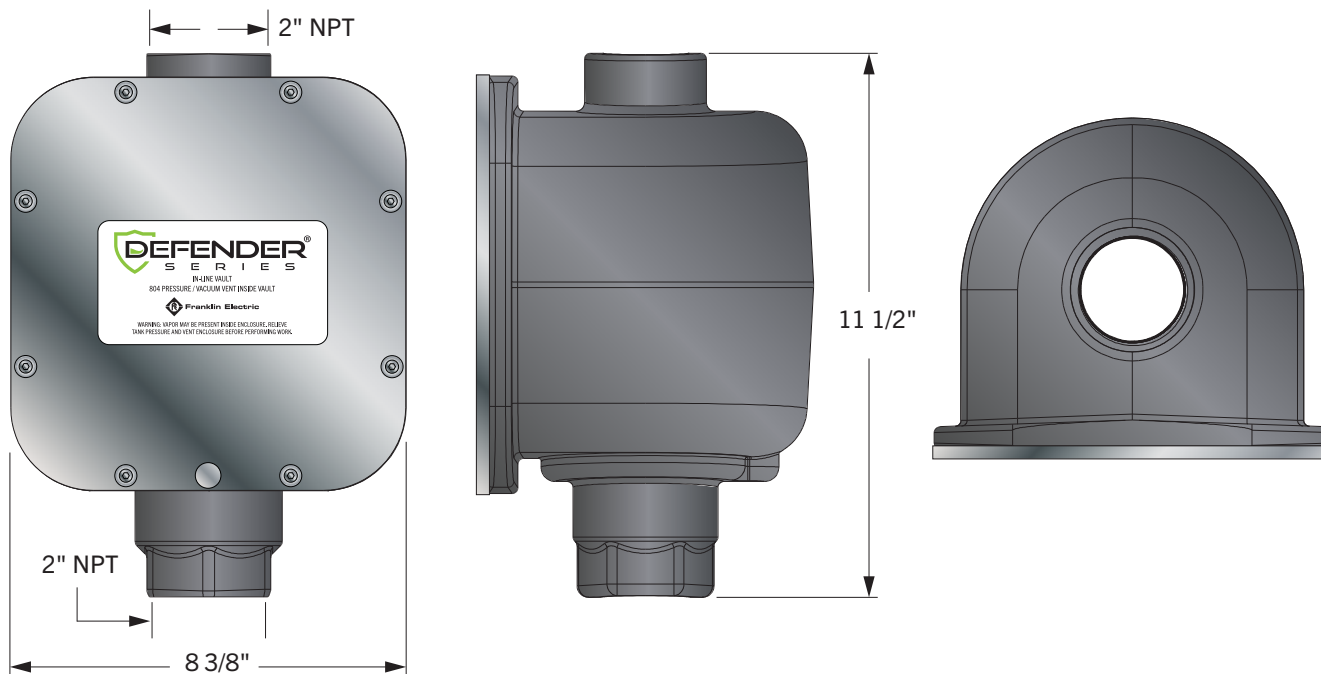
Vent Stack Adapter



Vent Cap



In-Line Vault



ORDERING INFORMATION

In-Line Vault



Model	Description
DPVW-EVR	(1) CARB certified Defender Series® P/V Vent with (1) In-line vault and (1) rain cap

End-of-Line



Model	Description
804100903	CARB certified Defender Series® P/V vent, and Defender Series® 2" vent stack adapter

Adapters & Replacement Parts



Model	Description
804100940	CARB certified Defender Series® P/V vent (includes internal and external sealing O-rings) *804100940 is a direct replacement for 804100930
804110909	Vault Assembly with 2" NPT Inlet/Outlet threads
804023901	Vent (rain) cap
804110906	End of Line Adapter with 2" NPT Inlet threads
804110902	Vault faceplate gasket
804110903	(2) replacement tamper-resistant screws for vault faceplate
804110904	Vault service plug, prevents vapors from escaping during maintenance