

# VaporPin<sup>®</sup>

A stylized orange graphic of a pin or needle, positioned vertically between the letters 'P' and 'i' in the word "Pin".

Product Catalogue

## ABOUT VAPOR PIN®

The Vapor Pin® a unique, patented, re-usable sampling device, has a variety of applications, including but not limited to: sub-slab soil-gas sampling, de-pressurization studies/ testing, stray gas evaluations, source area characterization, pilot testing and mitigation progress monitoring. The Vapor Pin® specifically, manufactured and marketed by Vapor Pin Enterprises, was designed to eliminate many of the problems associated with traditional sub-slab soil-gas sampling methods.

The patented design of the Vapor Pin® provides environmental professionals a means of collecting high-quality, low-cost soil-gas samples and pressure readings within minutes. Plus, the Vapor Pin® is made in the USA.

A detailed photograph of the Vapor Pin device, a complex metal tool with multiple sections, including a threaded section and a tapered section. It is shown against a background of white smoke or steam.

\*Protected under US Patent # 8,220,347 B2, US 9,291,531 B2 and other US and International Patents pending.

# THE VAPOR PIN® ADVANTAGE

- Reduces damage to the slab
- Improves diagnostic testing
- Improves spatial resolution
- Connects easily to sampling equipment
- Is easily installed, sampled, and retrieved for reuse
- Eliminates the need for grout, increasing productivity
- Reduces sampling time, allowing collection of more samples for less cost, and improves the understanding of site conditions
- Unique patented design reduces the potential for leaks and improves sample quality



## VAPOR PIN® KITS

Vapor Pin® Kits are the all-in-one solution to your gas sampling needs.

The Standard Kits come in 3 varieties\* and Include:

- 10 VAPOR PINS®
- 20 VAPOR PIN® Sleeves
- 20 VAPOR PIN® Caps
- 10 Plastic Flush Mount Covers
- 1 Installation/Extraction Tool
- 1 Bottle Brush
- 1 Water Dam for leak testing
- Vapor Pin® SOPs
- Hard-sided carrying Case

### STANDARD KITS





## CONTRACTOR KITS



\* Brass, Stainless Steel, FLX-VP, or FLX-VP with Quick Connect

The Contractor Kits come in 4 varieties\* and Include:

- 10 VAPOR PINS®
- 20 VAPOR PIN® Sleeves
- 20 VAPOR PIN® Caps
- 10 Stainless Steel Secure Covers
- 1 Spanner Screwdriver
- 1 Stainless Steel Drilling Guide
- 1 Installation/Extraction Tool
- 1 Bottle Brush
- 1 Water Dam for leak testing
- Vapor Pin® SOPs
- Hard-sided carrying Case

# Single Point Installation

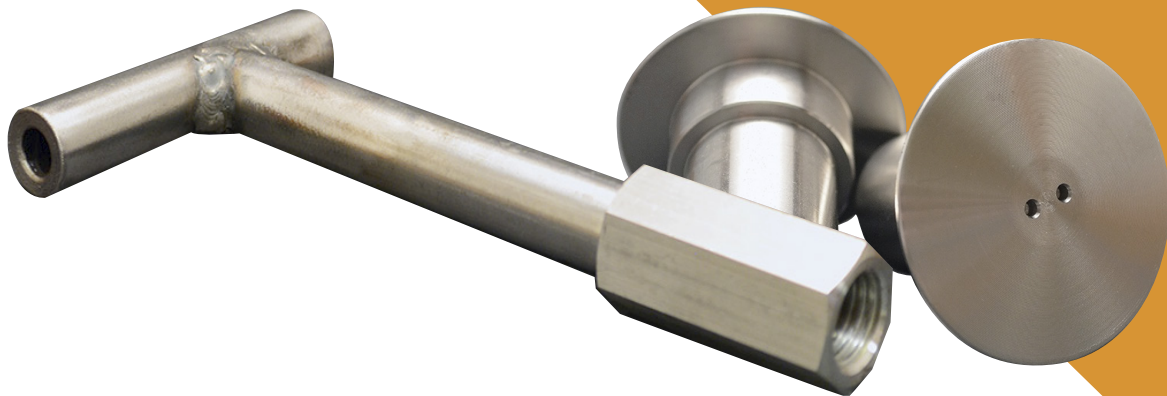
Not all Projects call for multiple installation points, sometimes you only need one. In this case the essentials will get the job done.



At a minimum you will need:

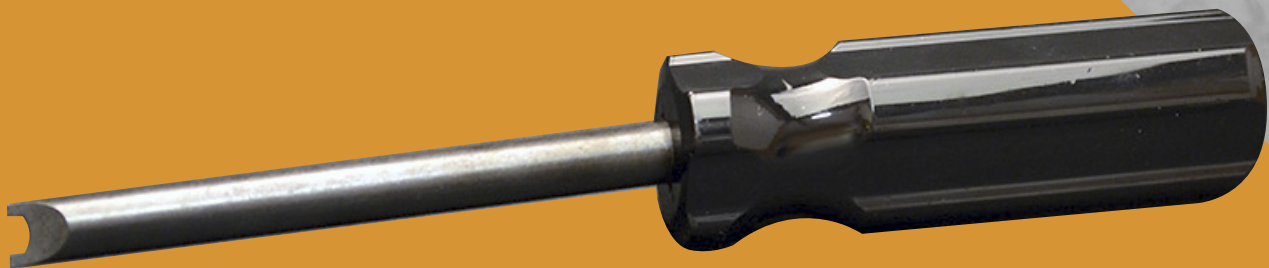
- 1 VAPOR PIN®
- 1 installation/ Extraction tool
- 1 Bag of sleeves
- 1 Bag of white protective caps

Additionally, if you want a finished look, or if you are in an area with some foot traffic, you may want the optional plastic or stainless steel secure covers. The Stainless Steel Drilling Guide and Stainless Steel Secure Covers are recommended for flush mount installations in high traffic areas.



## Individual Products

When you need an “a la carte” product we’ve got you covered. Order individual parts and pieces for your projects as you see fit. Placing an order is easy. The website works like Amazon, place items in your cart and checkout online at <https://www.vaporpin.com/>. If you have any questions, please contact us at 614-504-6915.







## FLX-VPSS

The FLX-VPSS provides additional connectivity for the collection of soil-gas samples and subslab pressure readings. In addition to the barbed fitting that comes with the FLX-VPSS, the FLX-VPSS allows you to connect to sampling equipment through the use of Swagelok® fittings or Quick Connects. With the FLX-VPSS you can directly connect to TO-17 tubes connected to a Swagelok® fitting or to Bottle-Vacs™ equipped with Quick Connects. Available in stainless steel only.



## Stainless Steel Vapor Pin®

The barb at the top of the Vapor Pin® connects to 1/4-inch OD sample tubing (typically Nylon or Teflon®) with softer tubing, preferably Tygon®. Because stainless steel is more durable than brass and more corrosion resistant, we recommend stainless steel for long-term installations and in corrosive environments.



## Brass Vapor Pin®

Brass Vapor Pins® are less durable than stainless steel, but they can be reused repeatedly with proper care. We recommend brass Vapor Pins® for short-term installations, especially those installed in the stick-up configuration.



## Mini Pin

The Mini Pin is ideal for use in buildings with thin slabs (as thin as 2 inches). Additionally, the Mini Pin is installed in the flush-mount position after drilling only a 5/8-inch hole. Mini Pins are supplied with Secure Covers, which act as a seal. While Mini Pins are designed for permanent installation and cannot be removed and reused, they are constructed of anodized aluminum, making them very economical.





## FLX-VPBarb

The FLX-VPSS comes with a removable ¼-inch barb fitting, but the barb can be replaced, should it become lost or damaged. Available in stainless steel only.



## MQT-SVPS Quick Connect

The optional Quick Connect attaches to the top of the FLX-VPPS, and connects directly to some sample containers, including Entech's glass Bottle-Vacs™. Quick Connect fittings provide the fastest way to connect to sample containers or field instruments, and they minimize the loss of soil gas to indoor air. Available in stainless steel only. Contact your analytical lab to make sure they provide compatible connections between the pin and the container.



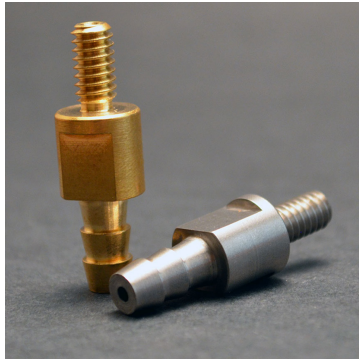
## Swagelok® and Ferrules

The optional Swagelok® fitting replaces the barb on top of the FLX-VPPS, should you desire to connect ¼-inch OD nylon or Teflon® tubing directly to the Vapor Pin®. The Swagelok® fitting also connects directly to most TO-17 sorbent tubes. Dedicated Swagelok® ferrules (not shown) are used to make connections, and are discarded whenever sample tubing is replaced. These are the same ferrules used for connecting ¼-inch OD sample tubing to most Summa-type canisters. Available in stainless steel only.



## Vapor Pin® Filters

Vapor Pin® Filters screw into the bottom of Vapor Pins® to prevent particulates from entering the sample train. Due to the process used to manufacture them, Vapor Pin® Filters are available in brass only.



## Vapor Pin® Barb Extension

With the Vapor Pin® Barb Extension screwed into to the bottom of the Vapor Pin®, sample tubing can be attached to extend deeper beneath the slab. The Barb Extension is the same diameter as the barb on top of the Vapor Pin®, and it accepts the same tubing. A Vapor Pin® Filter or Vapor Pin® Sieve can be attached to the bottom of the nylon tubing with Tygon® to prevent clogging the opening with soil.



## Vapor Pin® 1.5" Extension

The Vapor Pin® 1.5" Extension is an alternative to the Barb Extension, and is screwed into the bottom of the Vapor Pin® to minimize contact between soil gas and the slab. Vapor Pin® Extensions can be connected end-to-end for collecting soil gas at various depths in increments of 1.5 inch. They can also be used with the Sealing Extension, described below.



## Sealing Extension

Like the Vapor Pin® Barb Extension or the Vapor Pin® 1.5-inch Extension, the Sealing Extension is placed beneath the Vapor Pin®. The Sealing Extension is used to isolate the slab from the soil-gas environment to ensure that collected soil-gas samples are not affected by VOCs that may have saturated the slab. Depending on slab thickness, one or more Vapor Pin® 1.5" Extensions can be placed between the Vapor Pin® and the Sealing Extension to extend the assembly to the bottom of the slab. Available in stainless steel only.



## Vapor Pin® Sieve

The Vapor Pin® Sieve can be attached to the bottom of a Vapor Pin®, a Barb Extension with tubing, or a Vapor Pin® 1.5" Extension to prevent soil from clogging the sample train.



## Stainless Steel Drilling Guide

When installing Vapor Pins® in the flush-mount configuration, the Stainless Steel Drilling Guide is placed in the 1.5-inch hole prior to drilling the 5/8-inch hole, to ensure that the holes are co- centered, and perpendicular to the slab. The guide also functions as a depth gauge while drilling the 1.5-inch hole. When the flange on the Drilling Guide just touches the slab, the hole is at the proper depth.



## Stainless Steel Secured Cover

The Stainless Steel Secured Cover screws onto the Vapor Pin® installed in the flush-mount configuration, to reduce trip hazards and to discourage tampering. The Secured Cover can be used with brass or stainless steel Vapor Pins®, and with the FLX-VPSS. The Secure Cover is available in stainless steel only.



## Flush Mount Covers

The basic Flush Mount Cover is made of black plastic, and is a low-cost alternative to the Stainless Steel Secured Cover used in flush-mount installations.



## Vapor Pin® Sleeves

The Vapor Pin® Sleeve is what distinguishes the Vapor Pin® from other sampling points. The Vapor Pin® Sleeve instantly forms a tight seal between the concrete slab and the Vapor Pin®, without the use of grout, cement, or adhesives. Like most plastic parts, including sample tubing, Vapor Pin® Sleeves are replaced each time the Vapor Pin® is installed.



## Vapor Pin® Caps

Vapor Pin® Caps are placed on top of any type of Vapor Pins® equipped with barb fittings, and prevent soil gas from escaping between sample events. Caps should be replaced each time the Vapor Pin® is installed.



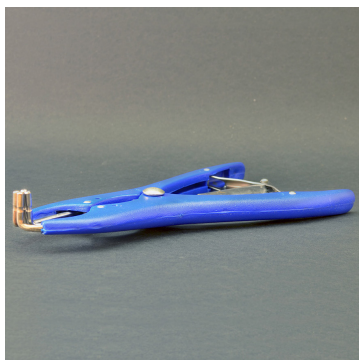
## Spanner for Secured Cover

The spanner is used to secure and remove the Stainless Steel Secured Cover from Vapor Pins® installed in the flush-mount configuration.



## Installation/Extraction Tool

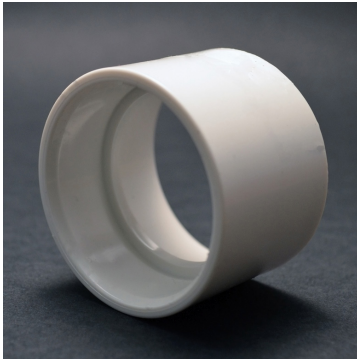
The Installation/Extraction Tool is placed on the barb of the Vapor Pin® or FLX-VPSS during installation to prevent damage to the barb while hammering it into the slab. At project completion, the Vapor Pin® is extracted by screwing the Installation/Extraction Tool onto the Vapor Pin® and twisting, in the way one extracts a wine cork.



## Elastrator Tool

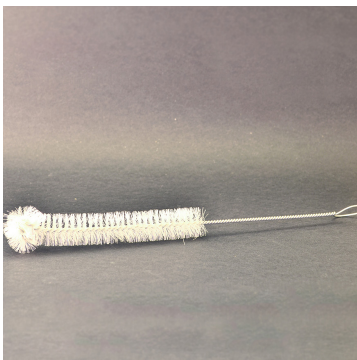
The elastrator simplifies placing the Vapor Pin® Sleeve onto the Vapor Pin®. While wearing work gloves, screw the Vapor Pin® into a Stainless Steel Secured Cover, and place it upside down on a desk or work bench. Place the elastrator into the end of a sleeve, squeeze the elastrator handles, and with the other hand, push the sleeve onto the Vapor Pin®.





## Water Dam

The Water Dam is used to leak test the seal between the Vapor Pin® and the concrete slab. The Water Dam is placed around the Vapor Pin® and in contact with the slab using a ring of clean modeling clay or Play-Doh®. Make your sample train connections, then pour distilled water into the Water Dam before purging, and if water isn't lost into the slab, the seal is tight.



## Bottle Brush

The Bottle Brush is used to remove dust from the 5-8-inch hole prior to hammering in the Vapor Pin®.



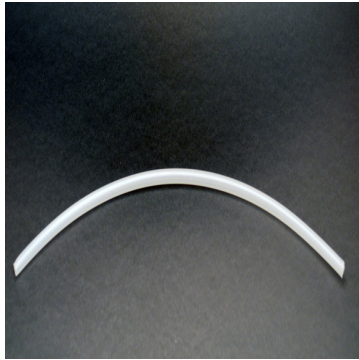
## O-Rings

The O-Rings form the seal between the FLX-VPSS and the interchangeable Barb Fitting, Swagelok® fitting, Quick Connect fitting or MiniPin cover. These fittings are sold with O-rings, but the rings can be replaced if desired.



## Tygon® Tubing

Tygon® Tubing connects the Vapor Pin® ¼-inch barb to ¼-inch OD Nylon or Teflon® tubing. Tygon® is the best available tubing for making connections, but like all soft tubing, it is less chemically inert than Nylon or Teflon®, and it should not be used for longer tubing runs. Tygon® tubing should be replaced between samples.



## Nylaflow® Tubing

Nylon tubing (1/4-inch OD) has low chemical reactivity, and it should make up as much of the sample train as possible. Nylaflow® LM tubing is comparable to Teflon® at a lower cost. Nylaflow® tubing should be replaced between samples.



## Hard Sided Case

The Vapor Pin® Contractor Kit is sold with a Hard Sided Case, but you can replace it should your case become lost or damaged.



## Countersink Drill Bit

The Stainless Steel Secure Cover projects approximately 1/16" above grade and poses minimal trip hazard. The Countersink Drill Bit allows you to place the entire cover below grade, and drills both the 1.5-inch diameter hole, and a shallow 2-inch diameter hole. Besides making installations even neater, the Countersink Drill Bit makes it obvious when the 1.5-inch hole reaches total depth, without periodically having to stop and check.

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