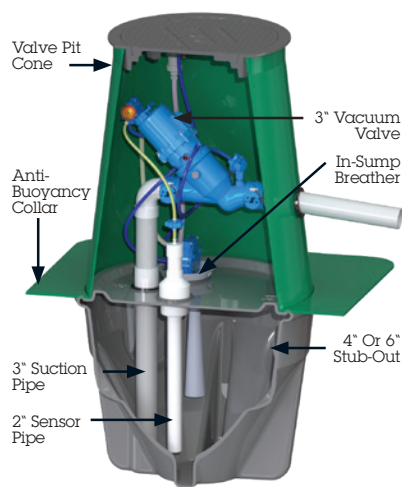




Airvac 2-Piece Pit Hybrid

Airvac's hybrid 2-piece valve pit consists of a fiberglass cone and a polyethylene sump/pit bottom. It is available in 4 sizes.



Valve Pit	Overall Depth	Depth of Sump	Depth of Pit Cone	Sump Capacity
VP3030H	5 ft	30 in	30 in	85 gal
VP3042H	6 ft	30 in	42 in	85 gal
VP5442H	8 ft	54 in	42 in	158 gal
VP7842H	10 ft	78 in	42 in	250 gal

Valve Pit Cone

The valve pit cone houses the vacuum valve, HP controller and in-sump breather. It is fabricated with filament-wound fiberglass with a wall thickness of 3/16-inch in order to be suitable for H-20 traffic loading. The valve pit is 36-inch in diameter at the bottom and is conically shaped to allow the fitting of a 23 1/2-inch diameter clear opening cast iron frame and cover at the top.

Sump/Pit Bottom

The sump/pit bottom is manufactured as a single piece by the rotational molding process using PE. It is tapered with the upper rim designed to accept the valve pit cone. The sump contains 4 stabilizing embosses to support the pit cone and is designed to allow up to (4) houses to be connected with either 4-inch or 6-inch pressure rated Sch 40, SDR 21 or SDR 26 PVC pipe. Elastomer connections are used for the entry of the stub-out pipe (supplied by contractor). Holes for the stub-out pipe are field cut at the position directed by the engineer.

In addition to the 2 major parts, the 2-piece hybrid pit package comes complete with the following components:

3" Valve, HP Controller, Pipe Couplings

The Airvac 3-inch vacuum valve, complete with Airvac's patented HP controller, is vacuum operated on opening and spring assisted on closing. The valve operates without the use of electricity with the HP controller making the process of opening and closing completely automatic. The valve has a 3-inch full-port opening, is made of glass filled polypropylene, and has a stainless-steel shaft, delrin bearing and elastomer seals. All materials of both the valve and HP controller are chemically resistant to normal domestic sewage constituents and gases. The 3-inch vacuum valve is connected on both ends with Airvac's patented pipe coupling.

In-Sump Breather

The in-sump breather uses atmospheric air from the 6-inch air terminal (not shown) which is connected to the sump. The in-sump breather is designed to protect the controller from unwanted liquid during system shut-downs and restarts.

Suction & Sensor Pipes

Both the 3-inch suction pipe and the 2-inch sensor pipe are Schedule 40 PVC and are installed through grommets in the sump/pit bottom.

Anti-Buoyancy Collars

Airvac provides a fiberglass anti-buoyancy collar with each 2-piece pit. These collars fit around the tapered valve pit and rely on soil burden to keep the pit from floating.

Traffic Rated Valve Pit Covers

Cast iron covers and frames, designed for H-20 traffic loading, are used for all valve pit installations. Airvac recommends that concrete collars be used for all 2-piece valve pits located in traffic areas.

Airvac Flexible Connector

The Airvac Flexible Connector is a standard item supplied with the valve pit. The flexible connector uses a special 3-inch flexible PVC hose, approximately 8-foot long, to make the connection between the 3-inch Airvac valve and the vacuum main. Connections at both ends of the flexible connector are the same as with PVC pipe. The use of an Airvac flexible connector virtually eliminates stress-related leaks caused by poor workmanship or ground settlement.



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AV014.0-US-en-REV1220
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