

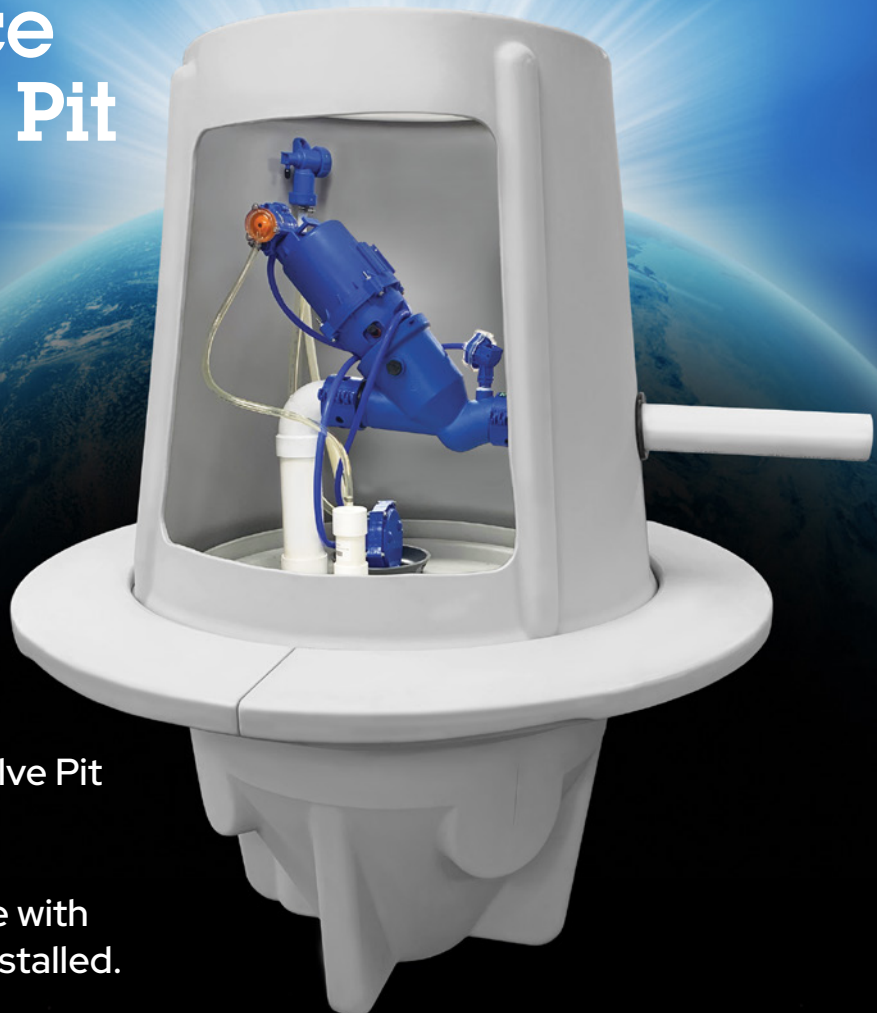


Vacuum Wastewater Technology
Discover Better[®]

Our Global Standard:

Airvac's Two-Piece PE Valve Pit

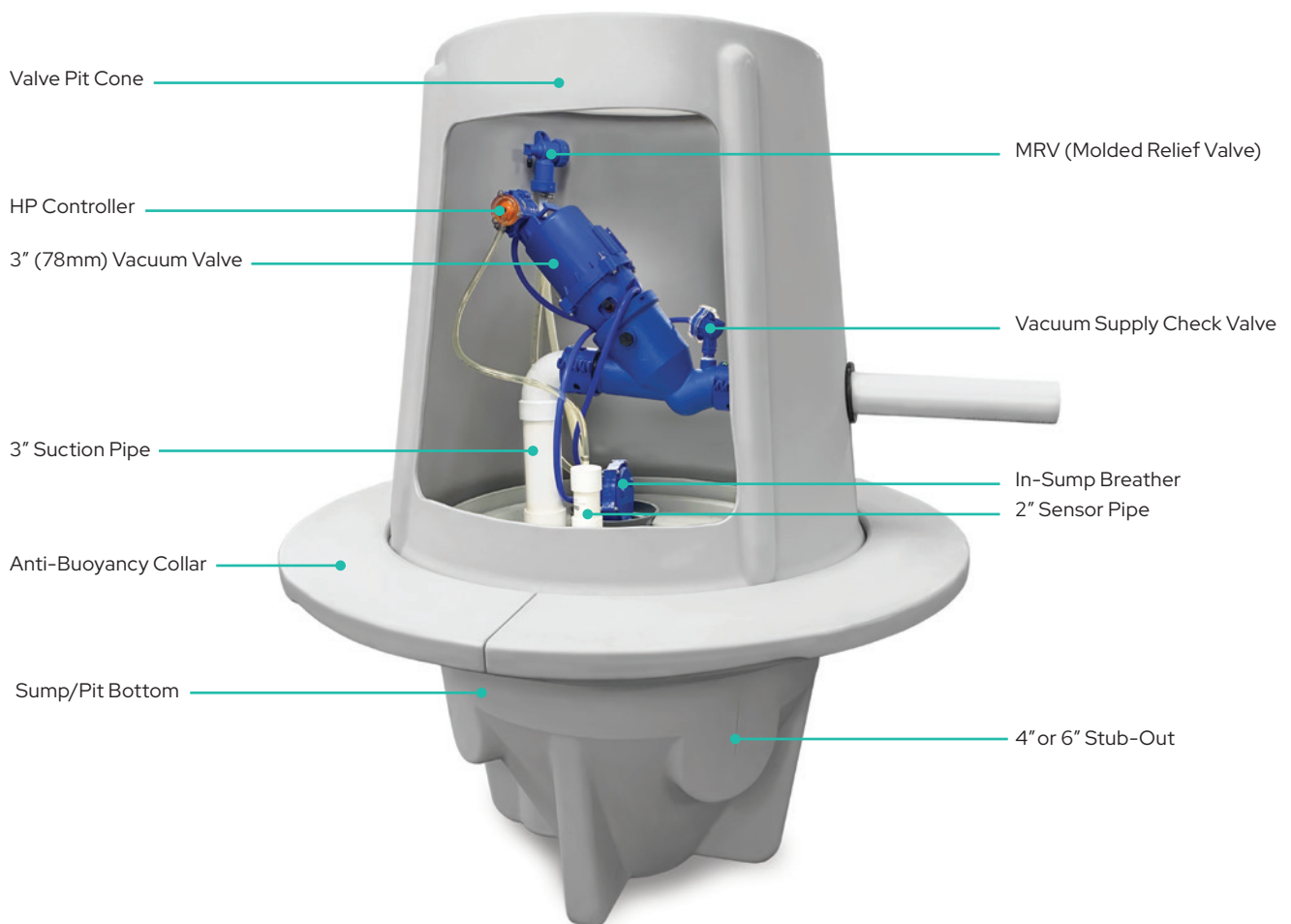
A true hybrid ...
the Two-Piece PE Valve Pit
can be shipped in
two pieces or as a
fully assembled piece with
all components preinstalled.



Airvac's Two-Piece PE Valve Pit

Considered our global standard product, Airvac's hybrid Two-Piece PE Valve Pit is available in 3 sizes. It can be shipped in two pieces for freight considerations or as a fully assembled piece with all the components preinstalled. The entire pit is H-20 traffic rated, making it the most robust valve pit on the worldwide market.

Overall Depth	Depth of Sump	Depth of Pit Cone	Sump Capacity
6 ft (1.8m)	30 in (762mm)	42 in (1066mm)	85 gal (321.5L)
8 ft (2.4m)	54 in (1372mm)	42 in (1066mm)	158 gal (598L)
10 ft (3m)	78 in (1981mm)	42 in (1066mm)	250 gal (946L)



Valve Pit Cone

The valve pit cone houses the vacuum valve, HP controller and in-sump breather. It is fabricated with all PE and is H-20 traffic rated. The valve pit is 36-inch (914mm) in diameter at the bottom and is conically shaped to allow the fitting of a 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 and is H-20 traffic rated. 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 to connect houses with various pipes. Elastomer connections are used for the entry of the incoming gravity line pipes into the valve pit. Holes for the stub-out pipe are field cut to accommodate various incoming gravity locations.

In addition to the 2 major parts, the Two-Piece PE Valve Pit comes complete with the following components:

Two Collar Selections

Airvac's hybrid 2-piece PE Valve Pit is available with two anti-buoyancy collar options. A 1 piece, 1-inch (25mm) thick sheet anti-buoyancy collar or a 2 piece, bolt together anti-buoyancy collar, both made from PE. The 1 piece sheet collar fits around the tapered valve pit and holds the valve pit down on the PE sump. The 2 piece anti-buoyancy collar locks the pit and sump sections together to allow for the assembly to be installed as 1 complete unit. If necessary, a PE foam strip can be inserted between the valve pit cone and the sump to seal the joint and prevent water from entering the pit.

3" (78mm) 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 (78mm) 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 sewage constituents and gases. The 3-inch (78mm) vacuum valve is connected on both ends with Airvac's patented pipe coupling.

In-Sump Breather (Patented)

The in-sump breather uses atmospheric air from the sump. The in-sump breather is designed to protect the controller from unwanted liquid during system shut-downs and restarts. The sump breather unit is self-contained within the valve pit and eliminates external pipes and mechanisms in the yard or right of way. Additionally, the protection device prevents groundwater and moisture from entering into the valve and controller, which could cause them to fail. With this sump breather, the entire valve and controller can be completely submerged, without pipes outside the pit.

Suction & Sensor Pipes

Both the suction pipe and the sensor pipe are installed through removable grommets in the sump/pit bottom.

Molded Relief Valve

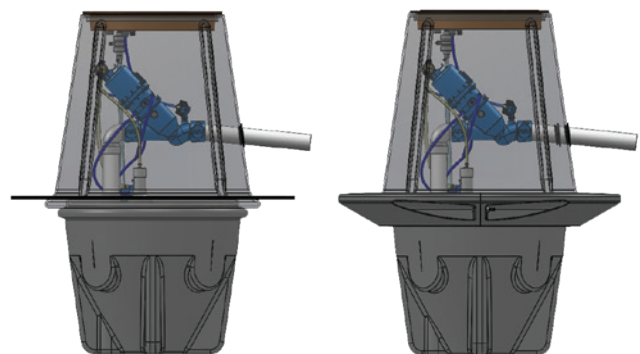
The MRV (Molded Relief Valve) features a molded body designed for durability and efficiency. It includes a larger relief outlet, allowing for higher flow rates. The built-in fittings eliminate the need for screw-in fittings, simplifying installation. Additionally, the MRV does not require any extra clamps for mounting and is secured with a single mounting screw, enhancing its ease of use and reliability.

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 (2.4m) long, to make the connection between the 3-inch (78mm) 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.

Traffic Rated Valve Pit Covers

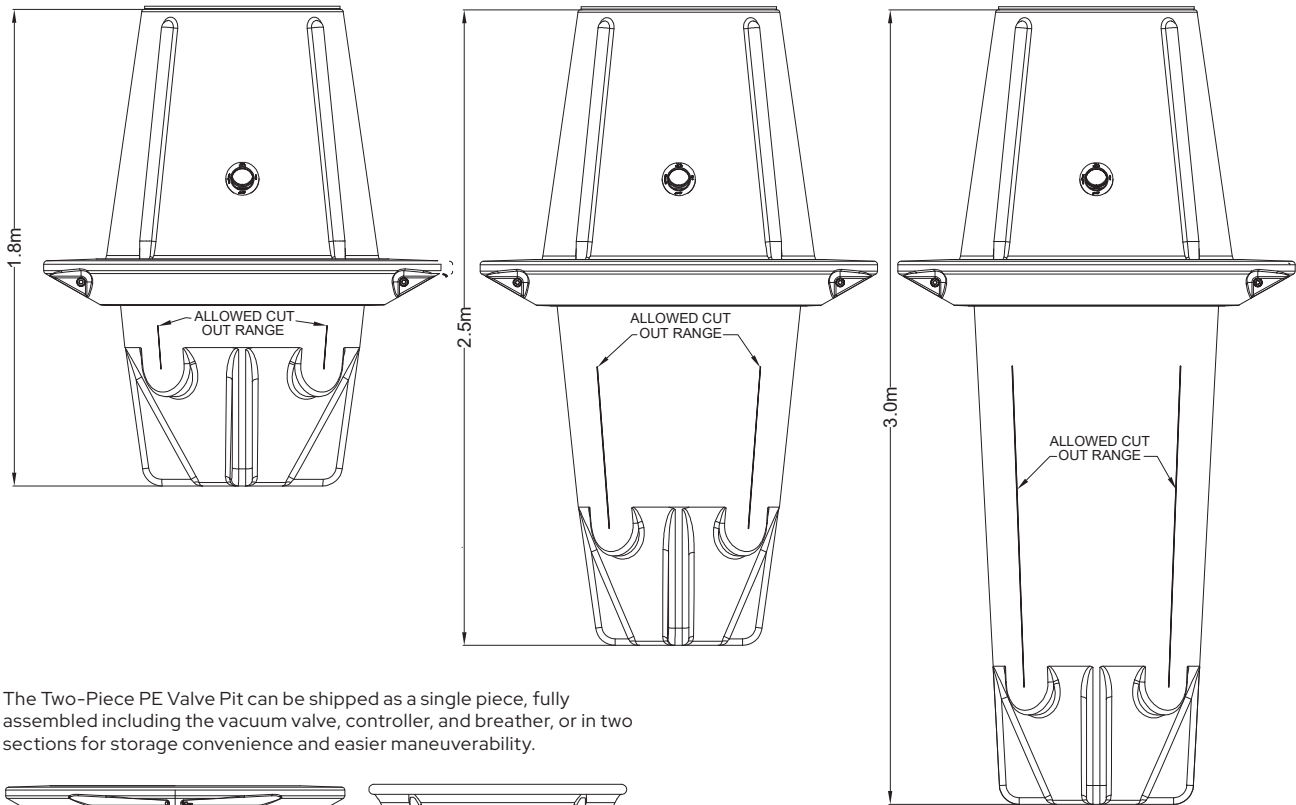
Airvac valve pit covers and frames, used for all valve pit installations, are H-20 and AS 3996 Class 'D' traffic rated.



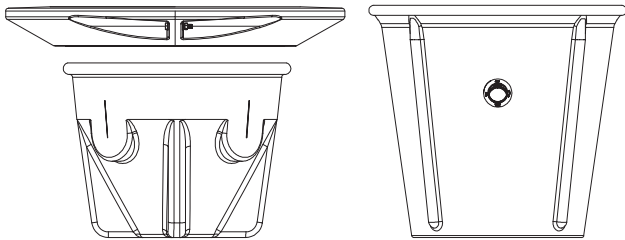
Two-Piece PE Valve Pit
with a 1 piece,
1-inch (25mm) thick sheet
anti-buoyancy collar

Two-Piece PE Valve Pit
with a 2 piece, bolt together
anti-buoyancy collar

Airvac's hybrid Two-Piece PE Valve Pit is available in 3 sizes, 6 ft (1.8m) 85 gal (321.5L), 8 ft (2.4m) 158 gal (598L), and 10 ft (3m) 250 gal (946L).



The Two-Piece PE Valve Pit can be shipped as a single piece, fully assembled including the vacuum valve, controller, and breather, or in two sections for storage convenience and easier maneuverability.



A PE foam strip seals the joint between the Valve Pit Cone and the Sump and will be included with the new 2pc Collar Pit Packages.

We provide **FREE** cost estimates & system layouts.



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