

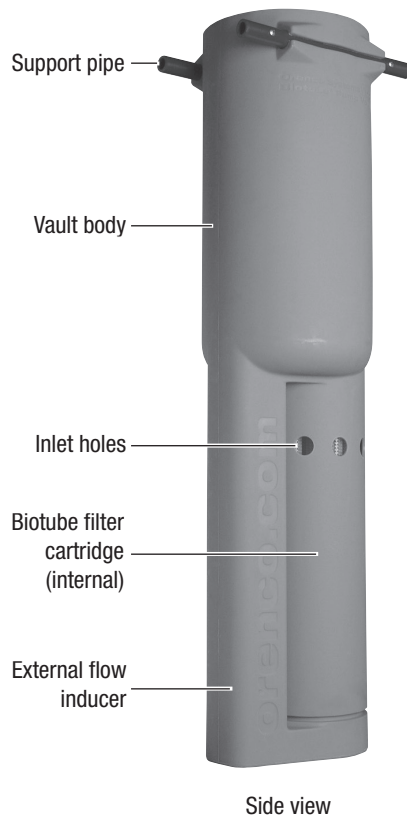
Biotube® PV-Series Pump Vaults

For use with Orenco 4in (100mm) Submersible Effluent Pumps

Applications

Orenco Biotube PV-Series Pump Vaults are used to filter effluent that is pumped from single-compartment or double-compartment septic tanks or separate dosing tanks in liquid-only sewer systems and on-site wastewater treatment systems.

They are intended for systems where larger-diameter pump vaults won't fit. PV pump vaults are only 13.5in (343mm) in diameter. They house a Biotube effluent filter and an Orenco 4in (100mm) submersible effluent pump and can be used in single-compartment septic tanks with flows up to 40gpm (2.5L/sec). The Biotube effluent filters remove almost two-thirds of suspended solids.



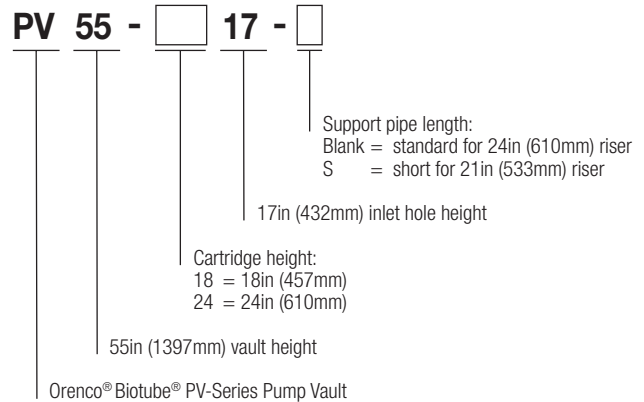
General

Orenco Biotube PV-Series Pump Vaults include molded housings with internal filter cartridges. Effluent enters through inlet holes around the perimeter of the Biotube vault and flows through the Biotubes to the external flow inducer. The external flow inducer houses one pump. Support pipes are included to suspend vaults in tank openings. The filter cartridge can be removed from a PV pump vault without pulling the pump or the vault.

Standard Models

PV55-1817, PV55-2417

Product Code Diagram



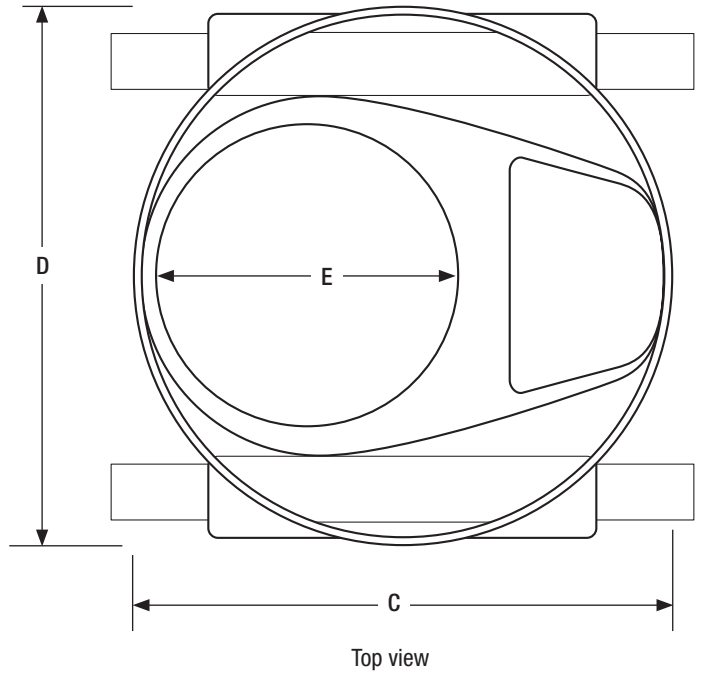
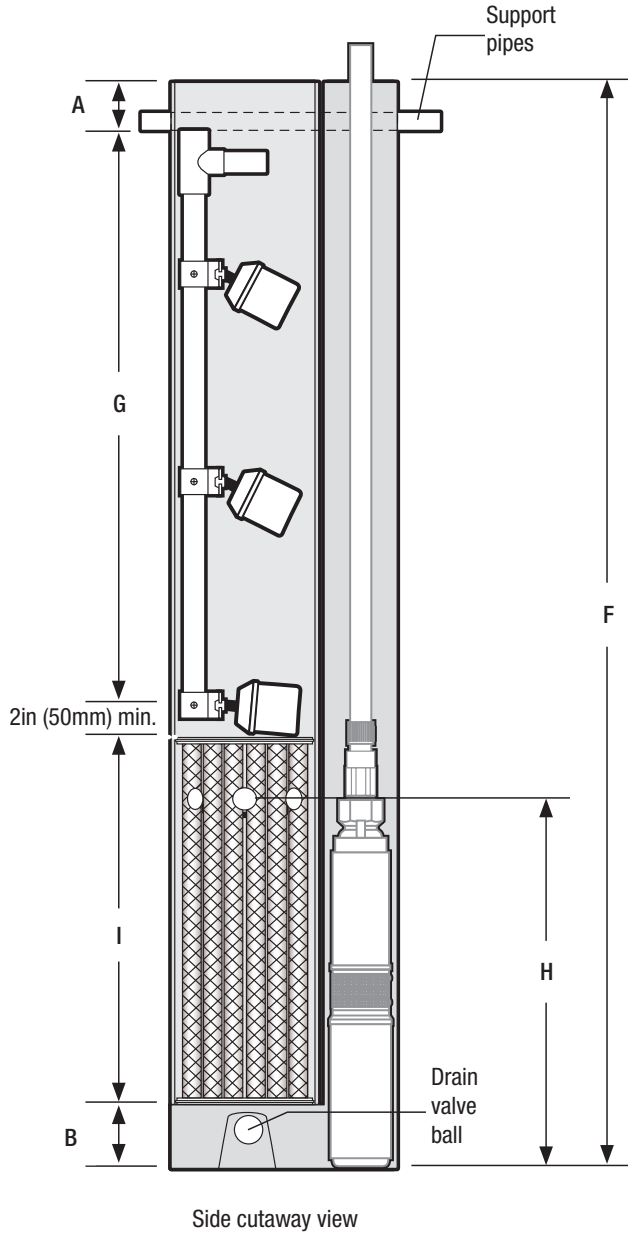
Not all product code configurations may be available as standard products.

Materials of Construction

Support pipe	Schedule 80 PVC
Biotube vault	Polyethylene
Biotube cartridge	Polypropylene/PVC
Float stem	Schedule 40 PVC
Drain valve ball	Polypropylene

Tank Access and Riser Diameter

Model	Tank Access Diameter (Minimum)	Tank Access Diameter (Recommended)	Riser Diameter (Minimum)	Riser Diameter (Recommended)
PV55	16in (406mm)	19in (483mm)	24in (610mm)	24in (610mm)



Specifications

Model	PV55-2417
A	3.0in (76mm)
B	3.5in (89mm)
C	13.5in (343mm)
D	13.5in (343mm)
E	8.0in (203mm)
F	Vault height 55.0in (1397mm)
G	Lowest float setting point 22.5in (572mm)
H	Inlet hole height* 17-23in (432-584mm)
I	Biotube cartridge height 24.0in (610mm)
	Biotube mesh opening 0.125in (3.2mm)
	Filter flow area 3.0ft ² (0.28m ²)
	Filter surface area 10.1ft ² (0.94m ²)
	Maximum flow rate 40.0gpm (2.5L/sec)

* May vary depending on the configuration of the tank