VORTEX PARTFILL
PRODUCT INFO



Vortex Partfill

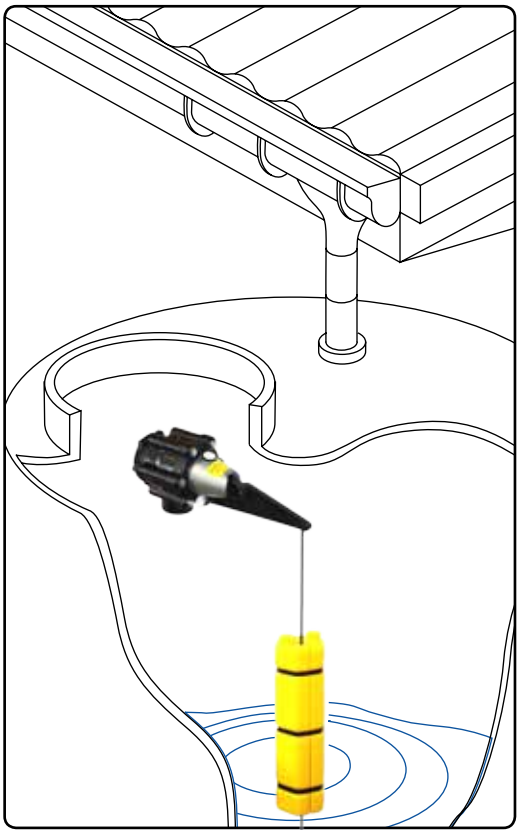
Description

Vortex Part Fill is a high flow valve intended for use in rain water harvesting tanks. The purpose of the float valve is to automatically maintain a low level of water in the tank during periods of no or low rainfall. This allows services fed by the tank to continue while leaving capacity in the tank for refilling by the next rain.

Applications

Maintaining water levels in:

- Rain water harvesting tanks
- Water cisterns
- Irrigation and process applications.



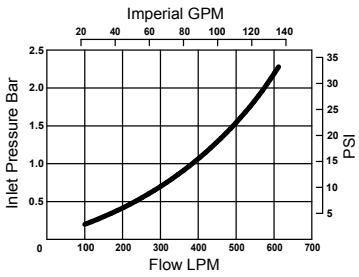
Principle of Operation

- The Valve is installed through the side wall of a storage tank. It should be mounted above the overflow level of the tank to prevent backflow.
- As the tank empties the weighted float travels down the cord and sits on the bottom stop to activate the valve.
- The valve will run until the weighted float lifts clear of the bottom stop.
- The float will then rise as rainwater fills the tank and falls as the tank water is used.
- The Valve will only function at times when rain fall is insufficient to maintain a water level in the tank above the bottom stop.

Pressure Range

0.3 Bar – 10 Bar (5 psi-150 psi)

Flow Graph (All Sizes)



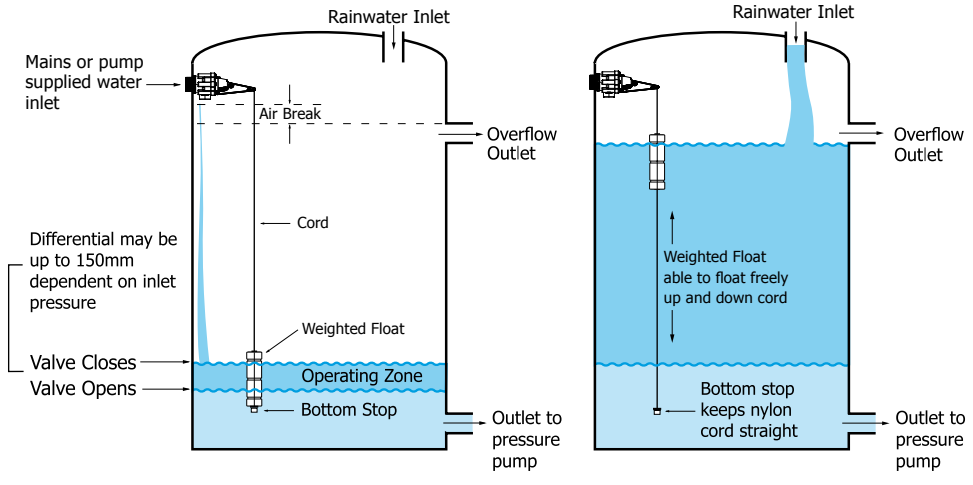
Features

- Ideal for use with all makes and models of rain water harvesting tanks
- Compact
- Constructed from non corroding materials
- Valve can be locked in off position using the lock off switch
- Up to 150mm differential obtainable (dependant on pressure)
- Valve unscrews from tail for easy Valve Access.

Available Inlet Sizes

VXVP32	32mm (1 ¼")
VXVP40	40mm (1 ½")
VXVP50	50mm (2")
VXVP114	1 ¼"NPT
VXVP112	1 ½"NPT
VXVP2	2" NPT

Typical Installaton

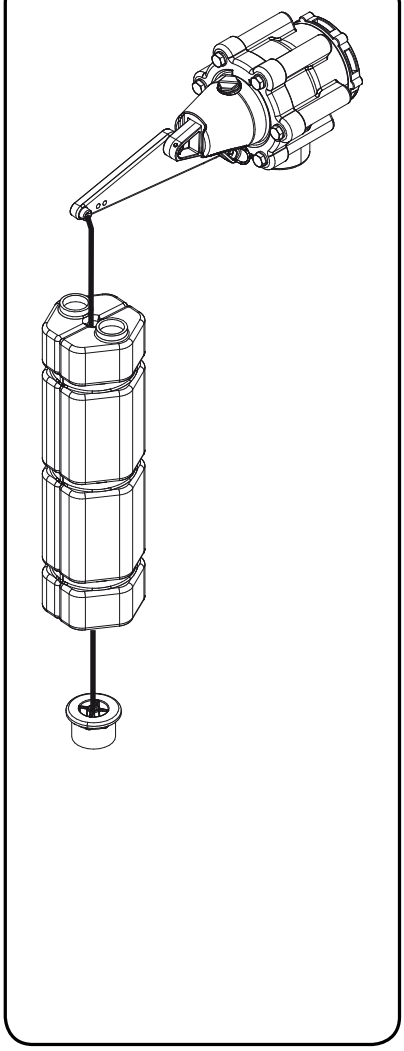


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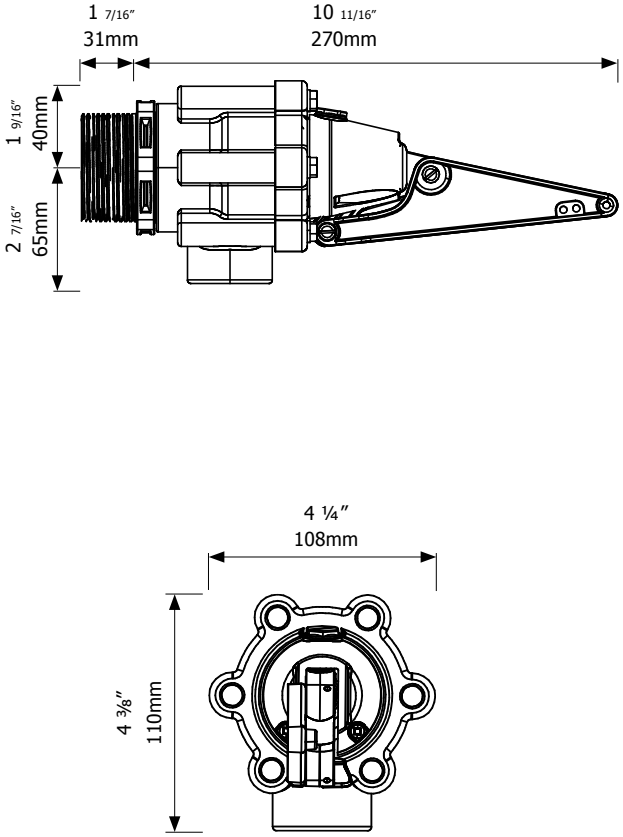
VORTEX PARTFILL
DIMENSIONS & MATERIALS

Vortex Partfill

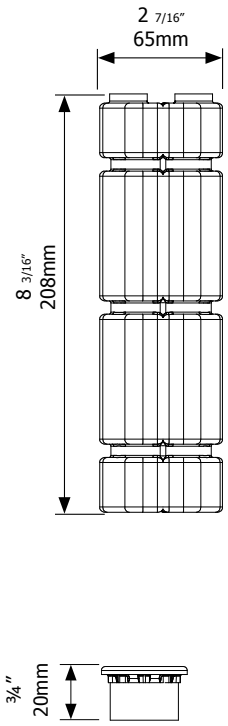
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Vortex Dimensions



Float & Weight Dimensions



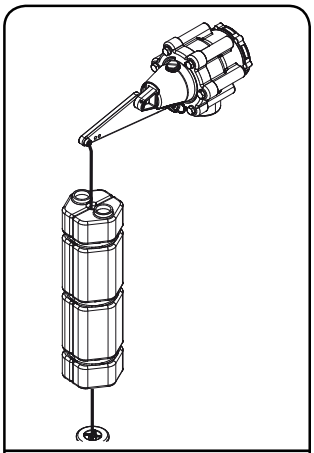
Part	Material	Part	Material
Valve Body	GF Nylon	**Seal**	Urethane
White Internal Parts	Acetal	**Springs, Bolts, Nuts, Pin, Screws**	304 Stainless Steel
Arm Assembly	ABS	**O'Rings**	Nitrile
Diaphragm	EPDM	**Float**	HDPE

Maximum Operating Temperature	60ºC, 140ºF

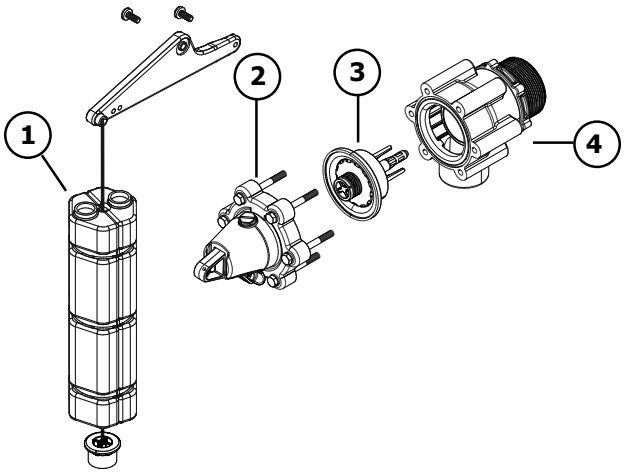
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VORTEX PARTFILL
PARTS IDENTIFICATION SHEET

Vortex Partfill

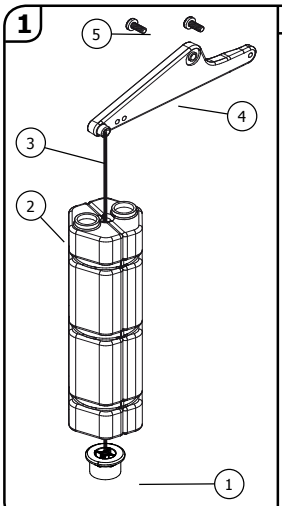


CODE: VXVP



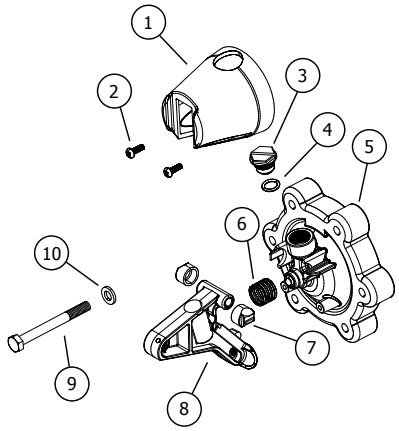
	CODE	DESCRIPTION
1	VXPP1	Float Assembly
2	VXPP2	Cap & Actuator Assembly
3	VXP3	Diaphragm Assembly
4		Base Assembly

1



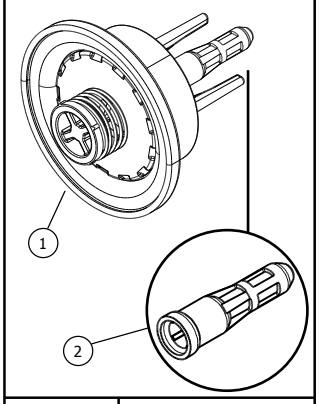
	CODE	DESCRIPTION
1	VXPP1010	Bottom Stop
2	VXPP1020	Weighted Float
3	VXPP1030	Cord
4	VXPP1040	Arm Extension
5	VXPP1050	M5 x 12 Bolt

2



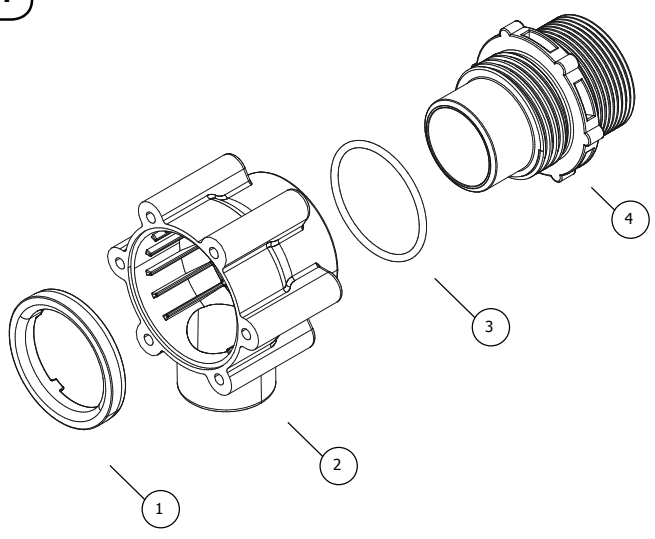
	CODE	DESCRIPTION
1	VXPP2010	Actuator Cap
2	VXP2020	6g x 10 S/S Screw
3	VXP2030	Frost Pro Plug
4	VXP2040	Frost Pro O'ring
5	VXPP2050	Valve Cap Assembly
6	VXPP2060	Damping Spring
7	VXP2080	Bearings (set of two)
8	VXP2090	Actuator Arm
9	VXP2100	Bolt M6 x 65
10	VXP2110	Washer M6 x 12.5

3



	CODE	DESCRIPTION
1	VXP3	Diaphragm Assembly
2	TPP3010	Pilot Flow Filter (Fine)
	TPP3011	Pilot Flow Filter (Coarse)

4



	CODE	DESCRIPTION
1	VXP4010	Vortex Retainer
2	VXP4020	Vortex Base
3	VXP4030	Vortex O'ring
4	VXP4040	Vortex Tail 32mm
	VXP4045	Vortex Tail 40mm
	VXP4050	Vortex Tail 50mm
	VXP4055	Vortex Tail 1 ¼" NPT
	VXP4060	Vortex Tail 1 ½" NPT
	VXP4065	Vortex Tail 2" NPT

600 L / MIN