

VORTEX DIFFERENTIAL

PRODUCT INFO



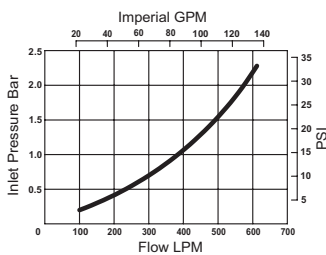
Description

Vortex Differential is a high flow Reservoir Valve for water storage tanks incorporating fully adjustable water level settings between on and off.

Applications

- Maintaining Water Levels in:
- Water Storage Tanks
 - Water Cisterns
 - Irrigation Applications

Flow Graph (All Sizes)



Principle of Operation

- Vortex Differential is mounted at the top of tank and is easily fixed through a plastic wall or into a threaded tank inlet.
- As the tank empties the weighted float travels down the cord and weight is transferred to the bottom stop to activate the valve.
- Once on the valve will run continuously until the tank is full. The weighted float rises, then contacts with the float stop which lifts the arm to shut the valve off.
- Intermittent pump running does not occur at any stage of filling because Vortex Differential is full flow in operation, your pump runs unrestricted until the tank is full.

Pressure Range

1 Bar – 10 Bar
(15psi-150 psi)

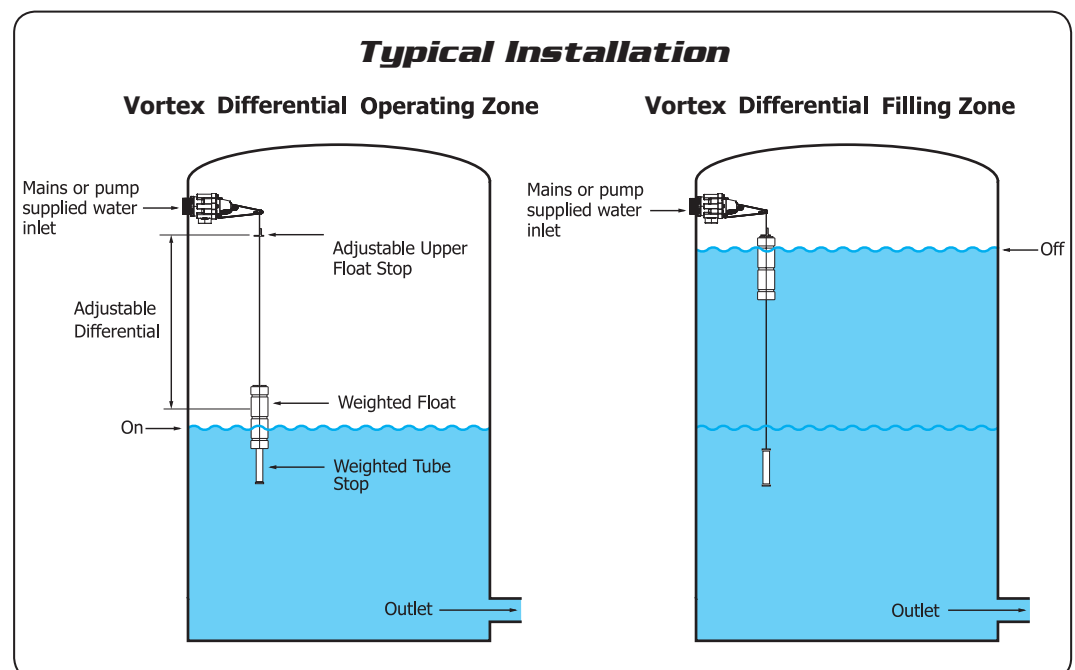
Features

- High flow
- Easily adjustable water level differentials between on and off (50mm - 2.5 m differentials obtainable).
- Reduces pump operation to a minimum.
- Valve unscrews from tail for easy Valve Access.
- Ideal for all makes and models of tanks.

Available Inlet Sizes

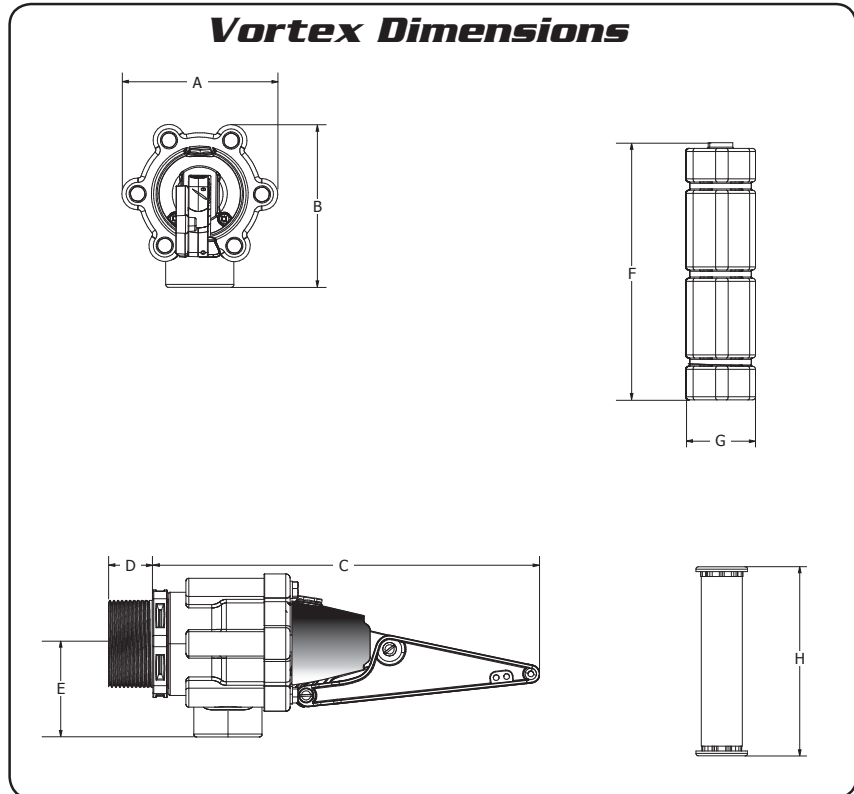
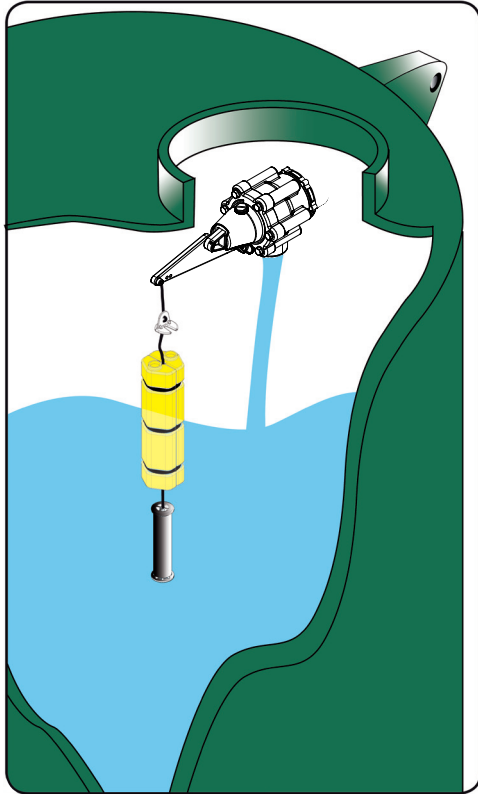
| | |
|---------|-------------|
| VXVD32 | 32mm (1 ¼") |
| VXVD40 | 40mm (1 ½") |
| VXVD50 | 50mm (2") |
| VXVD114 | 1¼" NPT |
| VXVD112 | 1½" NPT |
| VXVD2 | 2" NPT |

Typical Installation



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DIMENSIONS & MATERIALS



| Vortex Dimensions | | |
|--------------------------|-----|----------|
| | mm | inches |
| A | 108 | 4 1/4 |
| B | 110 | 4 3/8 |
| C | 270 | 10 11/16 |
| D | 31 | 1 7/16 |
| E | 65 | 2 7/16 |
| F | 208 | 8 3/16 |
| G | 62 | 2 7/16 |
| H | 132 | 5 3/16 |

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

Maximum Temperature of Operation 60°C, 140°F