

## Hydrovex® VHV/SVHV Vertical Vortex Flow Regulator



Flat Back Slide Gate



Gasketed Sleeve Insert

The Hydrovex® VHV/SVHV Vertical Vortex Flow Regulator controls discharge with an air-filled vortex which forms as the flow enters the unit tangentially. The vortex reduces the effective area of the outlet without physically reducing its size. This allows the use of inlets which are 4-6 times larger than a typical orifice for the same flow rate. A larger inlet opening minimizes the risk of clogging, and because the inlet is located below the outlet invert it is self-skimming and prevents the passage of floating trash and debris.

Hydrovex® VHV/SVHV Vertical Vortex Flow Regulators are available with inlet sizes ranging from 1" to 14" and can control flow rates from as little as 0.01 cfs at 6 inches of head, and up to 11 cfs at 19 feet of head.

Each Hydrovex® VHV/SVHV is custom fabricated to meet your specific project flow rate requirements and can be configured for a variety of installation conditions.

Available connection options include:

- Slip-In double gasketed connection for use in PVC, ductile iron and RCP piping.
- Standard ANSI flange pipe connection
- Gasketed slide gate connection with 304 stainless steel frame, pull handle and cable.

Hydrovex® VHV/SVHV Vortex Flow Regulators are an ideal solution for the following design problems:

- Extended detention volume recovery
- Stream or channel protection volume discharge
- Compliance with minimum required orifice areas