Distributing Valves

General

Orenco’s Automatic Distributing Valve Assemblies are mechanically operated and sequentially redirect the pump’s flow to multiple zones or cells in a distribution field. Valve actuation is accomplished by a combination of pressure and flow. Automatic Distributing Valve Assemblies allow the use of smaller horsepower pumps on large sand filters and drainfields. For example, a large community drainfield requiring 300 gpm can use a six-line Valve Assembly to reduce the pump flow rate requirement to only 50 gpm.

Orenco only warrants Automatic Distributing Valves when used in conjunction with High-Head Effluent Pumps with Biotube® Pump Vaults to provide pressure and flow requirements, and to prevent debris from fouling valve operation. An inlet ball valve and a section of clear pipe and union for each outlet are provided for a complete assembly that is easy to maintain and monitor. Ideal valve location is at the high point in the system. Refer to Automatic Distributing Valve Assemblies (NTP-VA-1) for more information.

Standard Models


Nomenclature

V  □ □ □ A
   Indicates assembly
   Number of active outlets

Model series:
44 = 4400 series (2-4 outlets)
46 = 4600 series (5-6 outlets)
64 = 6400 series (2-4 outlets)
66 = 6600 series (5-6 outlets)

Distributing valve

Specifications

Materials of Construction

All Fittings: Sch. 40 PVC per ASTM specification
Unions: Sch. 80 PVC per ASTM specification
Ball Valve: Sch. 40 PVC per ASTM specification
Clear Pipe: Sch. 40 PVC per ASTM specification
V4XXX Distributing Valves: High-strength noncorrosive ABS polymer and stainless steel
V6XXX Distributing Valves: High-strength noncorrosive ABS polymer, stainless steel, and die cast metal

Applications

Automatic Distributing Valve Assemblies are used to pressurize multiple zone distribution systems including textile filters, sand filters and drainfields.
## Distributing Valves (continued)

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Size (in.)</th>
<th>Outlets Size (in.)</th>
<th>Flow range (gpm)</th>
<th>Max Head (ft.)</th>
<th>Min. Enclosure</th>
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<tbody>
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<td>1.25</td>
<td>10 - 40</td>
<td>170</td>
<td>VB1217</td>
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</table>

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**Flow (gpm)**

**Head Loss Through Assembly (ft.)**

![Graph showing flow versus head loss through assembly for different models.](image)