Solenoid Operated Deluge Valve

**Schematic Diagram**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100G/2100G UL Listed Hytrol Main Valve</td>
</tr>
<tr>
<td>2</td>
<td>CS3 Solenoid Control</td>
</tr>
<tr>
<td>3</td>
<td>100-01 Hytrol Pilot Valve</td>
</tr>
<tr>
<td>4</td>
<td>X58C Restriction Orifice</td>
</tr>
<tr>
<td>5</td>
<td>X46A Flow Clean Strainer</td>
</tr>
</tbody>
</table>

**Specifications**

- **SIZES**
  - Globe: 3” - 12” flanged
  - Angle: 3” - 12” flanged

- **END DETAILS**
  - Ductile Iron 150 ANSI B16.42 flanged
  - Cast Steel 150 ANSI B16.5 flanged

- **PRESSURE RATINGS**
  - 150 class, 250 psi maximum (Ductile Iron)
  - 150 class, 285 psi maximum (All other materials)
  - 300 class, 300 psi maximum (All materials)

- **TEMPERATURE RANGE**
  - Water: to 180° F. Max

**Materials**

- **Main valve body & cover:**
  - Ductile Iron ASTM A-536*
  - Cast Steel ASTM A216-WCB*
  - Naval Bronze ASTM B61
  - Nickel Aluminum Bronze ASTM B148
  - Super Duplex Stainless Steel
  - Stainless Steel ASTM A743-CF-8M

- **Main valve trim:**
  - Bronze / Stainless Steel

- **Pilot control system:**
  - Cast Bronze ASTM B62

**Cover Capacity**

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Displacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>.080 gal</td>
</tr>
<tr>
<td>4&quot;</td>
<td>.169 gal</td>
</tr>
<tr>
<td>6&quot;</td>
<td>.531 gal</td>
</tr>
<tr>
<td>8&quot;</td>
<td>1.26 gal</td>
</tr>
<tr>
<td>10&quot;</td>
<td>2.51 gal</td>
</tr>
<tr>
<td>12&quot;</td>
<td>4.00 gal</td>
</tr>
</tbody>
</table>

*Note: For seawater applications use 100GS/2100GS main valve*
Pilot System Specifications

Temperature Range
Water: to 180°F

Fluids
Air, water, light oils

Rubber Parts
Buna-N® Synthetic Rubber

Solenoid Control*
Body:
Brass ASTM B283

Enclosure:
NEMA Type 1, 2, 3S, 4, 4X general purpose watertight
NEMA Type 6, 6P, 7, 9 watertight
Explosion Proof available at extra cost

Voltages:
110, 220 -50Hz AC
24, 120, 240, 480 - 60Hz AC
6, 12, 24, 120, 240 - DC

Max. operating pressure differential: 200 psi

Coil:
Insulation molded Class F
Watts AC 6
AC Volt Amps Inrush 30
AC Volt Amps Holding 16
Watts DC 10.6

Solenoid Manual operator included.

UL / ULC Listed: 3" - 12"

*Optional material available for Seawater Service

When Ordering, Please Specify

1. Catalog No. 134-05
2. Valve Size
3. Pattern - Globe or Angle
4. Pressure Class
5. Threaded, Flanged or Grooved
6. Material Desired
7. Energized or De-energized to
   Open Main Valve
8. Solenoid Enclosure,
   Voltage & Hertz
9. When Vertically Installed

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Represented By:

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