Hinged Poles - Steel

SPECIFICATIONS

**Pole** - The pole shaft conforms to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.11 in/ft.

**Pole Top** - Pole is provided with either a tenon top or drilled for a fixture mounting. A removable pole cap is provided for drilled poles. Consult the luminaire manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

**Hinge** - The internal hinge includes a stainless steel pin. A flexible guide is provided for wiring protection through the hinge area.

**Shroud** - The shroud is fabricated from weldable grade hot rolled commercial quality carbon steel with a minimum yield strength of 45,000 psi. It is a one-piece formed channel which conforms to the pole shaft taper. The shroud is secured by a threaded stud and nut with provisions for a padlock to prevent accidental or unauthorized lowering.

**Winch** - A removable winch is available for raising and lowering the pole.

**Handhole** - A reinforced handhole with grounding provision is provided at 1'-6" from the base end of the pole assembly. Each handhole includes a cover and the cover attachment hardware. Poles with a 5.25" or 6.00" base square are supplied with a 3" X 5" rectangular handhole. All other pole assemblies are provided with a 4" X 6.5" ovalized handhole. Handhole dimensions are nominal.

**Full Base Cover** - Optional two-piece full base cover is fabricated from ABS plastic. Valmont reserves the right to provide a two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base square.

**Anchor Bolts** - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

**Hardware** - All structural fasteners are galvanized high strength carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

**Finish** - Standard finish is Finish Painted (FP). Additional finish options including V-PRO™ 30, V-PRO™ 53 or V-PRO™ 100 are available upon request. See the product ordering code for color options.

**Design Criteria** - Please reference Design Criteria Specification for appropriate design conditions.
### DESIGNATION, LOAD AND DIMENSIONAL DATA

<table>
<thead>
<tr>
<th>NOMINAL MOUNTING HEIGHT</th>
<th>DESIGN INFORMATION</th>
<th>POLE DIMENSIONS</th>
<th>DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX LUMINAIRE EPA (SQ FT)</td>
<td>BASE OD (IN)</td>
<td>TOP OD (IN)</td>
</tr>
<tr>
<td></td>
<td>MAX LUMINAIRE WEIGHT (LBS)</td>
<td></td>
<td></td>
</tr>
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<td>MAX LUMINAIRE EPA (SQ FT)</td>
<td></td>
<td></td>
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<td></td>
<td>MAX LUMINAIRE WEIGHT (LBS)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **DSF20**
   - **20'-0'**
     - 17.8
     - 200
     - 13.4
     - 200
     - 10.2
     - 150
     - 5.25
     - 3.05
     - 11
     - 160
     - 9'-3''
     - 525A200
   - **25'-0'**
     - 7.1
     - 160
     - 4.8
     - 160
     - 3.1
     - 160
     - 6.00
     - 3.25
     - 11
     - 355
     - 10'-8''
     - 600A250
   - **30'-0'**
     - 12.4
     - 200
     - 8.3
     - 150
     - 5.2
     - 100
     - 6.41
     - 3.11
     - 11
     - 430
     - 14'-1''
     - 641A300

2. **DSF35**
   - **35'-0'**
     - 22.0
     - 300
     - 16.3
     - 250
     - 11.8
     - 175
     - 7.13
     - 3.28
     - 7
     - 700
     - 15'-9''
     - 713E350
   - **39'-0'**
     - 20.7
     - 300
     - 14.5
     - 250
     - 9.9
     - 200
     - 7.88
     - 3.62
     - 7
     - 820
     - 17'-0''
     - 788E389

3. **Select Correct Designation**
   - **D1** = (1) Drilling @ 270°
   - **D2** = (2) Drilling @ 90° & 270°
   - **D3** = (1) Drilling @ 90°, 180° & 270°
   - **D4** = (1) Drilling @ 180° & 270°
   - **D5** = (2) Drilling @ 90° & 270°
   - **D6** = (2) Drilling @ 180°, 270°, & 270°
   - **D7** = (2) Drilling @ 90°, 180°, & 270°
   - **D8** = (2) Drilling @ 90°, 180°, & 270°
   - **D9** = (2) Drilling @ 90°, 180°, & 270°

4. **Select Correlated Designation from the Load and Dimensional Data Chart**

### ANCHORAGE DATA

<table>
<thead>
<tr>
<th>POLE BASE SQUARE (IN)</th>
<th>POLE DIMENSIONS AT BASE</th>
<th>ANCHOR BOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BOLT CIRCLE</td>
<td>SQUARE (IN)</td>
</tr>
<tr>
<td>5.25</td>
<td>10.75</td>
<td>10.75</td>
</tr>
<tr>
<td>6.00</td>
<td>12.00</td>
<td>11.50</td>
</tr>
<tr>
<td>6.41</td>
<td>12.50</td>
<td>11.88</td>
</tr>
<tr>
<td>7.13</td>
<td>13.50</td>
<td>12.63</td>
</tr>
<tr>
<td>7.88</td>
<td>14.50</td>
<td>13.38</td>
</tr>
</tbody>
</table>

### PRODUCT ORDERING CODES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESIGNATION</th>
<th>FIXTURE MOUNTING</th>
<th>FINISH SYSTEM</th>
<th>STANDARD COLOR OPTIONS</th>
<th>BASE COVER</th>
<th>ANCHOR BOLTS</th>
<th>SUPPLEMENTAL INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSF20</td>
<td>Internal</td>
<td>Drill Mounting</td>
<td>FP = Finish Painted</td>
<td>--- OPTIONAL ---</td>
<td>--- OPTIONAL ---</td>
<td>--- OPTIONAL ---</td>
<td>See Accessories at valmontstructures.com (Please Specify)</td>
</tr>
<tr>
<td>DSF35</td>
<td>Internal</td>
<td>Other Options</td>
<td>Other Options</td>
<td>Other Options</td>
<td>Other Options</td>
<td>Other Options</td>
<td>Winch is Optional: Valmont Part Numbers</td>
</tr>
</tbody>
</table>

- **FP = Finish Painted**
- **DB = Dark Bronze**
- **DB = Medium Bronze**
- **WH = White**
- **LG = Light Gray**
- **CB = Bronze**
- **DG = Dark Green**
- **ST = Sandstone**
- **HG = Hunter Green**
- **SG = Slate Gray**
- **SL = Silver**
- **SG = Special Color**
- **LAB = With Anchor Bolts**
- **LAB = Without Anchor Bolts**

**Customer Approval:**
- **Date:**
DSF20 & DSF35 Internal Hinge

### Design Number

<table>
<thead>
<tr>
<th>Design Number</th>
<th>O.D. (in)</th>
<th>Pipe Size</th>
<th>Length (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2</td>
<td>2.375</td>
<td>2.0&quot; SCHED 80</td>
<td>4</td>
</tr>
<tr>
<td>P4</td>
<td>4.000</td>
<td>3.5&quot; SCHED 40</td>
<td>6</td>
</tr>
</tbody>
</table>

### Internal Hinge Detail

- **Hinge Pin**
- **Top Assembly**
- **Shroud**
- **Wiring Protection**
- **Bottom Assembly**

### Tenon Detail

- **Square Pole Plate W/Wire Entrance Hole (Deburred)**

### Winch Detail

- **Removable Design To Be Used Only During Maintenance**

### Pole Base Detail

- **Bolt Holes 0.25" Larger Than Anchor Bolt Diameter**
- **Bolt Circle**
- **SQUARE**
- **Thicknes**

### DSF20 & DSF35 Pole Detail

- **Mounting Height**
- **Shroud Stiffener Support Angle (DSF35 Only)**
- **Reinforced Handhole W/Cover and Grounding**
- **4 - Anchor Bolts With Threaded End Galvanized 12" Min. Each Bolt Furnished With 2 Hex Nuts And 2 Flatwashers.**