Establish the part number of each component in sequence from 1 to 4 as indicated below.

1. **VeriFast LVDT SYVR Base Mount Weld Body**
   (page 2)
   + **HG Connecting Rod Assembly**
   + **Pin Lock**
   + **Hex Tool**

2. **VeriFast LVDT Weld Pin (HG Style)**
   (page 3)
   Includes HG Connecting Rod Assembly and Pin Lock, which can be reused multiple times with new LVDT Weld Pins (only).

3. **Weld Head**
   (page 4)

4. **LVDT Signal Conditioner**
   (page 5)
   **IMPORTANT:** The Signal Conditioner must be calibrated once the system is installed in place.

OR

**VeriFast LVDT Weld Pin (Only)**
(page 3)
Does not include the HG Connecting Rod Assembly and Pin Lock. Must be assembled with an existing HG Connecting Rod Assembly and Pin Lock in order to form an LVDT Weld Pin (HG Style). See kit below.

Kit supplied with all base mount bodies. As long as the HG Connecting Rod Assembly and Pin Lock are in good shape, they can be reused multiple times with new VeriFast LVDT Weld Pins (see above).

**IMPORTANT:** The Signal Conditioner must be calibrated once the system is installed in place.
VeriFast LVDT
SYVR Base Mount Weld Body

**Part Numbering System**

**Attachment Screws**
- M = Metric (M6 x 1 x 35)
- S = Standard (1/4"-20 x 1 1/2")
- N = Not provided

**NHP (No Head or Pin)**
- Note: Head and Pin must be ordered separately.
- The pin must be HG Style (see VeriFast LVDT Stud Weld Pin on page 3).

**Port Thread**
- G = 1/8" BSPP
- S = 1/8" NPT

**Cable Exit Position**
- TM = Top Middle

<table>
<thead>
<tr>
<th>Series</th>
<th>Body Style</th>
<th>Pin Sensing System</th>
<th>Cable Exit Position**</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>SYVR</td>
<td>Base Mount</td>
<td>TM</td>
</tr>
<tr>
<td>3*</td>
<td>SYVR</td>
<td>Pin Lock</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>SYVR</td>
<td>HG Connecting Rod</td>
<td></td>
</tr>
</tbody>
</table>

**VF LVDT SYVR 3 TM S NHP N**

**IMPORTANT:** A Signal Conditioner is required for each weld body, with the exception of interchangeable tooling. The Signal Conditioner must be calibrated once the system is installed in place.

* Series 3 is preferred for all applications, unless clearance or welding issues exist. The Series number must be consistent between all components (Body, Pin, and Head).

** To connect to the Signal Conditioner, the VeriFast LVDT requires a micro (12 mm), 5-pin, shielded, female tool cord.
VeriFast LVDT Stud Weld Pin

Part Numbering System
For use with SYVR Weld Bodies (see page 2)

LVDT Stud Weld Pin (Only)
Does not include Connecting Rod Assembly and Pin Lock. Must be assembled with an existing HG Connecting Rod Assembly (76 mm) and Pin Lock (shown faded underneath).

LVDT Stud Weld Pin Material
Stainless = RV
Coated = KV
DuraPin™ = SV

Stud Feeding Mode
Manual = P
Automatic = A

*Series
Series 2 = 2
(Preferred) Series 3* = 3
Series 4 = 4

Stud Size
Measured in inches, 3 decimals.
Becomes 3 digits.
Example: If diameter of Stud is 0.315", the number in this field will be 315

or

Measured in millimeters, 0 decimals.
Becomes prefix “M” followed by 2 digits.
Example: If diameter of Stud is 8 mm, the number in this field will be M08

LVDT Connecting Rod Assembly Length**
HG = Includes an LVDT Stud Weld Pin, HG Connecting Rod Assembly, and Pin Lock.
Note: A worn Pin (only) can be replaced with an LVDT Stud Weld Pin (see option below).

If ordering an LVDT Stud Weld Pin (Only), this field remains empty.
Note: The LVDT Stud Weld Pin (only) must be assembled with an existing HG Connecting Rod Assembly and Pin Lock.

Length from Base of Pin to Top of Shoulder
(See 1 in drawing above)
Measured in inches, 2 decimals. Becomes 2 digits.
Example: If length is 0.27", the number in this field will be 27

or

Measured in millimeters, 0 decimals. Becomes 2 digits.
Example: If length is 7 mm, the number in this field will be 07

Length from Top of Shoulder to Top of Pin
(See 2 in drawing above)
Measured in inches, 2 decimals. Becomes 3 digits.
Example: If length is 1.85", the number in this field will be 185

or

Measured in millimeters, 0 decimals. Becomes 2 digits.
Example: If length is 47 mm, the number in this field will be 047

* Series 3 is preferred for all applications, unless clearance or welding issues exist. The Series number must be consistent between all components (Body, Pin, and Head).

** The SYVR Weld Body uses the LVDT Stud Weld Pin assembled with the HG Connecting Rod Assembly and Pin Lock.

*** Dimension 3 cannot be longer than 48 mm (1.89 in.).
### Weld Head

#### Part Numbering System

<table>
<thead>
<tr>
<th>Weld Head Prefix</th>
<th>Series*</th>
<th>Head Height**</th>
<th>Material</th>
<th>Weld Face Diameter**</th>
<th>Hole in Head Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>GH</td>
<td>3</td>
<td>050</td>
<td>T</td>
<td>125</td>
<td>350</td>
</tr>
</tbody>
</table>

- **Series (must be consistent with Hole in Head Diameter and Weld Face Diameter on the right)**
  - Series 2 = 2
  - (Preferred) Series 3* = 3
  - Series 4 = 4

- **Head Height**
  - Series 2 and 3* = 050
  - Series 4 = 062

- **Material**
  - RWMA Class 3 = C
  - RWMA Class 11 = T

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#### Important

- Special sizes are available for larger dimension requirements or areas with clearance restrictions. Contact CenterLine for information.

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#### Note

- Series 3 is preferred for all applications, unless clearance or welding issues exist. The Series number must be consistent between all components (Body, Pin, and Head).

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**Hole in Head Diameter**

- Max. 0.427" (10.85 mm) - for Series 2
- Max. 0.642" (16.31 mm) - for Series 3* (preferred)
- Max. 0.852" (21.64 mm) - for Series 4

**Important:** The Hole in Head Diameter must be 0.002" larger than the Pin Diameter.

**Example:** If Pin Diameter = 0.348", the Hole in Head Diameter will become: 0.348" + 0.002" = 0.350". The value in this field will be 350. (Ensure that preferred Series 3 applies, since 0.350" < 0.642").

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**Weld Face Diameter**

- 087 = 0.87" Weld Face (for Series 2)
- 125 = 1.25" Weld Face (for Series 3* (Preferred))
- 150 = 1.50" Weld Face (for Series 4)

**Important:** The Diameter of the Stud Projections must be at least 0.160" (4 mm) smaller than the Weld Face Diameter (or 0.080" (2 mm) radius difference). If it is not, the next larger weld head series should be used for the application.
If you require more information about the VeriFast LVDT system, please contact CenterLine.

**VeriFast LVDT Signal Conditioner**

**Part Numbering System**

**VeriFast**  
**LVDT**  
**Signal Conditioner**  
**Version**

<table>
<thead>
<tr>
<th>VF</th>
<th>LVDT</th>
<th>SC</th>
<th>1</th>
</tr>
</thead>
</table>

**Signal Conditioner**

- **Power Requirement:** 24 VDC, 90 mA
- **Output:** Analog, 0-10 VDC, for best results 16-bit resolution required.

**IMPORTANT:**
- A Signal Conditioner is required for each weld body, with the exception of interchangeable tooling.
- The Signal Conditioner must be calibrated once the system is installed in place.