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

1. VeriFast LVDT Base Mount Weld Body (pages 2, 3, and 4)
2. VeriFast LVDT Nut Weld Pin (DG Style Pin) (page 5)
   Includes Connecting Rod Assembly and Pin Lock that can be reused multiple times with Consumable Pins.
   OR
3. Weld Head (page 6)
4. LVDT Signal Conditioner (page 7)

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

Consumable Pin (Only) (page 5)
Does not include Connecting Rod Assembly and Pin Lock. Must be assembled with an existing Connecting Rod Assembly and Pin Lock in order to form a DG Style Pin. See kit below.
VeriFast LVDT
Base Mount Weld Body

Part Numbering System

**Kit for LVDT Weld Pin**
(Supplied with all weld bodies)

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**VeriFast LVDT Base Mount Weld Body**

- **VeriFast**: Connection needs with capabilities
- **LVDT**: Connecting needs with capabilities
- **Base Mount**: (See next page for illustrations, dimensions)
  - **SXAR**
  - **SXKR**
  - **SXTR**
  - **SXQR**
  - **SXHR**
  - **SXJR**
  - (Series 2 Only) **SXVR**
  - (Series 2 Only) **SXWR**

- **Series**: 2 = 2 (Preferred, with exceptions)
  - Series 3* = 3
  - Series 4 = 4

- **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: Heads and Pins must be ordered separately. Pins must be **DG Style** (see VeriFast LVDT Nut Weld Pin on page 5).

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

- **Cable Exit Position**
  - **For Body Style SXAR, SXHR, SXJR**
    - TR = Top Right (Preferred)
    - TL = Top Left
  - **For Body Style SXKR, SXTR, SXQR, SXVR, SXWR**
    - TM = Top Middle

---

* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. 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.

**IMPORTANT**: A Signal Conditioner is required for each weld body, with the exception of Interchangeable tooling.
VeriFast LVDT
Base Mount Weld Body (Cont’d)

Illustrations and Dimensions

* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. 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.

**IMPORTANT:** A Signal Conditioner is required for each weld body, with the exception of Interchangeable tooling.
VeriFast LVDT
Base Mount Weld Body (Cont’d)

Illustrations and Dimensions

*(Continued from the previous page)*

** IMPORTANT: A Signal Conditioner is required for each weld body, with the exception of Interchangeable tooling.

* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. 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 Pin Sensing System
Body Style Series* Cable Exit Position*
Port Thread No Head or Pin
Attachment Screws

**VF LVDT SX_R 3 TR S NHP N**

* SXVR (Series 2 Only)
  - 3.88” (98.43 mm)
  - Barbed fitting provided for 1/4” tube.

* SXVR and SXWR
  - 2.75” (69.85 mm)
  - 1.15” (29.21 mm)
  - 1.00” (25.40 mm)
  - 1.00” (25.40 mm)
  - 2.00” (50.80 mm)
  - 2.25” (57.15 mm)

* SXWR (Series 2 Only)
  - 3.88” (98.43 mm)
  - 0.37” (9.40 mm)
  - Backing Electrode
  - Barbed fitting provided for 1/4” tube.
VeriFast LVDT Nut Weld Pin

DG Style and Consumable Pin

For use with Base Mount Weld Bodies (see page 2, 3, and 4)

---

Consumable Weld Pin (Only)

Does not include Connecting Rod Assembly and Pin Lock. Must be assembled with an existing Connecting Rod Assembly and Pin Lock (shown faded underneath).

---

LVDT Nut Weld Pin Material

Stainless = RV
Coated = KV
DuraPin™ = SV

*Series

Series 2 = 2
(Preferred, with exceptions) Series 3* = 3
Series 4 = 4

Nose Type

A
D
H
N
W
Z

Cannot be used for Piloted Nut
Not Recommended for Auto Nut Feeding

Hole in Stamping minus 0.005 (3 decimals, measured in inches)

Example: If Hole in Stamping is 0.353*: 0.353" - 0.005" = 0.348"
The number in this field will be: 348

Hole in Nut minus 0.005 (3 decimals, measured in inches)

Example: If Hole in Nut is 0.275*: 0.275" - 0.005" = 0.270"
The number in this field will be: 270

Nut Thickness (2 decimals, measured in inches)

Measured when Nut Feeding is done Manually

Example: If Nut Thickness is 0.25", the number in this field will be 25.

Nut Radius (2 decimals, measured in inches)

Measured when Nut Feeding is done Automatically

Example: If Nut Radius is 0.47", the number in this field will be 47.

Stamping Thickness (2 decimals, measured in inches)

If Stamping Thickness is:
• less than 0.25", the number in this field will be 25.
• greater than 0.25", contact CenterLine.

---

DG Style

Besides Pin, includes Connecting Rod Assembly and Pin Lock that can be reused when ordering Consumable Pins only.

---

SV 3 N 348 270 25 25 DG

---

Dimensions of VeriFast LVDT Nut Weld Pin

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Part Numbering System

Style of Pin and Connecting Rod Assembly

DG = Includes a Pin, Connecting Rod Assembly, and Pin Lock. Works with Base Mount Weld Bodies SXAR, SXKR, SXTR, SXOR, SXHR, SXJR, SXVR, SXWR (see pages 2, 3, and 4).

Note: When the Pin (only) wears out, it can be replaced with a Consumable Pin (see option below).

If ordering Consumable Weld Pin Only (No LVDT Connecting Rod Assembly), this field remains empty.

Note: The Consumable Pin must be assembled with an existing Connecting Rod Assembly and Pin Lock to form a new DG Style Pin.

---

Guard Lock Pin

DG Style

Consumable Weld Pin

Only

Does not include Connecting Rod Assembly and Pin Lock. Must be assembled with an existing Connecting Rod Assembly and Pin Lock (shown faded underneath).

---

Dimensions of VeriFast LVDT Nut Weld Pin

---

Connecting Rod Assembly

Spanner Tool Kit for LVDT Weld Pin (Supplied with all weld bodies)

---

* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. The Series number must be consistent between all components (Body, Pin, and Head).
## 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>354</td>
</tr>
</tbody>
</table>

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

---

**Important:** The Hole in Head Diameter must be 0.006" larger than the Pin Diameter.

**Example:** If Pin Diameter = 0.348", the Hole in Head Diameter will become: 0.348" + 0.006" = 0.354". The value in this field will be 354. (Ensure that preferred Series 3 applies, since 0.354" < 0.642"). Exceptions are SXVR, SXWR weld bodies, which are Series 2 only.

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

**Important:** The Diameter of the Nut 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. (Exceptions are SXVR and SXWR weld bodies, which are Series 2 only).

---

* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. The Series number must be consistent between all components (Body, Pin, and Head).

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

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** Note:**
- The values in this field are based on the Weld Head Prefix and Weld Face Diameter selected.
- The values for Weld Face Diameter and Hole in Head Diameter are rounded to the nearest 1/32" (1 mm).

---

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

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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, with exceptions)
  - Max. 0.852" (21.64 mm) - for Series 4

** Important:** The Hole in Head Diameter must be 0.006" larger than the Pin Diameter.

** Example:** If Pin Diameter = 0.348", the Hole in Head Diameter will become: 0.348" + 0.006" = 0.354". The value in this field will be 354. (Ensure that preferred Series 3 applies, since 0.354" < 0.642"). Exceptions are SXVR, SXWR weld bodies, which are Series 2 only.

---

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

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---

** Note:**
- The values in this field are based on the Weld Head Prefix and Weld Face Diameter selected.
- The values for Weld Face Diameter and Hole in Head Diameter are rounded to the nearest 1/32" (1 mm).

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* Special sizes are available for larger dimension requirements or areas with clearance restrictions. Contact CenterLine for information.
If you require more information about the VeriFast LVDT system, please contact CenterLine.