**VeriFast LVDT System Configuration**

**Tapered and Threaded Mount Styles**

1. **VeriFast LVDT Tapered Mount Weld Body**
   - (pages 2)

2. **VeriFast LVDT Nut Weld Pin (DJ Style Pin)**
   - (page 3)
   - Includes Connecting Rod Assembly and Pin Lock that can be reused multiple times with Consumable Pins.

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

4. **LVDT Signal Conditioner**
   - (page 5)

**Connecting Rod Assembly** and **Spanner Tool** are included with all weld 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 3)
- 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 DJ Style Pin. See kit below.

**Kit supplied with all Tapered and Threaded Weld Bodies.**

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

**Tapered or Threaded Mount Weld Body**

**Part Numbering System**

- **VeriFast**
- **LVDT**
- **SXCR** (Series 3 Only)
- **SXGR** (Series 3 Only)

**Base Mount**
- Tapered = SXCR
- Threaded = SXGR

**Attachment Screws**
- **N** = No option

**NHP (No Head or Pin)**
- Note: Heads and Pins must be ordered separately. Pins must be **DJ Style** (see VeriFast LVDT Nut Weld Pin on page 3).

**Port Thread**
- **S** = No option (Barbed fittings provided)

**Cable Exit Position**
- **XX** = No option

**Series**
- **3** = Series 3* (Only)

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* Tapered (SXCR) and Threaded (SXGR) Weld Bodies are Series 3 only and must be consistent with Series 3 of 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.
**Dj Style and Consumable Pin**

For use with Threaded and Tapered Weld Bodies (see page 2)

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**LVDT Nut Weld Pin Material**

- Stainless = RV
- Coated = KV
- DuraPin™ = SV

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**Series**

*Series*
- Series 3* = 3

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**Nose Type**

- A
- B
- C
- D
- E
- F
- H
- N
- P
- W
- Z

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**Hole in Stamping**

- **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

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**Hole in Nut**

- **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

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**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.

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**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.

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**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.

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**Connecting Needs with Capabilities**

3 www.cntrline.com
Weld Head

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**Weld Head Prefix**

- **Series**: Series 3 = 3
- **Head Height**: Series 3* = 050
- **Material**: RWMA Class 3 = C, RWMA Class 11 = T

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**Hole in Head Diameter**

Max. 0.642" (16.31 mm) - for Series 3*

*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 Series 3 applies, since 0.354" < 0.642").

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**Weld Face Diameter**

125 = 1.25" Weld Face

*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, contact CenterLine.

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* The Weld Head must be Series 3, as it works with Tapered (SXCR) and Threaded (SXGR) Weld Bodies, which are Series 3 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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**Connecting needs with capabilities**
If you require more information about the VeriFast LVDT system, please contact CenterLine.

**VeriFast LVDT 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.

If you require more information about the VeriFast LVDT system, please contact CenterLine.