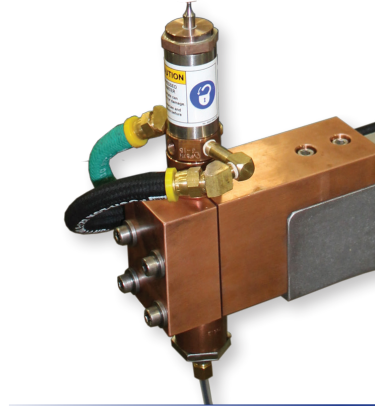


## Clamp Mount Style



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

**3**



**Weld Head**

(page 4)

**2**



**Tapped Nut Weld Pin**

(page 3)

**1**



**VeriFast LVDT  
Clamp Mount Weld Body**

(page 2)

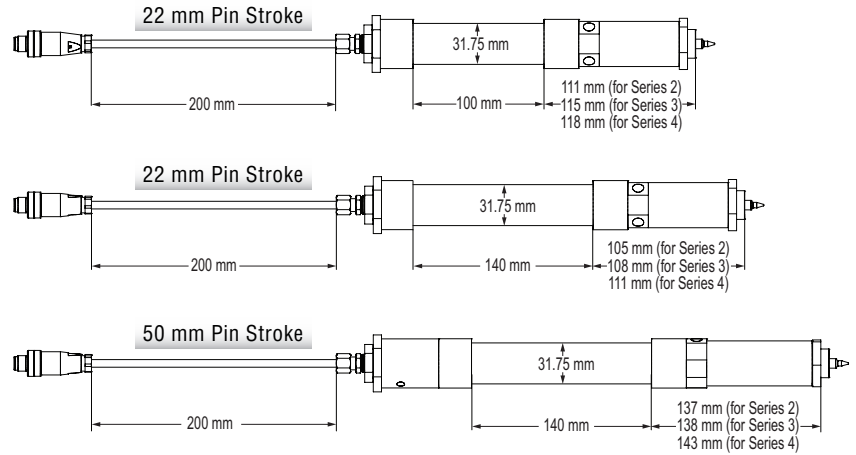
**4**



**LVDT Signal Conditioner**

(page 5)

# VeriFast LVDT Clamp Mount Weld Body



VeriFast Pin Sensing System  
Mounting Style  
Series \*  
Pin Stroke Length \*\*  
Adapter Length \*\*  
No Head or Pin

**VF | LVDT | CLMP | 3 | 22 | 140 | NHP**

VeriFast

LVDT

Clamp Mount

\*Series

Series 2 = 2

(Preferred) Series 3\* = 3

Series 4 = 4

**NHP (No Head or Pin)**

Note: Heads and Pins must be ordered separately. Pins must be **Tapped** pins (see VeriFast LVDT Nut Weld Pin on page 3).

**Adapter Length\*\***

(Correlate with "Pin Stroke Length" field below. For visual representation, see drawings at top of page).

100 (mm) - (Works with 22 mm pin stroke only (not 50 mm)).

140 (mm) - (Works with both 22 mm and 50 mm pin strokes).

**Pin Stroke Length\*\***

(Correlate with "Adapter Length" field above. For visual representation, see drawings at top of page).

22 (mm) - (Works with both 100 mm and 140 mm adapters).

50 (mm) - (Works with 140 mm adapter only (not 100 mm)).

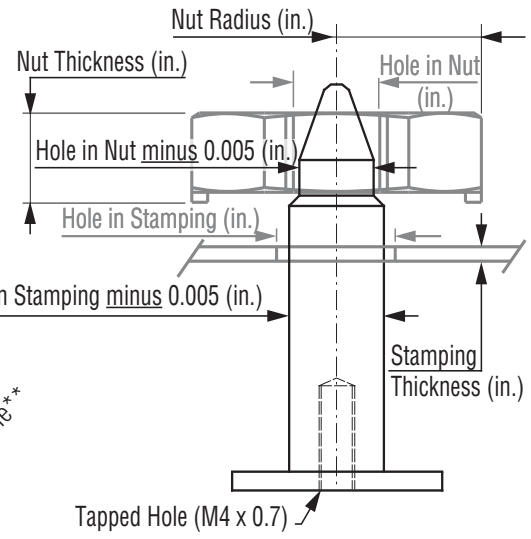
\* Series 3 is preferred for all applications, unless clearance or welding issues exist. The Series number must be consistent between all components (Body, Pin, and Head).

\*\* Pin Stroke Length and Adapter Length must be correlated. See drawings at the top of the page.

Note: The Air Port Thread is 1/8" NPT.

# Tapped Nut Weld Pin

For use with Clamp Mount Weld Bodies (see page 2)



Tapped Nut Weld Pin  
 Tapped Nut Weld Pin Material  
 Series\*  
 Nose Type  
 Hole in Stamping minus 0.005 (in.)  
 Hole in Nut minus 0.005 (in.)  
 Stamping Thickness (in.)  
 Nut Thickness (in.) or  
 Nut Radius (in.)  
 Tapped Hole\*\*

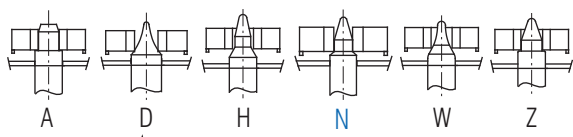
T
JS
3
N
348
270
25
25
E

**Tapped** | **Tapped Hole\*\***  
 E = M4 x 0.7

**Tapped Nut Weld Pin Material**  
 Stainless = GS  
 Coated = CS  
 DuraPin™ = JS

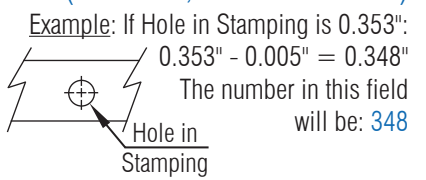
**\*Series**  
 Series 2 = 2  
 (Preferred) Series 3\* = 3  
 Series 4 = 4

**Nose Type**

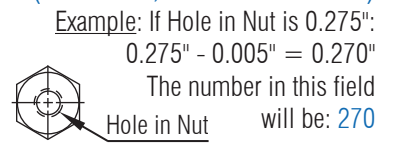


Cannot be used for Piloted Nut  
 Not Recommended for Auto Nut Feeding

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



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



**IMPORTANT:** Dimensions are finish after coating. For DuraPin™ coating reduce all outside dimensions by 0.002 to allow for coating thickness.

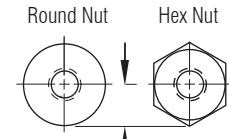
**Nut Thickness (2 decimals, measured in inches)**  
 Measured when Nut Feeding is done **Manually**



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**

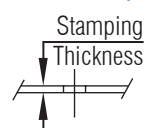


Nut Radius (Measured from the center to the outermost edge of the nut)  
 Example: If Nut Radius is 0.47", the number in this field will be **47**.



**Stamping Thickness (2 decimals, measured in inches)**

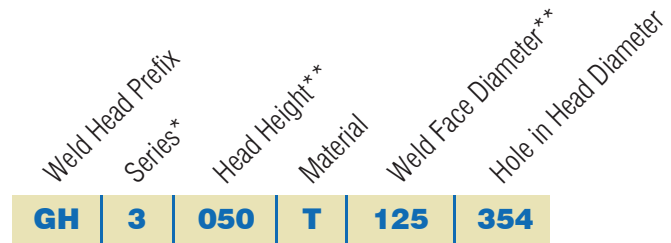
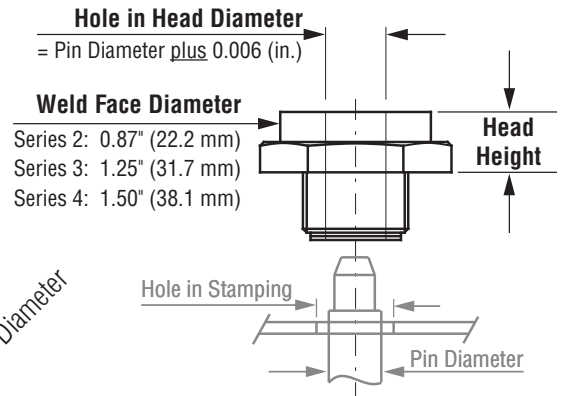
- If Stamping Thickness is:
- less than 0.25", the number in this field will be **25**.
  - greater than 0.25", contact CenterLine.



\* 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).

\*\* Only **Tapped Nut Weld Pins** can be used with **Clamp Mount Weld Bodies**.

# Weld Head



**Weld Head Prefix**

**Series\***  
 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

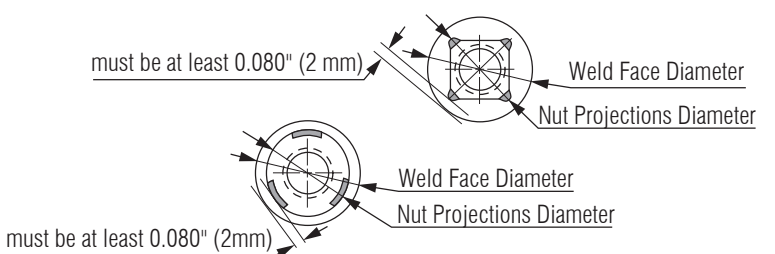
**Hole in Head Diameter**  
 Max. 0.427" (10.85 mm) - for Series 2  
 Max. 0.642" (16.31 mm) - for Series 3\* (preferred)  
 Max. 0.852" (21.64 mm) - for Series 4

Important: The Hole in Head Diameter must be 0.006" 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").

**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)

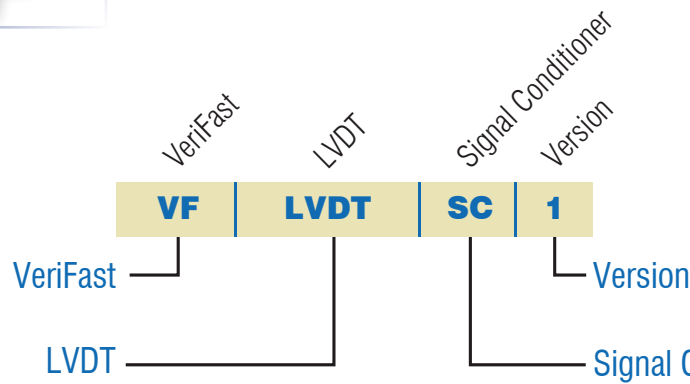
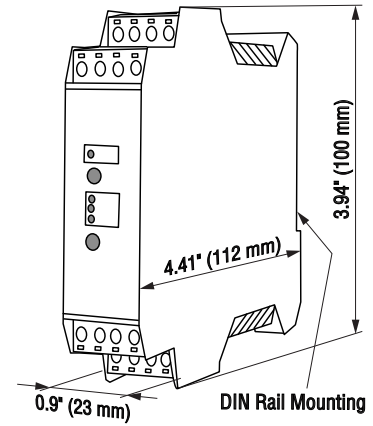
Important: The Diameter of the Nut Projections must be at least 0.160" (4 mm) smaller than the Weld Face Diameter (or 0.080" (2 mm) radius difference). If it is not, the next larger weld head series should be used for the application.



\* 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).

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

# 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.



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