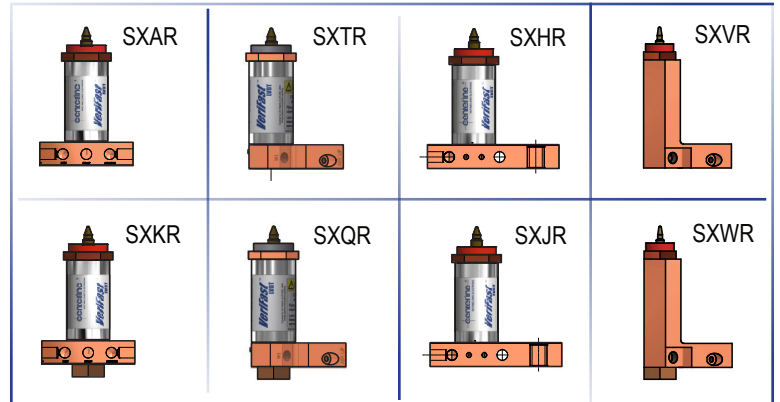
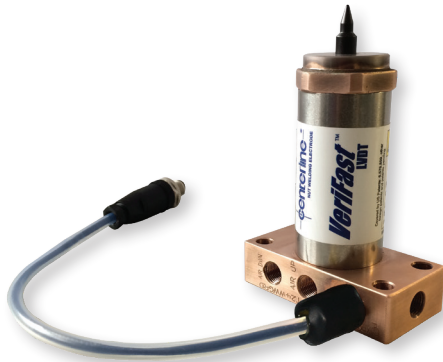


## Base Mount Styles



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

**3**



**Weld Head**  
(page 6)

**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



**Consumable Pin (Only)**

(page 5)

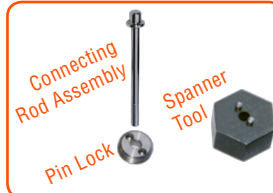
Does not include *Connecting Rod Assembly* and *Pin Lock*. Must be assembled with an existing *Connecting Rod Assembly* and *Pin Lock* in order to form a DG Style Pin. See kit below.

**1**



**VeriFast LVDT Base Mount Weld Body**  
(pages 2, 3, and 4)

+



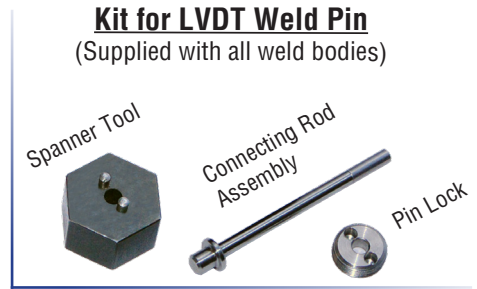
Kit supplied with all base mount bodies. As long as the *Connecting Rod Assembly* and *Pin Lock* are in good shape, they can be reused multiple times with new VeriFast LVDT **Consumable Pins** (see above).

**4**



**LVDT Signal Conditioner**  
(page 7)

# VeriFast LVDT Base Mount Weld Body



VeriFast  
Pin Sensing System  
Body Style  
Series\*  
Cable Exit Position\*\*  
Port Thread  
No Head or Pin  
Attachment Screws

**VF | LVDT | SXAR | 3 | TR | S | NHP | N**

VeriFast

LVDT

Base Mount

SXAR

SXKR

SXTR

SXQR

SXHR

SXJR

(Series 2 Only) SXVR

(Series 2 Only) SXWR

\*Series

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)



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
----	------	------	---	----	---	-----	---

**SXAR**

**SXTR**

**SXHR**

**SXAR and SXKR**

**SXTR and SXQR**

**SXHR and SXJR**

**SXKR**

**SXQR**

**SXJR**

*(Continued on the next page)...*

\* 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.

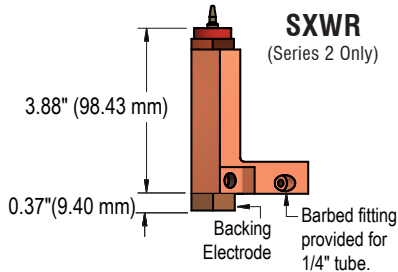
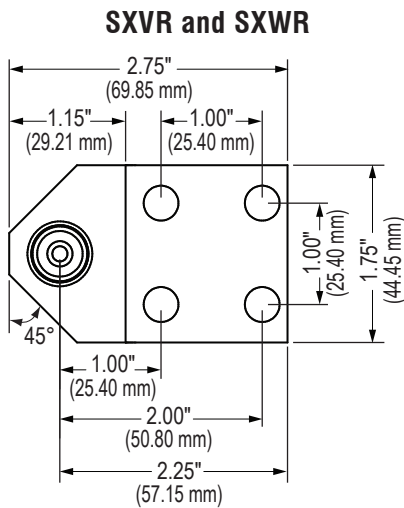
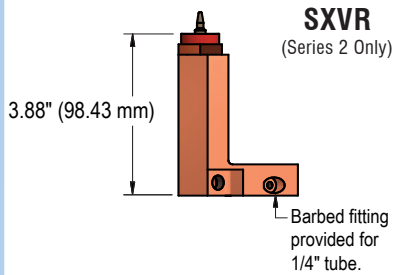
# VeriFast LVDT Base Mount Weld Body (Cont'd)



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**

...(Continued from the previous page)



\* 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).

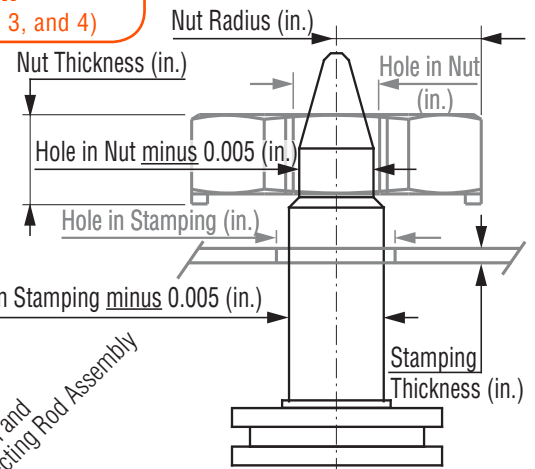
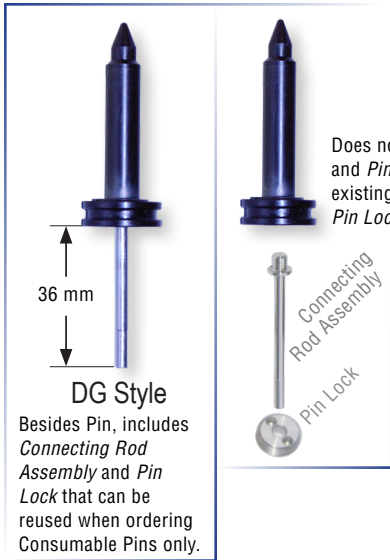
\*\* To connect to the Signal Conditioner, the VeriFast LVDT requires a micro (12 mm), 5-pin, shielded, female tool cord.  
**IMPORTANT:** A Signal Conditioner is required for each weld body, with the exception of interchangeable tooling.

# VeriFast LVDT Nut Weld Pin

## Part Numbering System

### DG Style and Consumable Pin

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



Dimensions of VeriFast LVDT Nut Weld Pin

SV

3

N

348

270

25

25

DG

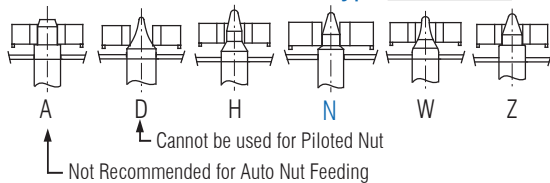
#### LVDT Nut Weld Pin Material

Stainless = RV  
Coated = KV  
DuraPin™ = SV

#### \*Series

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

#### Nose Type



#### 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**

#### 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, SXQR, 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.



#### 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**.

Nut Radius (Measured from the center to the outermost edge of the nut)



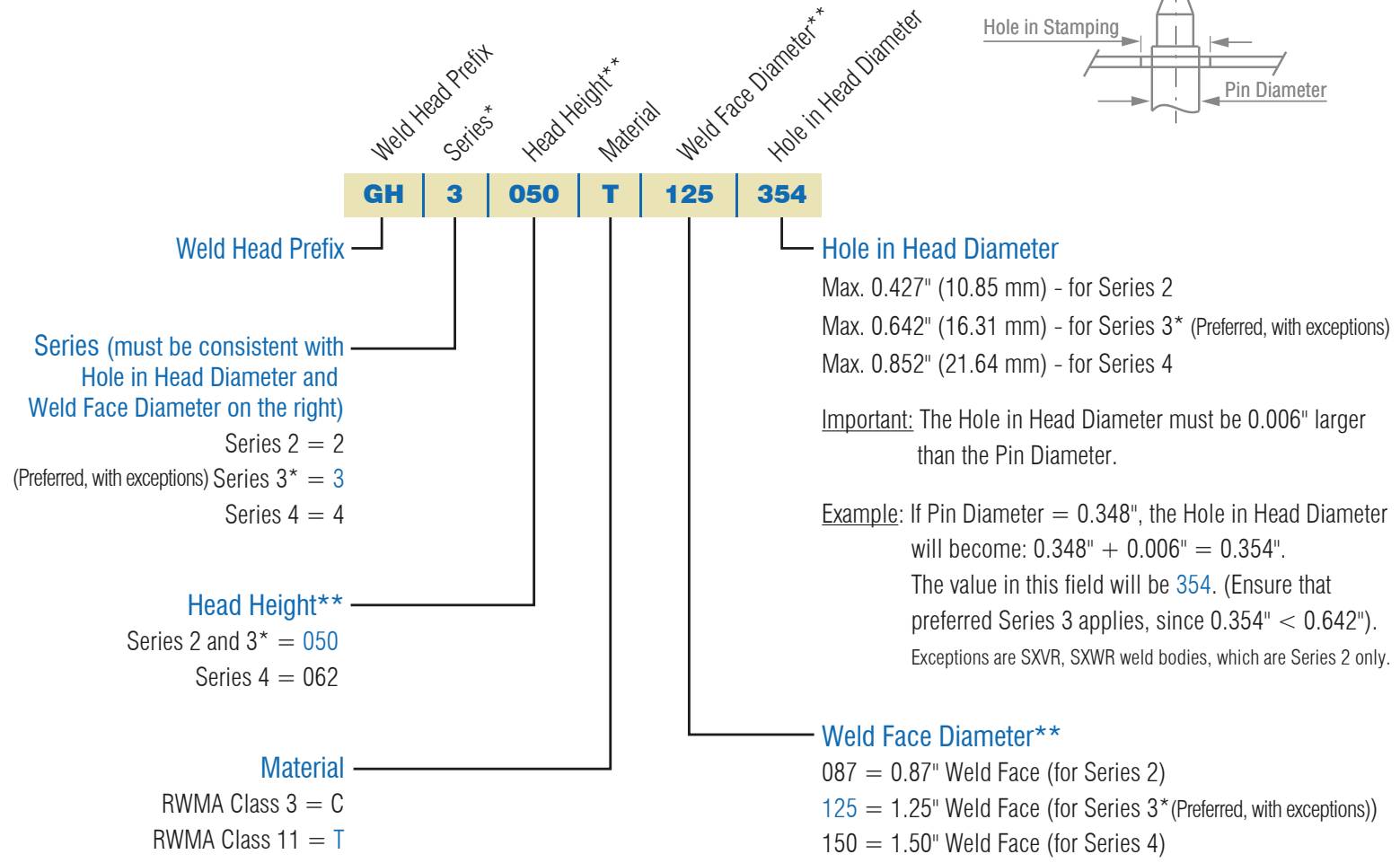
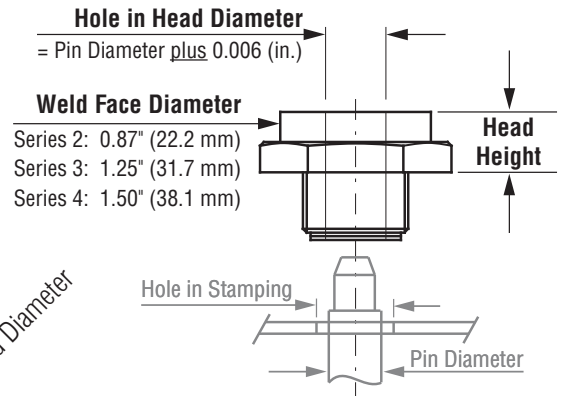
#### Stamping Thickness (2 decimals, measured in inches)

If Stamping Thickness is:

- less than 0.25", the number in this field will be **25**.
- greater than 0.25", contact CenterLine.

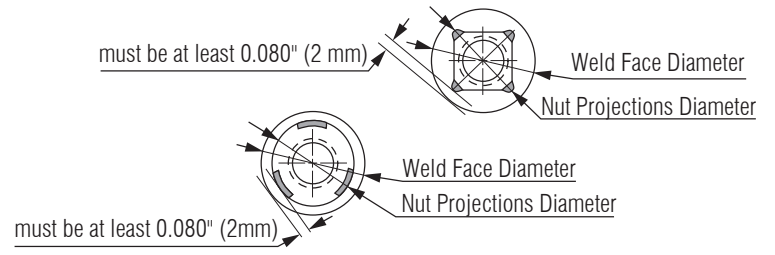
\* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. The Series number must be consistent between all components (Body, Pin, and Head).

# Weld Head

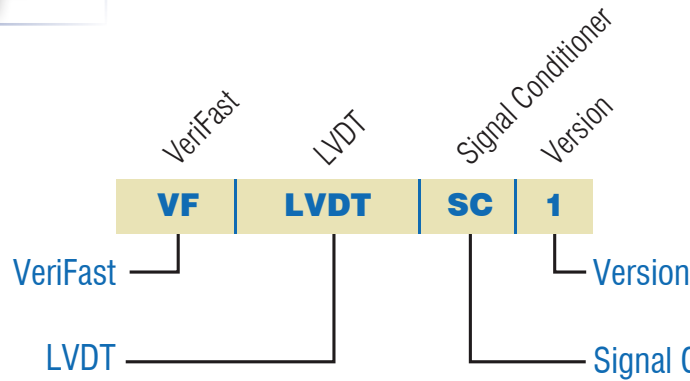
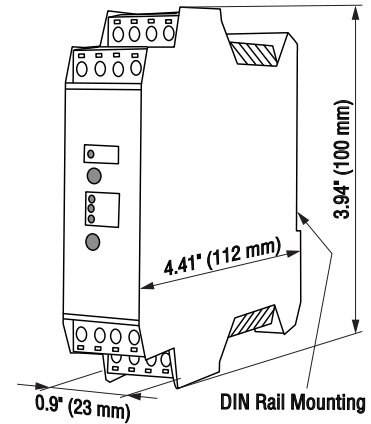


\* Series 3 is preferred for all applications, unless clearance or welding issues exist. Exceptions are SXVR and SXWR weld bodies, which are Series 2 only. The Series number must be consistent between all components (Body, Pin, and Head).

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



# 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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