

VeriFast LVDT System Configuration

Tapered and Threaded Mount Styles



Tapered (SXCR)




Threaded (SXGR)

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

3  **Weld Head** (page 4)


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*.




OR

 **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.

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

OR

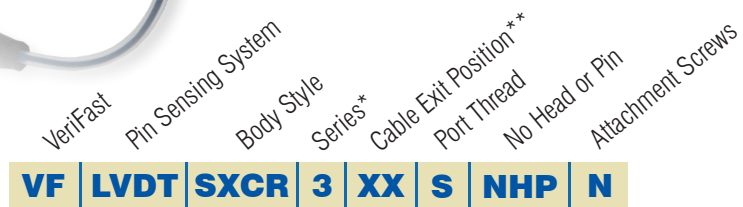
 **VeriFast LVDT Threaded Mount Weld Body** (pages 2)

Connecting Rod Assembly  *Spanner Tool*  *Pin Lock* 

Kit supplied with all Tapered and Threaded 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).

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

VeriFast LVDT Tapered or Threaded Mount Weld Body



VeriFast

LVDT

Base Mount
Tapered = SXCR
Threaded = SXGR

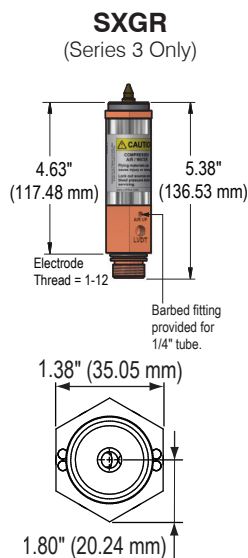
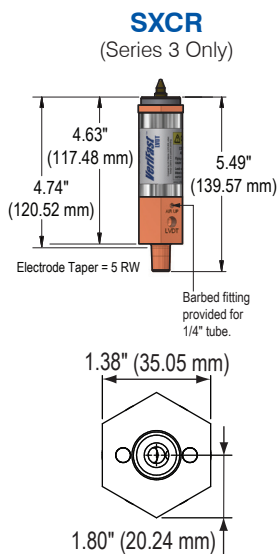
Attachment Screws
N = No option

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)



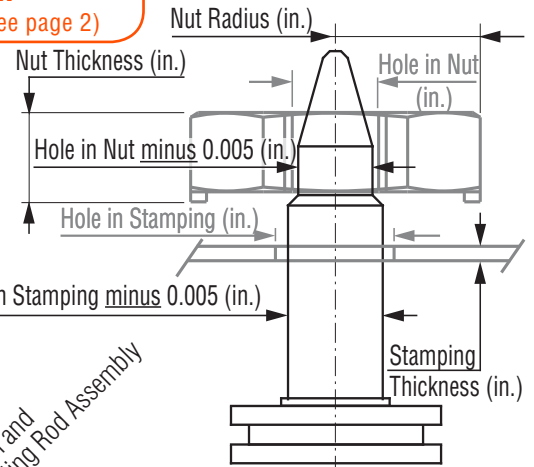
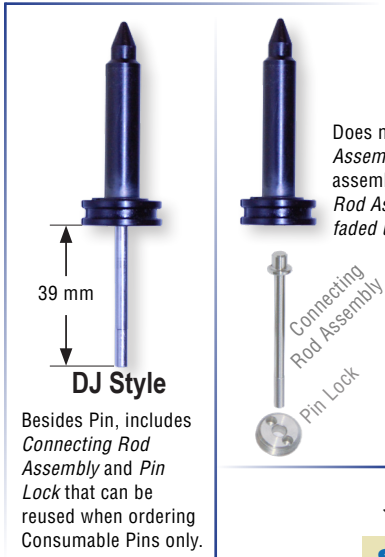
* Tapered (SXCR) and Threaded (SXGR) Weld Bodies are Series 3 only and must be consistent with Series 3 of Pin and Head.

** 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.

VeriFast LVDT Nut Weld Pin

DJ Style and Consumable Pin

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



Consumable Weld Pin Only is shown (No LVDT Rod or Core)

LVDT 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.) or
Style of Pin and
Connecting Rod Assembly

SV | 3 | N | 348 | 270 | 25 | 25 | DJ

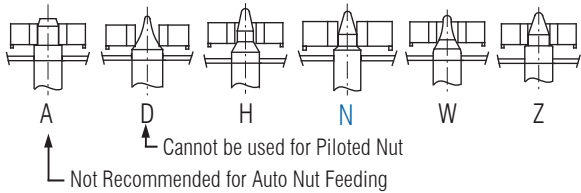
LVDT Nut Weld Pin Material

Stainless = RV
Coated = KV
DuraPin™ = SV

*Series

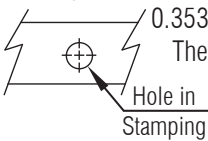
Series 3* = 3

Nose Type



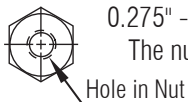
Hole in Stamping minus 0.005 (3 decimals, measured in inches)

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

DJ = Includes a Pin, Connecting Rod Assembly, and Lock Pin. Works with Tapered (SXCR) and Threaded (SXGR) Weld Bodies. See page 2.

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 Rod and Core)** this field remains empty.

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



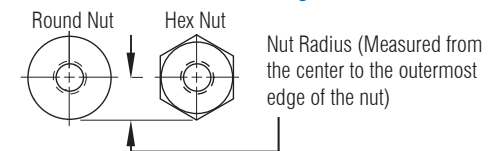
Nut Thickness (2 decimals, measured in inches) Measured when Nut Feeding is done Manually

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



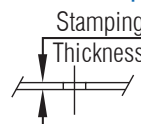
Nut Radius (2 decimals, measured in inches) Measured when Nut Feeding is done Automatically

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



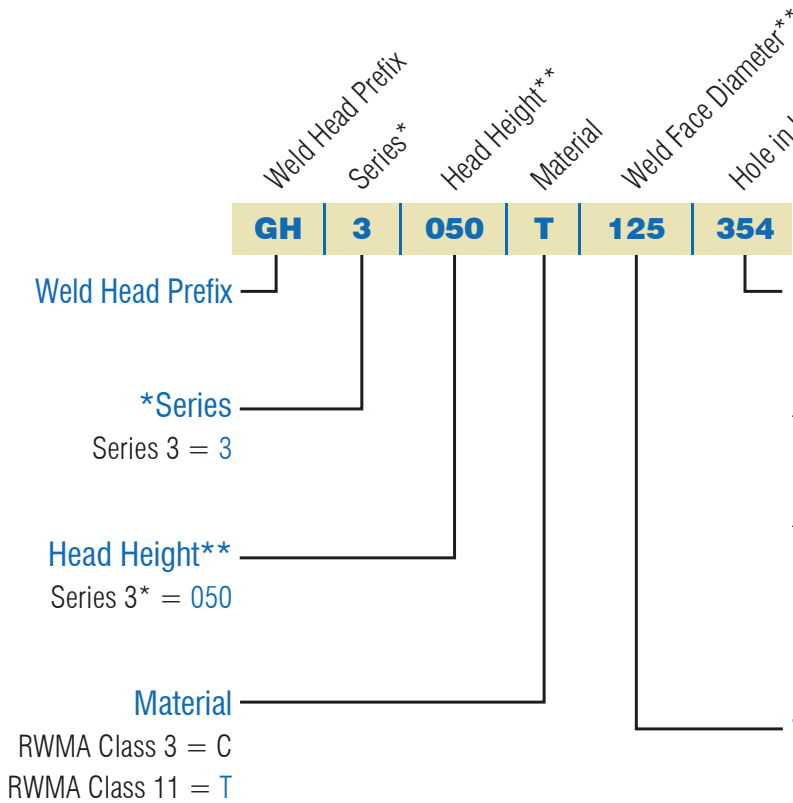
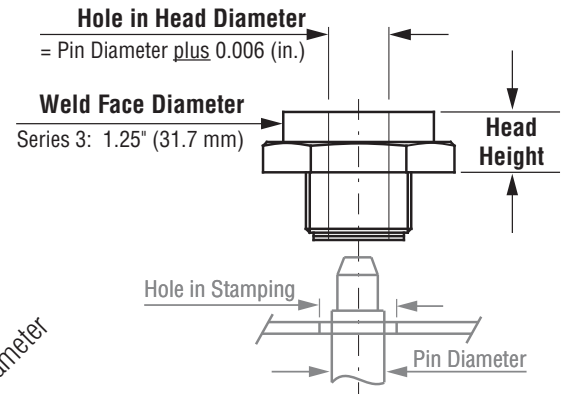
Stamping Thickness (2 decimals, measured in inches)

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



* DJ Style of the VeriFast LVDT Nut Weld Pin 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).

Weld Head



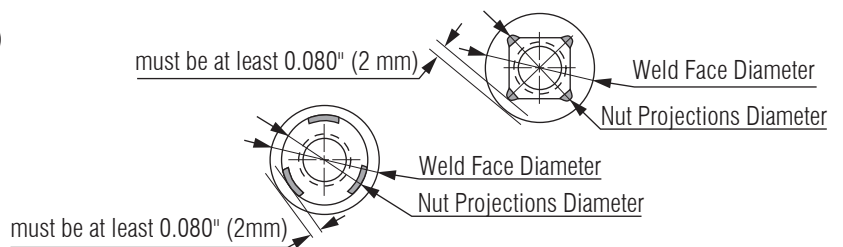
Important: The Hole in Head Diameter must be 0.006" larger than the Pin Diameter.

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 $0.354" < 0.642"$).

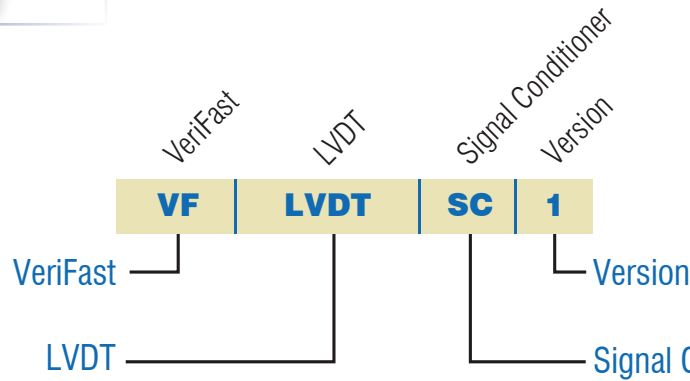
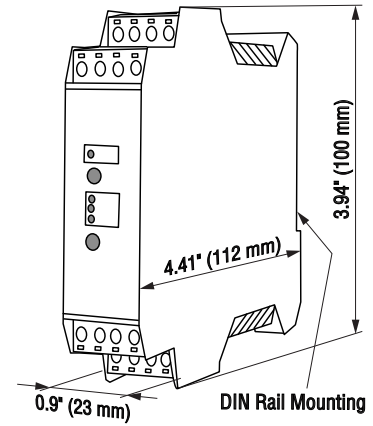
Important: The Diameter of the Nut Projections must be at least 0.160" (4 mm) smaller than the Weld Face Diameter (or 0.080" (2 mm) radius difference). If it is not, contact CenterLine.

* 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.



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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