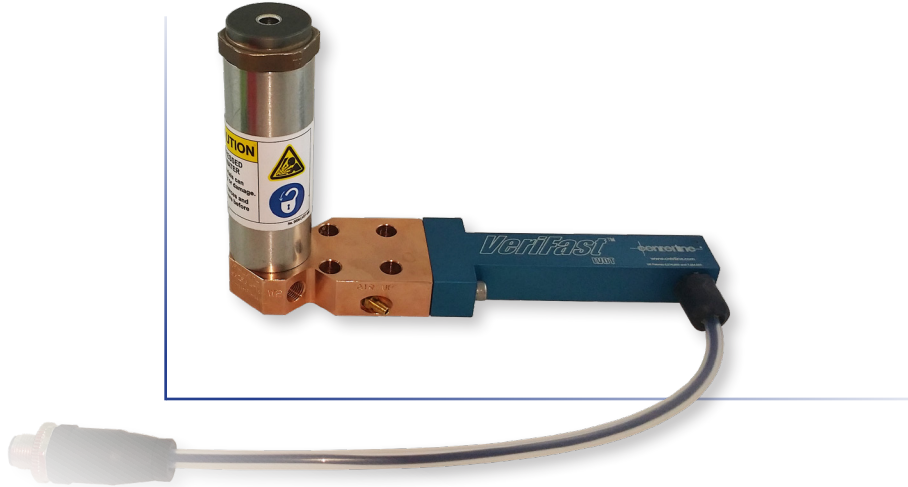


VeriFast LVDT System Configuration

SXZR Mount Style

For Stud Applications



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

3  **Weld Head**
(page 4)

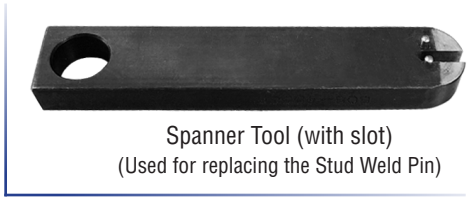
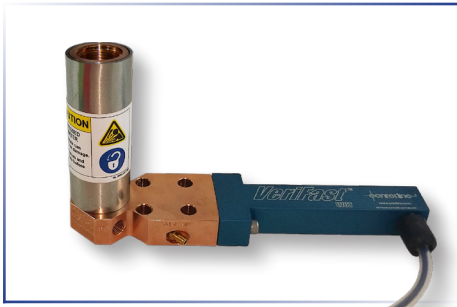
2  **LVDT Stud Weld Pin**
(page 3)

1  **VeriFast LVDT SXZR Weld Body**
(page 2)

+  **Spanner Tool (with slot)**
(Supplied with all SXZR weld bodies. Used for replacing the Stud Weld Pin).

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

VeriFast LVDT SXZR Mount Weld Body

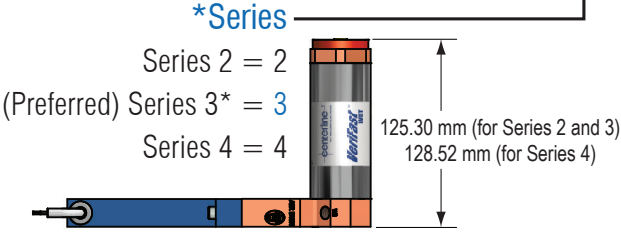


VF | LVDT | SXZR | 3 | TM | S | NHP | N

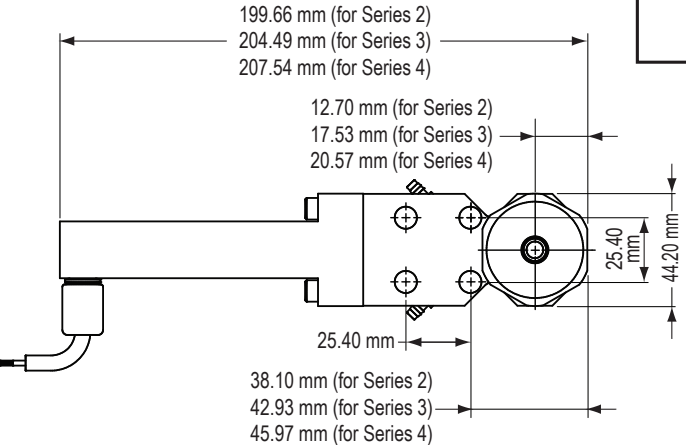
VeriFast
LVDT
Body Style
SXZR

Attachment Screws
M = Metric (M6 x 1 x 35)
S = Standard (1/4"-20 x 1 1/2")
N = Not provided

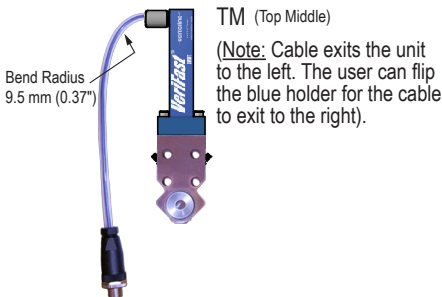
NHP (No Head or Pin)
Note: Head and Pin must be ordered separately.
The pin must be **LVDT Stud Weld Pin** (see page 3).



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



Cable Exit Position**
TM = Top Middle



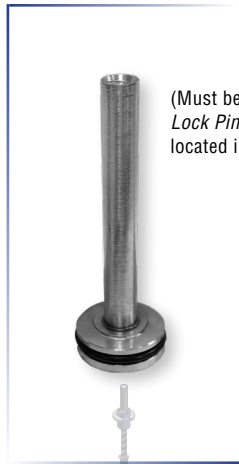
* Series 3 is preferred for all applications, unless clearance or welding issues exist. The Series number must be consistent between all components (Body, Pin, and Head).

** 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 Stud Weld Pin

For use with **SXZR** Weld Bodies (see page 2)

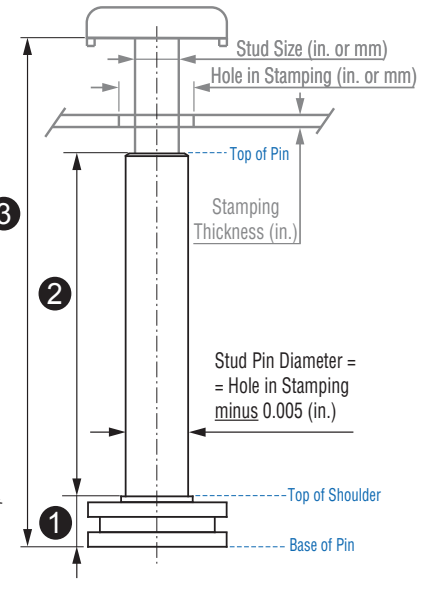
Part Numbering System



LVDT Stud Weld Pin

(Must be assembled with the existing *LVDT Cable / Lock Pin Assembly* (shown faded underneath) located inside the *SXZR* Weld Body)

LVDT Cable / Lock Pin Assembly



LVDT Stud Weld Pin Material

Stud Feeding Mode

Series*

Stud Size (in. or mm)

Length from Top of Shoulder to Top of Pin (in. or mm)

Length from Base of Pin to Top of Shoulder (in. or mm)

LVDT Cable / Lock Pin Assembly Length**

SV

P

3

M08

047

07

XZ

LVDT Stud Weld Pin Material

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

Stud Feeding Mode

- Manual = P
- Automatic = A

*Series

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

Stud Size

Measured in inches, 3 decimals.
Becomes 3 digits.

Example: If Stud is 0.315", the number in this field will be: 315

or

Measured in millimeters, 0 decimals.
Becomes prefix "M" followed by 2 digits.

Example: If diameter of stud is 8 mm, the number in this field will be: M08

LVDT Cable / Lock Pin Assembly Length**

XZ

Length from Base of Pin to Top of Shoulder

(See ① in drawing above)

Measured in inches, 2 decimals. Becomes 2 digits.

Example: If length is 0.27", the number in this field will be: 27

or

Measured in millimeters, 0 decimals. Becomes 2 digits.

Example: If length is 7 mm, the number in this field will be: 07

Length from Top of Shoulder to Top of Pin

(See ② in drawing above)

Measured in inches, 2 decimals. Becomes 3 digits.

Example: If length is 1.85", the number in this field will be: 185

or

Measured in millimeters, 0 decimals. Becomes 3 digits.

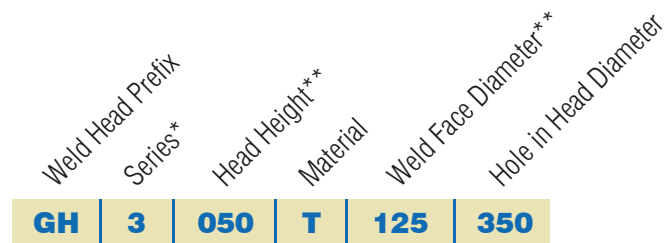
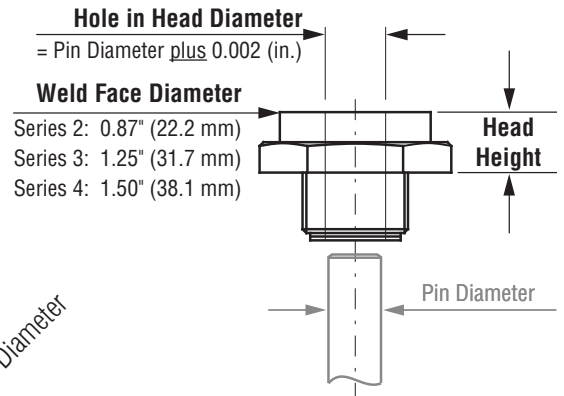
Example: If length is 47 mm, the number in this field will be: 047

* 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).

** The SXZR Weld Body uses the LVDT Stud Weld Pin connected to the LVDT Cable / Lock Pin Assembly.

*** Dimension ③ cannot be longer than 48 mm (1.89 in.).

Weld Head



Weld Head Prefix
GH

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 0.002" larger than the Pin Diameter.

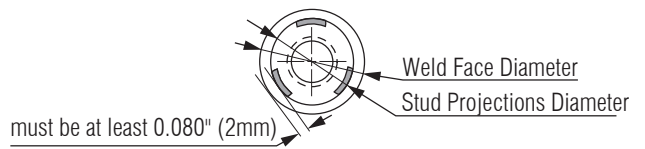
Example: If Pin Diameter = 0.348", the Hole in Head Diameter will become: 0.348" + 0.002" = 0.350". The value in this field will be 350. (Ensure that preferred Series 3 applies, since 0.350" < 0.642").

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)

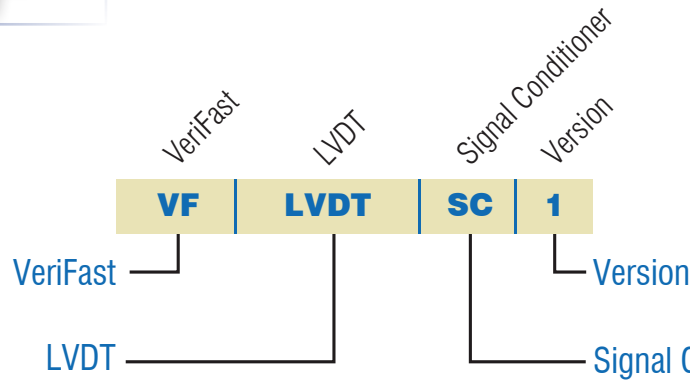
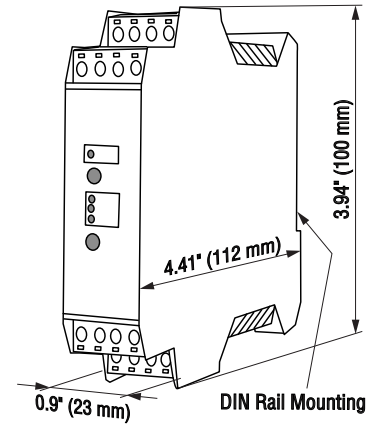
Important: The Diameter of the Stud Projections must be at least 0.160" (4 mm) smaller than the Weld Face Diameter (or 0.080" (2 mm) radius difference). If it is not, the next larger weld head series should be used for the application.

* 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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