

## Series F

Flanged Series - Manufacturing Standard

Valid only for Overall Length "L" maximum of 42" and/or one-piece construction barstock stems.

## **SEC. I Tolerances**

<b>DWG</b>		
<b>KEY</b>	<b>DESCRIPTION</b>	STANDARD TOLERANCE
$\overline{\mathbf{A}}$	Bore Depth	+.030"/000" Depth; W-Shaped bore bottom
В	Bore Diameter	+.007"/005"
C	Chamfer	Nominal
D	Diameter	Option 1) Barstock o.d.: Mill Standard tolerance/032"
		Option 2) Machined o.d.: +/015"
${f E}$	Tip Thickness	+/063"
$\mathbf{F}$	Flg. Thickness	Post-fabricated ANSI B16.5 flanges: Mill Standard/063"
$\mathbf{G}$	GTAW Weld	ASME Sec. IX, B&PVC – certified welders
I	Instrument Conn.	ANSI B1.20.1
J	Radius	Nominal
K	Head Length	Nominal - See "A", "E" & "U" for accumulated length tolerances.
${f L}$	Overall Length	Nominal - See "A", "E" & "U" for accumulated length tolerances.
P	Proc. Conn.	ANSI B16.5 Pre-fabricated flange
Q	Shank Diameter(s)	+/010"
$\mathbf{T}$	Lag ext. Length	Nominal - See "A", "E" & "U" for accumulated length tolerances.
$\mathbf{U}$	Insertion Length	+/063"
${f V}$	Tapered Length	+/500" when "U" length is longer than 16"
$\mathbf{Y}$	Reduced Length	Nominal

## Sec. II – Manufacturer's Standard Specifications

- 1. Bore Concentricity: .0015" per inch / maximum T.I.R. .035".
- 2. Instrument connection: 1/2" NPT compliant to ANSI B1.20.1. Standard dimensions: Entrance bevel 60° +/-2°. I.D. .718" +/-.005" x 1.00" +/-.015" depth with 59° nominal drill bottom. Tap 1/2" NPT threads x .875" nominal depth. Tolerance: ANSI compliant 3 full plug gauge turns minimum x 4.5 turns maximum. \*Note: Request alternate thread dimensions for any series with a "K" length of <1.00".
- 3. Materials: In compliance with the applicable governing National Standard such as ASTM, ASME, AWS, etc.
- 4. Post-Fabricated Flange dimensions: Reference document titled Series PFD.
- 5. Stamping: 3/32" minimum height characters indicating material grade & traceability code. TTEC reserves the option to relocate standard stamp locations if there are surface area constraints.
- 6. Surface Finish: 16-32 RMS over 85% of the "U" length- the remainder of the stem area is belt-sanded. Surface finish varies for "high carbon/low alloy" materials due to inherent rusting characteristics. Gasket surface finishes for flanges/connectors are provided on document Series PFD.
- 7. Tapered length "V": Full length taper is provided for U16" or less. Longer lengths are tapered over the last 16" as a standard. A full length taper for all lengths is available for an additional charge.
- 8. Welding: Request the applicable welding specification.