#### **TEMPERATURE CONTROLS**

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THEDWOOD IDEES, DTD SENSORS, THEDWOWELLS, EXTENSION CARLES

#### Thermowells



We supply quality thermowells to suit a range of process industries, including food, beverage pharmaceutical and petrochemical.

Thermowells are mainly custom made to suit your application and we invite our customers send drawings of requirements to receive a competitive quotation.

Following are specifications on the standard model thermowells manufactured by Temperature Controls using modern CNC and Gun Drilling machiners

Thermowells can be manufactured in the following materials:

Duplex Stainless Steel

316 Stainless Steel

321 Stainless Steel

304 Stainless Steel
Carbon Steel

Chrome Molybdenum

■ Hastalloy

Brass

Intamum

#### STANDARD SPECIFICATION AND TOLERANCE

NPT

. FLANGED WELLS

- LENGTH
  - ± 1.5mm on all length to 300mm ± 3.0mm on all length to 1000mm

Thermowells 1000mm long and over will be drilled through, plugged and welded.

- 0.D TOLERANCE ± 0.3mm
- BORE 6.5mm

WFLDS

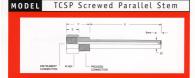
- EXTERNAL SURFACE FINISH 16-32 RA Other finishes available on request.
- IF HEX IS UNAVAILABLE IN REQUESTED MATERIAL, 2 SPANNER FLATS MILLED.
- Full penetration welds are standard.
  Weld procedure and qualifications
- LAGGING EXTENSION
   If hex har is used, hex is left unturned.
- PROCESS CONNECTION
   NPT

 INSTRUMENT CONNECTION W" BSPP Standard BSPT

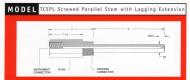
Checked with traceable GO/NOGO gauges.

• NON DESTRUCTIVE TESTING

- 4 Part dye penetrant test on all welds Hydrostatic Internal pressure test (30,000 kpa 5 mins) Certificates available including Material upon request at ordering.
- Manufactured in accordance with ANSI B 16.5 Raised face with spiral finish is standard
- TAGGING Material and tag number as specified
- PLUG AND CHAIN available for Test Wells



D	AF HEX	E	F
16mm	25.4mm	22mm	45mm
19mm	28.5mm	22mm	45mm
22mm	34.8mm	25mm	50mm
	19mm	16mm 25.4mm 19mm 28.5mm	16mm 25.4mm 22mm 19mm 28.5mm 22mm



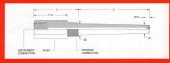
Lagging extension "T" is added to standard "E" dimension increasing overall length. All other specifications as per model TCSP

#### MODEL TCST Screwed Taper Stem

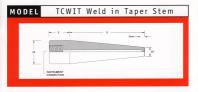


1/2" NPT/BSP	12mm	16mm	25.4mm	22mm	45mm
"/4" NPT/BSP	16mm	19mm	28.5mm	22mm	45mm
1" NPT/BSP	19mm	22mm	34.8mm	25mm	50mm

MODEL TCSTT Screwed Taper Stem with Lagging Extension



Lagging extension "T" is added to standard "E" dimension increasing overall length. All other specifications as per model TCST



Standard	19mm	38.1mm	45mm	
Dimension d2 is determin	ned by customer ap	oplication requirement	ts	



Lagging extension "T" is added to standard "E" dimension increasing overall length. All other dimensions as per model TCWIT

# MODEL TCFP Flange Connection/Parallel Stem

#### Specification

ige Size	U1	03	
IB	22mm	31mm	
110			

ange Ratings: 150#, 300#, 600#, 900#, 1500# to suit applicatio

MODEL TCFPL Flange Connection/Parallel Stem with Lagging



Lagging extension "T" is added to standard 57 mm"E" dimension increasing overall length. All other dimensions as per model TCFP

#### MODEL TCFT Flange Connection/Taper Stem



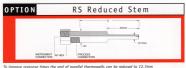
#### Specification Flange Size

rtange size	DI.	UZ	U3	
1" NB	16mm	22mm	31mm	
11/2" NB	18mm	24mm	31mm	
2" NB	18mm	28mm	31mm	

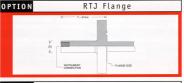
#### MODEL TCFTL Flange Connection/Taper Stem with Lagging Extension



Lagging dimension "T" is added to standard 57mm "E" dimension increasing overall length. All other dimensions as per model TCFT



To improve response times the time of parallel distinuities territories to resident to



OPTION PC Plug and Chain



Plug to screw into instrument connection for test thermowells. Supplied C/W chain