

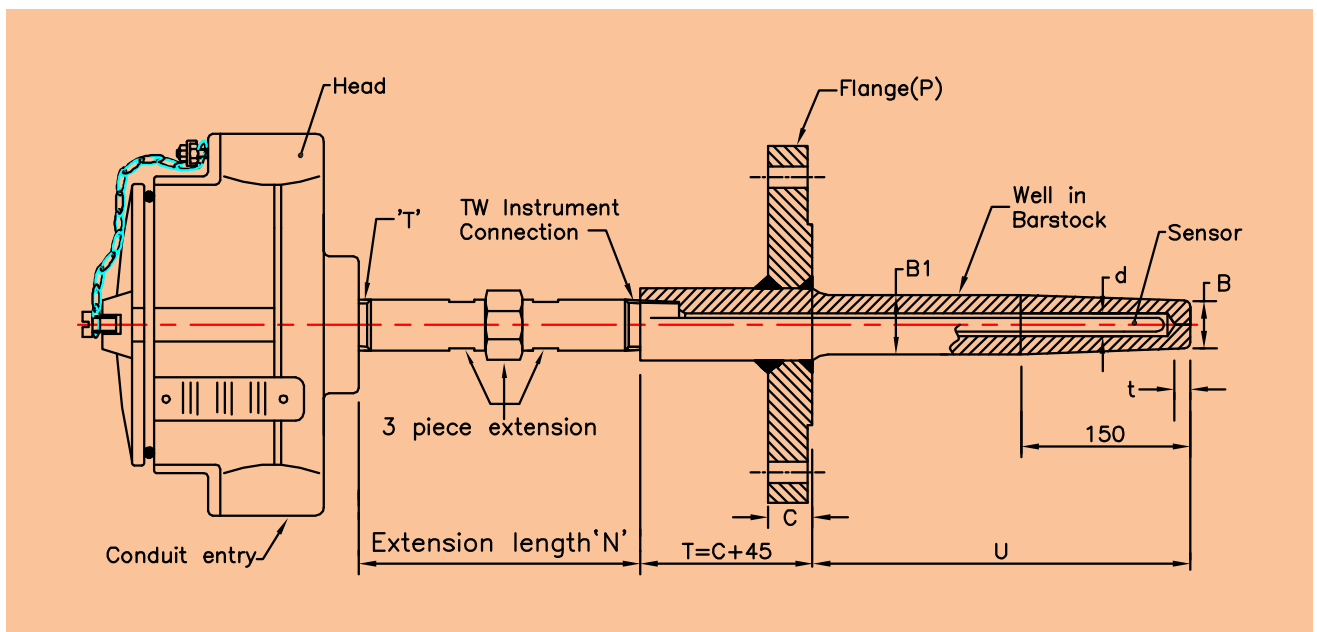
- A Flanged Straight & tapered shank Thermowell.
- Flameproof or weatherproof execution in 316SS or Aluminium.
- Safe design as per ASME PTC 19.3
- Available with "in head" 2-wire Temperature Transmitter.



The Thermocouple or RTD assembly illustrated in this leaflet is a typical design specified by M/s Engineers India Ltd. A drilled bar stock Thermowell is welded to a suitably drilled blind flange by employing a groove and fillet TIG weld joint. For pressure rating 900# and above a full penetration weld is carried out. High velocity collar can be provided to reduce the suspended length of Thermowell and to meet ASME PTC 19.3 requirement.

Thermowells are available in standard AISI 300 series stainless steels as well as, in exotic materials such as Incoloy 800, Inconel 600, Monel 400, Hastelloy alloys C and B, and Flanges in ASTM grades A105, A182 and A350 and in standard size of (1.5"Nb(40mm), and ratings from 150# to 2500#.

The standard execution as shown in this leaflet is with Cd plated CS extension and Aluminium head with conduit entry of 1/2"NPT and Thermocouples with ungrounded junction unless specified otherwise.



Ordering Example - RTD

Model No: 430#-2-Pt100B-3W-6-SS316-IEC751-CJT1001-400-D_IP67-1-HA108-SS316-F316-250-0-90-150-1/2"-150#-RF-30-26-16-150-0-0-7-6-Op 1A,3A,5A,4B,31A,14A

Model	Suffix Codes	Description
430#RTD		430#RTD Assembly
No of Elements	1..... 2..... 3.....	Simplex Duplex Triplex
Element Type	Pt100A..... Pt100B..... Pt200A..... Pt200B..... Pt500A..... Pt500B.....	Pt100 RTD Class A tolerance Pt100 RTD Class B tolerance Pt200 RTD Class A tolerance Pt200 RTD Class B tolerance Pt500 RTD Class A tolerance Pt500 RTD Class B tolerance
No of Wires	2W..... 3W..... 4W.....	2 Wire RTD 3 Wire RTD 4 Wire RTD
Sheath Dia	6..... 8..... 10.....	6 mm 8 mm 10 mm (For more options refer table F)
Sheath Material	316..... 316L..... 321..... INC 600.....	SS316 SS316L SS321 Inconel 600
Calibration Standard	DIN43760..... IEC751.....	RTD calibration DIN 43760 RTD calibration IEC 60751
CJT Details	CJT 201..... CJT 1001..... CJT 1005.....	Crimp on Pot and Lead Wire Spring Loaded Terminal Block OD=41 PCD=33(Weatherproof) Spring Loaded Terminal Block Od=41 PCD=33(Flameproof) (For more options refer table G)
Length Below Base Plate* (To be specified by Pyro)	X.....	Length Below Base Plate 'X' mm
Head Type	D_IP67..... C.....	Weatherproof With IP67 Certified as per IS/IEC 60529 Flameproof Exd IIC T6,IP67 as per IS/IEC 60079 (For more options refer table H)
No Of Conduit Entries	01-10..... XX.....	Select 2 or 1 for Terminal Head & 1-10 for Junction Box Not Applicable
Head Assembly Type	HA108..... HA112..... HA113.....	Head-3 Piece Extension & T(M) (Made in Barstock) Head-3 Piece Extension with Spring Loading & T(M) Head-3 Piece Extension with Sealing Arrangement & T(M) (For more options refer table E)
Well Material	321..... 316..... INC 600.....	SS 321 SS 316 Inconel 600 (Other options available)
Flange Material	F321..... F316..... F316L.....	SS 321 SS316 SS 316L(Other options available)
Well Insertion Length Below Flange*	U.....	Well Insertion Length Below Flange 'U' mm
Safe Length Below Collar *	U1.....	Well Insertion 'U1' mm (Write 0 if Velocity Collar (Not applicable)
Well Extension Length Including Flange*	T.....	Well extension length including Flange 'T' mm
Head Extension Length*	N.....	Head extension length 'N' mm
Flanged Process Connection Size	1..... 1.5..... 2.....	1" ANSI 1.5" ANSI 2" ANSI (Other options available)
Flanged Process Connection Rating	150#..... 300#..... 600#..... 900#..... 1500#..... 2500#.....	150# as per B16.5 300# as per B16.5 600# as per B16.5 900# as per B16.5 1500# as per B16.5 2500# as per B16.5
Flanged Process Connection Facing	BLRF..... BLRTJ..... SORF.....	Blind raised face Blind ring type joint Slip on raised face (Other options available)
Rod Diameter*	A.....	Rod Diameter 'A' mm
Top End Diameter*	B1.....	Top End Diameter 'B1' mm
Hot End Diameter*	B.....	Hot End Diameter 'B' mm
Tapered Length for Thermowell	0-500(Define Dia between 0 to 150)	Tapered Length for Thermowell
Velocity Collar*	OD.....	Velocity Collar OD (Write 0 if Velocity Collar Not Applicable)
Velocity Collar Thickness*	Thk.....	Velocity Collar Thickness (Write 0 if Velocity Collar Not Applicable)
Bore ID*	d.....	Bore ID 'd' mm
Tip Thickness*	t.....	Tip Thickness 't' mm
Options.		(For options refer table A)

*Please consult our marketing team for any non standard dimensions. Note: For field which are not applicable, select 'XX' or enter '0' whichever is mentioned)

INDIA

PYRO ELECTRIC INSTRUMENTS GOA PVT. LTD.

G/B, Hill Crown, College Road, Mapuca - Goa 403 507 India.
Tel : +91 832 2252719/2264391, Fax : +91 832 2263294, Email : marketing@pyro-electric.in

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 Temperature Flow Heating Level Pressure Disposable Probes

Ordering Example - THERMOCOUPLE

Model No: 430#-MI-2-K-6-20AWG-SS316-IEC584-CJT1001-400-D_IP67-1-HA108-SS316-F316-250-0-80-150-1/2"-150-RF-28-26-16-50-0-0-7-6-Op 1A,3A,5A,4B,31A,15B,16B

Model	Suffix Codes	Description
430#TC		430#TC Assembly
Thermocouple Type	MI..... BE.....	Mineral Insulated Ceramic Beaded
Number of Elements	1..... 2..... 3.....	Simplex Duplex Triplex
Element Type	J..... K..... T..... E..... N..... R..... S..... B..... C.....	Iron Constantan Chromel Alumel Copper Constantan Chromel Constantan Nicrosil Nilil PTRH13%_PT PTRH10%_PT PTRH30%_PTRH6% TU 5% Rhenium -TU 26% Rhenium
Sheath Diameter of TC	6..... 8..... 9.5.....	6 mm 8 mm 9.5 mm (For more option refer table F)
Size of Conductor of TC	16AWG..... 18AWG..... 24AWG..... XX.....	1.29032 mm 1.02362 mm 0.51054 mm Not Applicable (For more options refer table C)
Sheath Material for TC	316..... 316L..... 321..... INC 600.....	SS316 SS316L SS321 Inconel 600 (For more options refer table D)
Calibration Standard	ANSIMC96.1..... DIN43710..... IEC60584.....	TC calibration as per ANSIMC 96.1 TC calibration as per DIN 43710 TC calibration as per IEC 60584
Details of CJT	CJT 201..... CJT 1001..... CJT 1005.....	Crimp on Pot and Lead Wire Spring Loaded Terminal Block OD=41 PCD=33(Weatherproof) Spring Loaded Terminal Block Od=41 PCD=33(Flameproof) (For more options refer table G)
Length Below Base Plate* (To be specified by Pyro)	X.....	Length Below Base Plate 'X' mm
Head Type	D_IP67..... C.....	Weatherproof With IP67 Certified as per IS/IEC 60529 Flameproof Exd IIC T6,IP67 as per IS/IEC 60079 (For more options refer table H)
Number of Conduit Entries	01-10..... XX.....	Select 2 or 1 for Terminal Head & 1-10 for Junction Box
Head Assembly Type	HA108..... HA112..... HA113.....	Head-3 Piece Extension & T(M) (Made in Barstock) Head-3 Piece Extension with Spring Loading & T(M) Head-3 Piece Extension with Sealing Arrangement & T(M) (For more options refer table E)
Well Material	321..... 316.....	SS 321 SS 316
Flange Material	INC 600..... F321..... F316..... F316L.....	Inconel 600 (Other options available) SS 321 SS316 SS 316L (Other options available)
Well Insertion Length Below Flange*	U.....	Well Insertion Length Below Flange 'U' mm
Safe Length Below Collar*	U1.....	Well Insertion 'U1' mm (Write 0 if Velocity Collar Not Applicable)
Well extension length including Flange*	T.....	Well extension length including Flange 'T' mm
Head extension length*	N.....	Head extension length 'N' mm
Flanged Process Connection Size	1..... 1.5..... 2.....	1" ANSI 1.5" ANSI 2" ANSI (Other options available)
Flanged Process Connection Rating	150#..... 300#..... 600#..... 900#..... 1500#..... 2500#.....	150# as per B16.5 300# as per B16.5 600# as per B16.5 900# as per B16.5 1500# as per B16.5 2500# as per B16.5
Flanged Process Connection Facing	BLRF..... BLRTJ..... SORF.....	Blind raised face Blind ring type joint Slip on raised face (Other options available)
Rod Diameter*	A.....	Rod Diameter 'A' mm
Top End Diameter*	B1.....	Top End Diameter 'B1' mm
Hot End Diameter*	B.....	Hot End Diameter 'B' mm
Tapered Length for Thermowell	0-500(Define Dia between 0 to 500)	Step Length
Velocity Collar*	OD.....	Velocity Collar OD (Write 0 if Velocity Collar Not Applicable)
Velocity Collar Thickness*	Thk.....	Velocity Collar Thickness (Write 0 if Velocity Collar Not Applicable)
Bore ID*	d.....	Bore ID 'd' mm
Tip Thickness*	t.....	Tip Thickness 't' mm
Options.....		(For options refer table A)

*Please consult our marketing team for any non standard dimensions. Note: For field which are not applicable, select 'XX' or enter '0' whichever is mentioned.