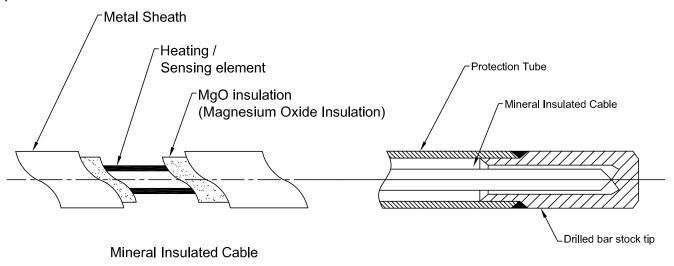




- Ideal for application where pressure and flow are not major concern.
- Economy installation..
- Cost is generally lower than drilled bar stock thermowell and longer length is applicable.

Sensing elements are produced MgO sheath elements with diameter 6.0 mm and base plate spring loaded for all assembly. The thermocouple element can be changed through removal of the terminal block while the assembly is still in service. And it has been covered by protection tube.



The protection tube can be made of various stainless steels or nickel alloys depending on the specific application service requirements and typical wall thickness about schedule 40 or schedule 80 which end at drilled bar stock tip to hold the MgO sheath. The protection tube is usually mounted in the application with a fixed bushing or flange mounted to the tube. Metal alloy protection tubes are replacement tubes for thermocouple assemblies. These tubes are for general purpose industrial applications.

Termination of the protection tube assembly is typically polypropylene or cast aluminum screw cover head for enclosure of the thermocouple connections. Polypropylene head type is more preferable type than cast aluminum head because polypropylene will prevent heat lost which will occurs when it is passing through to housing.

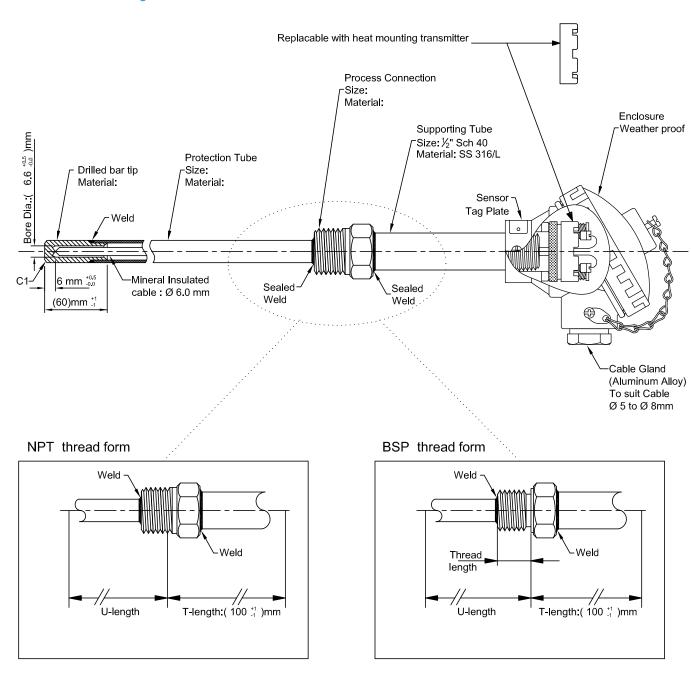
Metal protection tube style assemblies are most commony utillized in medium to high temperature industrial applications. Roof sensors, boiler temperatures, heat treatment and other industrial applications are typical.

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Dimensional drawing c/w thread connection



Protection Tube

Protection tube *	Outside Diameter	Material*
Tube , wall thickness 1 mm	Ø 9.5 mm	SS 316/L
Tube , wall thickness 1 mm	Ø 12.7 mm	SS 316/L
Pipe: 1/4" Sch 40/80	Ø 13.7 mm	SS 316/L
Pipe: 3/8" Sch 40/80	Ø 17.1 mm	SS 316/L
Pipe: ½" Sch 40/80	Ø 21.3 mm	SS 316/L

^{*}Note: Other protection tube size and material will be available upon request.

Process Connection (Threaded Type)

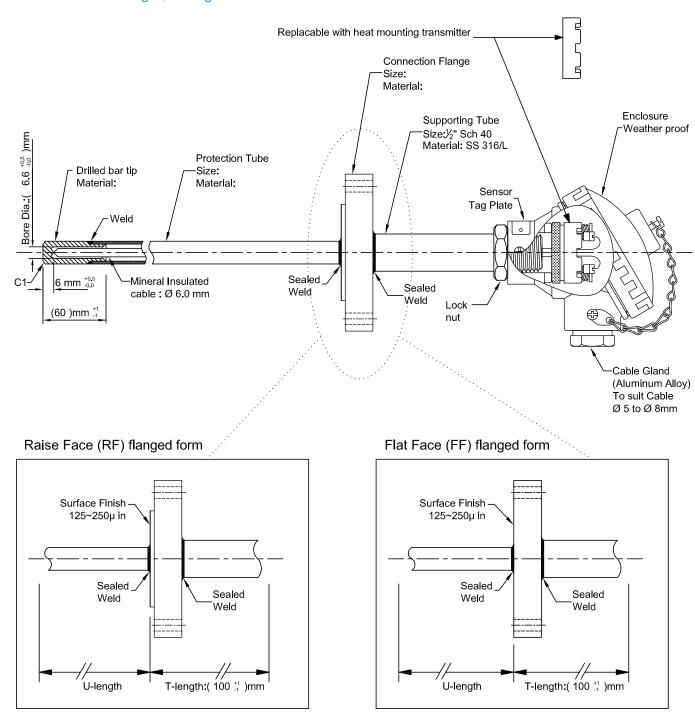
Process Connection	Hexagonal F/F	Protection tube size (Recomended)
½" NPT	F/F 28.5 mm	Ø 9.5 mm ~ Ø 13.7 mm
½" BSP	F/F 28.5 mm	9.5111111 13.7 111111
¾" NPT	F/F 28.5 mm	Ø 9.5 mm ~ Ø 17.1 mm
3/4" BSP	F/F 31.75 mm	9.5 11111
1" NPT	F/F 35 mm	Ø 9.5 mm ~ Ø 21.3 mm
1" BSP	F/F 35 mm	20,0 mm 21,0 mm

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Dimensional drawing c/w flange connection



Process Connection (Flanged Type)

Flange size and pressure rating *	Material*			
1" 150# , 300# and 600#	SS 316/L			
1-1/2" 150# , 300# and 600#	SS 316/L			
2" 150# , 300# and 600#	SS 316/L			

*Note : Other flange size and material will be available upon request.

Enclosure / Housing Type	Material	Colour
	Polypropylene	White
Weather Proof	Die Cast Aluminum	Blue
	Die Cast Aluminum	Silver

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Modelling data sheet

	r Type											
	oe K T		ocour	ole						Standard Temperature Range: -200 to 1250 °C		
	oe J Th									Standard Temperature Range: -200 to 750 °C		
	oe T Th									Standard Temperature Range: -200 to 350 °C		
	oe E Ti									Standard Temperature Range: -200 to 900 °		
R RT	D (Re	sista	nce Te	empera	ature	Detect	or)			Standard Temperature Range: -200 to 850 °		
То	lorono	• Tv	'n									
	leranc Them			Class	1 IF	EC 6058	4					
'	1							may v	aries b	ased on sensor type)		
	Ì									** *		
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	INITS					Single-2	aries based on sensor type)					
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			e jund									
					d (St	d for RT	D)					
		l	Grour Expos									
		-	LAPO	seu								
			Proce	ess Co	nne	ction Si	ze					
					•	Threade		. ,				
			PC7			(Flange		,		/L , it may varies based on sensor type)		
				(14016	5 . LIII	e uala	ioi ie	ierenic	be Offig	, it may valies based on sensor type /		
				Mater	ial							
				S316	SS (316/L						
					Due		A. da a	-!				
						_	tion tube size and material ubing Ø 12.7mm (OD) x Ø 10.2 mm (ID) , SS 316/L					
								Note: the data for reference only, it may varies based on sensor type)				
						Protec	_					
						XXXX	(e.ç	3 500	mm =	500)		
							Exte	nsio	n tube	size		
							ST Seamless pipe: 1/2" Sch 40 , SS 316/L					
								(No	te : the	e data for reference only , it may varies based on sensor type)		
								Exte	nsion	tube length		
									1	nm (STD)		
									(Not	$\ensuremath{\text{e}}$: the $% \ensuremath{\text{data}}$ for reference only , it may varies based on sensor type)		
									Con	ection head		
					1					Weather Proof , Material : Die Cast Aluminum , Colour: Blue		
										Weather Proof, Material: Polypropylene, Colour: White		
									T	Transmitters (Note: Mounting thread to be specified by customer		
									Z	None		
										Documents (optional)		
					1					In-house Calibration Certificate		
										RTD, PT100 (@ Class A , Class B)		
										Thermocouple (Type K , J, T, E)		
										1 One Point (-25 to 500°C) 2 Two Points (-25 to 500°C)		
										3 Three Points (-25 to 500°C)		
	1									-		
							1	ı	1	Moto Man Cingles / Cingles Collibration report is suchiable up		
										(Note: Non-Singlas / Singlas Calibration report is avaliable up		
										request) Order Code		

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