

		<b>THERMOCOUPLE AND THERMOWELLS OR PROTECTING TUBES</b> <b>Doc. No. T-9035191-2001</b>		<b>Technical Data Sheet</b> <b>T-9035191 T606 Sheet 1</b>									
REV				REV	REVISIONS	DATE	BY	CHK'D	APP'D				
0	General	1 Tag Number	See sheet 2	0	Issued for Approval	5/29/2019	JFM	JFM	RR				
0		2 Service Description	See sheet 2										
0		3 P&ID Number	See sheet 2										
0		4 Quantity	(2) Two										
0	Design Conditions	5 Max design pressure		Sensing Element	Thermocouple type	K (CHROMEL-ALUMEL)		Lead Wire & Head Extension	Extension type	Nipple/ Union			
0		6 Max design temp	1,200° C		Wire nominal size	MFR. STD.	Ext wire nom size		MFR STD				
0		7 Max operating pressure	0.28 kg/cm <sup>2</sup> (g)		Measuring junction	UNGROUNDING	Extension length		5"				
0		8 Max operating temp	980° C		Element type	SIMPLEX	Nipple-union/nipple size		1/2"				
0		9 Max fluid velocity limit			Sheath outside dia	1/4" O.D.	Nipple-union/coup mat		N/A				
0		10 Ambient temperature	12.8 to 36.1° C		Sheath material	316 SST	Shield-ground wire		N/A				
0		11 Elec. Area Classification	Zone 2, Gp IIC, T3		Spring loaded	YES	Coating armor mat		N/A				
0		12 Encl enviro protection	IP65		Sheath insulation mat	MAGNESIUM OXIDE	Extension wire mat		Chromel/ Alumel				
0		13 Enclosure cert/approval	ATEX		Fitting mat / conn. size	SS 1/2"	Ext wire insulation mat		Teflon				
0		14 Elec. protect. method	Flameproof Ex d		Elem compliance std	N/A	Ext wire length		6 inch				
0		Thermowell or Protecting tube	15 Thermowell type		N/A	Connection Head	Conn. head required		Ex "d", Flameproof Type		Special Requirement	Well compliance std	N/A
0			16 Construction Type		N/A		Conn. head cover style		Screwed Cap w/ Chain	Conn. head compl. std		N/A	
0			17 Shank Style		N/A		Conn. Head Compl. Std.		ATEX	Term. block compl. std		N/A	
0			18 Thermowell Bore Diam.		N/A		Enclosure material		Cast Aluminum	Well examination		N/A	
0	19 Thermowell Material		N/A	Element end conn. size	1/2" NPT		Wake freq calcs	No					
0	20 Process Conn. Size/Type		2" CL 150# RF flanged	Elec. conn. size/qty	1/2" NPT		Retractable	No					
0	21 Element conn. Size		1/2" MNPT	Term. Block type	Simplex								
0	22 Flange Material		316/ 316L SST	Grounding terminal	N/A								
0	23 Flange Facing		Mfr. Std.	Term. block/term. mat	Ceramic/ Brass compression								
0	24 Flange Finish		Mfr. Std.										
0	25 Flange Rating		CL. 150# RF										
0	26 Flange connection		2"										
0	27 Prot. Tube Ins. Lgth. "U"		20"										
0	28 Prot. Tube Material		C98 Ceramic Alumina										
0	29 Prot. Tube O.D.	1 1/16"											
0	30 Prot. Tube I.D.	7/16"											
0	31 Prot. Tube Comp. Std.	Mfr. Std.											
0	32 Prot. Tube Proc. Conn.	1" MNPT											
0	As Built Information	33 Manufacturer	ThermoSensorsCorp										
0		34 TC Model No.	Y108-CU4K30										
0		35 Thermowell Model	N/A										
0		36 Prot. Tube Model	C98716FS-20-SS										
0		37 3pt. Factory Calib.	400°, 800°, and 1,200° C										
0		38 Factory Range	0° to 1,399° C										
0		39 TSC Assy. Part No.	See below										
0		40 Y108-CU4K30-C98716FS-20-SS, w/2"Y150#RF-316SS											
0		41											
0		42											
0		43											
0		44											
0		45											
0	Notes: Reference TSC quotation no. 1. Thermocouple and Protecting tube shall be connected using a carbon steel nipple, union, nipple arrangement. 2. UOPC Mechanical shall provide a 2" CL 150# RF (C.S.) flange with 1" FNPT tapping for protecting tube connection.												
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