

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

# Thermowells

Thermowells are used to provide an isolation between a temperature sensor and the environment, either liquid, gas or slurry. A thermowell allows the temperature sensor to be removed and replaced without compromising either the ambient region or the process.

Care must be taken in determining the material used for the thermowell as well as other factors. Thermo Sensors offers design assistance that includes pressure, temperature and or corrosion as well as vibration effects of the fluids. This vibration can cause well stem failure.



Thermo Sensors thermowell materials include:

- Carbon Steel
- 304 & 316 Stainless Steel
- Monel
- Brass

Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.

## Pressure - Temperature Ratings

### Pressure-Temperature Rating\* lbs. per sq. Inch

Well Type	Material	Temperature °F						
		70°	200°	400°	600°	800°	1000°	1200°
Series a (All)	Brass	5000	4200	1000	---	---	---	---
Series B (All)	Carbon Steel	5200	5000	4800	4600	3500	1500	---
Series S (All)	304SS	7000	6200	5600	5400	5200	4500	1650
2C, 4C	316SS	7000	7000	6400	6200	6100	5100	2500
2D, 4D	Monel	6500	6000	5400	5300	5200	1500	---

\*Values based on allowable stress levels published in the 1956 edition of the a .S.M.E. Boiler Code, Section VIII.

### Pressure-Temperature Rating\* lbs. per sq. Inch

Well Type	Material	Temperature °F						
		70°	200°	400°	600°	800°	1000°	1200°
1C, 3C, 1D, 3D	Brass	5300	4750	1100	---	---	---	---
	Carbon Steel	5950	5750	5450	5250	4000	1750	---
	304SS	7800	7050	6400	6150	6000	5190	1875
	316SS	7800	7800	7250	7100	6950	5800	2720
	Monel	7450	6850	6150	6100	5940	1750	---

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**Pressure-Temperature Rating\* lbs. per sq. Inch**

Well Type	Material	Temperature °F						
		70°	200°	400°	600°	800°	1000°	1200°
Series F (All)	Carbon Steel	-----	Up	-----	To	2500#		
Series G	304SS	-----	Up	-----	To	-----	2500#	
(All)	316SS	-----	Up	-----	To	-----	-----	2500#
Series V (All)	Monel	-----	Up	-----	To	2500#		

\*Values based on allowable stress levels published in the 1956 edition of the a .S.M.E. Boiler Code, Section VIII and recommendations of ASA B 16, 5-1957.