

# Custom Fittings



## Designed specifically for your application

Temprel has been manufacturing thermocouples in Boyne City, MI for over 50 years. Over the years, we discovered that our customers often require a stack of several standard fitting connections to properly instrument and execute their test requirements. This stack-up of standard (off-the-shelf) components resulted in additional setup time and material costs for our customers. Unexpected downtime can also be encountered due to fluid leaks caused by the excessive fitting connections within the system.

Temprel answered this need by investing in CNC machines and hiring local machining talent. Since 1990 we've been growing with our customers by providing custom fittings from prototype to production. Call or email us today to discuss your application.



### Prototype or Production

We grow with you by manufacturing custom products ranging from 1 unit to 10,000 units.



### Material Selection

Temprel custom fittings offer 50+ metals & plastics, and 10+ surface finishes.



### Rapid Turnaround

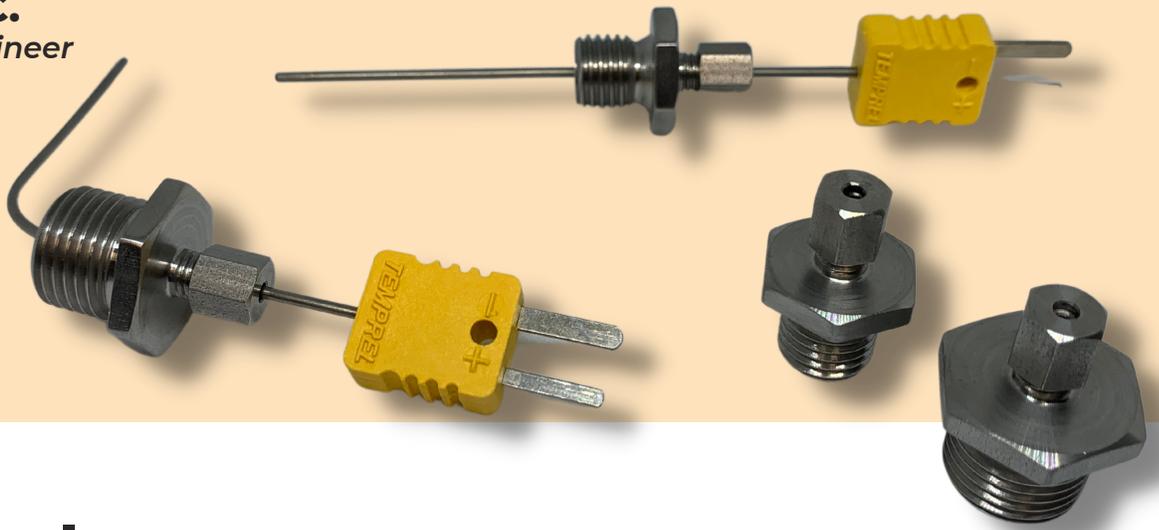
High-quality parts, custom made to your specifications in as little as 2-3 weeks. Provide your drawing or we'll help create one.



We've saved so much time having a custom fitting. Our team can now spend more time collecting quality data vs. troubleshooting our test setup.



**Todd C.**  
Test Engineer



## Customer Issue:

An off-road vehicle manufacturer requested a more efficient, repeatable way to measure engine oil and differential gear oil temperature. Their original method was to drill a hole through their OEM drain plug, insert a solid wire (Temprel T52 Exposed Junction) thermocouple through the hole, then epoxy the wire thermocouple within the drain plug. Issues Included:

- The process was labor and time intensive
- The multiple threaded connections were subject to leak points
- This process was not 100% repeatable, which caused inaccurate test data

## Temprel Solution:

Temprel engineered a custom fitting solution that utilized the customer's standard thread specification found on their OEM (oil and differential) drain plugs.

Key benefits from Temprel's engineered solution included:

- Reduced customer setup time by installing a plug-and-play one-piece solution
- Reduced customer setup and machine time
- Reduced package dimensions
- Reduced threaded connections to prevent leak points
- Increased probe placement repeatability

For more Temprel solutions visit [www.temprel.com/about/custom-fittings](http://www.temprel.com/about/custom-fittings)

### Contact Us

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