



## TMAX Wet Seal Kit

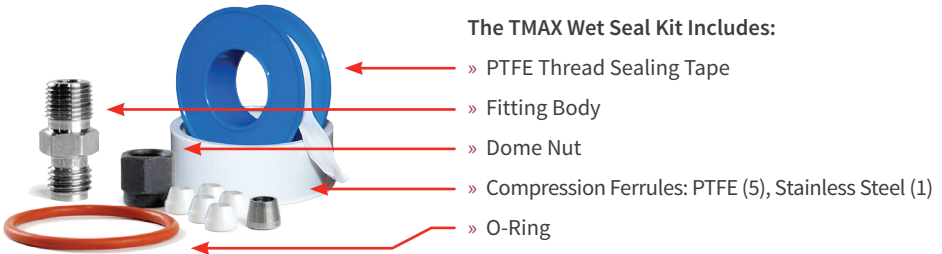
Seal kit for use with the ThermoVault Max for wet applications

## Product Overview

The TMAX Wet Seal Kit is used with the ThermoVault Max thermal barrier for wet applications up to 250 °C (482 °F).

### Compatible Data Loggers:

- » HiTemp140-FP
- » HiTemp140-PT



## Getting Started

**Installing the O-Ring:** The O-Ring ensures a tight seal which prevents liquid from entering the inside of the barrier. O-Ring maintenance is a key factor when properly caring for the ThermoVault Max. Please refer to the application note “O-Rings 101: Protecting Your Data Logger,” found on the MadgeTech website, for information on how to prevent O-Ring failure.

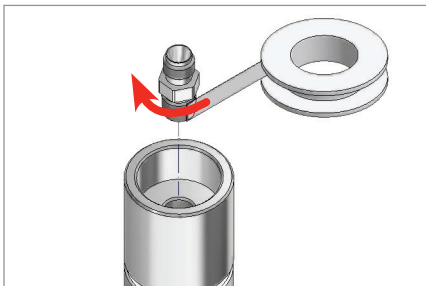


1. Unscrew the endcap of the thermal barrier.



2. Stretch the O-Ring over the endcap so it sits in the groove just beneath the knurled shoulder.

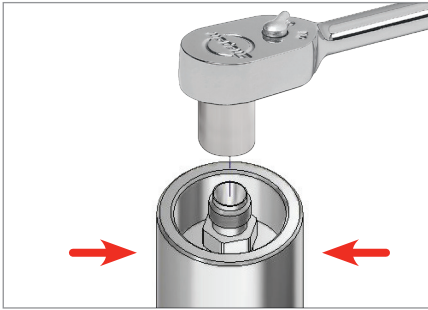
**Securing the Compression Fitting:** The compression fitting is used with the HiTemp140-FP and HiTemp140-PT data loggers to ensure a water tight seal.



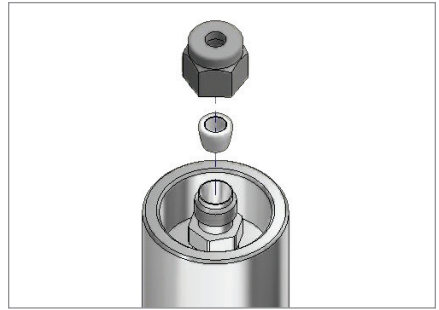
1. Wrap the provided PTFE thread sealing tape around the Fitting Body threads.



2. Screw the Fitting Body into the end of the stopper assembly (finger-tight).



3. Holding the smooth metal end of the stopper, use a 7/16" wrench or socket to tighten the body into the stopper.



4. Insert the Compression Ferrule into the Fitting Body and hold it in place loosely with the Dome Nut.

**Compression Ferrule Note:** The stainless steel Ferrule provides the most reliable seal, but becomes permanent crimped onto the probe. The PTFE Ferrule will become more deformed with multiple uses and will eventually require replacement. It's benefit is that it allows easy removal and repositioning of the probe.



5. Feed the data logger probe through the Compression Fitting until the base of the probe is tightly against the Dome Nut.



6. Tighten the Dome Nut to secure the data logger in place (finger-tight).



7. Insert the data logger and stopper assembly back into the thermal barrier and screw the endcap of the thermal barrier until the O-Ring is no longer visible.

# General Specifications

<b>Operating Environment</b>	Refer to the Time vs. Temperature Chart
<b>IP Rating</b>	IP68 rating may be obtained with seal kit installed from -60 °C to 250 °C. Rapid temperature fluctuations may cause ingress.
<b>Compatible Data Loggers</b>	HiTemp140-FP and HiTemp140-PT
<b>Max Sustainable Pressure</b>	60 PSIA

## Time vs. Temperature Chart

Ambient Temperature	Maximum Exposure Time (liquid)
-60 °C (-76 °F)	319 minutes
-40 °C to +140 °C (-40 °F to +284 °F)	Indefinitely
150 °C (302 °F)	542 minutes
160 °C (320 °F)	414 minutes
170 °C (338 °F)	345 minutes
180 °C (356 °F)	300 minutes
190 °C (374 °F)	266 minutes
200 °C (392 °F)	241 minutes
210 °C (410 °F)	221 minutes
220 °C (428 °F)	204 minutes
230 °C (446 °F)	190 minutes
240 °C (464 °F)	178 minutes
250 °C (482 °F)	168 minutes

*Specifications subject to change. See MadgeTech's Terms and Conditions at [www.madgetech.com](http://www.madgetech.com)*



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