

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Class 150 Pressure & Temperature Sensor

## Class 125 and Class 150

The Class 150 instrument is a combined pressure and temperature sensor that is fully compatible with aqueous media. The sensor is based on MEMS sensing technology in combination with corrosion-resistant coating on the sensor chip.

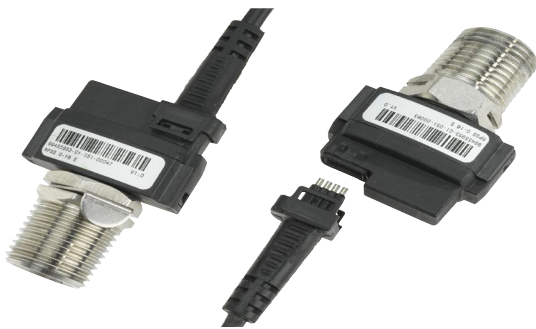
This sensor is used on the following Smart Strainer models:

691MF SM  
692MF SM  
758 SM  
758G SM  
791MFA SM  
792MFD SM  
792MFH SM



## Features

- Pressure and temperature measurement in one sensor for easy and cost-efficient installation
- MEMS technology
- Compatible with aqueous media



### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.

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## Specification

Call customer service if you need assistance with technical details.

Pressure	
Measuring Range	0–232 psid
Accuracy ( $\pm 1 \sigma$ ) 15°C–90°C (59°F–194°F)	$\pm 1\%$ FS
Accuracy ( $\pm 1 \sigma$ ) 0°C–120°C (32°F–248°F)	$\pm 1.5\%$ FS
Temperature	
Measuring Range	0°C–120°C (32°F–248°F)
Accuracy ( $\pm 1 \sigma$ ) 15°C–90°C (59°F–194°F)	$\pm 0.5\text{K}$
Accuracy ( $\pm 1 \sigma$ ) 0°C–120°C (32°F–248°F)	$\pm 1\text{K}$
System Conditions and Environment	
Liquid Types	Aqueous Media Compatible with Wetted Materials
Liquid Temperature, Operation	0°C–120°C (32°F–248°F)
Liquid Temperature, Peak	-25°C to +120°C (-13°F to +248°F) Non-freezing
Ambient Temperature, Operation	-25°C to +60°C (-13°F to +140°F)
Ambient Temperature, Peak	-55°C to +90°C (-67°F to +194°F)
Humidity, Relative	0%–95%, Non-condensing
Maximum System Pressure	24 bar (348 psi)
Burst Pressure	30 bar (435 psi)
Electrical Data	
Power Supply	5 VDC ( $\pm 5\%$ ), PELV Grounding of Sensor Supply Required
Output Signal	Ratiometric
Power Consumption	Approx. 75 mW
Maximum Cable Length	3 m (9.10 ft)
Material	
Sensing Element	Silicon-based MEMS
Sealing	EPDM O-rings, FKM O-rings, or EPDM Sealing Cap with FKM O-rings
Housing	Composite, PPS
Wetted Material	Corrosion-resistant Coating, PPS, EPDM, or FKM Adapter ISO 7/1 - R1/2" and NPT 1/2", EN 1.4408 (AISI 316)
Environmental Standard	
Enclosure Class	IP44
Temperature Cycling	IEC 68-2-14

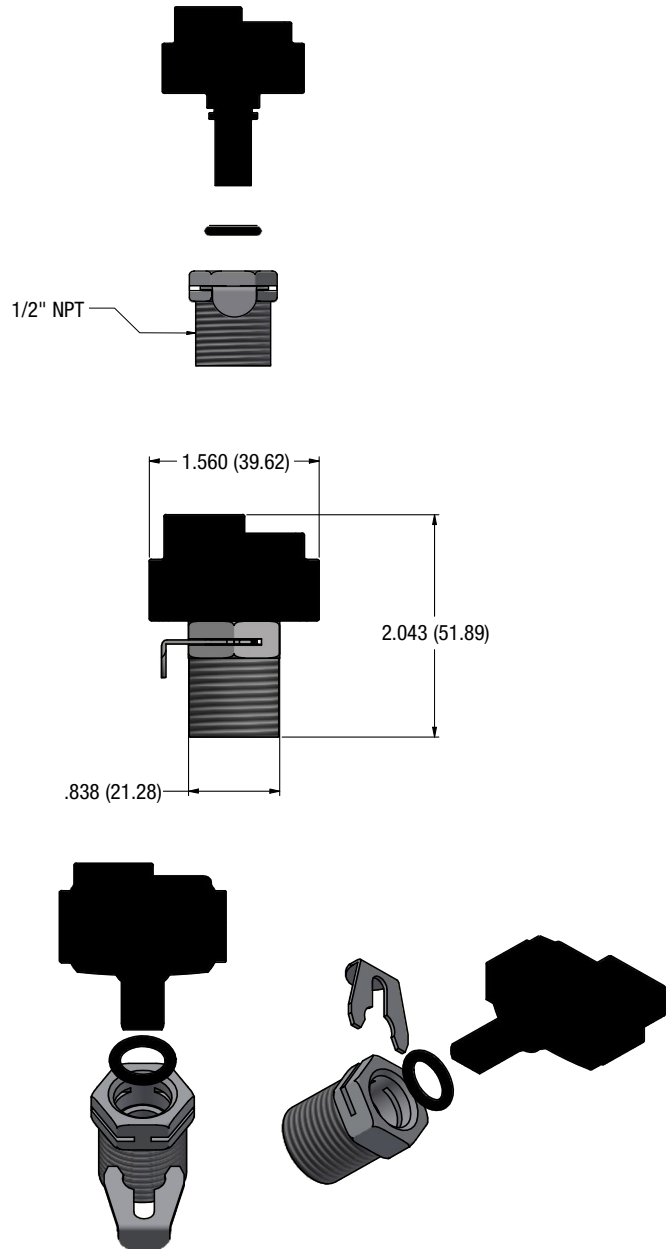
## 1/2-14 NPT

**Seal:** Pipe Thread

**Mating Geometry:** ANSI B1.20.1

**Installation Torque:** Two to three turns from finger tight  
32-40 ft-lbs

**Weight:** 1.86 oz.



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