DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 35C

BALDWIN™ - Series

Application

The Baldwin™-Series Model 35C Heated Filter Probe is designed to be mounted on a stack or duct for use in high particulate applications. Its primary function is to provide a heated environment to maintain sample gas temperatures above dewpoint and remove particulate material from the gas sample. Model 35C features a standard 10 micron sintered stainless steel filter element, a circuit board regulated heater jacket, an integral calibration gas port on both sides of the filter element, a NEMA 4 enclosure, and a circuit board controlled blowback system to clean the filter element.

General Specifications

Probe	
Calibration	Integral calibration on both sides of filter element
Heater Jacket Temp Control	Circuit board regulated
Connections	1¼" male pipe nipple mount; ½" male pipe thread adapter
Tube Connectors	3/8" sample line, 1/4" calibration gas, 3/8" blowback
Thermocouple	Type K
Blowback	Single direct; 2-way solenoid blowback / calibration valve
Blowback Tank	16 ga. SS, 4" x 8", leak checked, pressure tested
Heat-shrink Boot	7" length, 2.75" min expanded I.D. nose
O-rings	Viton®
Gaskets	Graphoil®
Dimensions	14 x 15 x 8 in. HWD (w/o Stinger probe) 36 x 38 x 20 cm HWD
Weight	37 lbs 17 kg

Operating Specifications

Calibration Gas Requirement	20 psig, 6-10 LPM
Probe Operating Temperature	375ºF (190ºC)
Input Voltage	110 (220 optional) VAC, 50/60 Hz
Blowback Duration	5 sec standard (30 sec maximum)
Blowback Frequency	Every 24 hours standard (range 10 minutes to 99 hours)
Blowback Valve	110 standard (220 optional) VAC, 50/60 Hz
Blowback Flowrate	14 scfh
Instrument Air for Blowback	Min 50 psig, Max 90 psig

Material Specifications

Enclosure Material	NEMA 4 Steel (standard); NEMA 4X Stainless Steel (optional)
Heater Type	Silicone rubber blanket with metal snap closures (standard) Heater bands, 350W (optional upgrade)
Enclosure Insulation Material	⅛" thick silicone, medium density
Filter Chamber Material	316 stainless steel
Filter Element Types	10 micron sintered SS (standard) 5, 20 micron sintered SS 2 micron ceramic 2 micron SS screen mesh

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REVN	DATE	DESCRIPTION	DRAWN	APPROVED
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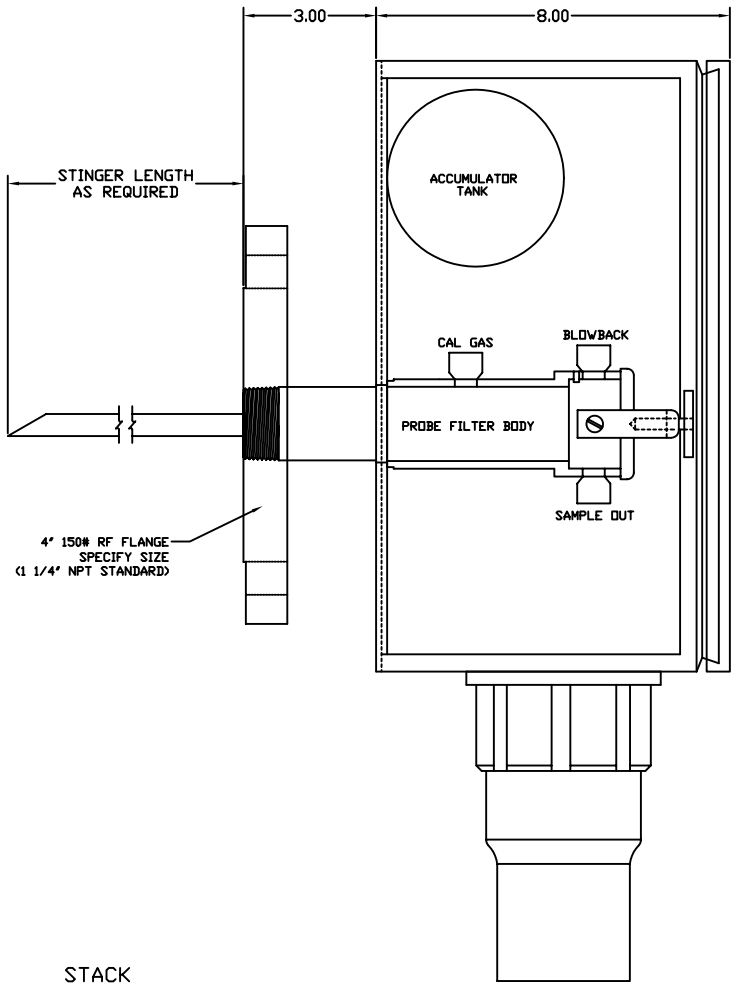
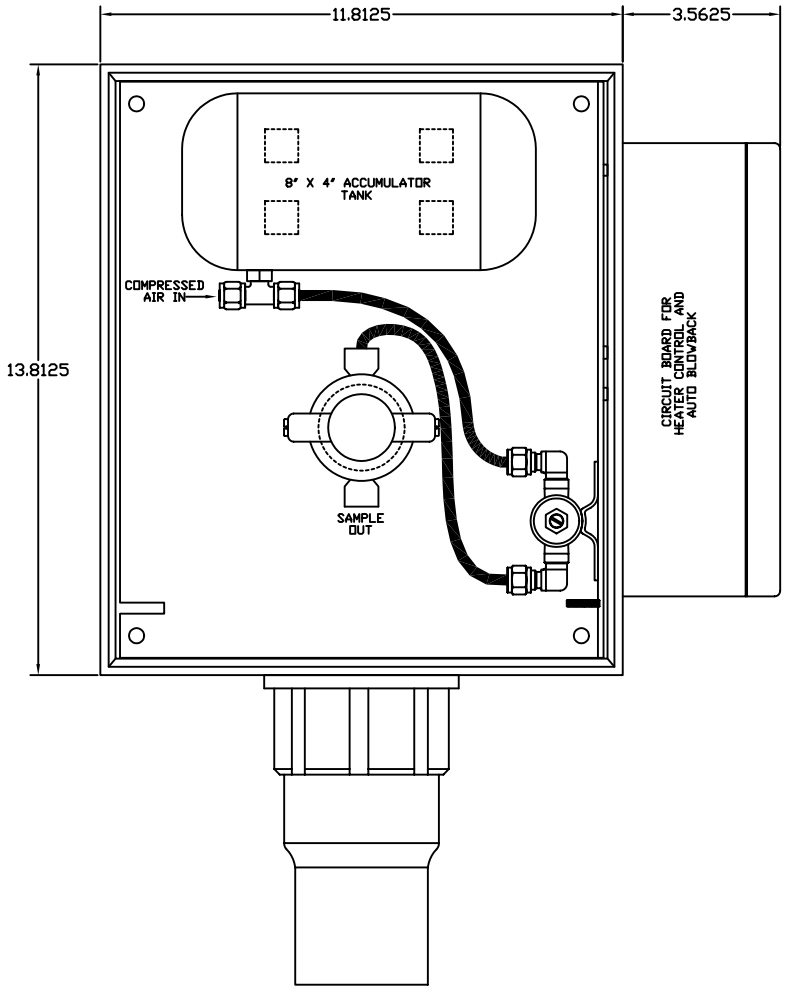
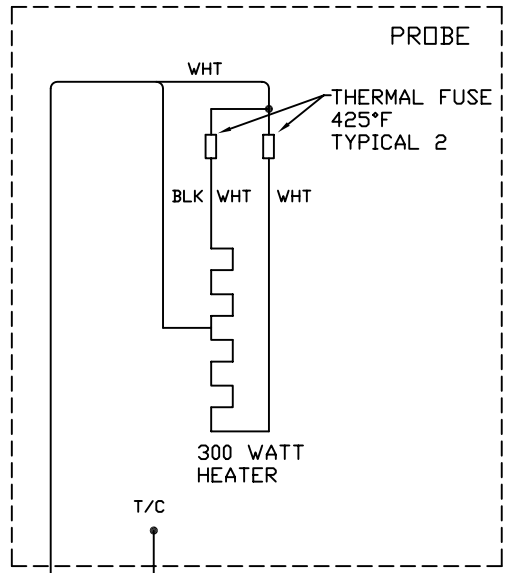
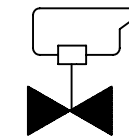
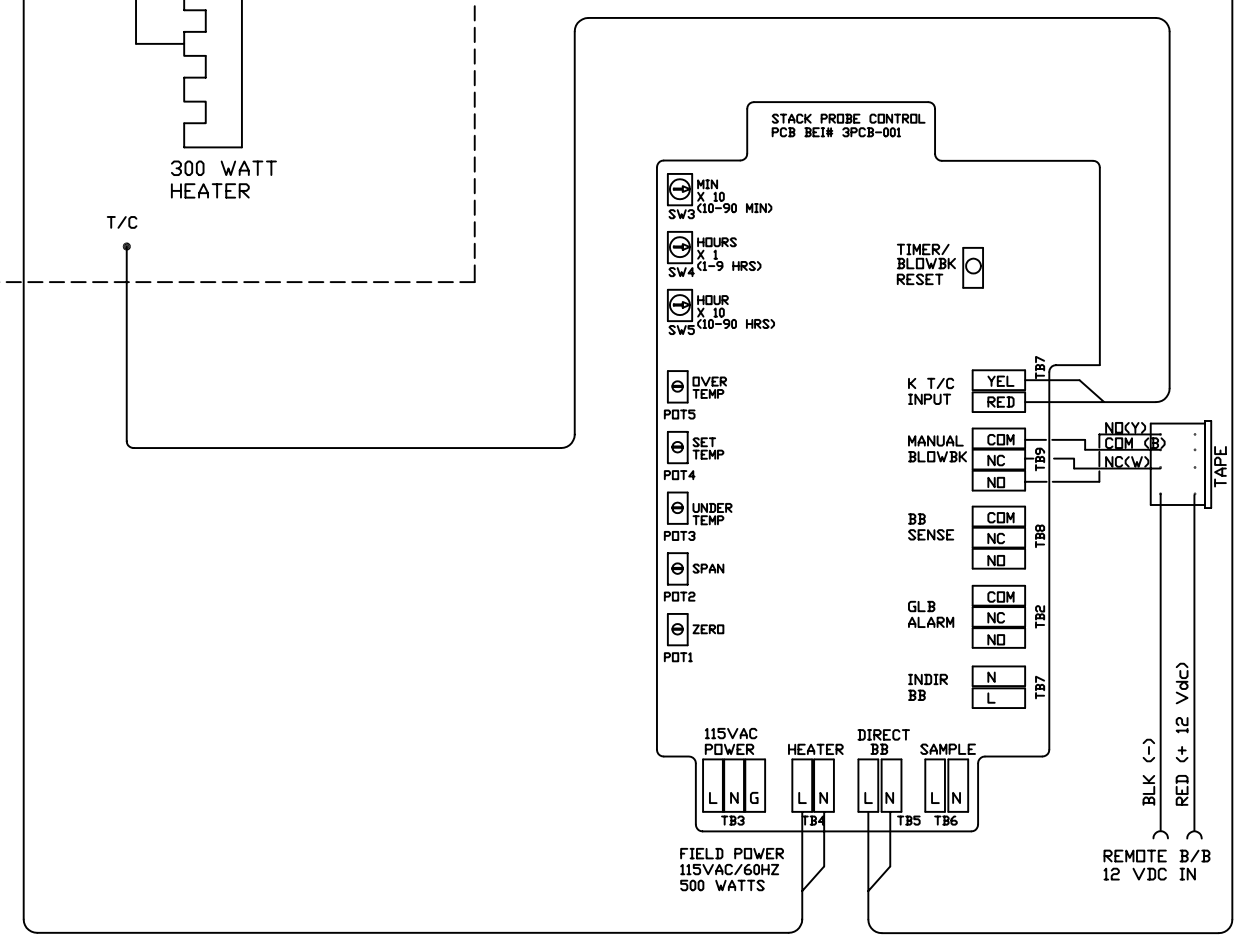
A	03/01/04	REDRAWN TO SCALE. UPADATED TTB.	RAW	RAW

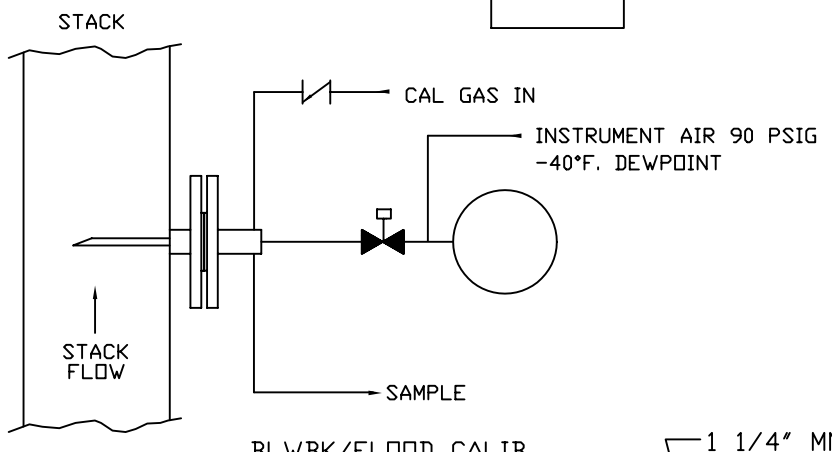




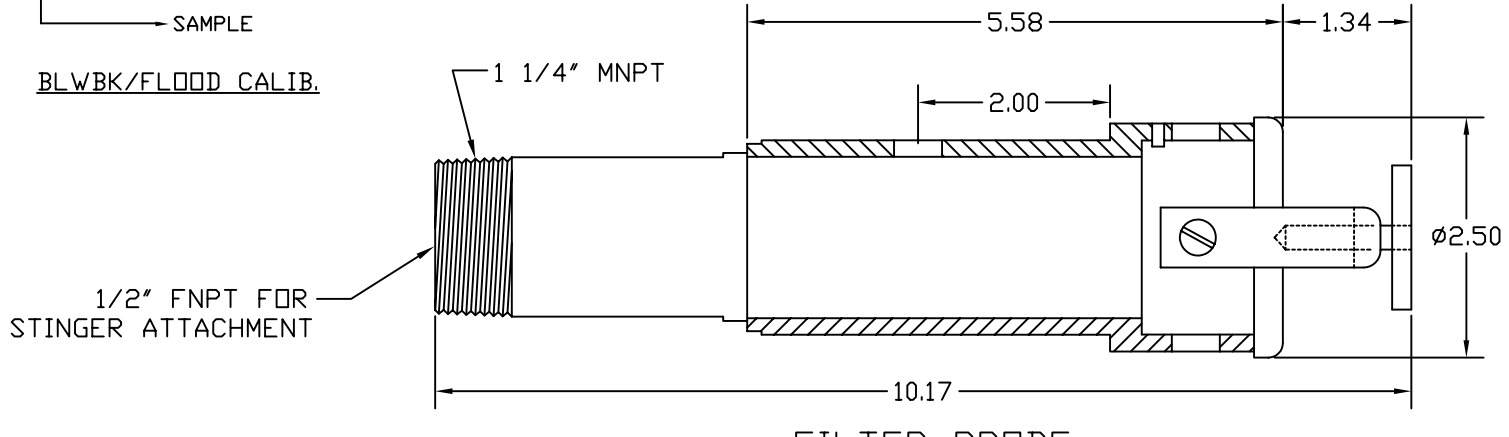








BLWBK/FLOOD CALIB.



FILTER PROBE
(SCALE = 1/2")

ITEM	QTY	DESCRIPTION	MANUF.
USED FOR:		MODEL NUMBER:	
		DESCRIPTION:	

UNLESS OTHERWISE SPECIFIED
TOLERANCE DECIMALS
1 PLACE = ±.02
2 PLACE = ±.02
3 PLACE = ±.010
SURFACE FINISHES 125
ANGLES = ±5°
HOLES = +.003/-.001
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DESIGN DIMENSIONS ARE IN INCHES
( ) DENOTES MILLIMETER EQUIVALENTS WHEN USED

DRAWN BY: JD DATE: 05/12/02
APP'D: DATE:
MATERIAL:
FINISH:

BALDWIN, INC.

PART DESCRIPTION
MODEL 35C HEATED FILTER PROBE ARRANGEMENT DRAWING

SIZE	SCALE:	DRAWING/PART NO.:
B	NTS	MODEL 35C

CAD DIR: S:\S&M\DWGS\HEATED FILTER PROBE | SHEET 1 OF 1

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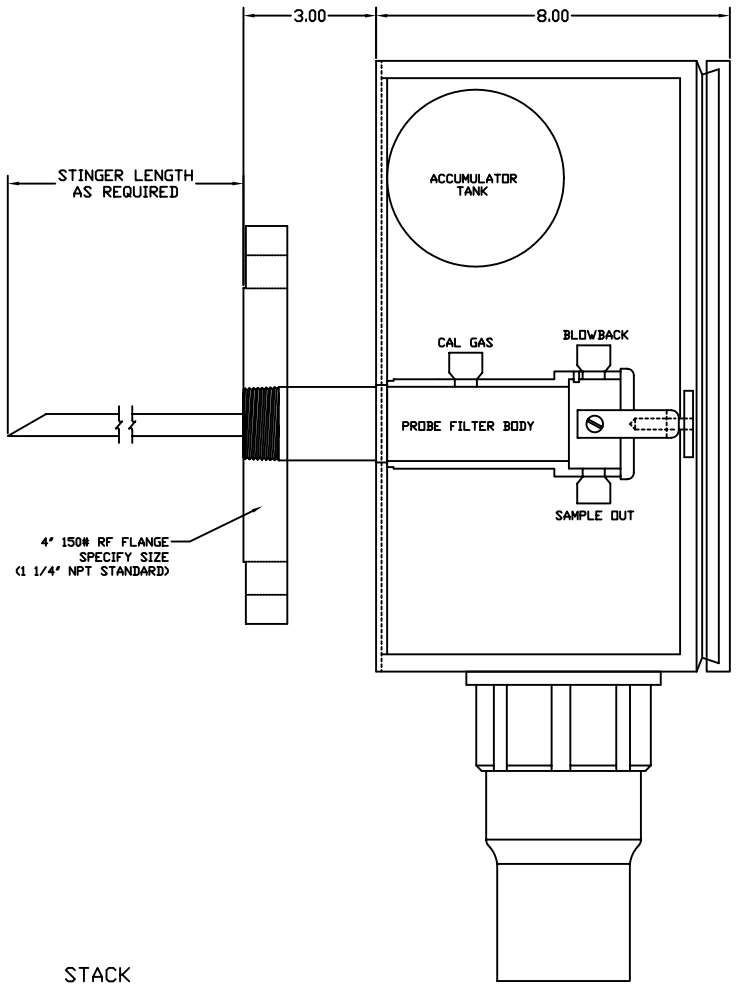

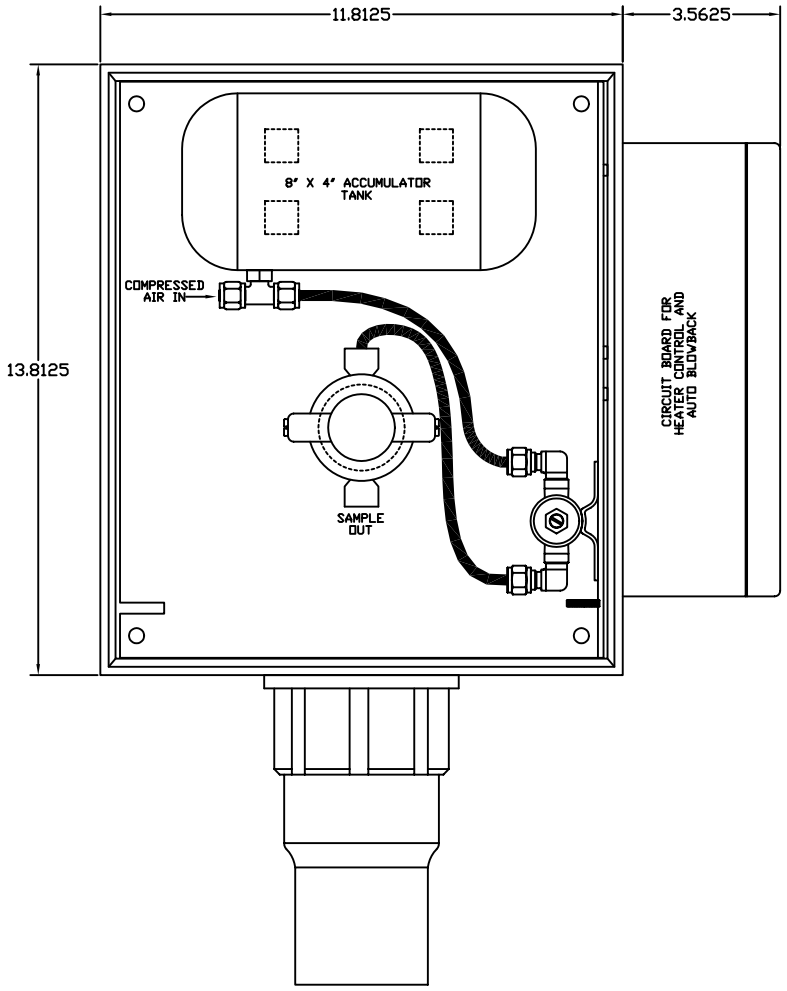

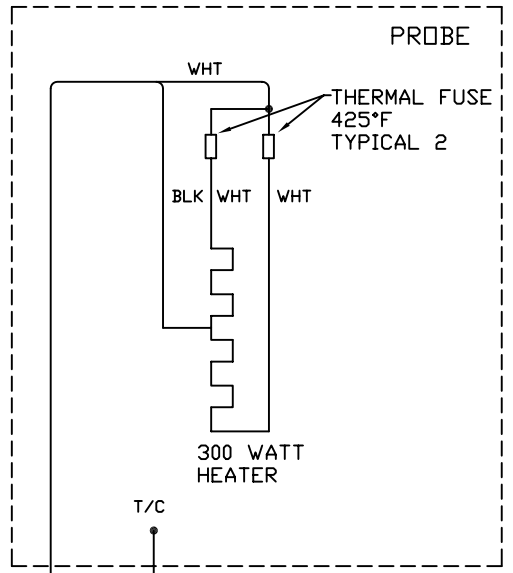

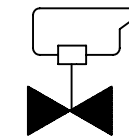

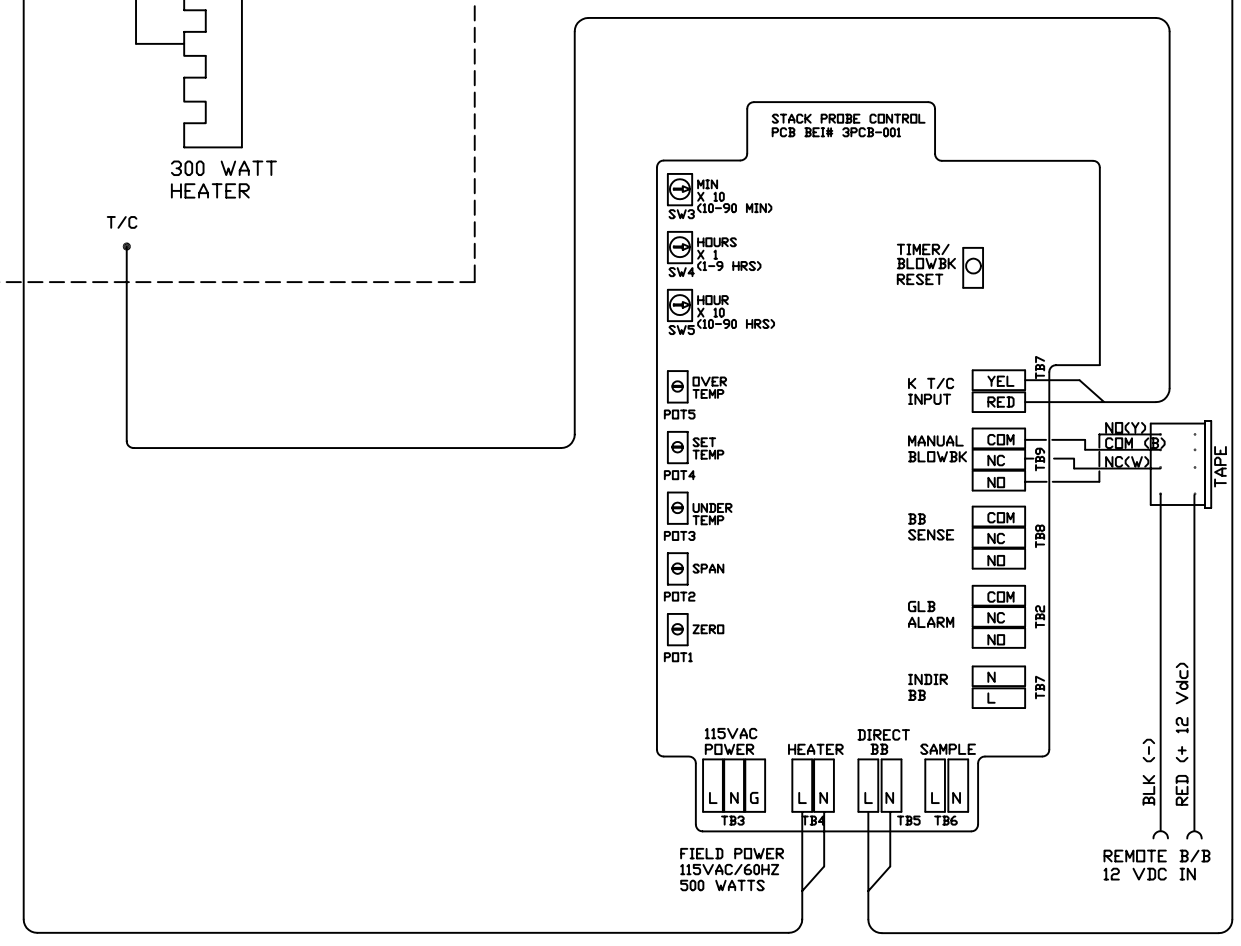

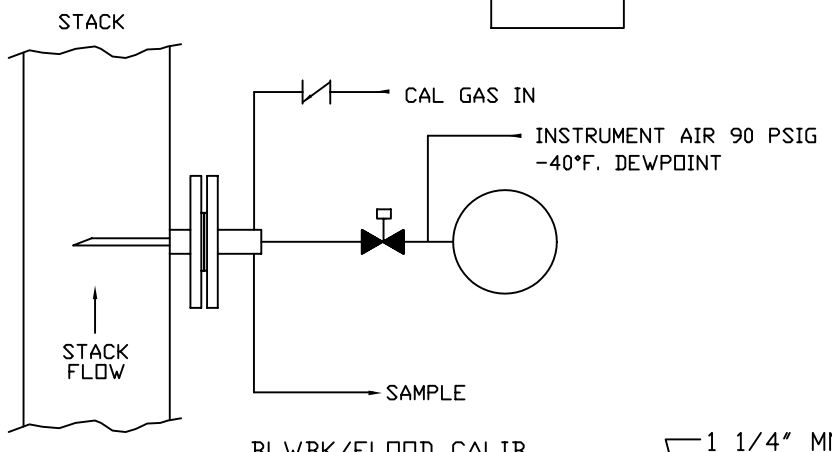

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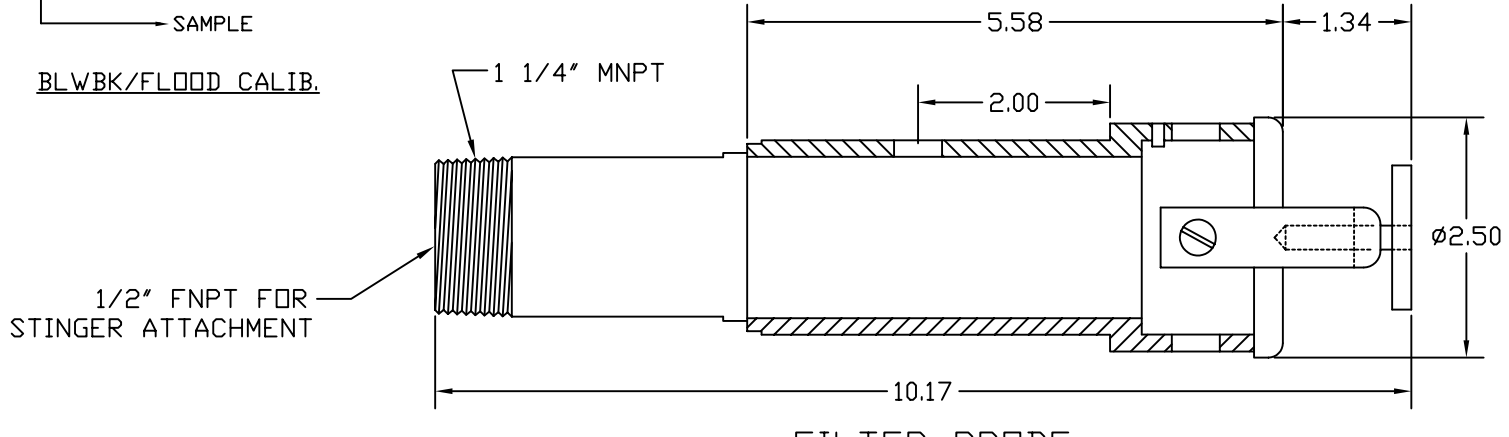

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