

DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 31

Application

The Baldwin™-Series Model 31 Heated Filter Probe is a handheld portable system specifically designed for stack testers. 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 31 features a standard 10 micron sintered stainless steel filter element, a self regulated heater jacket, and an aluminum canister enclosure.



General Specifications

Probe	
Heater Jacket Temp Control	Self regulated
Connections	1¼" male pipe nipple mount; ½" male pipe thread adapter
Tube Connectors	3/8" sample line, 1/4" calibration gas
Thermocouple	Type K
Heat-shrink Boot	7" length, 2.75" min expanded I.D. nose
O-rings	Viton®
Gaskets	Graphoil®
Dimensions	6 x 14 x 6 in. HWD (w/o Stinger probe) 15 x 36 x 15 cm HWD
Weight	14 lbs 6 kg

Operating Specifications

Probe Operating Temperature	375°F (190°C)
Input Voltage	110 standard (220 optional) VAC, 50/60 Hz

Material Specifications

Enclosure Material	Aluminum
Heater Type	Silicone rubber blanket with snap closures
Oven Insulation Material	½" 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

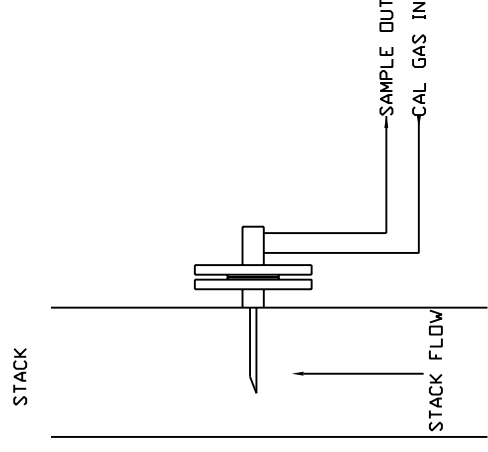
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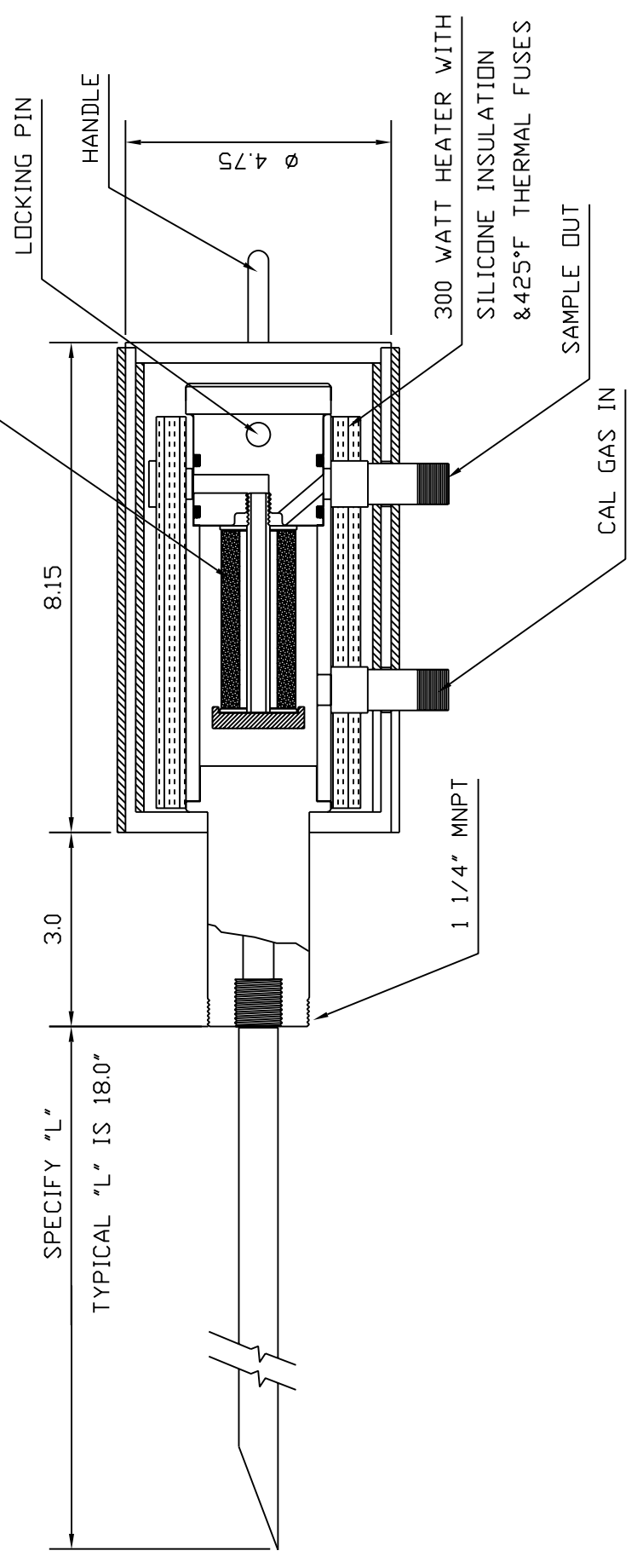


REV#	DATE	DESCRIPTION	DRAWN	APPROVED
0	00/00/00	INITIAL DRAWING	MES	MES



FLOW DIAGRAM

FILTER ELEMENT 10 MICRON S.S.



PROBE HEAD SECTIONAL VIEW

UNLESS OTHERWISE SPECIFIED

TOLERANCE DECIMALS	1 PLACE = ± .02
2 PLACE = ± .002	
3 PLACE = ± .001	

ANGLES = ± 5°
HOLES = +.002/- .001

BALDWIN
www.baldwinUSA.com

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ITEM QTY	DESCRIPTION	MANUF.
USED FOR:	MODEL NUMBER:	
FOR:	DESCRIPTION:	
DRAWN BY:	DATE	
MES	06/03/98	
APP'D:	DATE	
MATERIAL	PART DESCRIPTION	
FINISH	MODEL 31 HEATED FILTER PROBE ARRANGEMENT DRAWING	
DESIGN DIMENSIONS ARE IN INCHES	SIZE SCALE:	
() DENOTES MILLIMETER EQUIVALENTS WHEN USED	B 1/2	
	DRAWING/PART NO:	
	MODEL 31	
	CAD DIR: S:\DRAW	