

DIRECT EXTRACTIVE FILTER PROBES

General Purpose Model 31

Application

The BaldwinTM-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	1 1/4" male pipe nipple mount; 1/2" 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

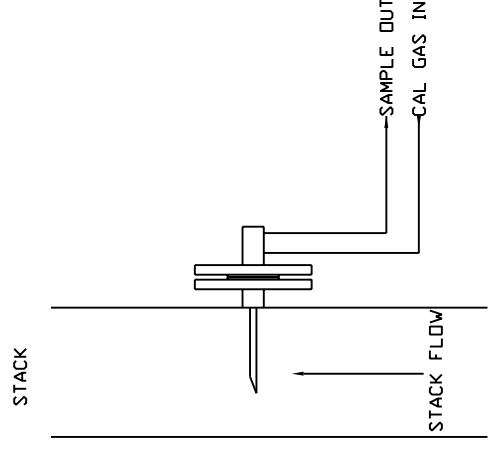
Material Specifications

Enclosure Material	Aluminum
Heater Type	Silicone rubber blanket with snap closures
Oven Insulation Material	1/8" 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

BaldwinTM is a Trademark of Perma Pure LLC
 Viton[®] is a Registered Trademark of DuPont
 Graphoil[®] is a Registered Trademark of Union Carbide Corporation

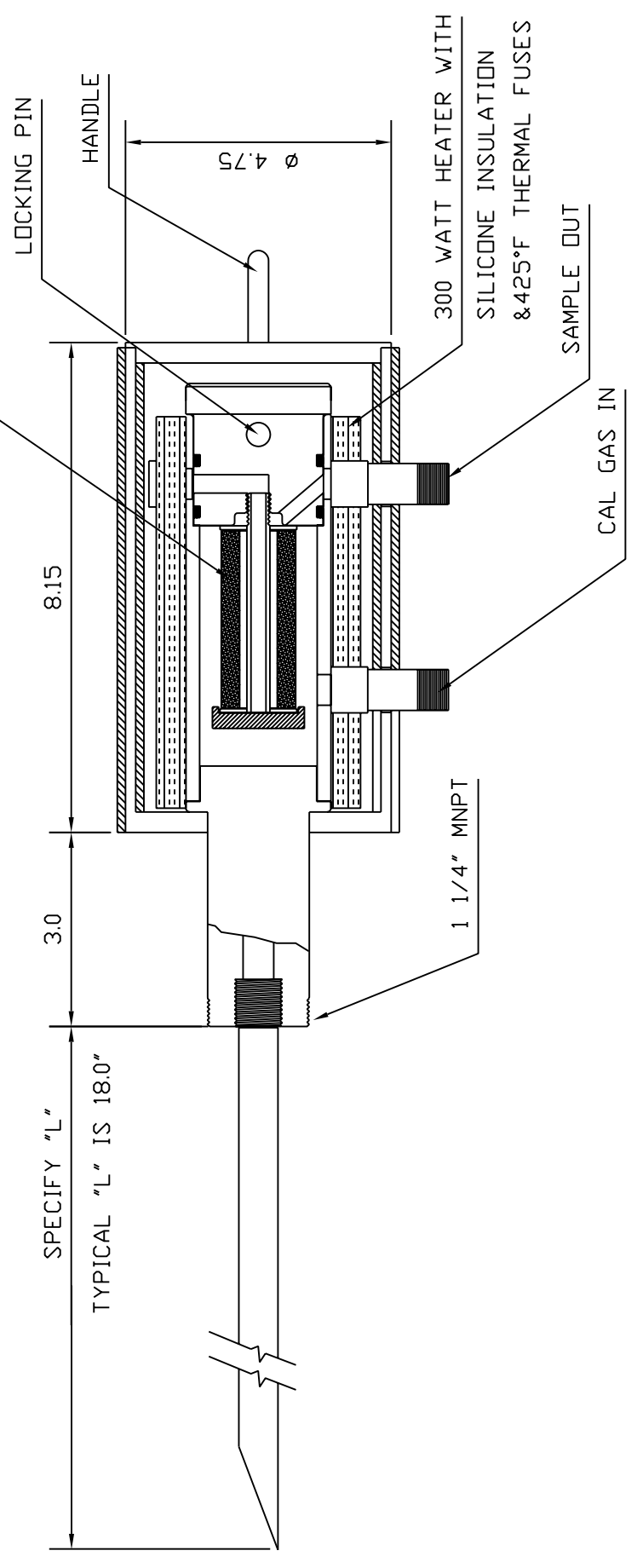


REV#	DATE	DESCRIPTION	DRAWN	APPROVED
0	00/00/00	INITIAL DRAWING	MES	MES



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	± .0005

ANGLES = ± 5°
HOLES = ± .002-+.001

BALDWIN
www.baldwinUSA.com

PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO BALDWIN, INC.
AND IS TO BE USED SOLELY FOR THE PURPOSE FOR WHICH IT IS FURNISHED. THIS DOCUMENT SHALL NOT BE USED FOR OTHER THAN THE DESIGN, PROCUREMENT, OR MANUFACTURING, IN WHOLE OR IN PART, BY BALDWIN, INC.

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	