

- MODEL	- CHAMBER MATERIAL	- CHAMBER HEAT CONTROL	- CHAMBER ISOLATION VALVE	- FLANGE SIZE
275E	SS 316 Stainless Steel Chamber <400°F (Standard) C Hastelloy C-276 < 400°F SN 316 Stainless Steel W/ Silconert Coating <400°F SH 316 Stainless Steel Hi Temp W/Kalrez <600°F CH Hastelloy C-276W/Kalrez (Hi Temp)< 600°F SNH 316 Stainless Steel W/ Silconert Coating & W/Kalrez (Hi Temp) <600°F	TS 340°F Temp Switch (Standard) DK DIN Control W/ Type K Thermocouple & "J" Box RD RTD Only (PT100) For Remote Control TK T/C Only (Type K) For Remote Control TJ T/C Only (Type J) For Remote Control	N None (Standard) V Isolation Valve Material of Construction will Match Chamber Material / Temperature Low Temp - 316SS Valve, Hast-C, 316SS Silconert High Temp - 316SS Valve, Hast-C, 316SS Silconert	2F - 2" Flange 3F - 3" Flange 4F - 4" Flange (Standard) 6F - 6" Flange 2T - 2" Flange - Top Dead Center 3T - 3" Flange - Top Dead Center 4T - 4" Flange - Top Dead Center 6T - 6" Flange - Top Dead Center

- BLOWBACK CONTROL	- BLOWBACK PORT	- BLOWBACK ISOLATION VALVE	- BLOWBACK ISOLATION VALVE ACTUATOR
BA Pneumatic Signal 75psig Minimum B24 24VDC (Standard) BV 115/230VAC - Same as Supply Voltage BTV 115/230VAC w/Timer Card - Same as Supply Voltage N No Blowback	BB - Standard Blowback (Standard) BT - Blowback w/ Probe Tip Filter BD - Dual Blowback N - No Blowback	NO - Normally Open (Standard) NC - Normally Closed OH - Normally Open (Hi Temp) CH - Normally Closed (Hi Temp) N - None	I24 - 24VDC I115 - 115VAC I230 - 230VAC IAIR - Air Actuated Valve Only - Switching Valve Supplied by Others IBB - Isolation Actuator Plumbing into Blowback (NO Valve Only) N - None

ENCLOSURE HEAT CONTROL	- BOOT PLATE SIZE	- CAL INJECTION	- SYSTEM VOLTS	- LOW TEMP ALARM
TS - 225°F Temp Switch & Insulation DN - DIN Control w/ Insulation & "J" Box TK - T/C Type K Insulation TJ - T/C Type J Insulation RD - RTD PT100 & Insulation I - Insulation Only N - No Enclosure Heat (Standard)	B2 - 2" Boot B3 - 3" Boot (Standard) B4 - 4" Boot BX - Two - 2" Boots N - Blank Plate	F - Flood Cal (Standard) D - Direct Cal	115 - 115 VAC 230 - 230 VAC	O - Closed on Alarm F - FailSafe (Standard) RD - PT100 RTD TK - Type K Thermocouple TJ - Type J Thermocouple N - None

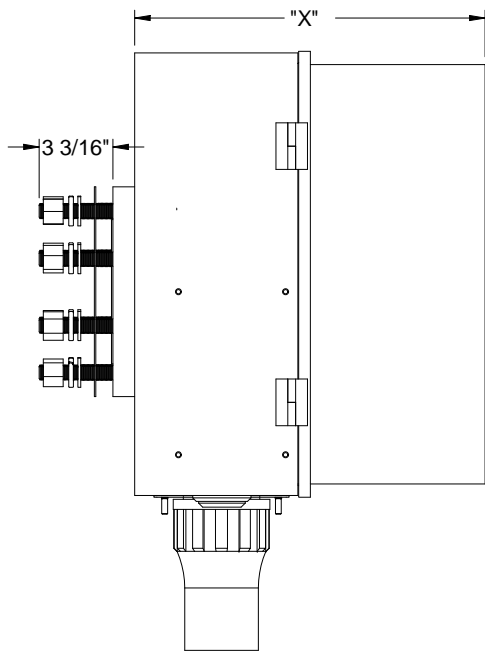
CONFIGURATION OPTIONS		
OPTION	DESCRIPTION	DWG
-HR -HJ -HK	TERMINALS FOR HEATED PROBE ASSEMBLY	
-PTS	PROBE TUBE SUPPORTS	A0398
-NH3	AMMONIA CONVERTER	
-ZV	Z-PURGE VERTICAL	
-ZVR	Z-PURGE VERTICAL, REMOTE MOUNT	
-ZH	Z-PURGE HORIZONTAL	
-ZHR	Z-PURGE HORIZONTAL, REMOTE MOUNT	

- SHEET 2, 3 - LAYOUT
- SHEET 4 - FILTER CHAMBER ASSEMBLY
- SHEET 5 - CHAMBER INSTALLATION
- SHEET 6 - P&ID N.O. BLOWBACK ISOLATION W/ PNEUMATIC ACTUATION
- SHEET 7 - P&ID N.O. BLOWBACK ISOLATION W/ SOLENOID ACTUATION
- SHEET 8 - P&ID N.C. BLOWBACK ISOLATION W/ PNEUMATIC ACTUATION
- SHEET 9 - P&ID N.C. BLOWBACK ISOLATION W/ SOLENOID ACTUATION
- SHEET 10 - P&ID DUAL BLOWBACK ISOLATION NORMALLY CLOSED W/ SOLENOID ACTUATION
- SHEET 11 - TEMPERATURE SWITCH FILTER CONTROL
- SHEET 12 - TEMPERATURE SENSOR FILTER CONTROL
- SHEET 13 - BLOWBACK & BLOWBACK ISOLATION ELECTRICAL
- SHEET 14 - ENCLOSURE, HEATER CONTROL, ELECTRICAL

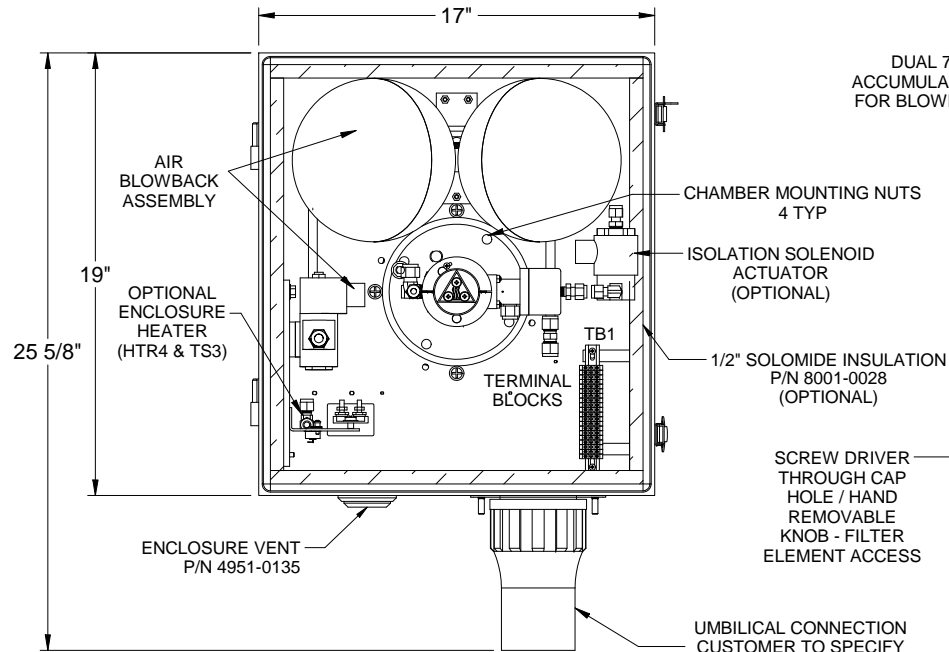


275E EXTRACTIVE PROBE

5200 Convent Drive Carson City, NV 89706 PH(775)883-2500 FAX (775)883-4388		AA 01/08/14	Revise Enclosure Heater	MW	EG
		REV DATE	DESCRIPTION	DWN	APVD
Model 275E Probe Layout		REVISIONS			
PART NO.	FOR	DATE	SCALE	SIZE	SHEET
275E	INSTRUMENT	04/05/2004	NTS	D	1 OF 14
		DRAWN BY	ECOR	DRAWING NO.	
		APVD BY	G. Evans	1888	P0825

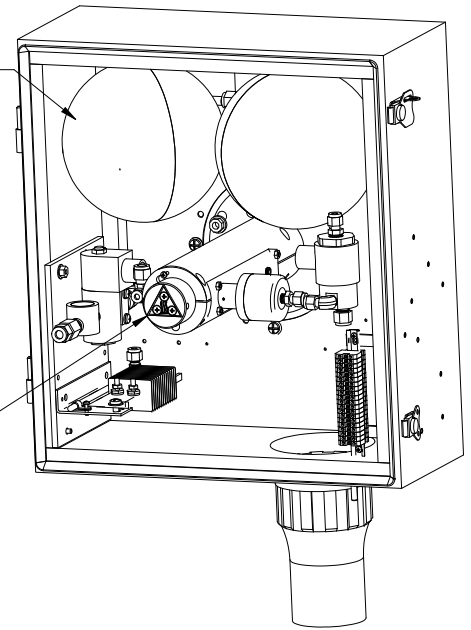


LEFT SIDE VIEW



FRONT INTERIOR VIEW
(DOOR REMOVED)

DUAL 7" ACCUMULATORS FOR BLOWBACK

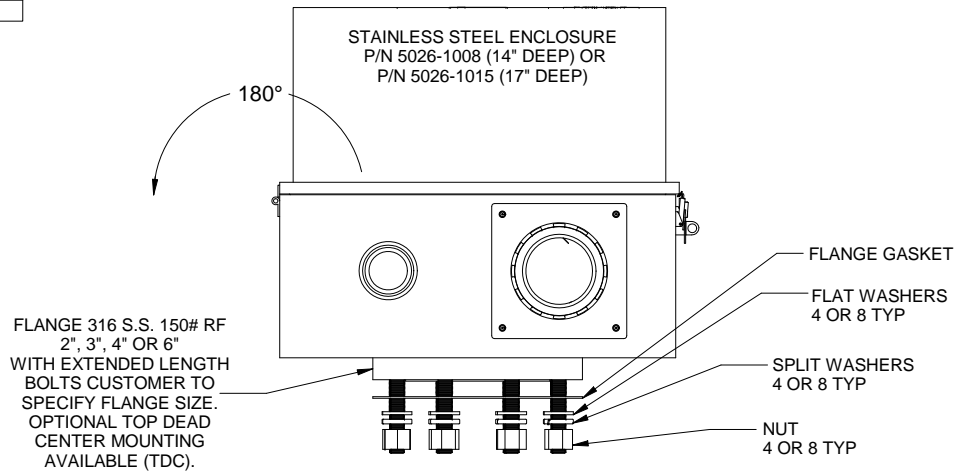


ISOMETRIC VIEW

SCREW DRIVER THROUGH CAP HOLE / HAND REMOVABLE KNOB - FILTER ELEMENT ACCESS

UMBILICAL CONNECTION CUSTOMER TO SPECIFY TYPE & SIZE
3" BOOT (SHOWN) P/N 4907-0004
2" BOOT OPTIONAL P/N 4907-0005
4" BOOT OPTIONAL P/N 4907-1000

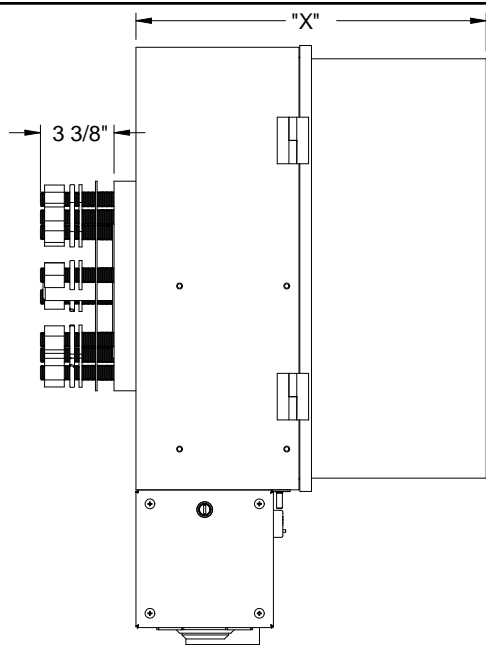
"X" DIMENSION
14 5/8" W/OUT OPTIONAL CHAMBER ISOLATION VALVE
17 3/16" W/OPTIONAL CHAMBER ISOLATION VALVE



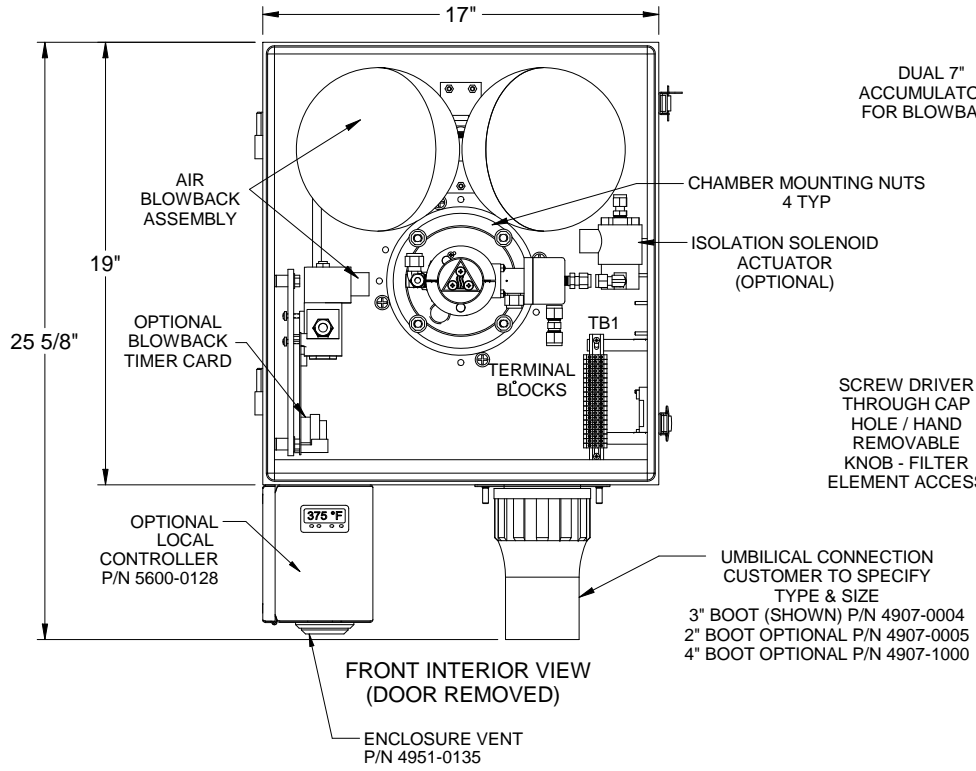
BOTTOM VIEW

FLANGE 316 S.S. 150# RF 2", 3", 4" OR 6" WITH EXTENDED LENGTH BOLTS CUSTOMER TO SPECIFY FLANGE SIZE. OPTIONAL TOP DEAD CENTER MOUNTING AVAILABLE (TDC).

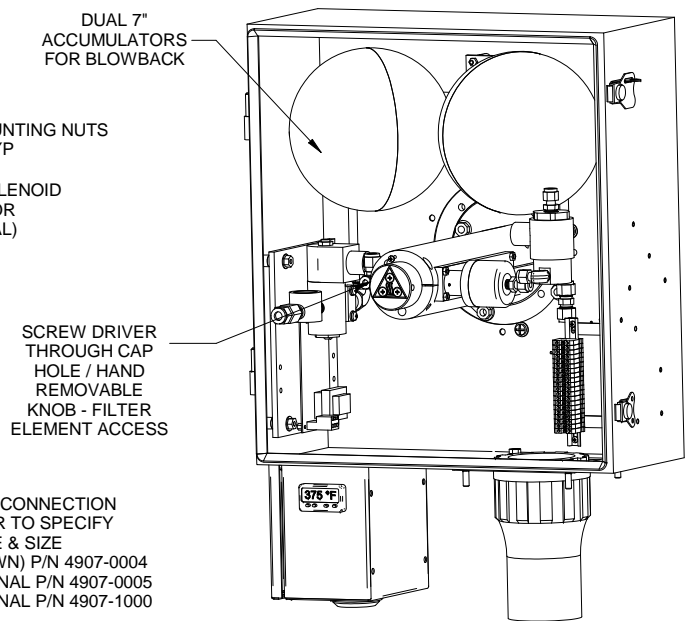
		AA 01/08/14	Revise Enclosure Heater	MW	EG
Model 275E Probe Layout		REV	DATE	DESCRIPTION	DWN/APVD
DATE: 04/05/2004 DRAWN BY: E. Musselman APVD BY: G. Evans		SCALE: NTS	REVISIONS	SIZE: D	SHEET: 2 OF 14
PART NO.	FOR	ECO#	DRAWING NO.		
275E	INSTRUMENT		1888	P0825	



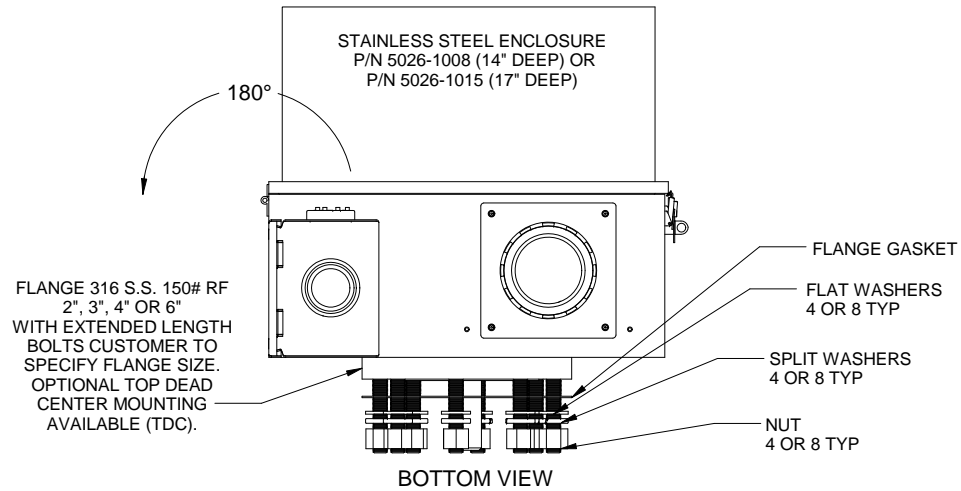
LEFT SIDE VIEW



FRONT INTERIOR VIEW (DOOR REMOVED)



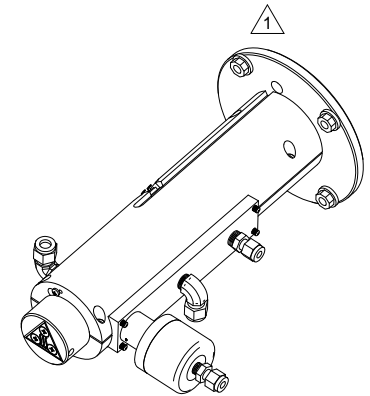
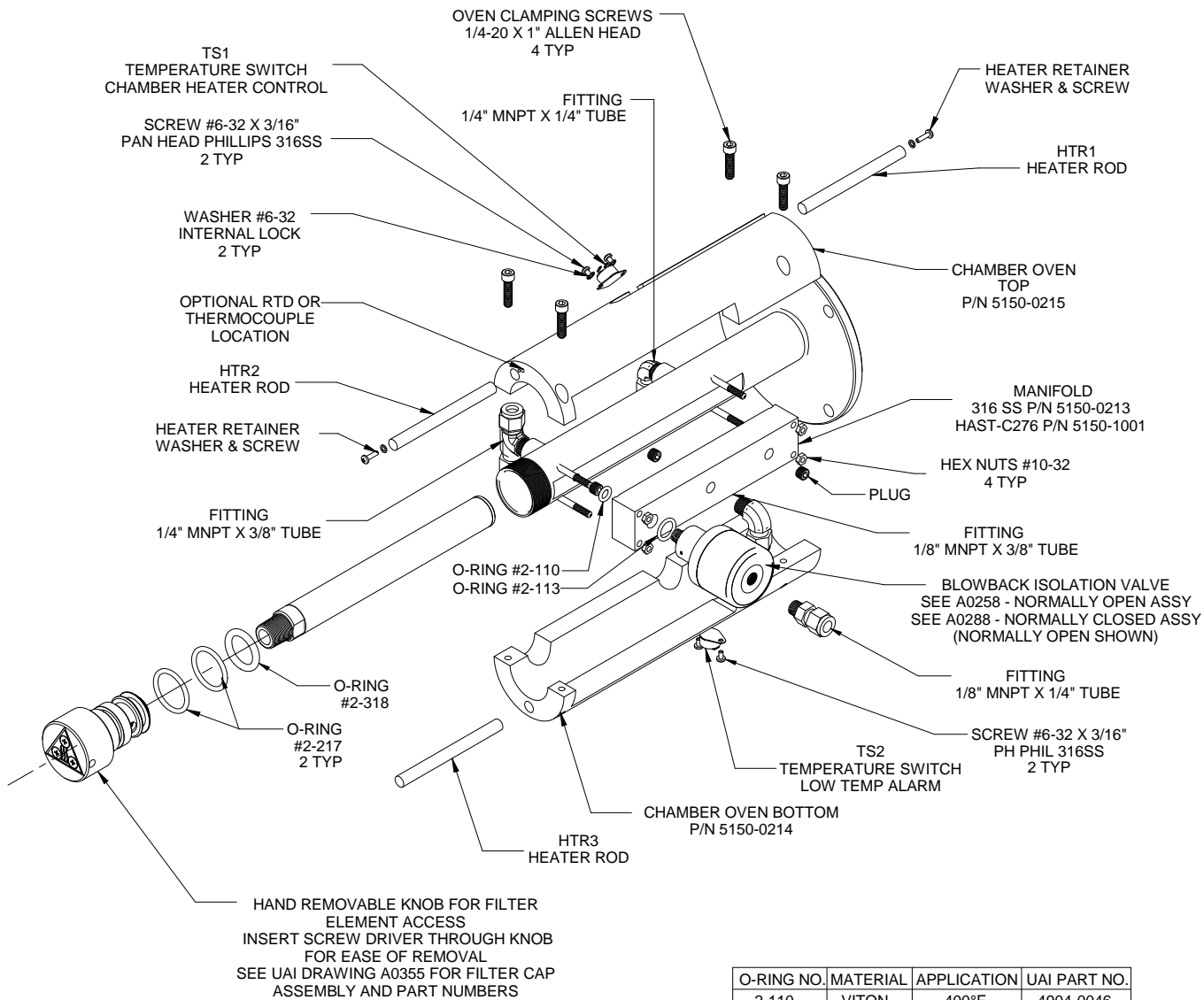
ISOMETRIC VIEW



BOTTOM VIEW

"X" DIMENSION	
14 5/8" W/OUT OPTIONAL CHAMBER ISOLATION VALVE	
17 3/16" W/OPTIONAL CHAMBER ISOLATION VALVE	

		AA 01/08/14	Revise Enclosure Heater	MW	EG
Model 275E W/ Optional Controller Probe Layout		DATE	SCALE	SIZE	SHEET
PART NO.	FOR	04/05/2004	NTS	D	3 OF 14
275E	INSTRUMENT	DRAWN BY E. Musselman	ECO#		DRAWING NO.
		APVD BY G. Evans	1888		P0825

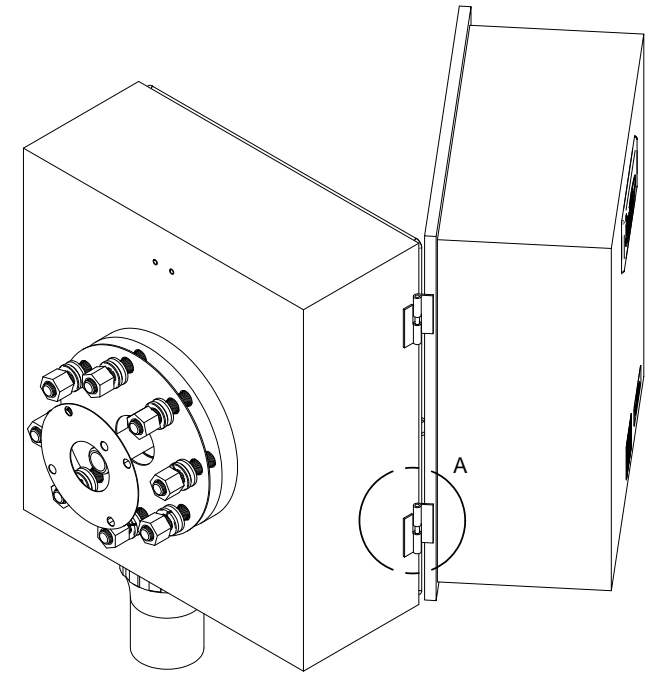
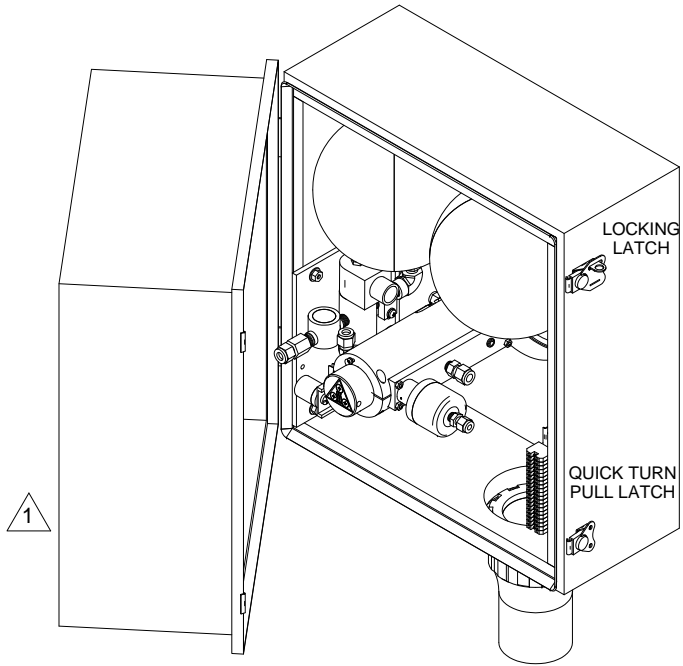
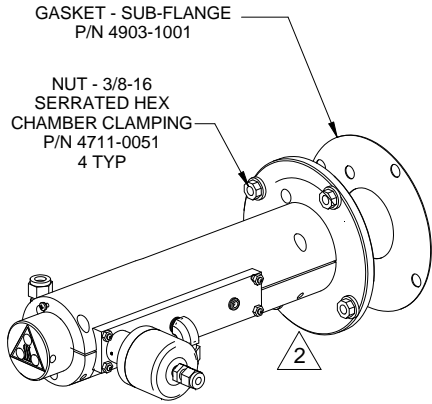


1 REFERENCE A0330 IF USING OPTIONAL FILTER
CHAMBER ISOLATION.

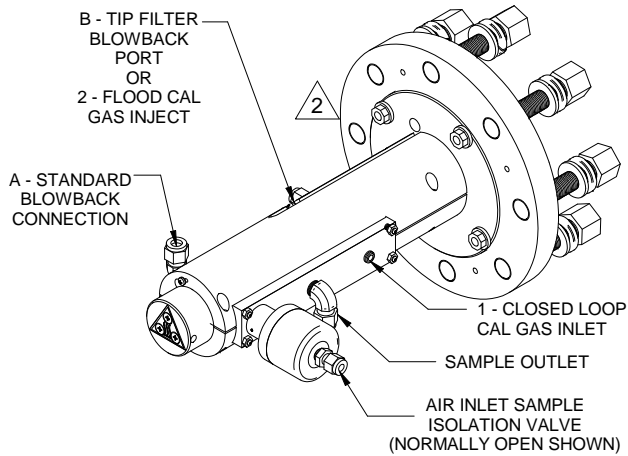
O-RING NO.	MATERIAL	APPLICATION	UAI PART NO.
2-110	VITON	400°F	4904-0046
2-110	KALREZ	600°F	4904-2015
2-113	VITON	400°F	4904-0002
2-113	KALREZ	600°F	4904-2011
2-217	VITON	400°F	4904-0016
2-217	KALREZ	600°F	4904-2001
2-318	VITON	400°F	4904-0036
2-318	KALREZ	600°F	4904-2016

		AA 01/08/14	Revise Enclosure Heater	MW	EG
		REV DATE	DESCRIPTION REVISIONS	DWN	APVD
Model 275E Chamber Assembly					
PART NO.	FOR	DATE	SCALE	SIZE	SHEET
275E	INSTRUMENT	04/05/2004	NTS	D	4 OF 14
		DRAWN BY	ECD#	ECO#	DRAWING NO.
		APVD BY	G. Evans	1888	P0825

**STACK FILTER CHAMBER INSTALLATION / REMOVAL
EXPLODED ILLUSTRATION**



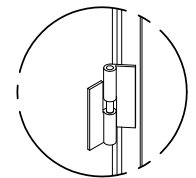
**STACK FILTER CHAMBER
INSTALLED ILLUSTRATION**





**FRONT ISO VIEW WITH
DOOR OPEN**

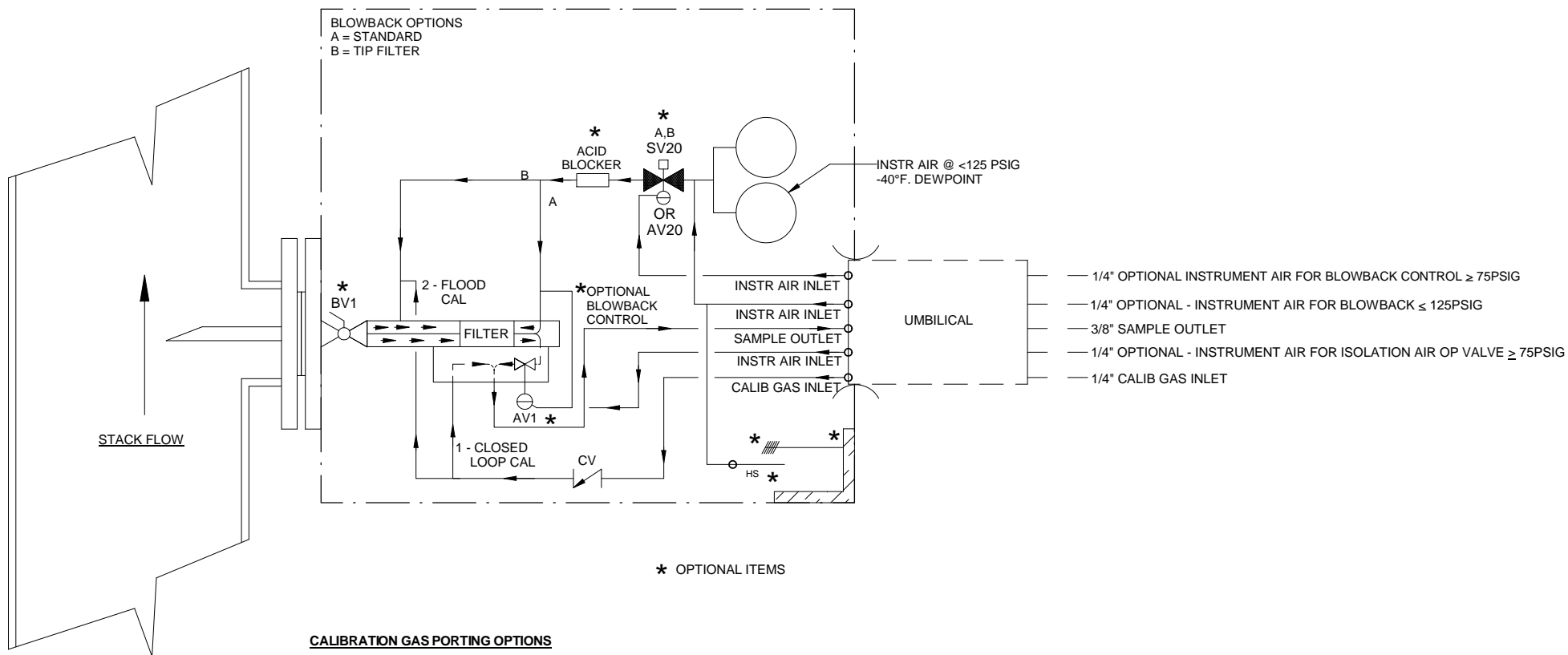
**REAR ISO VIEW WITH DOOR OPEN
SHOWING LIFT OFF HINGES**

- 1 REMOTE TEMPERATURE CONTROL UNITS TO RECEIVE TEMPERATURE WARNING LABEL P/N 5001-0217 (LOW TEMP) OR 5001-0218 (HIGH TEMP)
- 2 REFERENCE A0330 IF USING OPTIONAL FILTER CHAMBER ISOLATION



**DETAIL A
HINGES - LIFT OFF TYPICAL**

 		AA 01/08/14	Revise Enclosure Heater	MW	EG
Model 275E Chamber Install & Lift-Off Door Layout		REV	DATE	DESCRIPTION	
		REVISIONS			
DATE	SCALE	NTS	SIZE	SHEET	
04/05/2004			D	5 OF 14	
PART NO.	FOR	DRAWN BY	ECD#	DRAWING NO.	
275E	INSTRUMENT	APVD BY	1888	P0825	



CALIBRATION GAS PORTING OPTIONS

1 = CLOSED LOOP CAL TO MANIFOLD.
(MUST ALSO USE AV1 ISOLATION VALVE.)

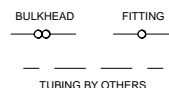
2 = FLOOD CAL INTO CHAMBER

CHAMBER ISOLATION OPTION

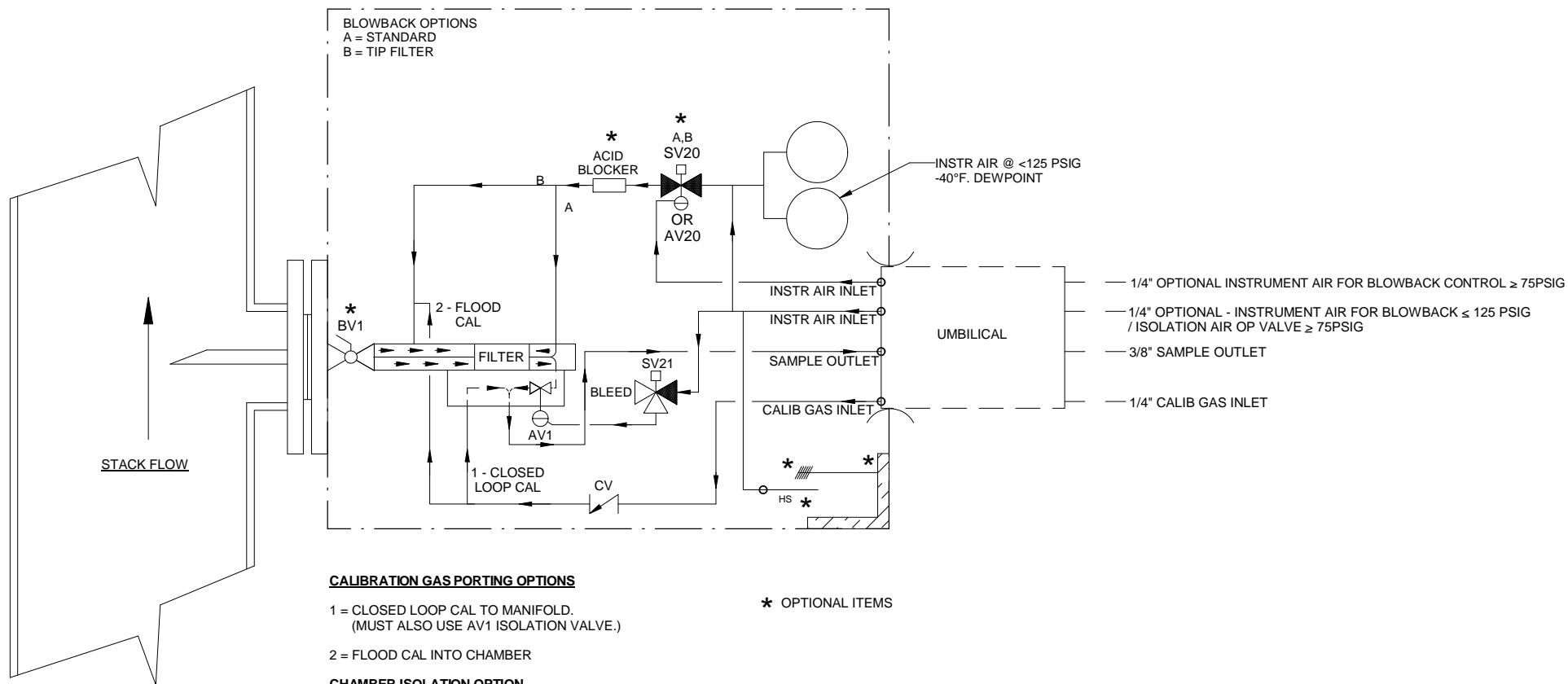
BV1 TO BE INCLUDED ON CHAMBER ASSEMBLY

Item	Qty	Description	UAI Part No.
CV	1	Check Valve, Set @ 3 PSIG	4955-0148
SV20	1	Solenoid Valve - 2 Way 24VDC	4955-0137
SV20	1	Solenoid Valve - 2 Way 115VDC VAC	4955-0136
SV20	1	Solenoid Valve - 2 Way 230VDC VAC	4955-0141
AV1	1	Valve - Air Operated Sample Isolation - Normally Open <math>< 400^\circ\text{F}</math>	5209-0180
AV1	1	Valve - Air Operated Sample Isolation - Normally Open <math>< 600^\circ\text{F}</math>	5209-0208
AV20	1	Valve - Air Operated Blowback Isolation - 2 Way	4955-0256
BV1	1	Ball Valve - 2 Way	4955-0143
HS	1	Heater Sparger	5110-2144

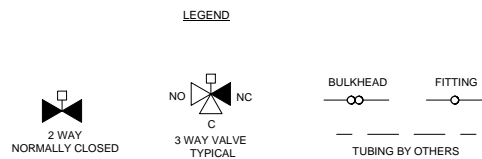
LEGEND



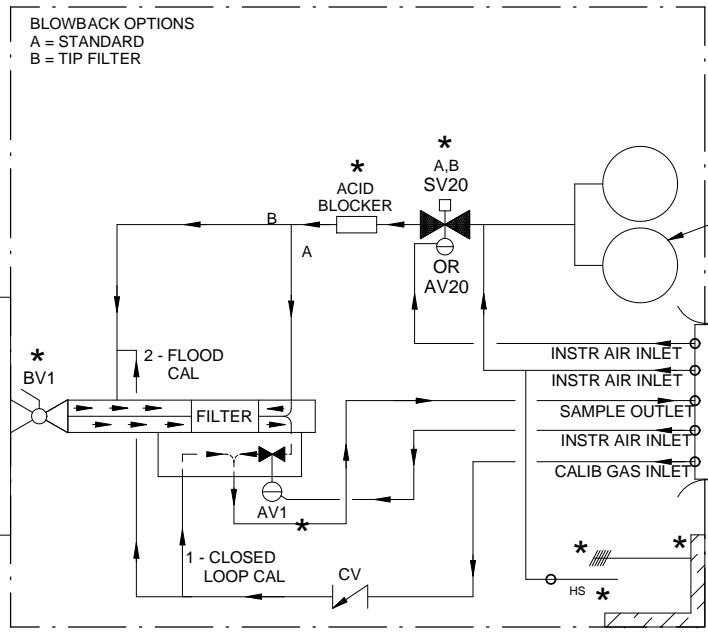
		AA 01/08/14	Revise Enclosure Heater	MW	EG
P&ID For Sample Isolation Normally Open		DATE	SCALE	SIZE	SHEET
PART NO. FOR 275E INSTRUMENT		04/05/2004	NTS	D	6 OF 14
DRAWN BY E. Musselman APVD BY G. Evans		REVISIONS ECO#		DRAWING NO. 1888 P0825	



Item	Qty	Description	UAI Part No.
CV	1	Check Valve, Set @ 3 PSIG	4955-0148
SV20	1	Solenoid Valve - 2 Way 24VDC	4955-0137
SV20	1	Solenoid Valve - 2 Way 115VAC	4955-0136
SV20	1	Solenoid Valve - 2 Way 230VAC	4955-0141
SV21	1	Solenoid Valve - 3 Way 24VDC	4955-0132
SV21	1	Solenoid Valve - 3 Way 115VAC	4955-0131
SV21	1	Solenoid Valve - 3 Way 230VAC	4955-0140
AV1	1	Valve - Air Operated Sample Isolation - Normally Open < 400°F	5209-0180
AV1	1	Valve - Air Operated Sample Isolation - Normally Open < 600°F	4955-0256
AV20	1	Valve - Air Operated 2 Way Blowback Control	4955-0143
BV1	1	Ball Valve - 2 way	4955-0143
HS	1	Heater Sparger	5110-2144



		AA 01/08/14	Revise Enclosure Heater	MW	EG
P&ID For Blowback Isolation Normally Open - 3 Way Valve		REV DATE	DESCRIPTION	DWN/APVD	
DATE	SCALE	NTS	SIZE	SHEET	
04/05/2004			D	7 OF 14	
DRAWN BY	E. Musselman	ECO#		DRAWING NO.	
APVD BY	G. Evans	1888		P0825	
PART NO.	FOR				
275E	INSTRUMENT				



BLOWBACK OPTIONS
 A = STANDARD
 B = TIP FILTER

INSTR AIR @ $\le 125 \text{ PSIG}$
 -40°F . DEWPOINT

- 1/4" OPTIONAL INSTRUMENT AIR FOR BLOWBACK CONTROL $\ge 75 \text{ PSIG}$
- 1/4" OPTIONAL - INSTRUMENT AIR FOR BLOWBACK $\le 125 \text{ PSIG}$
- 3/8" SAMPLE OUTLET
- 1/4" OPTIONAL - INSTRUMENT AIR FOR ISOLATION AIR OP VALVE $\ge 75 \text{ PSIG}$
- 1/4" CALIB GAS INLET

* OPTIONAL ITEMS

CALIBRATION GAS PORTING OPTIONS

1 = CLOSED LOOP CAL TO MANIFOLD.
 (MUST ALSO USE AV1 ISOLATION VALVE.)

2 = FLOOD CAL INTO CHAMBER

CHAMBER ISOLATION OPTION

BV1 TO BE INCLUDED ON CHAMBER ASSEMBLY

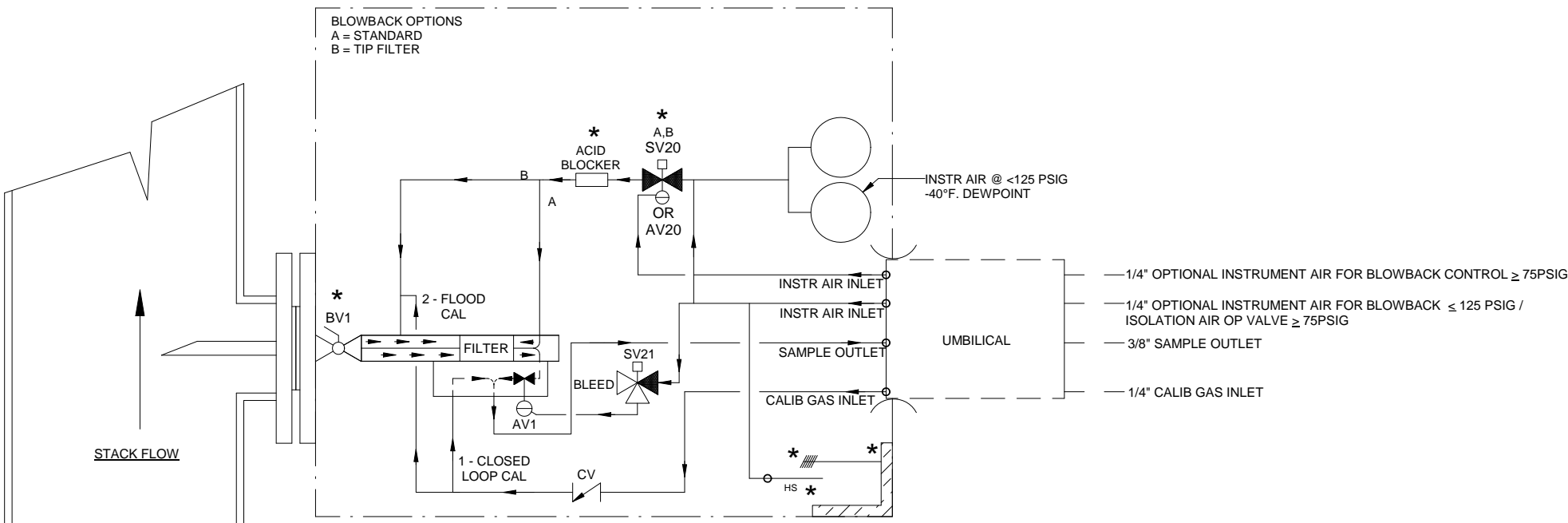
Item	Qty	Description	UAI Part No.
CV	1	Check Valve, Set @ 3 PSIG	4955-0148
SV20	1	Solenoid Valve - 2 Way 24VDC	4955-0137
SV20	1	Solenoid Valve - 2 Way 115VAC	4955-0136
SV20	1	Solenoid Valve - 2 Way 230VAC	4955-0141
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed $< 400^\circ \text{F}$	5209-0207
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed $< 600^\circ \text{F}$	5209-0209
AV20	1	Valve - Air Operated 2 Way Blowback Control	4955-0256
BV1	1	Ball Valve - 2 Way	4955-0143
HS	1	Heater Sparger	5110-2144

LEGEND



TUBING BY OTHERS

		AA 07/11/13	Update 230VAC Wiring Pg. 11	WC	GE
P&ID For Blowback Isolation Normally Closed		REV	DATE	DESCRIPTION	DWN/APVD
PART NO. FOR 275E INSTRUMENT		DATE	SCALE	SIZE	SHEET
		04/05/2004	NTS	D	8 OF 14
DRAWN BY E. Musselman		APVD BY G. Evans	ECO#	1526	DRAWING NO. P0825



BLOWBACK OPTIONS
 A = STANDARD
 B = TIP FILTER

INSTR AIR @ $\le 125 \text{ PSIG}$
 -40°F DEWPOINT

- 1/4" OPTIONAL INSTRUMENT AIR FOR BLOWBACK CONTROL $\ge 75 \text{ PSIG}$
- 1/4" OPTIONAL INSTRUMENT AIR FOR BLOWBACK $\le 125 \text{ PSIG}$ / ISOLATION AIR OP VALVE $\ge 75 \text{ PSIG}$
- 3/8" SAMPLE OUTLET
- 1/4" CALIB GAS INLET

CALIBRATION GAS PORTING OPTIONS

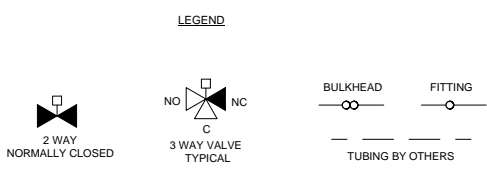
- 1 = CLOSED LOOP CAL TO MANIFOLD. (MUST ALSO USE AV1 ISOLATION VALVE.)
- 2 = FLOOD CAL INTO CHAMBER

CHAMBER ISOLATION OPTION

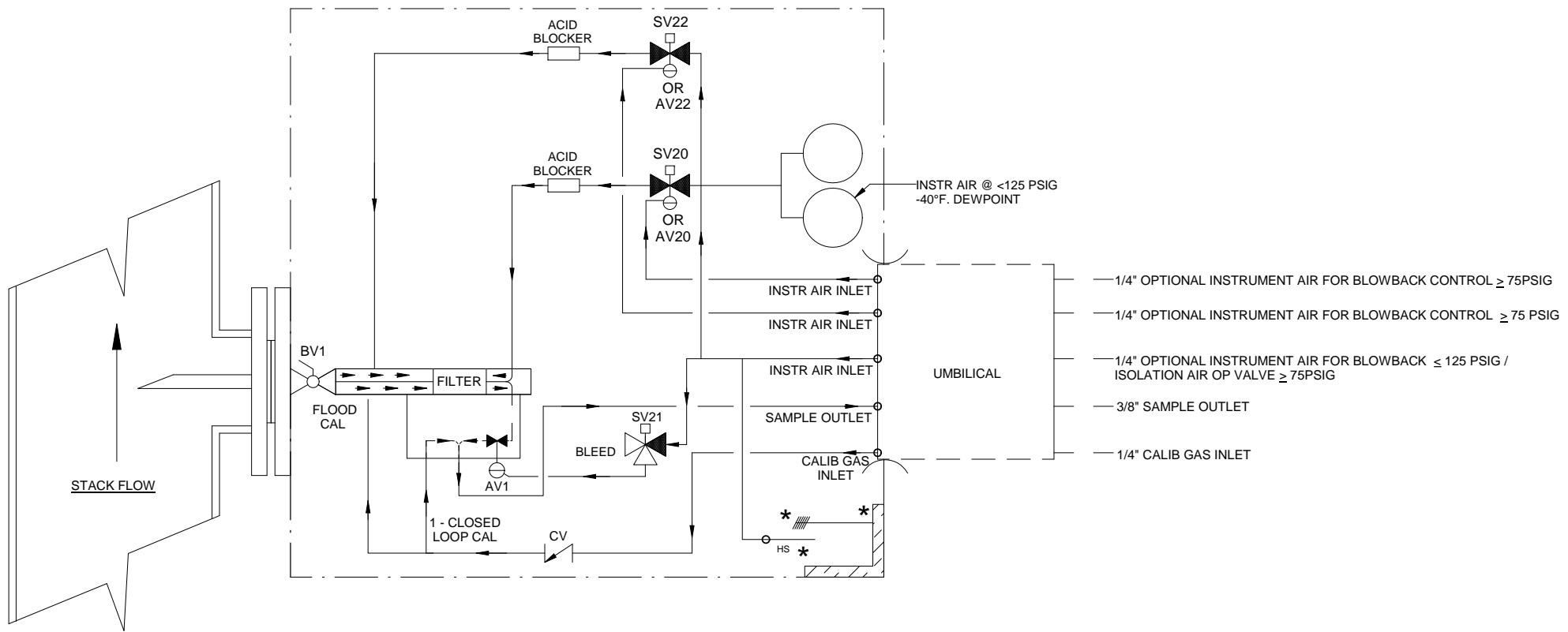
BV1 TO BE INCLUDED ON CHAMBER ASSEMBLY

* OPTIONAL ITEMS

Item	Qty	Description	UAI Part No.
CV	1	Check Valve, Set @ 3 PSIG	4955-0148
SV20	1	Solenoid Valve - 2 Way 24VDC	4955-0137
SV20	1	Solenoid Valve - 2 Way 115VAC	4955-0136
SV20	1	Solenoid Valve - 2 Way 230VAC	4955-0141
SV21	1	Solenoid Valve - 3 Way 24VDC	4955-0132
SV21	1	Solenoid Valve - 3 Way 115VAC	4955-0131
SV21	1	Solenoid Valve - 3 Way 230VAC	4955-0140
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed <math>< 400^\circ\text{F}</math>	5209-0207
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed <math>< 600^\circ\text{F}</math>	5209-0209
AV20	1	Valve - Air Operated 2 Way Blowback Control	4955-0256
BV1	1	Ball Valve - 2 Way	4955-0143
HS	1	Heater Sparger	5110-2144



		AA 01/08/14	Revise Enclosure Heater	MW	EG
P&ID For Blowback Isolation Normally Closed - 3 Way Valve		REV	DATE	DESCRIPTION REVISIONS	
DATE	SCALE	NTS	SIZE	SHEET	
04/05/2004			D	9 OF 14	
PART NO.	FOR	DRAWN BY	ECD#	DRAWING NO.	
275E	INSTRUMENT	E. Musselman			
		APVD BY	1888	P0825	
		G. Evans			



CALIBRATION GAS PORTING OPTIONS

1 = CLOSED LOOP CAL TO MANIFOLD.
(MUST ALSO USE AV1 ISOLATION VALVE.)

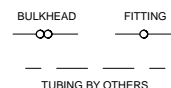
2 = FLOOD CAL INTO CHAMBER

CHAMBER ISOLATION OPTION

BV1 TO BE INCLUDED ON CHAMBER ASSEMBLY

Item	Qty	Description	UAI Part No.
CV	1	Check Valve, Set @ 3 PSIG	4955-0148
SV20	2	Solenoid Valve - 2 Way 24VDC	4955-0137
SV20	2	Solenoid Valve - 2 Way 115VAC	4955-0136
SV20	2	Solenoid Valve - 2 Way 230VAC	4955-0141
SV22	2	Solenoid Valve - 2 Way 24VDC	4955-0137
SV22	2	Solenoid Valve - 2 Way 115VAC	4955-0136
SV22	2	Solenoid Valve - 2 Way 230VAC	4955-0144
SV21	1	Solenoid Valve - 3 Way 24VDC	4955-0132
SV21	1	Solenoid Valve - 3 Way 115VAC	4955-0131
SV21	1	Solenoid Valve - 3 Way 230VAC	4955-0140
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed <math>< 400^\circ\text{F}</math>	5209-0207
AV1	1	Valve - Air Operated Sample Isolation - Normally Closed <math>< 600^\circ\text{F}</math>	5209-0209
AV20	2	Valve - Air Operated 2 Way Blowback Control	4955-0256
AV22	2	Valve - Air Operated 2 Way Blowback Control	4955-0256
BV1	1	Ball Valve - 2 Way	4955-0143
HS	1	Heater Sparger	5110-2144

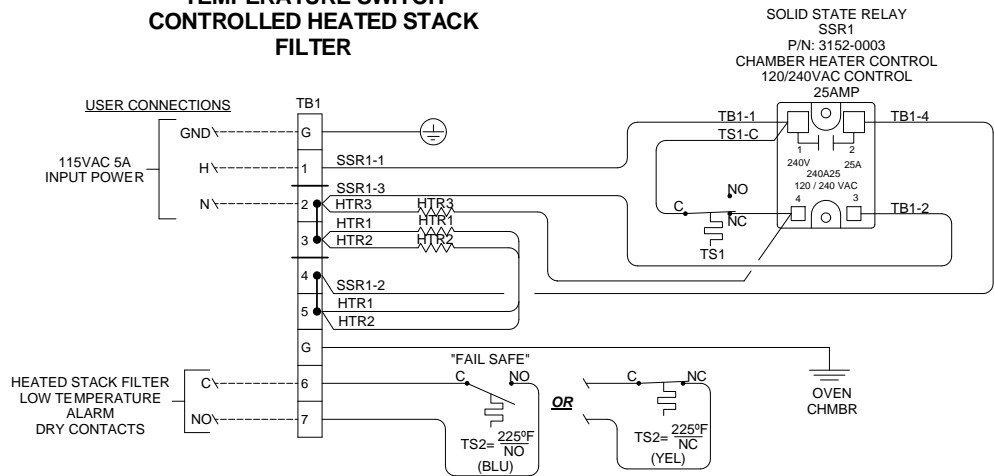
LEGEND



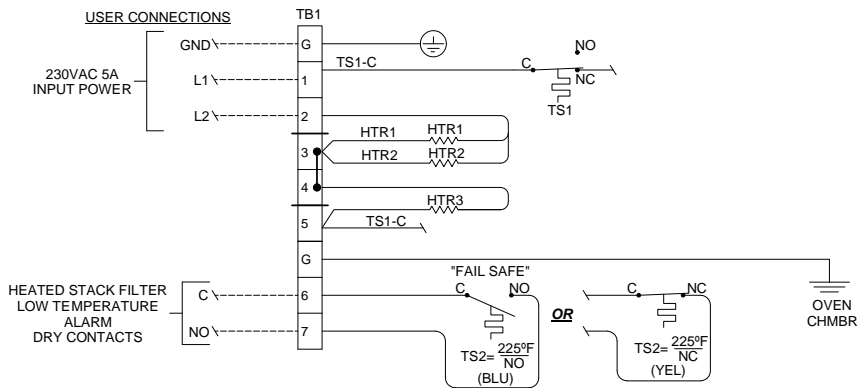
TUBING BY OTHERS

		AA 01/08/14	Revise Enclosure Heater	MW	EG
P&ID For Dual Blowback Isolation Normally Closed - 3 Way Valve		DATE	SCALE	SIZE	SHEET
PART NO. FOR		04/05/2004	NTS	D	10 OF 14
275E INSTRUMENT		DRAWN BY E. Musselman	ECO#		DRAWING NO.
		APVD BY G. Evans	1888		P0825

115VAC TEMPERATURE SWITCH CONTROLLED HEATED STACK FILTER



230VAC TEMPERATURE SWITCH CONTROLLED HEATED STACK FILTER



TEMPERATURE SWITCH STACK FILTER HEATER CONTROL SCHEMES

NOTES:

- ELECTRICAL CLASSIFICATION: GENERAL PURPOSE SYSTEM IS CONFIGURED AT THE FACTORY FOR REQUIRED VOLTAGE. CONTACT FACTORY FOR VOLTAGE CHANGE REQUIREMENTS.
- AC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 18AWG UNLESS OTHERWISE SPECIFIED. COLOR CODE SHALL BE AS FOLLOWS:

115V	230V
HOT - BLACK	L1 - BROWN
NEUTRAL - WHITE	L2 - BLUE
GROUND - GREEN	GROUND - GREEN
- FILTER HEATER ROD SPECIFICATIONS:

HTR1 & 2	3/8" Ø x 4.25' LG 120VAC @ 125W - P/N 3014-0058
HTR3	3/8" Ø x 4.25' LG 120VAC @ 250W - P/N 3014-0054
- CHAMBER HEATER CONTROL SWITCH (TS1):

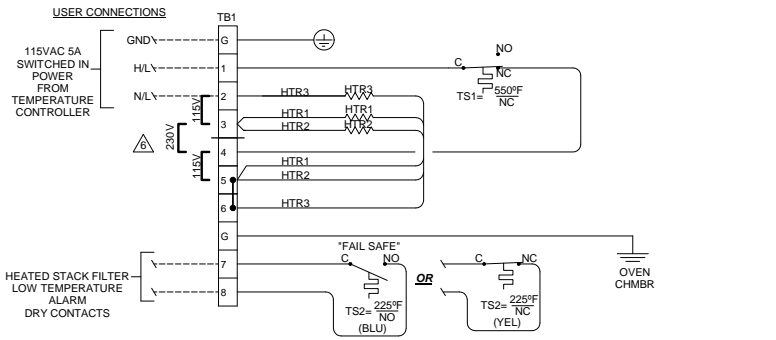
NORMALLY CLOSED BELOW 340°F - P/N 3103-0012-GP
NORMALLY CLOSED BELOW 550°F - P/N 3103-0005
- LOW TEMP ALARM OPTIONS (TS2):

BLUE (BLU-FAIL SAFE) NORMALLY OPEN (NO) BELOW 225°F - P/N 3103-0012-GP
YELLOW (YEL) - NORMALLY CLOSED (NC) BELOW 225°F - P/N 3103-0013-GP
- DOOR OF ENCLOSURE MUST BE ELECTRICALLY BONDED TO BODY OF ENCLOSURE.

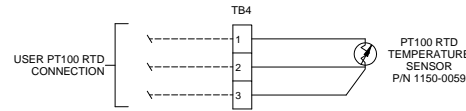
FIELD TO WIRE

		AA 01/08/14	Revise Enclosure Heater	MW	EG
Model 275E Probe Wiring Schematic		REV DATE	DESCRIPTION	DWN/APVD	
PART NO. FOR 275E INSTRUMENT		DATE 04/05/2004	SCALE NTS	SIZE D	SHEET 11 OF 14
DRAWN BY E. Musselman APVD BY G. Evans		ECO#	1888	DRAWING NO. P0825	

REMOTE TEMPERATURE CONTROLLED HEATED STACK FILTER

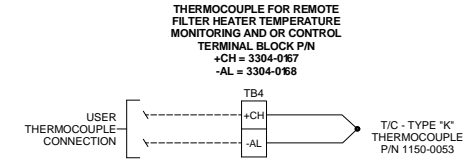


PT100 RTD RTD FOR REMOTE FILTER HEATER TEMPERATURE MONITORING AND/OR CONTROL.



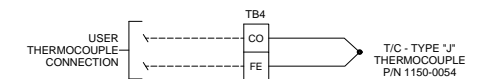
- OR -

THERMOCOUPLE



- OR -

THERMOCOUPLE OPTION FOR REMOTE FILTER HEATER TEMPERATURE MONITORING / CONTROL TERMINAL BLOCK P/N CO = 3304-011 FE = 3304-012



CAUTION: HEATED PROBE FILTERS MUST NOT EXCEED 400°F LOW TEMPERATURE UNITS, AND 600°F HIGH TEMP UNITS.

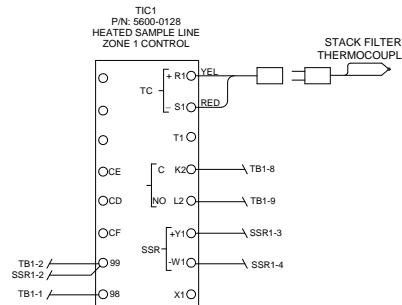
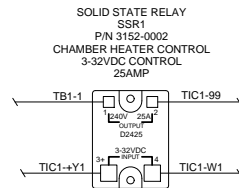
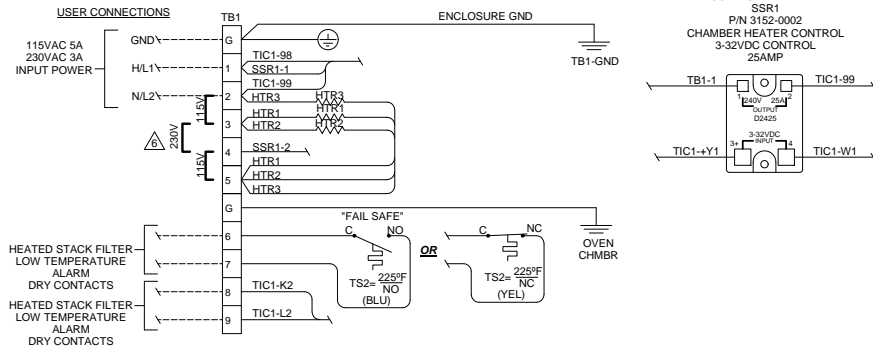
STACK FILTER HEATER CONTROL SCHEMES

NOTES:

- ELECTRICAL CLASSIFICATION: GENERAL PURPOSE SYSTEM IS CONFIGURED AT THE FACTORY FOR REQUIRED VOLTAGE. CONTACT FACTORY FOR VOLTAGE CHANGE REQUIREMENTS.
 - AC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 18AWG UNLESS OTHERWISE SPECIFIED. COLOR CODE SHALL BE AS FOLLOWS:
HOT - 115V - BLACK L1 - 230V - BROWN
NEUTRAL - WHITE L2 - BLUE
GROUND - GREEN GROUND - GREEN
 - FILTER HEATER ROD SPECIFICATIONS:
HTR1 & 2 3/8" Ø x 4.25" LG 120VAC @ 125W - P/N 3014-0058
HTR3 3/8" Ø x 4.25" LG 120VAC @ 250W - P/N 3014-0054
 - CHAMBER HEATER CONTROL SWITCH (TS1):
NORMALLY CLOSED BELOW 340°F - P/N 3103-0014
NORMALLY CLOSED BELOW 550°F - P/N 3103-0005
 - LOW TEMP ALARM OPTIONS (TS2):
BLUE (BLU-FAIL SAFE) NORMALLY OPEN (NO) BELOW 225°F - P/N 3103-0012
YELLOW (YEL) - NORMALLY CLOSED (NC) BELOW 225°F - P/N 3103-0013
- FOR VOLTAGE CHANGE IN FIELD FROM 115VAC TO 230VAC (115V CONFIGURATION SHOWN)
REMOVE JUMPERS ON TB1 AT TERMINAL LOCATIONS 2-3 & 4-5.
REPLACE THE JUMPER AT TERMINAL LOCATION 3-4
- DOOR OF ENCLOSURE MUST BE ELECTRICALLY BONDED TO BODY OF ENCLOSURE.

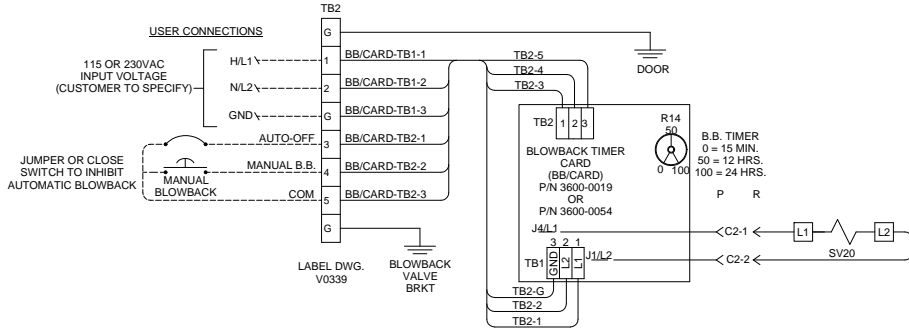
FIELD TO WIRE

LOCAL TEMPERATURE CONTROLLED HEATED STACK FILTER

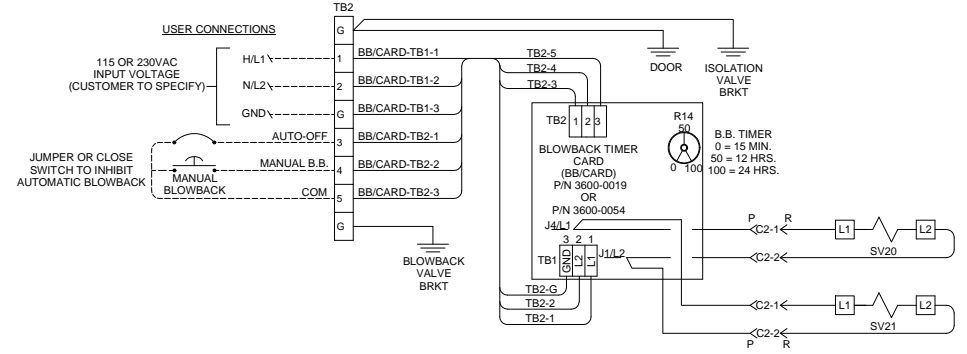


		AA 01/08/14	Revise Enclosure Heater	MW	EG
Model 275E Probe Wiring Schematic		REV DATE	DESCRIPTION	DWN	APVD
DATE 04/05/2004 DRAWN BY E. Musselman APVD BY G. Evans		SCALE NTS	SIZE D	SHEET 12 OF 14	
PART NO.	FOR	ECO#	1888	DRAWING NO.	P0825

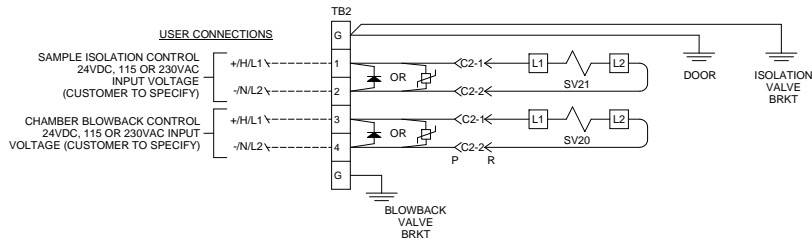
TIMED BLOWBACK



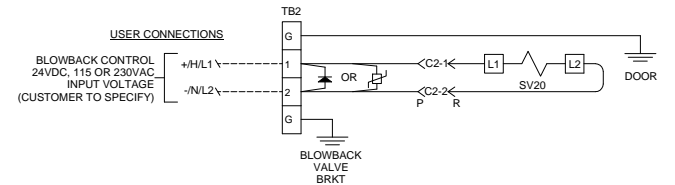
TIMED BLOWBACK & BLOWBACK ISOLATION



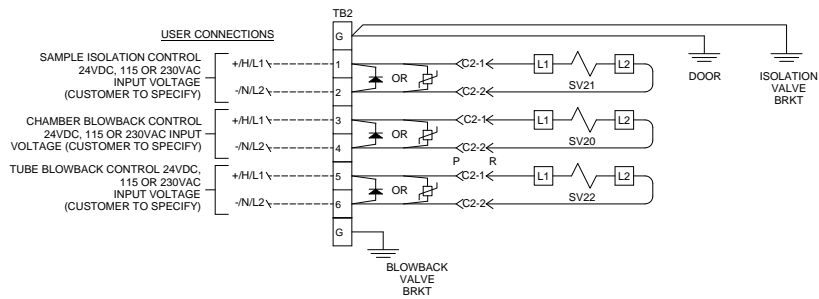
SINGLE BLOWBACK & BLOWBACK ISOLATION SOLENOIDS



SINGLE BLOWBACK SOLENOID



DUAL BLOWBACK & ISOLATION SOLENOIDS



2 PIN MOLEX CONNECTOR

R = 2 POSITION RECEPTACLE (FEMALE HOUSING) P/N 3304-0004
 → = PIN (MALE TERMINAL) P/N 3304-0089

P = 2 POSITION PLUG (MALE HOUSING) P/N 3304-0003
 ← = SOCKET (FEMALE TERMINAL) P/N 3304-0035

⏏ - DIODE P/N 1000-0009 FOR 24VDC SOLENOIDS

⏏ - MOV P/N 1010-1001 FOR 115/230VAC SOLENOIDS

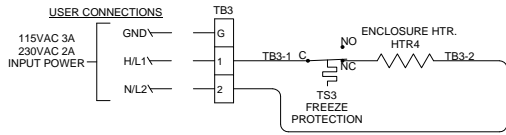
NOTES:

- ELECTRICAL CLASSIFICATION: GENERAL PURPOSE SYSTEM IS CONFIGURED AT THE FACTORY FOR REQUIRED VOLTAGE. CONTACT FACTORY FOR VOLTAGE CHANGE REQUIREMENTS.
- AC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 18AWG UNLESS OTHERWISE SPECIFIED. COLOR CODE SHALL BE AS FOLLOWS:
 115V: HOT - BLACK, NEUTRAL - WHITE, GROUND - GREEN
 230V: L1 - BROWN, L2 - BLUE, GROUND - GREEN
- DC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 22AWG UNLESS OTHERWISE SPECIFIED.

----- FIELD TO WIRE

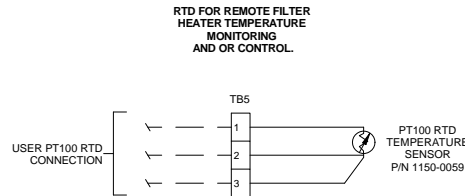
5200 Corvair Drive Carson City, NV 89706 PH:75883-2500 FAX: (775)883-6388		AA 01/08/14	Revise Enclosure Heater	MW	EG
UNIVERSAL AMETEK OBRIEN		REV. DATE	DESCRIPTION	DWN	APVD
Model 275E Probe Wiring Schematic		DATE	SCALE	SIZE	SHEET
PART NO.	FOR	04/05/2004	NTS	D	13 OF 14
275E	INSTRUMENT	DRAWN BY E. Musselman	ECO#		DRAWING NO.
		APVD BY G. Evans	1888		P0825

TEMPERATURE SWITCH CONTROL ENCLOSURE HEATER



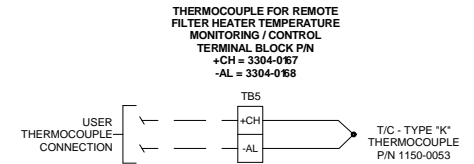
OPTIONAL REMOTE CONTROL ENCLOSURE HEATER

PT100 RTD



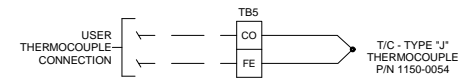
- OR -

THERMOCOUPLE

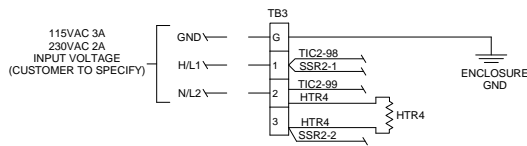


- OR -

THERMOCOUPLE OPTION FOR REMOTE FILTER HEATER TEMPERATURE MONITORING / CONTROL



LOCAL TEMPERATURE CONTROL ENCLOSURE HEATER



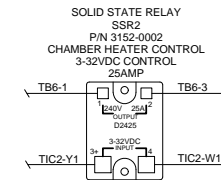
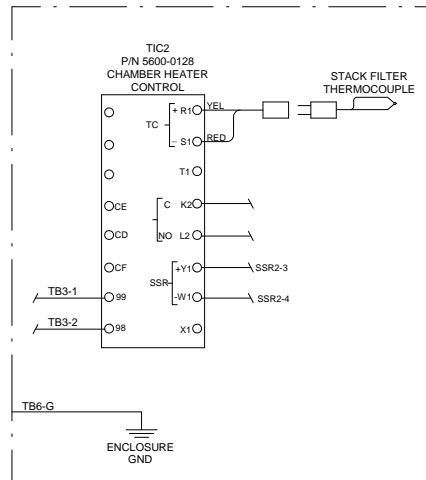
ENCLOSURE HEATER CONTROL SCHEMES

- NOTES:
- ELECTRICAL CLASSIFICATION: GENERAL PURPOSE SYSTEM IS CONFIGURED AT THE FACTORY FOR REQUIRED VOLTAGE. CONTACT FACTORY FOR VOLTAGE CHANGE REQUIREMENTS.
 - AC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 18AWG UNLESS OTHERWISE SPECIFIED. COLOR CODE SHALL BE AS FOLLOWS:

115V	230V
HOT - BLACK	L1 - BROWN
NEUTRAL - WHITE	L2 - BLUE
GROUND - GREEN	GROUND - GREEN
 - DC WIRING SHALL BE INDIVIDUAL CONDUCTORS OF STRANDED TINNED COPPER WITH 300V, TYPE TFE INSULATION. MINIMUM WIRE SIZE SHALL BE 22AWG UNLESS OTHERWISE SPECIFIED.
 - ENCLOSURE STRIP HEATER SPECIFICATIONS: HTR4
115VAC @ 250W - UAI P/N 3014-0066
230VAC @ 300W - UAI P/N 3014-0067
 - ENCLOSURE HEATER TEMPERATURE CONTROL SWITCH (TS3) SPECIFICATIONS:
NORMALLY CLOSED BELOW 225°F - P/N 3103-0013
REMOTE CONTROL NORMALLY CLOSED 340°F P/N 3103-0014
 - USE HIGH TEMPERATURE TERMINAL BLOCKS IF ENCLOSURE IS HEATED.

FIELD TO WIRE

ENCLOSURE - SIDE MOUNTED



		AA 01/08/14	Revise Enclosure Heater	MW	EG
REV	DATE	DESCRIPTION		DWN/APVD	
Model 275E Probe Din Controller Wiring Schematic		DATE	SCALE	SIZE	SHEET
PART NO.	FOR	04/05/2004	NTS	D	14 OF 14
275E	INSTRUMENT	DRAWN BY E. Musselman	ECO#	1888	DRAWING NO. P0825
		APVD BY G. Evans			