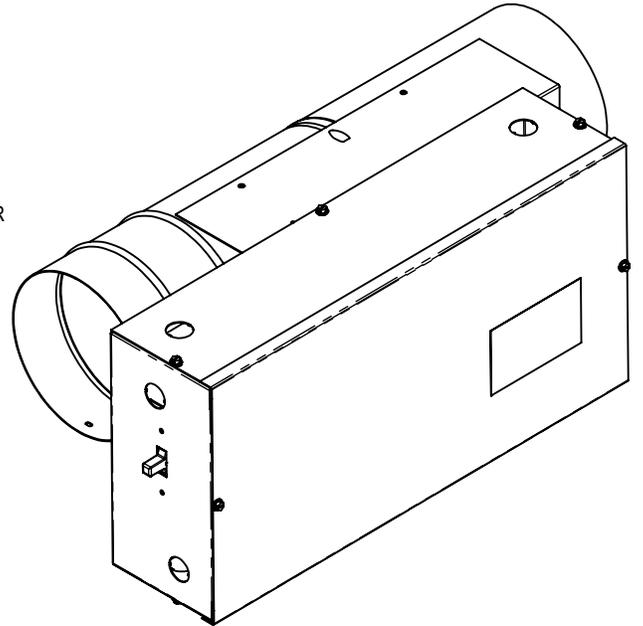
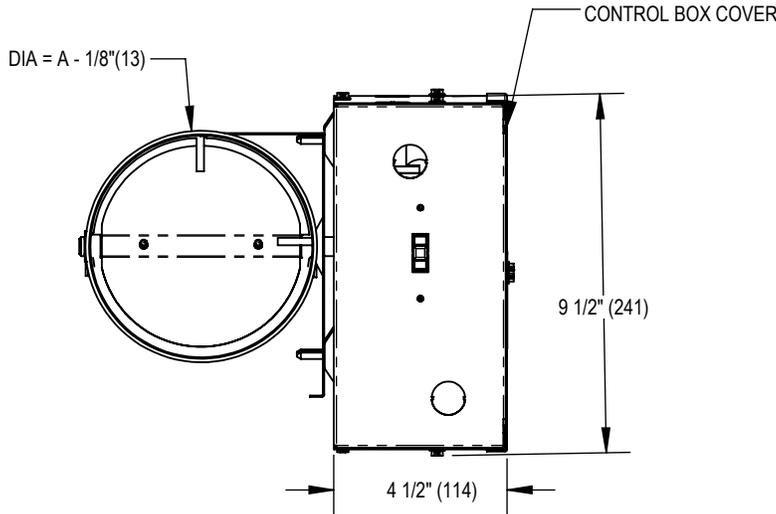


**PCV PRESSURE CONTROL VALVE  
ROUND DISK DAMPER**

UNIT SIZE	FLOW RANGE	A	L
6	0-450 CFM (0-212 L/s)	6" (152)	20 3/8" (518)
8	0-800 CFM (0-378 L/s)	8" (203)	
10	0-1350 CFM (0-637 L/s)	10" (254)	20" 7/8 (530)
12	0-2100 CFM (0-919 L/s)	12" (305)	23 1/8" (587)
14	0-3000 CFM (0-1416 L/s)	14" (356)	24 1/8" (613)
16	0-4000 CFM (0-1888 L/s)	16" (406)	26 1/8" (664)



**STANDARD CONSTRUCTION:**

- 22 GA. ZINC COATED STEEL HOUSING. MECHANICALLY SEALED AND GASKETED, LEAK RESISTANT CONSTRUCTION
- CONTROLS ASSEMBLY WILL BE SUPPLIED AS ILLUSTRATED ON RIGHT HAND SIDE UNLESS SPECIFIED OTHERWISE
- STATIC PRESSURE PROBE FACTORY PROVIDED FOR FIELD INSTALLATION
- PRESSURE INDEPENDENT ELECTRIC CONTROLLER & ACTUATOR FACTORY MOUNTED

**OPTIONS:**

**CONTROL CONFIGURATION**

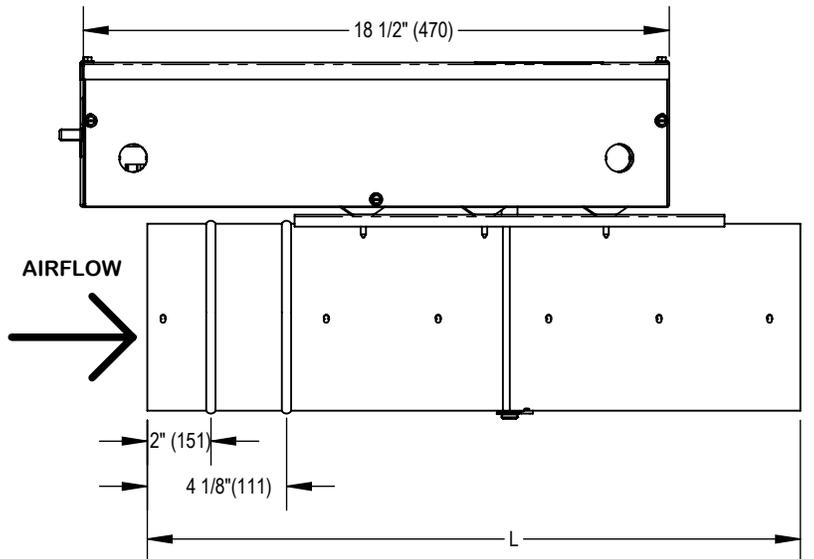
- BYPASS CONTROL CONFIGURATION
- ZONE CONTROL CONFIGURATION

**TRANSFORMER**

- NO TRANSFORMER
- 24-24V DDC ISOLATION TRANSFORMER
- 115-24V STEP DOWN TRANSFORMER
- 230-24V STEP DOWN TRANSFORMER

**NETWORK**

- BACnet INTERFACE

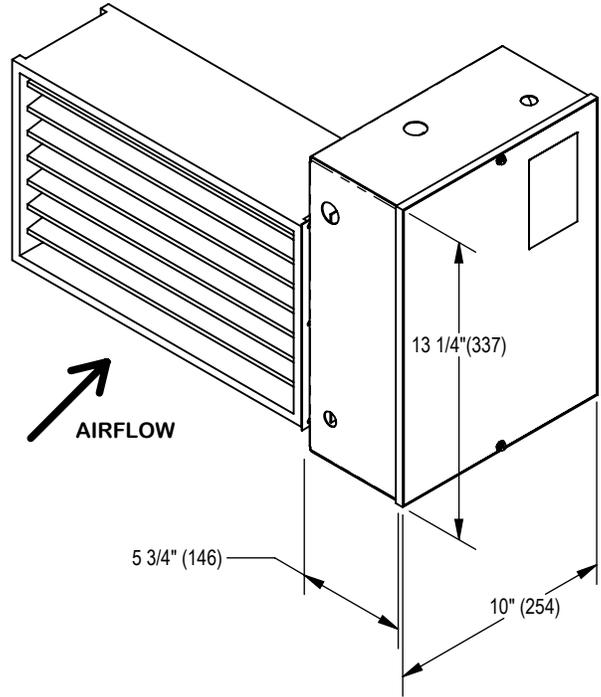
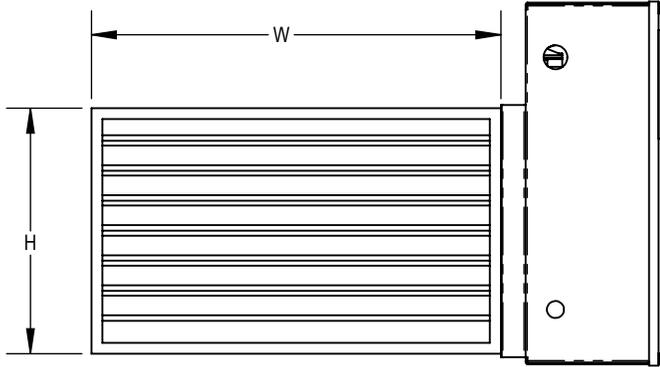


ALL METRIC DIMENSIONS [ ] ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>price</b> <sup>®</sup>	
<b>ENGINEER:</b>		APPROVED BY: PS	<b>PCV PRESSURE CONTROL VALVE</b>
<b>CUSTOMER:</b>		DRAWING NO: 277332	
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	DATE DRAWN: 9/17/2024	

**PCV PRESSURE CONTROL VALVE  
SQUARE BLADED DAMPER**

DAMPER DIMENSIONS			
W		H	
MIN	MAX	MIN	MAX
6"(152)	48"(1219)	6"(152)	36"(914)



**STANDARD CONSTRUCTION:**

- FRAME: ROLL-FORMED 20 GA. GALV STEEL HAT SECTION WITH STAKED CORNERS WITH INTERGRAL BRACING
- BLADES: 16 GA. GALV STEEL ROLL FORMED, TRIPLE VEE PROFILE
- STATIC PRESSURE PROBE FACTORY PROVIDED FOR FIELD INSTALLATION
- PRESSURE INDEPENDENT ELECTRIC CONTROLLER & ACTUATOR FACTORY MOUNTED

**OPTIONS:**

**CONTROL CONFIGURATION**

- BYPASS CONTROL CONFIGURATION
- ZONE CONTROL CONFIGURATION

**TRANSFORMER**

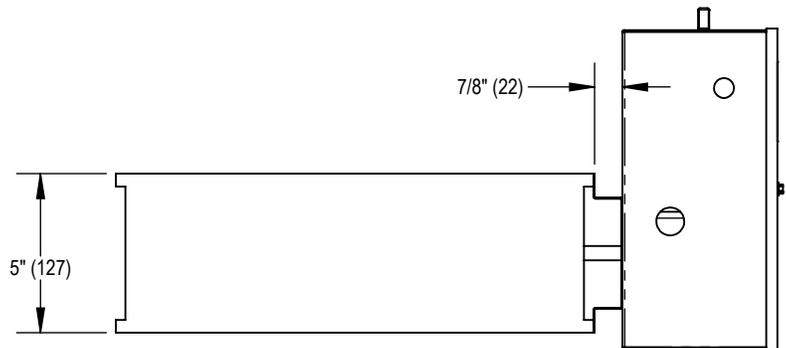
- NO TRANSFORMER
- 24-24V DDC ISOLATION TRANSFORMER
- 115-24V STEP DOWN TRANSFORMER
- 230-24V STEP DOWN TRANSFORMER

**NETWORK**

- BACnet INTERFACE

**BLADE SEALS**

- STANDARD CONSTRUCTION
- LOW LEAKAGE BLADE SEALS



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<b>PROJECT:</b>		<b>price</b> <sup>®</sup>	
<b>ENGINEER:</b>			
<b>CUSTOMER:</b>		DRAWING NO: 277332	
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	DATE DRAWN: 9/17/2024	

**PCV PRESSURE CONTROL VALVE  
PIC CONTROLLER**

**OPTIONS:**

**CONTROL CONFIGURATION**

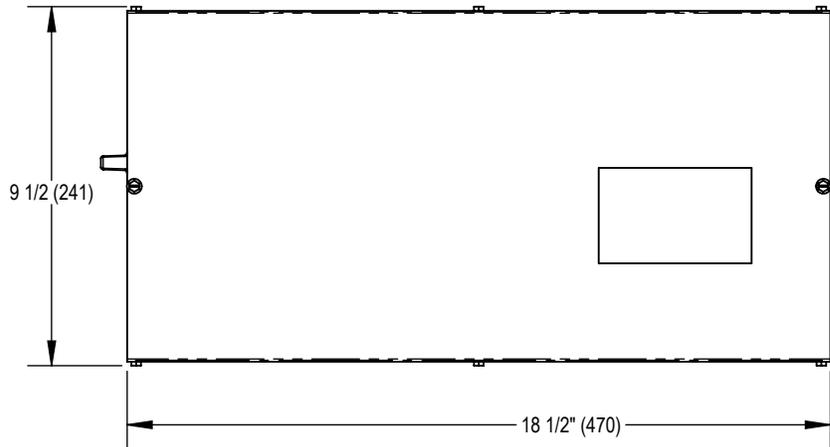
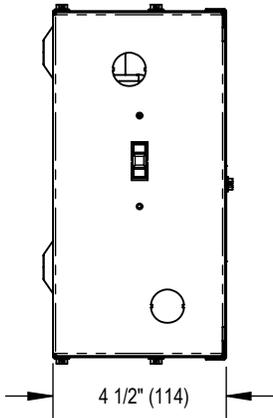
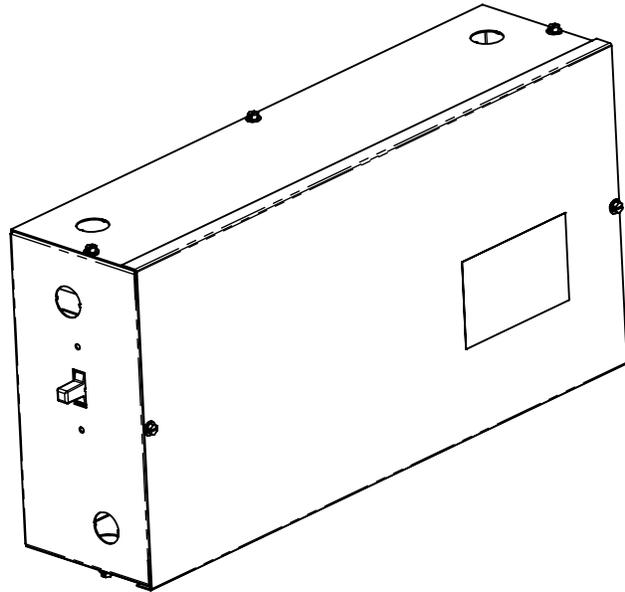
- BYPASS CONTROL CONFIGURATION
- ZONE CONTROL CONFIGURATION

**TRANSFORMER**

- NO TRANSFORMER
- 24-24V DDC ISOLATION TRANSFORMER
- 115-24V STEP DOWN TRANSFORMER
- 230-24V STEP DOWN TRANSFORMER

**NETWORK**

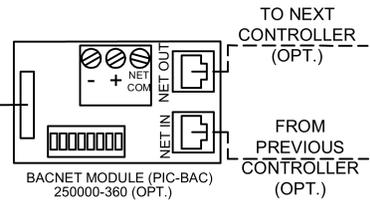
- BACnet INTERFACE



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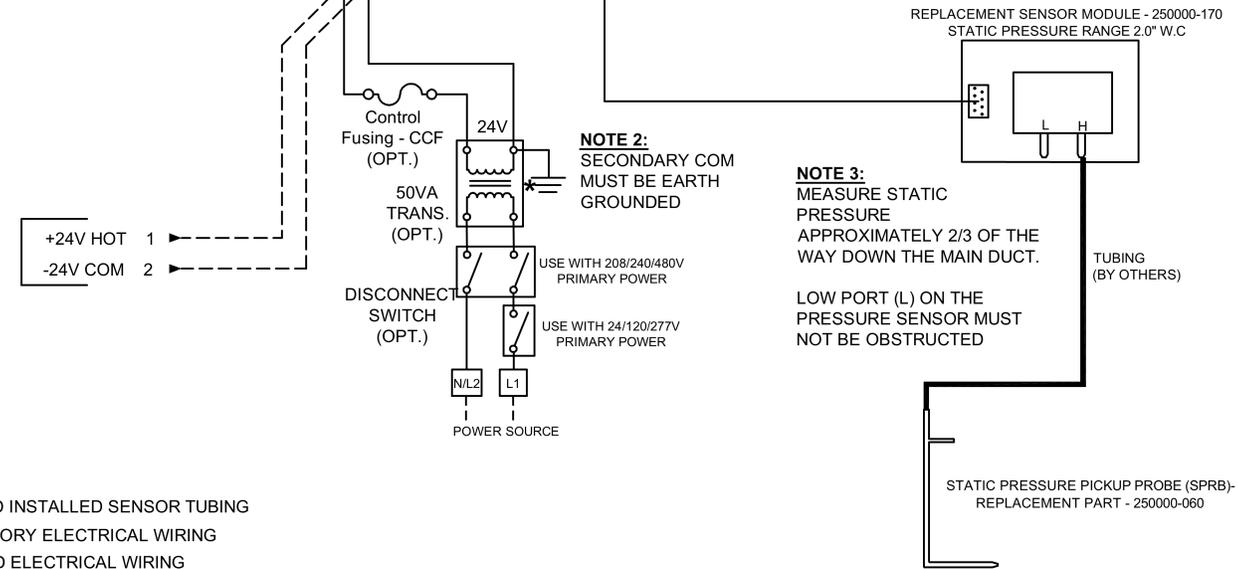
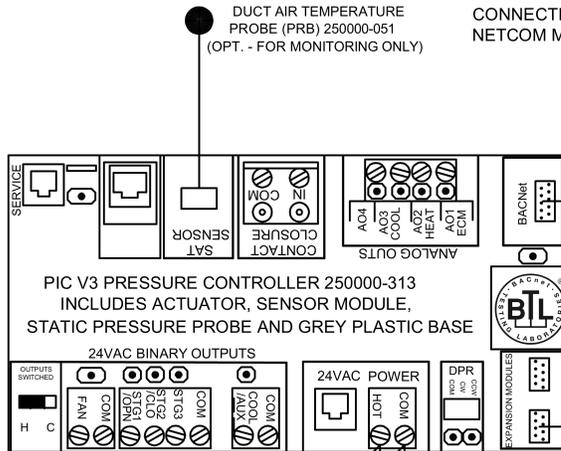
<b>PROJECT:</b>		<b>price</b> <sup>®</sup>	
<b>ENGINEER:</b>		APPROVED BY: PS	<b>PCV PRESSURE CONTROL VALVE</b>
<b>CUSTOMER:</b>		DRAWING NO: 277332	
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	DATE DRAWN: 9/17/2024	

**NOTE 6:**  
USE RJ45 JACKS FOR BACNET CONNECTION, OR 3 POSITION TERMINAL BLOCK FOR 3-WIRE CONNECTION (+, -, NETCOM) NETCOM MUST BE WIRED.

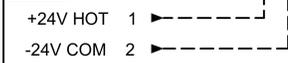


**NOTE 5:**  
A CAT-5 BACNET NETWORK CABLE IS PROVIDED BY PRICE WITH EACH CONTROLLER ORDERED WITH THE BACNET OPTION

**NOTE 4:**  
STATIC PRESSURE SETPOINT IS FACTORY CALIBRATED TO 0.15" W.C.  
IT CAN BE CHANGED IN THE FIELD USING EITHER:  
1. BACnet FRONT END  
2. PRICE USB **LINKER** INTERFACE  
3. **LCD-SETUP** TOOL (OR ANY PIC/PRODIGY LCD T-STAT)



**NOTE 1:**  
24 VAC POWER SOURCE MUST BE FIELD WIRED IF OPTIONAL TRANSFORMER IS NOT PROVIDED.  
TRANSFORMER SECONDARY COM MUST BE EARTH GROUNDED



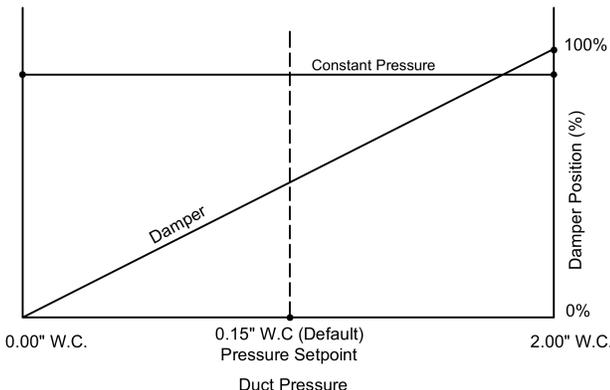
**NOTE 2:**  
SECONDARY COM MUST BE EARTH GROUNDED

**NOTE 3:**  
MEASURE STATIC PRESSURE APPROXIMATELY 2/3 OF THE WAY DOWN THE MAIN DUCT.  
LOW PORT (L) ON THE PRESSURE SENSOR MUST NOT BE OBSTRUCTED

**LEGEND**

- FIELD INSTALLED SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

**CONTROL GRAPH**



**Sequence of Operation -- Constant Pressure, Bypass.**

On startup, the controller will calibrate to the fully-open position for 2 minutes.

On an increase in duct static pressure the controller/actuator will modulate the VAV damper open to increase the amount of air bypassed.

On a decrease in duct static pressure the controller/actuator will modulate the VAV damper closed to reduce the amount of air bypassed.

Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with bypass damper fully closed), the controller/actuator will place the damper at the pre-selected setback position (default: 50 % open)

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**



APPROVED BY:

PS

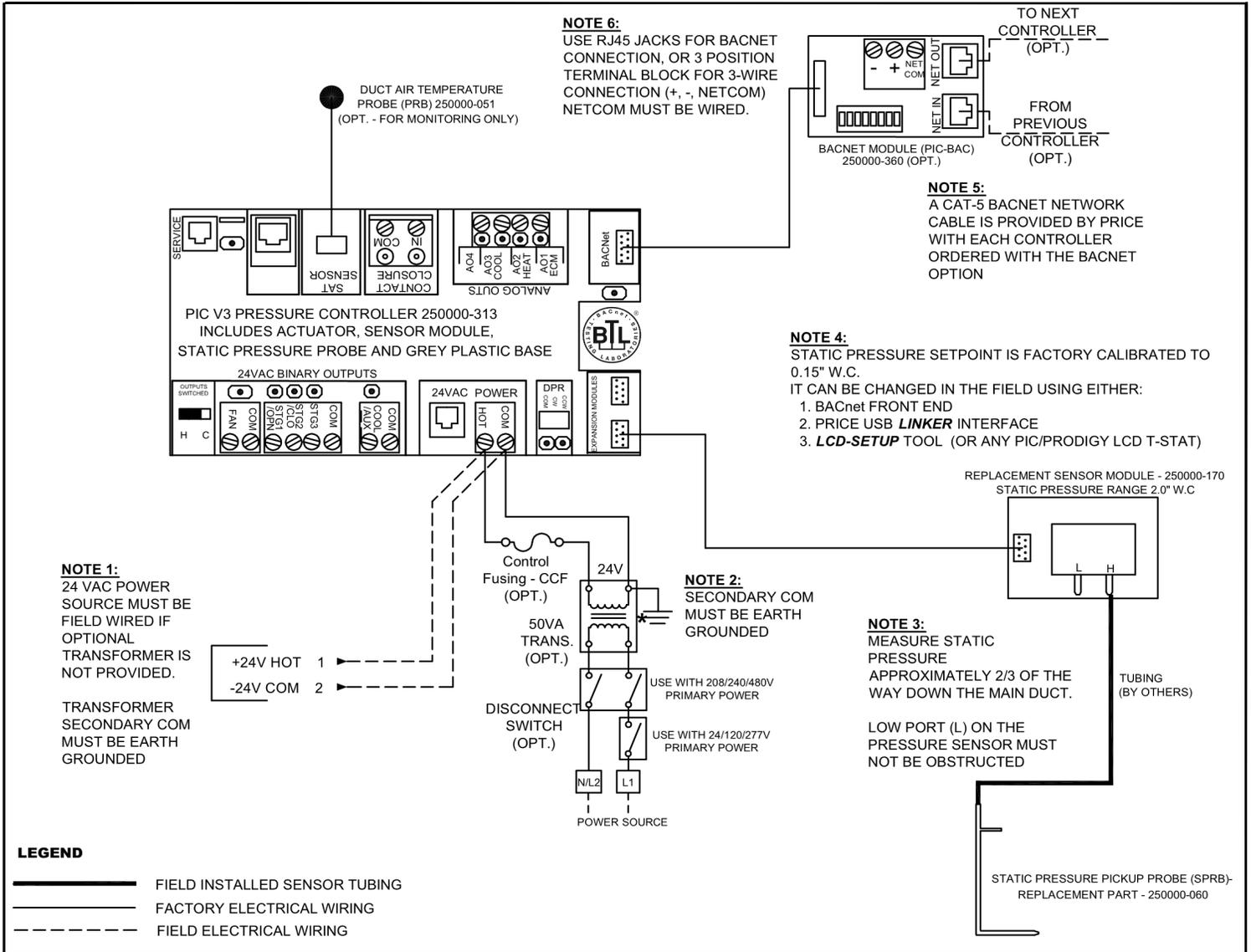
**PCV  
PRESSURE CONTROL  
VALVE**

DRAWING NO:

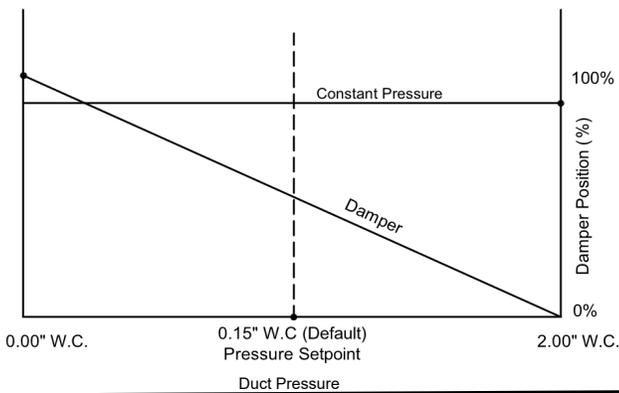
277332

DATE DRAWN:

9/17/2024



**CONTROL GRAPH**



**Sequence of Operation -- Constant Pressure, Downstream.**

On startup, the controller will calibrate to the fully-closed position for 2 minutes.

On an increase in duct static pressure the controller/actuator will modulate the VAV damper closed to decrease the amount of air delivered downstream of the box.

On a decrease in duct static pressure the controller/actuator will modulate the VAV damper open to increase the amount of air delivered downstream of the box.

Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50 % open)

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**