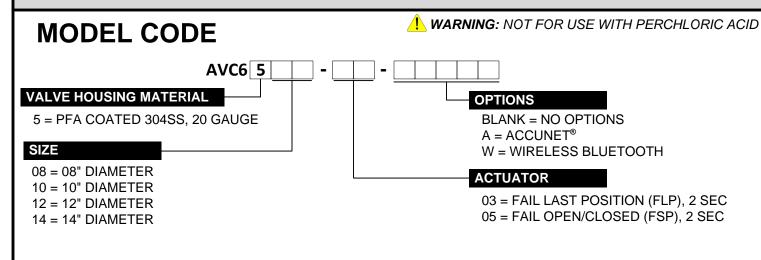
# **ACCUVALVE® MODEL AVC6500 SUBMITTAL**



#### MODEL CODE NOTES:

1. Actuator Type "5" factory default is set to "fail open".

## **OPERATING RANGE**

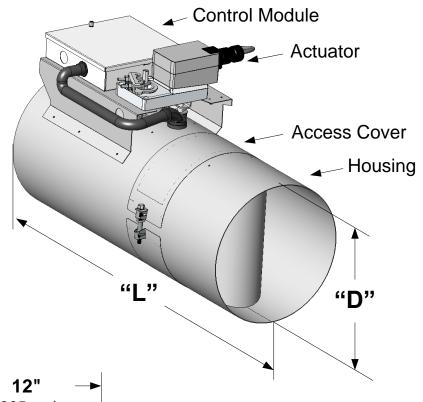
Valve Model	Min.	Flow Mea	sured	Full Scale Range		
	CFM	L/S	CMH	CFM	L/S	CMH
AVC6508-XX	80	38	136	800	378	1359
AVC6510-XX	120	57	204	1300	613	2209
AVC6512-XX	180	85	306	1790	845	3041
AVC6514-XX	250	118	425	2750	1298	4672

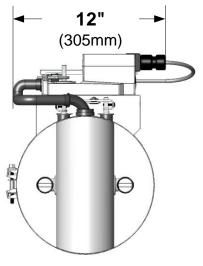
## **MATERIALS**

Materials Expos	ed to the Airstream					
Housing	PFA Coated, 304 Stainless Steel					
Compression Section	PFA Coated, 304 Stainless Steel					
Static Regain Section	PFA Coated, 304 Stainless Steel					
End Plate	PFA Coated, 304 Stainless Steel					
Blades	PFA Coated, 304 Stainless Steel					
Shafts	PFA Coated, 316 Stainless Steel					
Shaft Bearings	Teflon <sup>®</sup>					
Vortex Sensors	Kynar <sup>®</sup> PVDF					
Sensor Tubing	Viton Rubber					
Compression Seals	Viton Rubber					
Machine Screws	PFA Coated, 304 Stainless Steel					
Rivets	PFA Coated, 304 Stainless Steel					

## SIZE AND WEIGHT

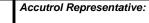
	Valve Dimensions						Woight		
Valve Model	"[	"D"		"L" "I		4"	vve	Weight	
	in.	mm	in.	mm	in.	mm	Lbs.	kg	
AVC6508-XX	7.88	200	24	610	13	330	16	7.3	
AVC6510-XX	9.88	250	24	610	15	381	20	9.1	
AVC6512-XX	11.88	300	27	686	17	432	26	11.8	
AVC6514-XX	13.88	350	30	762	19	483	30	13.6	





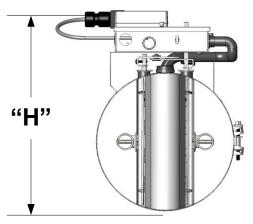
#### Inlet

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CCUTROL ≷LLC 21 Commerce Dr Danbury, CT 06810 Tel: 203-445-9991 accutrolllc.com

SUBMITTAL DRAWING PFA Coated, Round AccuValve® Model AVC6500



Discharge

DWG. NO:	AVC6500 SUBMITTAL DWG					
<b>REVISION</b> :	С	ECN:	: 2445			
REV. DATE:	1-30-19	SHEET:	1	OF:	3	

# INSTALLATION INSTRUCTIONS

WARNING: Use eye protection, cut-resistant gloves and clothing suitable for working with sheet metal. Failure to do so may result in personal injury.

1. Read all instructions prior to beginning installation.

2. Verify the tag number located on the valve label matches the HVAC schedule.

3. Locate the duct section which the valve is servicing and select a suitable mounting location for the valve. The recommended mounting position is vertical as shown in Figure 1. If vertical mounting is not possible and the valve is installed in a horizontal duct run, the valve shall be positioned with the controller on the top as shown in Figure 2.

**NOTE:** The AccuValve<sup>®</sup> does not require straight inlet duct runs to operate properly, however it's always best to locate the valve away from transitions and bends to minimize impact on system static pressure. Also be sure to select a location that will provide a minimum clearance of 14 inches (356 mm) unobstructed access to the control module, actuator and valve access cover.

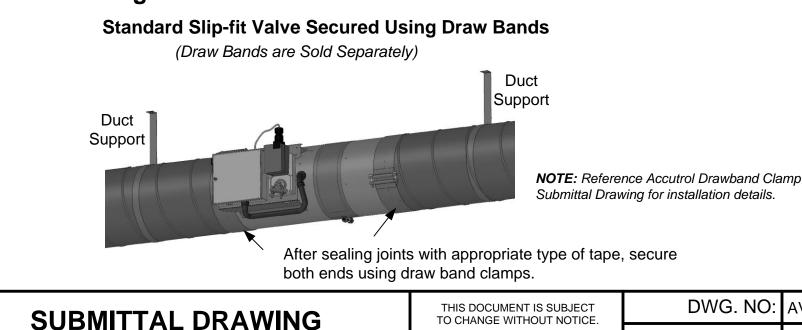
4. Provide an opening in the selected duct section sized appropriately for the valve being installed.

**NOTE:** A slip-fit valve will require an opening approximately 2" (51mm) smaller than the valve length.

- 5. Install duct hangers within 12 inches (305 mm) from each end of the valve. Reference Sheet 1 for valve weights.
- WARNING: Use duct hangers and hardware designed to support the total load of valve and associated duct sections. Failure to do so may result in serious personal injury or death.
- 6. Install the valve into the duct in accordance with the Airflow Direction Label located on the valve. Position valve for easy access to the control module side and secure to duct per Figure 3.

**NOTE:** Screws, nuts, fasteners, duct sealant, and hangers are not provided by Accutrol LLC.

## Figure 3



**CAUTION:** Handle valve with care. Do not scratch the PFA coating on inside surfaces of valve and do not drive screws through valve housing.

CUTROI

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## Accutrol Representative:

PFA Coated, Round AccuValve<sup>®</sup> Model AVC6500

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Discharge Inlet

Front of Fume Hood



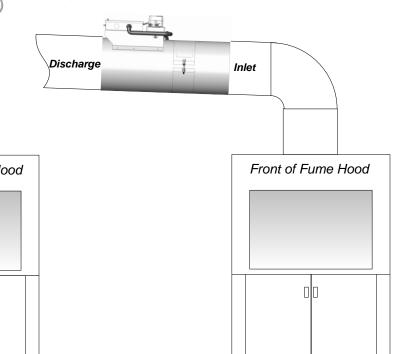




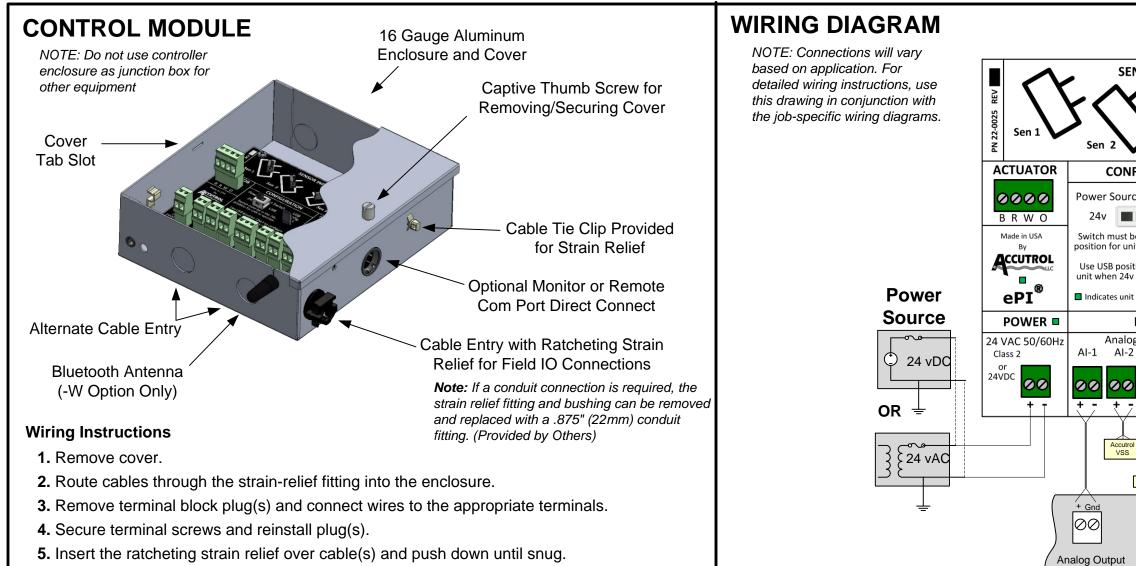
## Figure 2

Position AccuValve with Controller at Top

**NOTE:** To reduce the potential for condensation pooling inside the duct or valve, the duct shall be pitched towards the fume hood.



DWG. NO:	AVC6500 SUBMITTAL DWG					
<b>REVISION</b> :	С	ECN:	ECN: 2445			
REV. DATE:	1-30-19	SHEET:	2	OF:	3	



6. Reinstall cover and secure thumb screw.

# **ELECTRICAL SPECIFICATIONS**

#### **POWER:**

24vAC +/-20%, 50/60Hz. (Class 2 Power Source) or 24vDC +/-10%.

	Valve sizes 06" through 24"						
Actuato	MAX PO	WER WITH	MAX POWER WITH				
Type	NO M	NO MONITOR		FHM1 CONNECTED			
Type	24 vAC	24 vDC	24 vAC	24 vDC			
3	27 VA	14 W	31 V A	16 W			
5	28 V A	16 W	32 V A	18 W			
7	14 V A	6 W	18 V A	8 W			

Valve sizes 36" and 48"						
Actuator Type	MAX POWER WITH		MAX POWER WITH			
	NO MONITOR		FHM1 CONNECTED			
	24 vAC	24 vDC	24 vAC	24 vDC		
3	49 V A	25 W	53 VA	27 W		
5	51 V A	29 W	55 VA	31 W		
7	19 VA	9 W	23 VA	11 W		

SENSOR INPUTS CONFIGURATION Power Source Switch 24v USB Switch must be in the 24v osition for unit to operate Use USB position ONLY to configure unit when 24v power is not available. Indicates unit is powered from USB port. INPUTS Analog AI-2 AI-3 00 00 + -Accutrol VSS Accutrol HSS DDC Controller

**CAUTION:** Maintain polarity if power source is used to power multiple devices otherwise equipment may be damaged.

## **INPUTS:**

Analog Inputs: AI-1, AI-2 and AI-3 (Software Selectable) Voltage: 0-10v Range, Input Impedance = 100K ohms Current: 0-20mA Range, Input Impedance = 500 ohms Resistance: 0-20K Range, 500uA Internal Current Source

**Digital Inputs:** 2 dry-contact inputs

#### OUTPUTS:

Analog Outputs AO-1, AO-2 (software selectable): 0-20mA, 4-20mA, 0-10v, 2-10v, 0-5v or 1-5v V-out capable of driving 1 K-ohm load @ 10v, I-out capable of driving 1K-ohm load Alarm Output: DPDT Relay, NC/NO Contacts, 1A @ 30vDC or 0.3A @ 125 vAC

RS-485: EIA 485 BACnet MS/TP 2-wire, Receiver Impedance: 1/4 unit load Note: Network bias and field termination are NOT provided by the AVC Control Module

MONITOR PORT, RJ-45: Connect to Accutrol monitor or remote com port. Connect using factory supplied cable only

**CONFIGURATION PORT: USB Type C, Wireless Bluetooth (Optional)** 

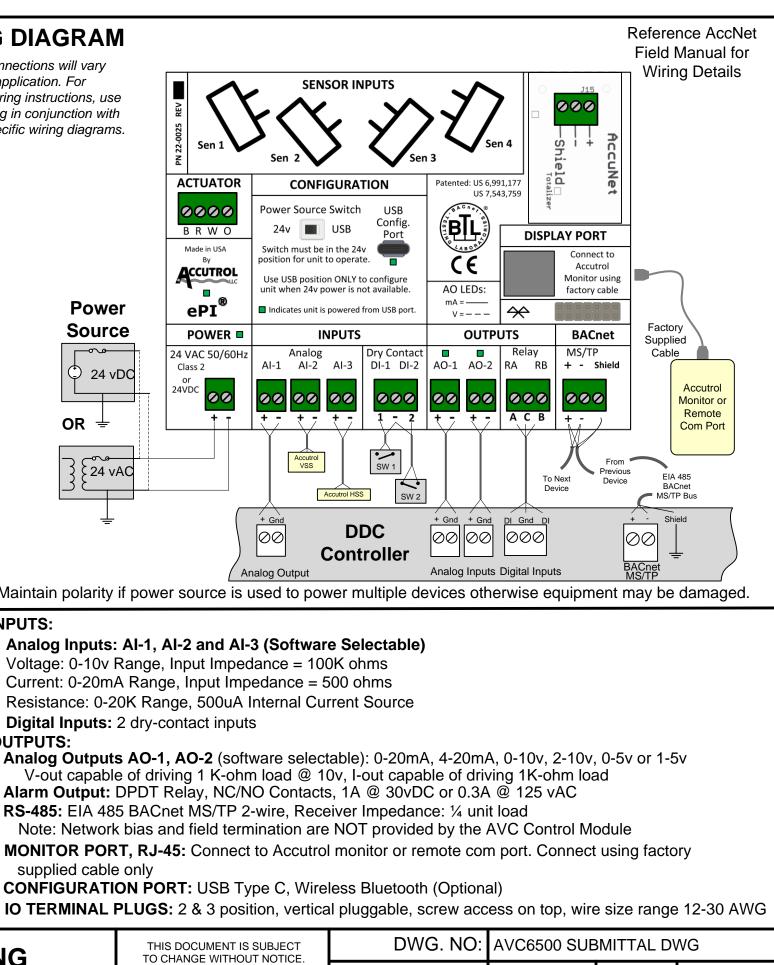


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