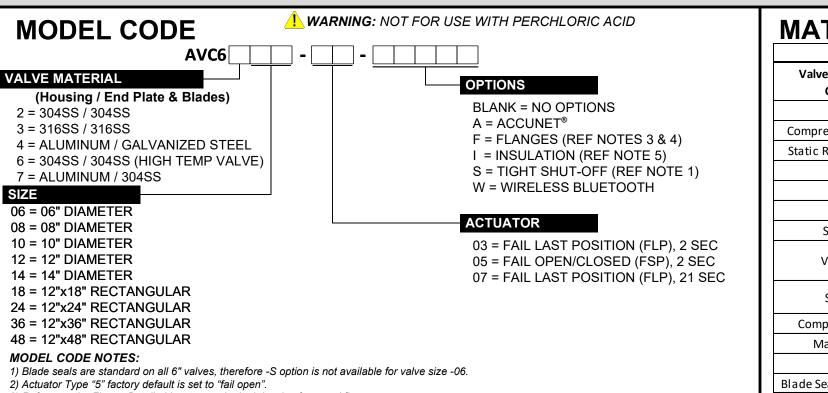
# ACCUVALVE® MODEL AVC6000 SUBMITTAL



3) Reference the Flange Detail - Vanstone submittal drawing for round flanges

4) Reference the Flange Detail – Rectangular submittal drawing for rectangular flanges.

5) Insulation is not available on High Temperature AccuValve, Reference the Insulation detail submittal drawing.

## **OPERATING RANGE**

Flow Range									
Valve Model	Min.	Flow Meas	sured	Full Scale Range					
valve would	CFM	L/S	CMH	CFM	L/S	CMH			
AVC6X06-XX	30	14	51	315	149	535			
AVC6X08-XX	80	38	136	800	378	1359			
AVC6X10-XX	120	57	204	1300	613	2209			
AVC6X12-XX	180	85	306	1790	845	3041			
AVC6X14-XX	250	118	425	2750	1298	4672			
AVC6X18-XX	260	123	442	3200	1510	5437			
AVC6X24-XX	350	165	595	4000	1888	6796			
AVC6X36-XX	520	245	883	6400	3020	10874			
AVC6X48-XX	700	330	1189	8000	3775	13592			

Temperature Range									
Valve Material	Airst	ream	Ambient						
Code	Min. Temp.	Min. Temp. Max. Temp.		Max.Temp.					
2, 3, 4, 7	-20° F (-29° C)	165° F (74° C)	-20° F (-29° C)	125° F (52° C)					
6	<b>6</b> -20° F (-29° C)		-20° F (-29° C)	125° F (52° C)					

## MATERIALS

Materials Exposed to the Airstream									
Valve Material Code	(2) 304SS	(3) 31655	(4) Aluminum	(6) 304SS HIGH TEMP	(7) Aluminum & 304SS				
Housing	304L SS (20 GA.)	316L SS (20 GA.)	Alum 5052-H32 (18 GA.)	304L SS (20 GA.)	Alum 5052-H32 (18 GA.				
Compression Section	304L SS (20 GA.)	316L SS (20 GA.)	Alum 5052-H32 (16 GA.)	304L SS (20 GA.)	Alum 5052-H32 (16 GA.)				
Static Regain Section	304L SS (20 GA.)	316L SS (20 GA.)	Alum 5052-H32 (18 GA.)	304L SS (20 GA.)	Alum 5052-H32 (18 GA.)				
End Plate	304L SS (16 GA.)	316L SS (16 GA.)	Galv. Steel (16 GA.)	304LSS (16 GA.)	304LSS (16 GA.)				
Blades	304L SS (16 GA.)	316L SS (16 GA.)	Galv. Steel (16 GA.)	304LSS (16 GA.)	304LSS (16 GA.)				
Shafts	316L SS	316L SS	316L SS	316L SS	316L SS				
Shaft Bearings	Teflon	Teflon	Teflon	Teflon	Teflon				
Vortex Sensors	Polycarbonate Plastic, UL94-V0	Polycarbonate Plastic, UL94-V0	Polycarbonate Plastic, UL94-VO	303 SS	Polycarbonate Plastic, UL94-VO				
Sensor Tubing	Polyurethane (Ether-based)	Polyurethane (Ether-based)	Polyurethane (Ether-based)	Viton Rubber	Polyurethane (Ether-based)				
Compression Seals	Viton Rubber	Viton Rubber	EPDM Rubber	Viton Rubber	EPDM Rubber				
Machine Screws	304 SS	316 SS	304 SS	304 SS	304 SS				
Rivets	304 SS	316 SS	304 SS	304 SS	304 SS				
Blade Seals (optional)	Viton Rubber	Viton Rubber	EPDM Rubber	Viton Rubber	EPDM Rubber				

## SIZE AND WEIGHT

	Valve Dimensions (Reference Sheet 2)					Weight						
Valve Model	"D" or "W" "L"		L"	" "H"		Stainless Steel		Aluminum		Flange Add		
	in.	mm	in.	mm	in.	mm	Lbs.	kg	Lbs.	kg	Lbs.	kg
AVC6X06-XX	5.88	149	22	559	10	254	13	5.9	9	4.1	2.0	0.9
AVC6X08-XX	7.88	200	24	610	13	330	16	7.3	12	5.4	2.6	1.2
AVC6X10-XX	9.88	250	24	610	15	381	20	9.1	14	6.4	3.2	1.5
AVC6X12-XX	11.88	300	27	686	17	432	26	11.8	16	7.3	4.5	2.0
AVC6X14-XX	13.88	350	30	762	19	483	30	13.6	20	9.1	5.2	2.4
AVC6X18-XX	17.88	454	30	762	19	483	43	19.5	26	11.8	5.0	2.3
AVC6X24-XX	23.88	607	30	762	19	483	49	22.2	29	13.2	5.5	2.5
AVC6X36-XX	35.88	911	30	762	19	483	97	44	59	26.8	10.0	4.5
AVC6X48-XX	47.88	1216	30	762	19	483	109	49.2	69	31.3	11.0	5.0

Accutrol Representative:

21 Commerce Dr

Tel: 203-445-9991

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Danbury, CT 06810

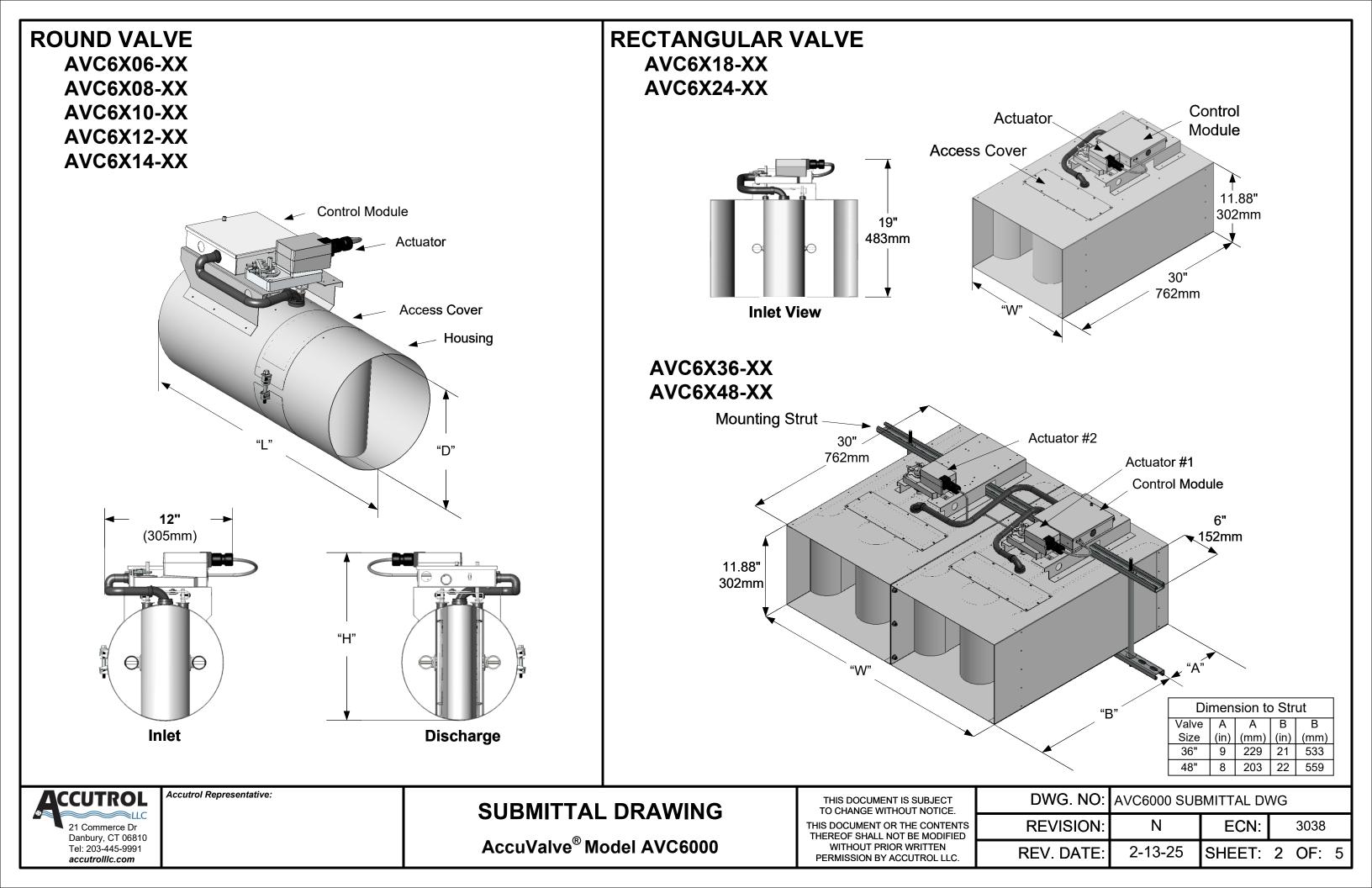
SUBMITTAL DRAWING

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AccuValve<sup>®</sup> Model AVC6000

DWG. NO:	AVC6000 SUBMITTAL DWG						
<b>REVISION</b> :	N ECN: 3038						
REV. DATE:	2-13-25	SHEET:	1	OF:	5		



# **ROUND VALVE: INSTALLATION INSTRUCTIONS**

1. Read all instructions prior to beginning installation.

**NOTE:** For detailed installation instructions, refer to the AccuValve<sup>®</sup> Installation & Operation Manual.

- 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.

**NOTES:** 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. 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. The AccuValve<sup>®</sup> is not position sensitive. It can be installed in any plane or rotational axis without having impact on the performance.

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" (50.8 mm) smaller than the valve length, whereas a flanged valve will require an opening the same length as the valve. Reference Sheet 1 for valve dimensions.

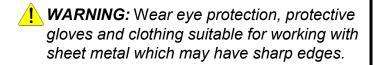
5. Install duct hangers within 12 inches (305 mm) from each end of the valve. Reference Sheet 1 for valve weights.

**!**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.

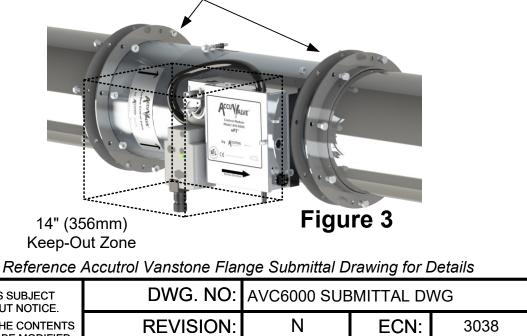
6. Install the value into the duct in accordance with the Airflow Direction Label located on the value. Position the value for easy access to the controller side then secure to duct per the appropriate Figure below.

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

## Standard Slip-fit Valve Secured Using Tek Screws Standard Slip-fit Valve Secured Using Draw Bands (Draw Bands are Sold Separately) Seal joints using duct sealant and secure valve After sealing joints with appropriate type of tape, secure to duct at both ends using Tek screws. both ends using draw band clamps. using appropriate hardware. Figure 2 Figure 1 14" (356mm) 14" (356mm) 14" (356mm) Keep-Out Zone Keep-Out Zone Keep-Out Zone Reference Accutrol Draw Band Clamp Submittal Drawing for Details Accutrol Representative: THIS DOCUMENT IS SUBJECT SUBMITTAL DRAWING TO CHANGE WITHOUT NOTICE. THIS DOCUMENT OR THE CONTENTS 1 Commerce Dr THEREOF SHALL NOT BE MODIFIED Danbury, CT 06810 AccuValve<sup>®</sup> Model AVC6000 WITHOUT PRIOR WRITTEN Tel: 203-445-9991 PERMISSION BY ACCUTROL LLC accutrolllc.com



Flanged Valve "Option F" Secured Using Companion Flanges (Companion Flanges are Sold Separately) Install companion flanges to duct ends and secure to duct. Apply duct sealant and/or gasket to flange face. Install valve and rotate Vanstone flanges to align with bolt holes on the duct flanges. Secure flanges using appropriate hardware.



REVISION:	IN	ECN:		3038	
REV. DATE:	2-13-25	SHEET:	3	OF:	5

## **RECTANGULAR VALVE: INSTALLATION INSTRUCTIONS**

1. Read all instructions completely before installing the valve.

**WARNING:** Wear eye protection, protective gloves and clothing suitable for working with sheet metal which may have sharp edges.

- 2. Verify the tag number located on the valve label matches the HVAC schedule.
- 3. Select optimum mounting location for the valve.

**NOTE**: The AccuValve<sup>®</sup> does not require straight inlet duct runs to operate properly, however it's always best to locate any duct device away from transitions and bends to minimize impact on system static pressure.

4. Allow a minimum clearance of 14 inches (356 mm) unobstructed access to the controller, actuator and valve access cover.

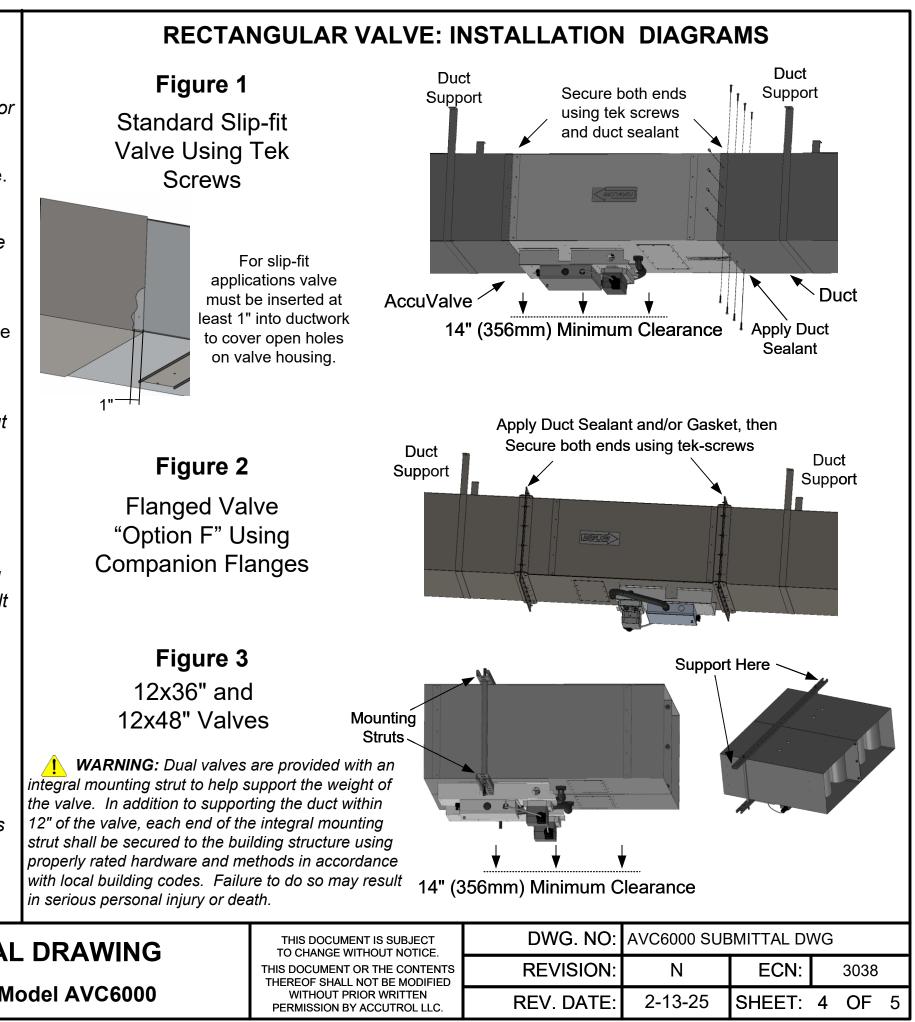
**NOTE:** Rectangular values are normally installed with the "access side" facing downwards for easy access. However, the AccuValve<sup>®</sup> is not position sensitive. It can be installed in any plane or rotational axis without having impact on the performance.

5. To support the weight of the valve, install duct hangers within 12 inches (305) mm) of valve connections. The 12x36" and 12x48" valves include an integral mounting strut which shall be used to support the valve in addition to the duct hangers. Reference Sheet 1 for valve weights.

**WARNING:** Use duct hangers and hardware designed to support the total load of the valve and associated duct sections. Failure to do so may result in serious personal injury or death.

6. After the duct section is properly supported to carry the weight of the valve, install valve into the duct in accordance with the Airflow Direction Label located on the valve. Position valve so the controller, actuator and access cover are easily accessible. For 12x36" and 12x48" valves, attach the integral mounting bracket to threaded rod or duct hangers capable of supporting valve weight.

7. Reference the appropriate diagram to the right for installation details. NOTE: Screws, nuts, fasteners, duct sealant, hangers, companion flanges and gaskets are not provided by Accutrol LLC.



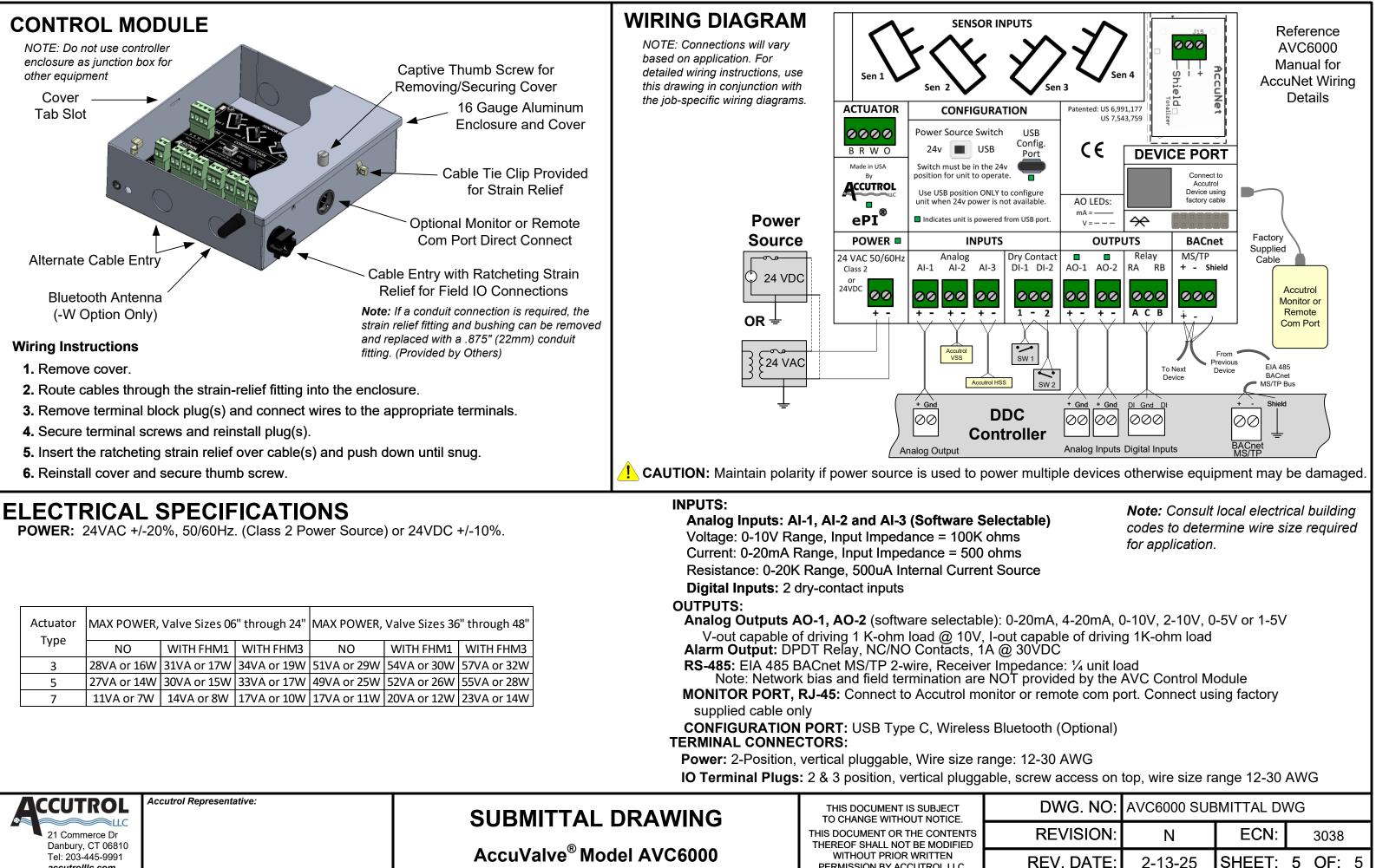
# SUBMITTAL DRAWING

AccuValve<sup>®</sup> Model AVC6000



Accutrol Representative:





Actuator Type	MAX POWER, Valve Sizes 06" through 24" MAX POWER, Valve Sizes 36" through 48							
туре	NO	WITH FHM1	WITH FHM3	NO	WITH FHM1	WITH FHM3		
3	28VA or 16W	31VA or 17W	34VA or 19W	51VA or 29W	54VA or 30W	57VA or 32W		
5	27VA or 14W	30VA or 15W	33VA or 17W	49VA or 25W	52VA or 26W	55VA or 28W		
7	11VA or 7W	14VA or 8W	17VA or 10W	17VA or 11W	20VA or 12W	23VA or 14W		

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