

# TSI VENTURI VALVE INSTALLATION INSTRUCTIONS

APPLICATION NOTE LC-130

- Carefully unpack the valve from the shipping container in the area where it will be mounted. Verify the size and flow range of the valve by comparing the data on the valve label to the specifications listed on the schedule or architectural drawings.

**Notes:** Do not carry the valve by the linkage, cone bracket, or any other control aspects that are mounted onto the valve body.

The central cone shaft extends out of the valve body inlet opening when in full open position. Do not stand the Venturi Valve on inlet opening side when the Venturi Valve is in full open position.

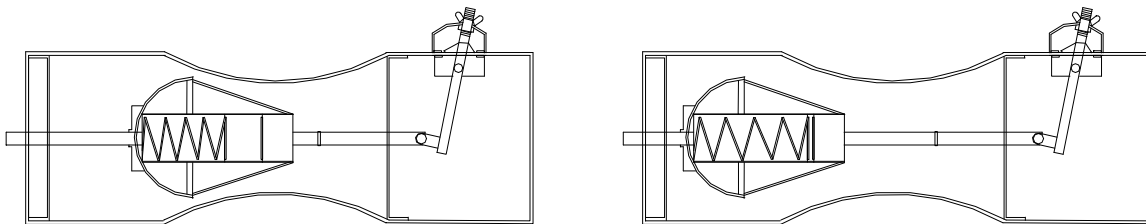


MODEL NO.	VVT108MHAXXZCX	
REF. :	4500017577	JOB: LV842D
CFM :	60/500	
LOC. :	CORNELL	
TAG :	CORNELL	

VARIABLE VOLUME		
0 V. (MIN)	60	CFM
2 V.	87	CFM
4 V.	145	CFM
6 V.	224	CFM
8 V.	352	CFM
10 V. (MAX)	500	CFM

CONSTANT VOLUME	
SET POINT	
	CFM
VERIFIED	<input checked="" type="checkbox"/>
INIT.	4.6.
CODE:	26-25

- Verify the cone direction by checking the calibration data label mounted on the cone and comparing the arrow on the label to the direction of cone travel. The cone should move freely in the direction that the arrow is pointing.
- Check the valve action by moving the cone by hand to ensure free travel in the orientation that the valve will be mounted in (vertical or horizontal).



**Note:** If the valve is configured and calibrated for horizontal or vertical operation, the valve must be level when mounted in the ductwork to operate precisely.



4. When mounting the valve in the ductwork, support the ductwork within 12 inches of the valve. Do **not** crimp or deform the valve ends. Make sure the actuator linkage rotates freely and does not interfere with any obstruction (the cone shaft extends out of the valve inlet opening in full open actuator position). It does not matter if the actuator and linkage is up, down or sideways. However, for future maintenance or adjustment, the linkage is best positioned facing down.

**Note:** Before mounting the valve to the ductwork, verify the direction of flow within the duct and align the valve accordingly.

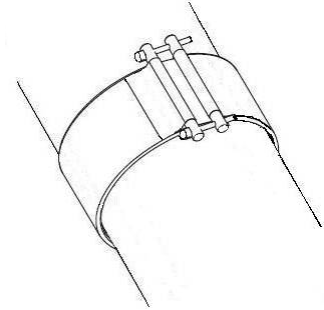
### For Slip-In Valves

1. Connect the inlet side of the valve to the ductwork using industry accepted mounting or connection practices such as drawband or bolting.

**Note:** No ductwork should be mounted inside the valve. Ductwork extending into the valve could interfere with valve operation.

2. Connect the outlet side of the valve to the ductwork using industry accepted mounting or connection practices such as drawband or bolting.

**Note:** No ductwork should be mounted inside the valve. Ductwork extending into the valve could interfere with valve operation.

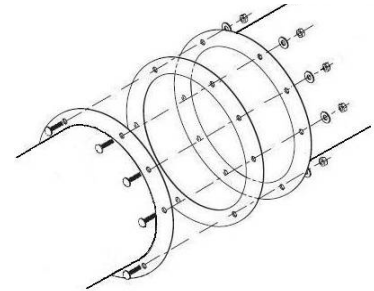


### For Valves with Flanges

1. Connect the flange on the inlet side of the valve to the ductwork flange using industry standard mounting nuts, bolts, washers and gasket material.

**Note:** The Venturi Valve flange companion ring is provided by others.

2. Connect the flange on the outlet side of the valve to the ductwork flange using industry standard mounting nuts, bolts, washers and gasket material.
3. Seal all the ductwork connections and verify that no leaks are present.
4. Refer to the controller installation instructions for correct wiring information.



**WARNING:** TSI Venturi Valves are intended for indoor installation only.



UNDERSTANDING, ACCELERATED

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