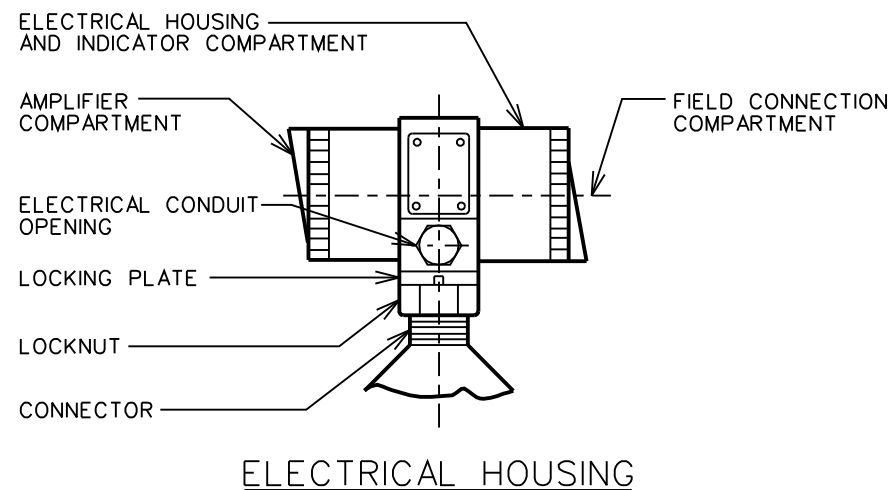
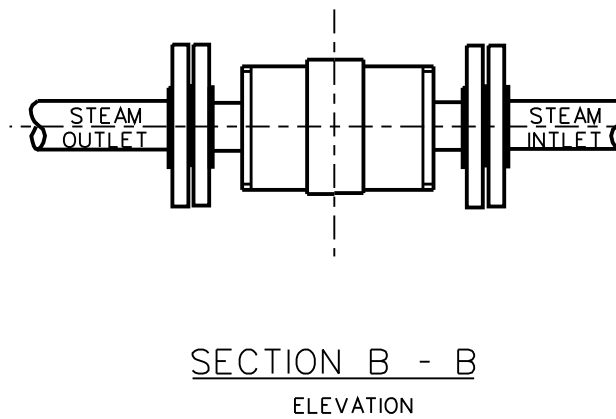
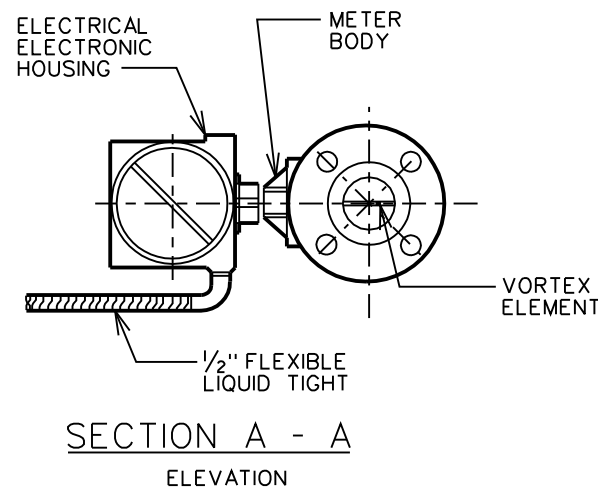
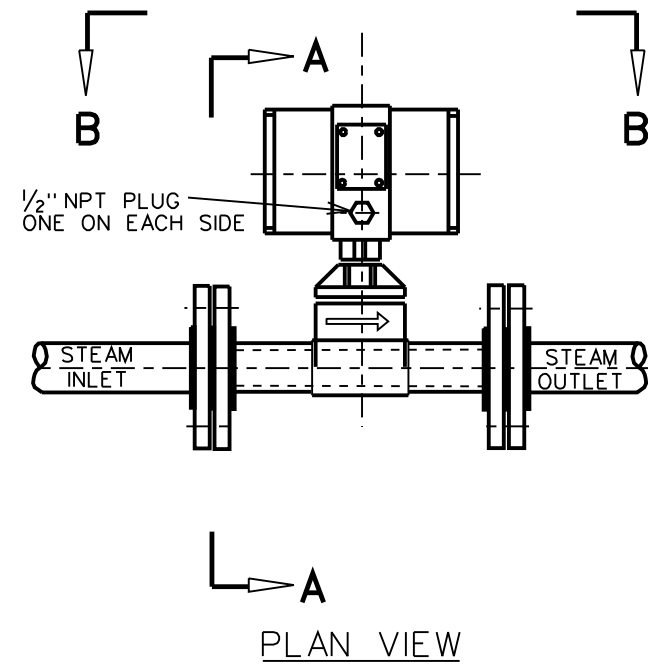


C-87891-03	
REVISIONS	
1	
CHG'D. DESCRIPTION OF ELECT. HOUSING W.J.T. 1/10/90	
2	
REVISED METER ORIENTATION 09/15/97	
REVISED BY GENTEK 08/15/03	
3	
CONVERTED TO MICROSTATION: R.P.R. 7/18/05	
4	
MODIFIED OPER, ADDED SPEC'S LRD(SEA) 01/20/06	

S-588 NOTE: TYPICAL ASSEMBLY AND INSTALLATION OF VORTEX FLOWMETER



(a) INSTALLATION POSITION

- (1) THE VORTEX FLOW METER SHOULD BE MOUNTED WITH ELECTRONIC HOUSING LOCATED IN THE 3 O'CLOCK OR 9 O'CLOCK POSITION. EITHER CONDUIT CONNECTION CAN BE USED, TO AVOID ACCUMULATION OF MOISTURE AT THE TERMINAL BLOCK, THE REMAINING CONDUIT CONNECTION MUST BE SEALED WITH 1/2" NPT PLUG
- (2) THE CONDUIT CONNECTED TO THE INSTRUMENT MUST HAVE AN INTERNAL SEAL AND BE CONNECTED TIGHTLY TO EXCLUDE MOISTURE FROM THE TERMINAL BLOCK ENCLOSURE.
- (3) PIPING VIBRATION SHALL BE MINIMIZED.

(b) REPOSITIONING THE ELECTRICAL HOUSING

THE FLOW METER ELECTRONICS HOUSING MAY BE REPOSITIONED AT 90DEG. INCREMENTS UP TO 360DEG. MAXIMUM BY ROTATING ELECTRICAL HOUSING IN A COUNTERCLOCKWISE DIRECTION. DO NOT BACK OFF FLOW METER HOUSING MORE THAN ONE FULL TURN. THIS IS A SAFETY CODE REQUIREMENT FOR THREAD ENGAGEMENT TO MAINTAIN AN EXPLOSION PROOF CONDITION. IF IN DOUBT OF THE PROPER POSITION, THE CONNECTOR AND HOUSING SHOULD BE ROTATED CLOCKWISE UNTIL THE INTERNAL STOP IS ENGAGED, THEN BACK OFF THE REQUIRED AMOUNT OF ALIGNMENT, BUT NOT MORE THAN ONE FULL TURN.

- (1) UNSCREW HOUSING LOCKNUT TO BOTTOM OF THREAD.
- (2) LOCKING PLATE SHOULD FALL DOWN ON SHAFT. IF IT DOES NOT, PRY OUT WITH SCREWDRIVER.
- (3) ROTATE ELECTRICAL HOUSING IN A COUNTERCLOCKWISE DIRECTION TO DESIRE POSITION.
- (4) NOTE RECESS ON BOTTOM OF ELECTRICAL HOUSING WHICH LOCKING PLATE FITS INTO. SCREW THE LOCKING NUT HAND TIGHT MAKING SURE LOCKING PLATE FITS INTO RECESS ON BOTTOM OF ELECTRICAL HOUSING.
- (5) SCREW THE LOCKNUT FIRMLY.

(c) WIRING

- (1) REMOVE ONLY FIELD CONNECTION COMPARTMENT COVER TO MAKE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH SPECIFICATION NO. S-592. KEEP AMPLIFIER COMPARTMENT COVER TIGHTLY CLOSED TO ENSURE MAXIMUM PROTECTION TO THE AMPLIFIER AND TO PREVENT MOISTURE AND ATMOSPHERIC CONTAMINANTS FROM ENTERING THE COMPARTMENT.
- (2) THE ELECTRICAL HOUSING IS PROVIDED WITH TWO ELECTRICAL CONDUIT OPENINGS FOR ACCESS FROM EITHER SIDE OF THE FLOW METER AND FOR EASE IN PULLING WIRING INTO ELECTRICAL CONNECTION COMPARTMENT.
- (3) PLUG UNUSED CONDUIT CONNECTIONS WITH 1/2" NPT PLUG.

(d) INSTALLATION PROCEDURE

- (1) THE FLANGE SIZE OF THE ADJOINING PIPE MUST BE THE SAME NOMINAL SIZE AND RATING AS THE FLOW METER.
- (2) GASKETS ARE REQUIRED AND ARE SUPPLIED BY THE COMPANY. CHECK THAT THE ID OF THE GASKET IS LARGER THAN THAT OF THE FLOW METER AND PIPE AND THAT THEY DO NOT PROTRUDE INTO THE PROCESS PIPING.
- (3) INSERT GASKETS BETWEEN BODY OF FLOW METER AND ADJACENT FLANGES. POSITION GASKETS SO THAT ID OF GASKETS ARE CENTERED ON ID OF FLOW METER AND ADJACENT PIPING.
- (4) VISUALLY INSPECT FOR CONCENTRICITY OF MATING FLANGES.
- (5) TIGHTEN BOLTS ALTERNATELY.

STEAM ENGINEERING DEPT.
SPECIFICATION NO. S-588

SEE NOTES ON ATTACHED SHEET OR REVERSE SIDE

**TYPICAL ASSEMBLY AND INSTALLATION
OF VORTEX FLOW METER**

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
STEAM DISTRIBUTION ENGINEERING

DATE 09-01-88	DWG. NO. S-588	REV. 4
LAST REV. 01-20-06		