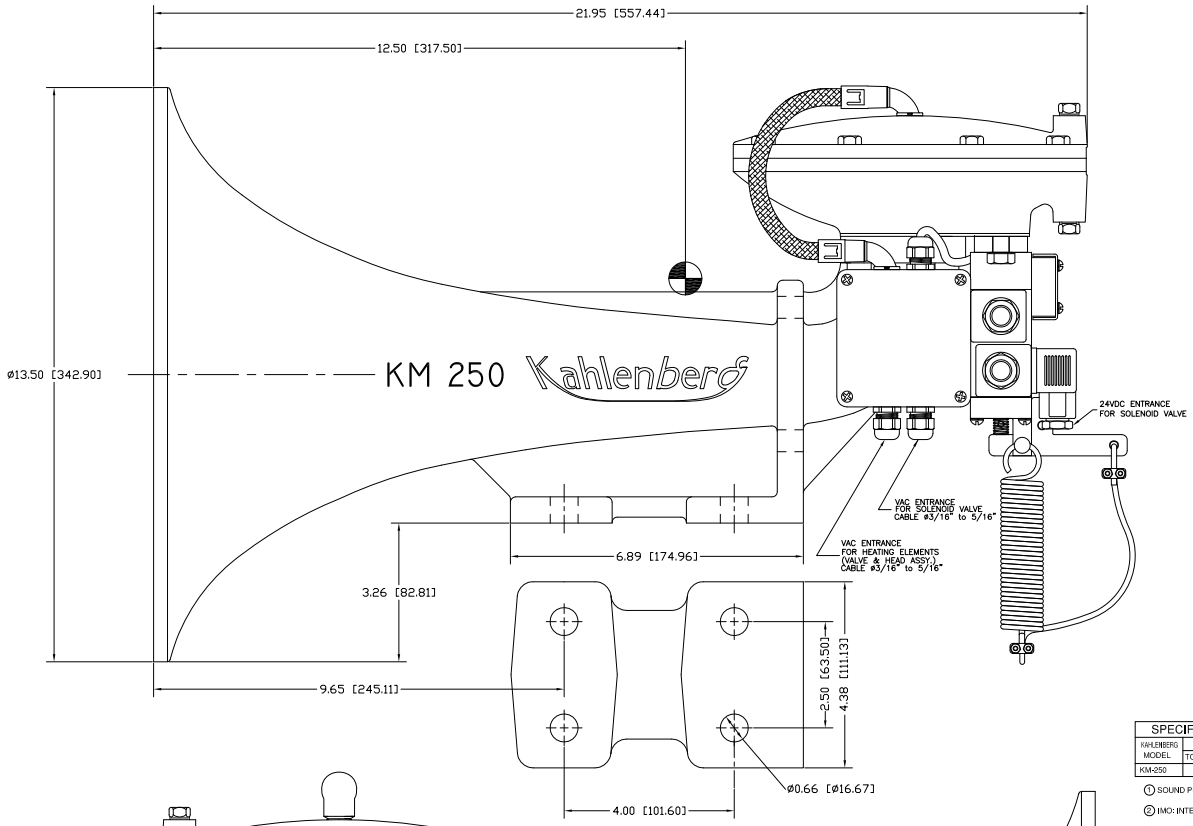
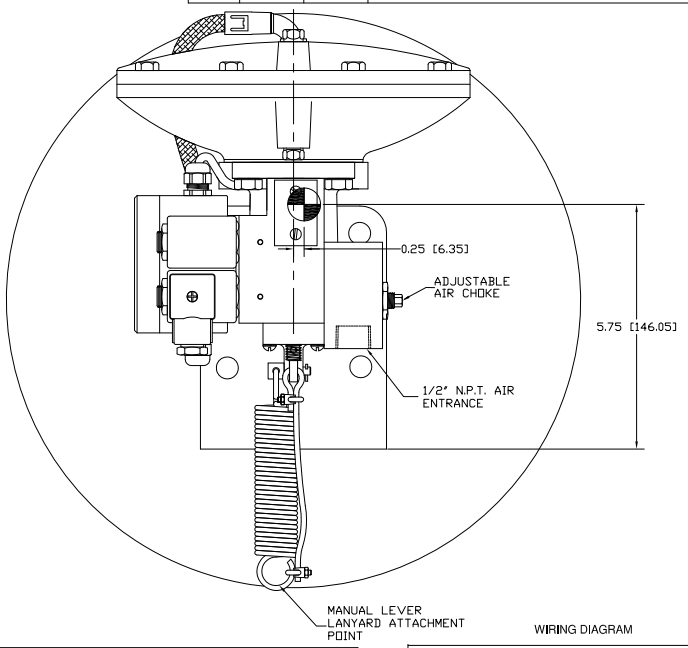
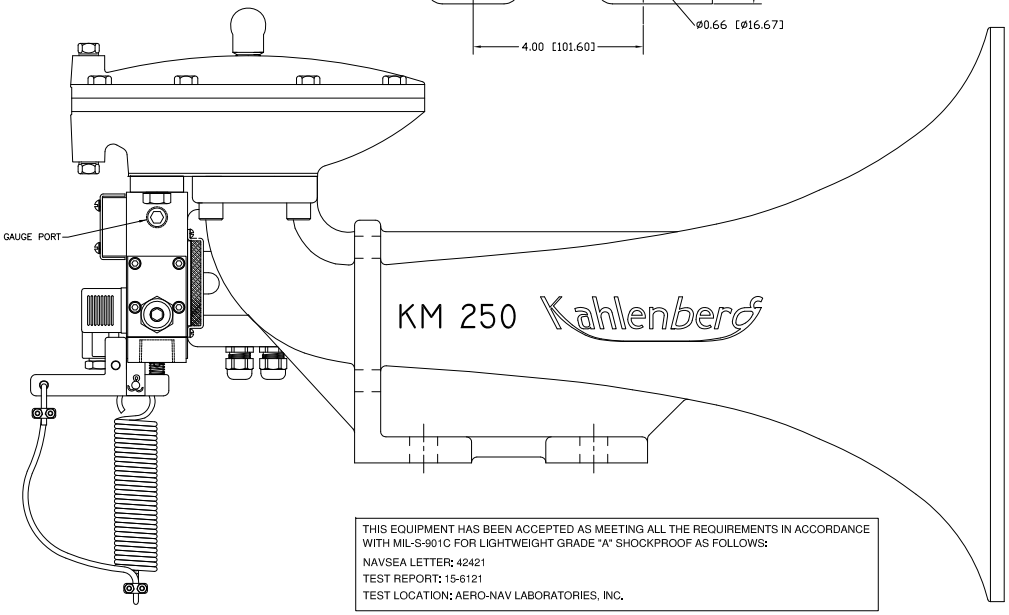
3-6507

REV.	BY	DATE	DESCRIPTION	APP'D.
A	ZJN	03/19/08	MODEL WAS KM-250-DVM	EMK
B	ZJN	10/21/09	ADDED CENTER OF GRAVITY & IP RATING	EMK
C	ZJN	03/23/10	ADDED CAGE NUMBER	EMK
D	ZJN	04/26/10	ADDED 1/4" BSPT GAUGE PORT	EMK
E	ZJN	08/20/10	ADDED P.L. REFERENCE FOR VOLTAGE VARIATIONS	EMK
F	ZJN	05/23/16	ADDED SHOCK TEST APPROVAL NOTE	EMK







THIS EQUIPMENT HAS BEEN ACCEPTED AS MEETING ALL THE REQUIREMENTS IN ACCORDANCE WITH MIL-S-901C FOR LIGHTWEIGHT GRADE "A" SHOCKPROOF AS FOLLOWS:

NAVSEA LETTER: 42421

TEST REPORT: 15-6121

TEST LOCATION: AERO-NAV LABORATORIES, INC.

SPECIFICATIONS FOR VESSEL BETWEEN 75 TO 200 METERS IN LENGTH

KAHLENBERG MODEL	SPL (LOUDNESS) AT 1 METER ①		FREQUENCY	AIR CONSUMPTION ③ & ④	OPERATING AIR PRESSURE
	TOTAL (ALL PASS)	IMO MIN. LEVEL 1/3 OCTAVE ②			
KM-250	145 dB	138 dB	250 Hz	106 CFM	75-580 PSI

① SOUND PRESSURE LEVEL WITH 120 PSI AIR PRESSURE AT WHISTLE BASE WHILE BLOWING.

② IMO: INTERNATIONAL MARITIME ORGANIZATION (72 COLREGS)

③ AIR CONSUMPTION BASED ON 120 PSIG AIR PRESSURE WITH MAXIMUM PRESSURE DROP OF 15 PSI

④ THE COMPRESSOR CAPACITY, WITH AN ADEQUATE RECEIVER, NEED ONLY BE 15% OF THE WHISTLE CONSUMPTION SHOWN, FOR NORMAL INTERMITTENT SERVICE.

GENERAL NOTES

THE ORIFICE INTO THE HORN CAN BE INCREASED FOR THE LOWER PRESSURES AND DECREASED FOR HIGHER PRESSURES. CONSULT FACTORY WHEN ORDERING SO AIR CHOKE CAN BE PRESET ACCORDINGLY.

1. START WITH ONE PIPE SIZE LARGER THAN INLET INTO HORN AND INCREASE BY ONE PIPE SIZE FOR EVERY 100 FT OF RUN
2. PRESSURE DROP AT HORN SHOULD NOT EXCEED 15 P.S.I. AT THE WHISTLE BASE WHILE HORN IS BLOWING.
3. PIPE SHOULD BE INSTALLED WITH A CONTINUAL RISE TO THE HORN FREE OF POCKETS THAT WOULD TRAP CONDENSATE. PLAN LAYOUT WITH AS FEW ELBOWS AS POSSIBLE.
4. COPPER TUBING AND FITTINGS ARE LESS RESTRICTIVE THAN IRON PIPE AND CAST FITTINGS. IF USING IRON PIPE, USE TEFLON TAPE ON MALE THREADS.
5. AIR SUPPLY SHOULD BE TAKEN FROM THE TOP OF TANK OR MAIN SUPPLY LINE
6. ON LONG UNAVOIDABLE RUNS, AN AIR RECEIVER LOCATED CLOSE TO HORN WILL AVOID EXCESSIVE PRESSURE DROP WHEN HORN IS SOUNDING. RECOMMENDED AIR RECEIVER SIZE 24"x48".
7. INSTALL SHUT OFF VALVE WHERE NECESSARY TO FACILITATE SERVICES
8. OUTSIDE RUNS EXPOSED TO COLD WEATHER SHOULD BE INSULATED OR PROTECTED WITH HEATING CABLE.
9. BEFORE CONNECTING HORN, BLOW OUT LINES THOROUGHLY TO REMOVE PIPE CHIPS OR OTHER ACCUMULATED DEBRIS.
10. HORN PRODUCES EXTREME SOUND OUTPUT, USE EAR PROTECTORS AT ALL TIMES WHEN CHECKING OR TESTING WHISTLES.

NET WEIGHT: 26 LBS / 12 KG.

MATERIALS: T356 ALUMINUM MARINE ALLOY, C464 NAVAL BRASS, 316 STAINLESS STEEL FASTENERS.

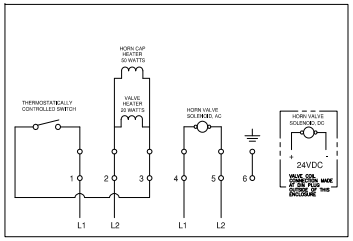
FINISH: ALUMINUM COMPONENTS ARE ALODINE TREATED AND COATED WITH GREY POLYSILOXANE PAINT.

INGRESS RATING: IP56

OPERATING TEMPERATURE RANGE: >-40°F/C

⊕ - CENTER OF GRAVITY

WIRING DIAGRAM



CONVERSION

1 PSI = 0.0689 BAR

1 CFM = 0.4719 L/SEC

1" (Inch) = 25.4 MM

1 FT = 0.3048 METER

1 LB = 0.455 KG

CAGE: 75214

PARTS LIST DRAWING 3-6546 (120-24 V.)

PARTS LIST DRAWING 3-6615 (230-24 V.)

KAHLENBERG INDUSTRIES INC. TWO RIVERS, WISCONSIN 54241

OUTLINE DIMENSIONS
MODEL KM-250-DVM-H
WITH DUAL VOLTAGE SOLENOID/MANUAL VALVE

DR.	DATE	CKD.	SCALE	DRWG. NO.	REV.
ZJN	03/19/08	EMK	N.T.S.	3-6507	F