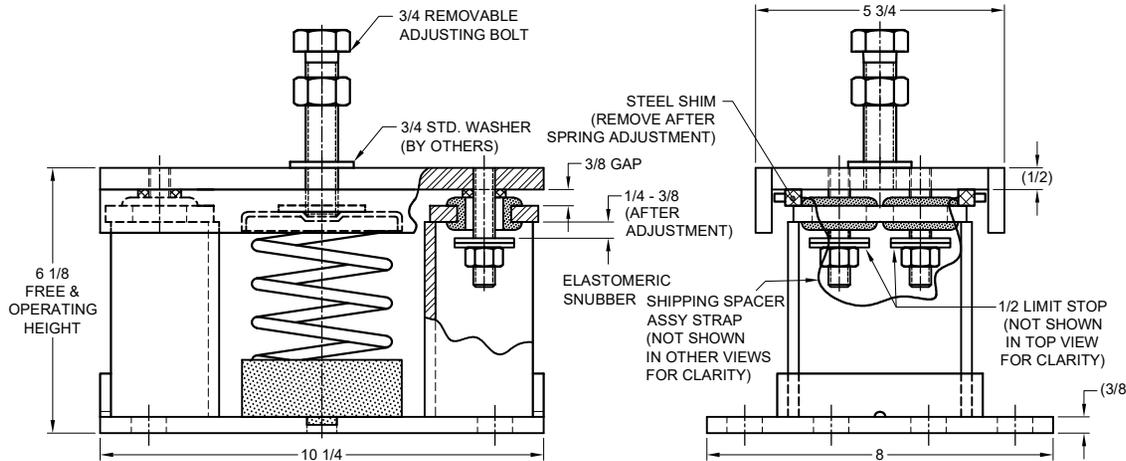
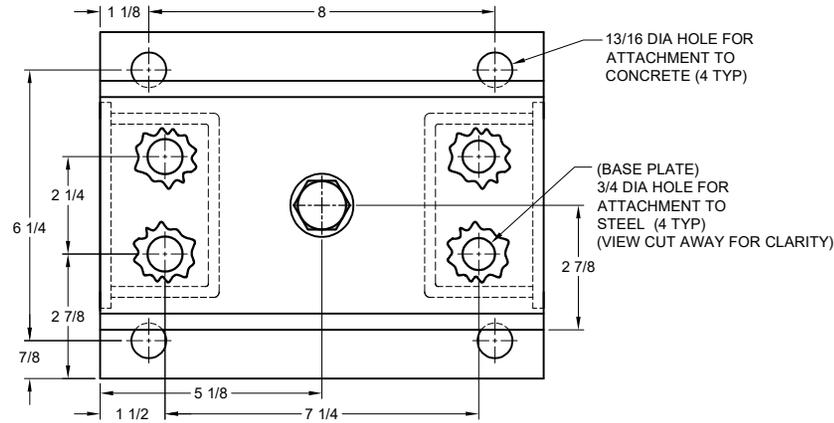


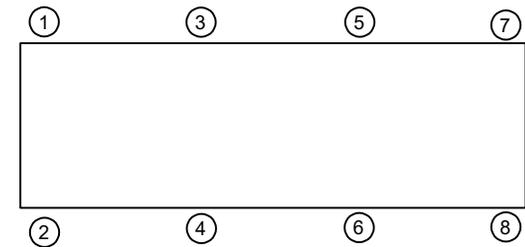
REV.	DESCRIPTION	DATE	BY



**MODEL MSSH-1E SEISMICALLY RESTRAINED VIBRATION ISOLATOR FOR 1" DEFLECTION**

SEISMIC MOUNT SIZE	RATED LOAD (LBS)	RATED DEFLECTION	SPRING RATE	SPRING COLOR CODE
MSSH-1E-195	195	1.95	100	DK. BLUE
MSSH-1E-400	400	1.32	303	BLACK
MSSH-1E-530N <sup>1</sup>	530	1.17	453	BLACK/ DK. BLUE
MSSH-1E-650	650	1.05	619	RED
MSSH-1E-825N <sup>1</sup>	825	1.07	771	RED/ DK. BLUE
MSSH-1E-1000	1000	1.00	1000	TAN
MSSH-1E-1200N <sup>1</sup>	1200	1.04	1154	TAN/ DK. BLUE
MSSH-1E-1400	1400	1.00	1400	PINK
MSSH-1E-1700N <sup>1</sup>	1700	1.10	1550	PINK/ DK. BLUE
MSSH-1E-2000	2000	1.11	1800	WHITE
MSSH-1E-2330N <sup>1</sup>	2330	1.11	2100	WHITE/ RED
MSSH-1E-2575N <sup>1</sup>	2575	1.11	2313	WHITE/ DK. PURPLE
MSSH-1E-2990N <sup>1</sup>	2990	1.11	2682	WHITE/ DK. GREEN
MSSH-1E-3250N <sup>1</sup>	3250	1.04	3125	WHITE/ GRAY

**NOTES:**  
1. TWO NESTED SPRINGS YIELD THIS LOAD. THE COLOR CODE INDICATED IS FOR OUTER SPRING/ INNER SPRING.



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES, INTERPRET PER ANSI Y14.
  2. STANDARD FINISH: HOUSING - POWDER COAT (COLOR:BLACK), SPRING - POWDER COAT (COLOR: SEE TABLE), HARDWARE ZINC-ELECTROPLATE.
  3. EQUIPMENT MUST BE BOLTED OR WELDED TO THE TOP AND BOTTOM PLATE TO MEET ALLOWABLE SEISMIC RATINGS.
  4. ALL SPRINGS ARE DESIGNED FOR 50% OVERLOAD CAPACITY.
  5. REFER TO SHEET 2 OF 2 FOR INSTALLATION INSTRUCTIONS.
  6. RATED DEFLECTIONS ARE WITHIN 25% OF NOMINAL. HIGHER DEFLECTIONS ARE ALLOWED IF THEY MEET SPECIFICATIONS.

**ISOLATOR SELECTIONS**

LOC 1:	LOC 2:
LOC 3:	LOC 4:
LOC 5:	LOC 6:
LOC 7:	LOC 8:
CUSTOMER EQP'T. TAG:	

NOTE: MATERIAL SHOWN IS FOR (1) SET.

OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.



**CERTIFIED FOR:**

JOB NAME: \_\_\_\_\_  
 CUSTOMER: \_\_\_\_\_  
 CUSTOMER P.O.: \_\_\_\_\_  
 SALES ORDER: \_\_\_\_\_

**MODEL MSSH-1E 195-3250 LBS.  
 VIBRATION ISOLATOR  
 WITH INTEGRAL SEISMIC RESTRAINT  
 AND EXTERNAL ADJUSTMENT  
 1 INCH DEFLECTION**



**VMC  
 GROUP**

**THE POWER OF TOGETHER™**

Bloomington, NJ 07403  
 Houston, TX 77041

SCALE:

NONE

SHEET:

1 OF 2

DRAWING NO.:

REVISION



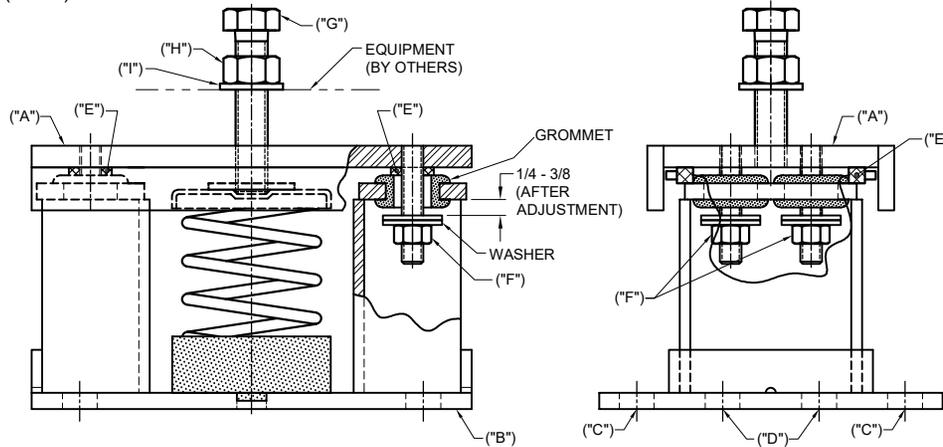
REV.	DESCRIPTION	DATE	BY

**1. READ INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING INSTALLATION.**

- ISOLATORS ARE SHIPPED FULLY ASSEMBLED AND ARE TO BE POSITIONED IN ACCORDANCE WITH THE SUBMITTAL DRAWINGS OR AS OTHERWISE RECOMMENDED.
- SET ISOLATORS ON FLOOR, HOUSEKEEPING PAD, OR SUB-BASE, ENSURING THAT ALL ISOLATOR CENTERLINES MATCH THE EQUIPMENT MOUNTING HOLES. THE VMC GROUP RECOMMENDS THAT THE ISOLATOR BASE PLATES ("B") BE INSTALLED ON A LEVEL SURFACE. SHIM OR GROUT AS REQUIRED, LEVELING ALL ISOLATOR BASE PLATES AT THE SAME ELEVATION (1/4-INCH MAXIMUM DIFFERENCE CAN BE TOLERATED).
- ANCHOR ALL ISOLATORS TO THE FLOOR, HOUSEKEEPING PAD, OR SUB-BASE USING THRU HOLES ("C") FOR CONCRETE OR ("D") FOR STEEL AS REQUIRED. USE ANCHORS MEETING THE DESIGN REQUIREMENTS SPECIFIED ON SHEET 1 OF 2. WELDING TO STEEL IS PERMITTED PROVIDING THE WELD ACHIEVES THE REQUIRED STRENGTH.
- ISOLATORS ARE SHIPPED TO THE JOBSITE WITH (4) REMOVABLE SPACER SHIMS ("E") BETWEEN THE TOP PLATE AND THE HOUSING. THESE SHIMS **MUST** BE IN PLACE WHEN THE EQUIPMENT IS POSITIONED OVER THE ISOLATORS.
- WITH ALL SHIMS ("E") IN PLACE, REMOVE ADJUSTING BOLT "G", AND SET ASIDE. KEEP THE NUT "H" SCREWED ONTO THE ADJUSTING BOLT. PLACE THE MACHINE OR EQUIPMENT ONTO TOP PLATE "A", ALIGNING THE EQUIPMENT MOUNTING HOLE WITH THE TAPPED HOLE IN THE TOP PLATE. INSTALL WASHER "I" AND REATTACH THE ADJUSTING BOLT BY BOLTING THROUGH THE EQUIPMENT MOUNTING HOLE INTO THE TAPPED HOLE OF THE (Cont.)

**6. (Cont.)**

- ISOLATOR. TURN THE ADJUSTING BOLT UNTIL IT STARTS TO COMPRESS THE SPRING. LEAVE NUT "H" AT THE TOP OF THE ADJUSTING BOLT, LEAVING ROOM FOR ADJUSTING THE ISOLATOR PER STEP 9.
- 7. THE ADJUSTMENT PROCESS CAN ONLY BEGIN AFTER THE EQUIPMENT OR MACHINE IS AT ITS FULL OPERATING WEIGHT.**
  - BACK OFF EACH OF THE (2) OR (4) LIMIT STOP LOCKNUTS ("F") PER ISOLATOR 1/4- TO 3/8-INCH.
  - ADJUST EACH ISOLATOR IN SEQUENCE BY TURNING ADJUSTING BOLT(S) "G" ONE FULL CLOCKWISE TURN AT A TIME. REPEAT THIS PROCEDURE ON ALL ISOLATORS, ONE AT A TIME. CHECK THE LIMIT STOP LOCKNUTS ("F") PERIODICALLY TO ENSURE THAT CLEARANCE BETWEEN THE WASHER AND RUBBER GROMMET IS MAINTAINED. STOP ADJUSTMENT OF AN ISOLATOR ONLY WHEN THE TOP PLATE ("A") HAS RISEN JUST ABOVE THE SHIM ("E").
  - REMOVE ALL SPACER SHIMS ("E").
  - FINE ADJUST ISOLATORS TO LEVEL EQUIPMENT.
  - ADJUST ALL LIMIT STOP LOCKNUTS ("F") PER ISOLATOR TO OBTAIN 3/8-INCH GAP. THE LIMIT STOP NUTS MUST BE KEPT AT THIS 3/8-INCH GAP TO ENSURE UNIFORM BOLT LOADING DURING UPLIFT (AS IN THE CASE WHEN A COOLING TOWER IS DRAINED).
  - INSTALLATION IS COMPLETE.



OTHER MATERIALS, COMPOUNDS, OR FINISHES WITH EQUAL OR SUPERIOR PROPERTIES MAY BE SUBSTITUTED AS THEY BECOME AVAILABLE.



**CERTIFIED FOR:**

JOB NAME: \_\_\_\_\_  
 CUSTOMER: \_\_\_\_\_  
 CUSTOMER P.O.: \_\_\_\_\_  
 SALES ORDER: \_\_\_\_\_

**MODEL MSSH-1E 195-3250 LBS.  
 VIBRATION ISOLATOR  
 WITH INTEGRAL SEISMIC RESTRAINT  
 AND EXTERNAL ADJUSTMENT  
 1 INCH DEFLECTION**



SCALE: NONE  
 SHEET: 2 OF 2



DRAWING NO.: \_\_\_\_\_ REVISION \_\_\_\_\_