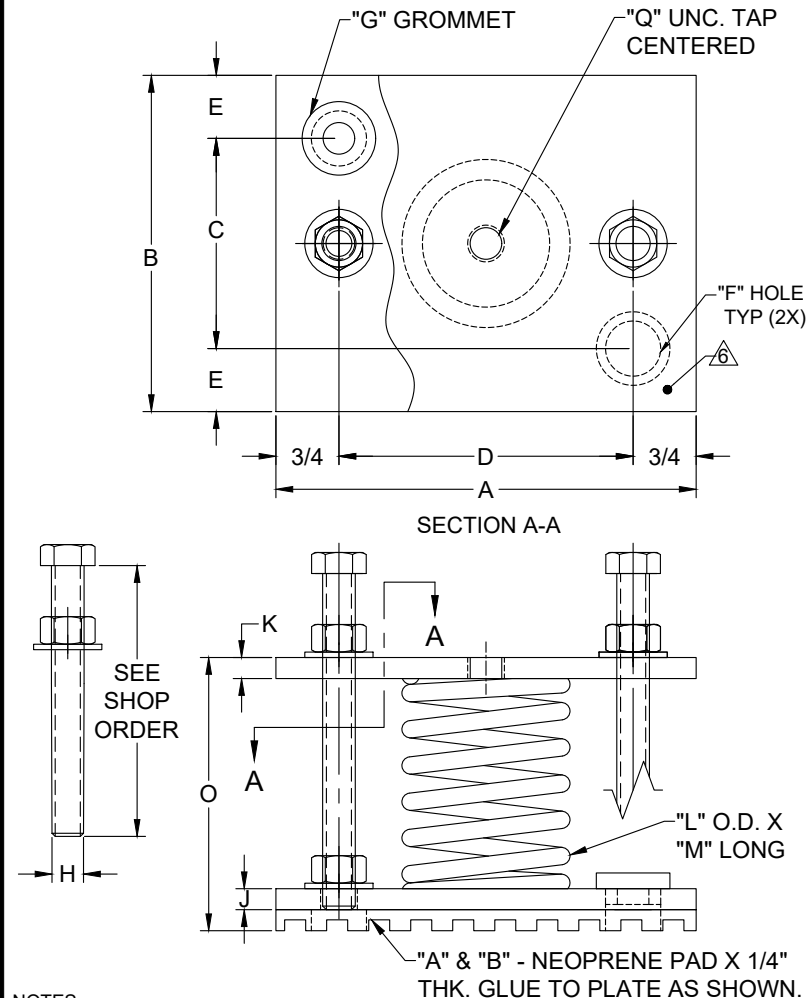




| AWP RISER PRE-COMPRESSED OPEN SPRING FLEX ISOLATORS |       |   |       |       |       |       |       |     |     |     |       |         |     |          |     |  |
|-----------------------------------------------------|-------|---|-------|-------|-------|-------|-------|-----|-----|-----|-------|---------|-----|----------|-----|--|
| MODEL                                               | A     | B | C     | D     | E     | F     | G/NO. | H   | J   | K   | L     | M       | N   | O        | Q   |  |
| AWP-1C-15 thru 520N <sup>1</sup>                    | 5     | 4 | 2 1/2 | 3 1/2 | 3/4   | 21/32 | 256   | 3/8 | 1/4 | 1/4 | 2     | 2 1/2   | 3/8 | 3 1/4    | 3/8 |  |
| AWP-1E-195 thru 1400                                | 6 1/4 | 4 | 2 1/2 | 4 3/4 | 3/4   | 7/8   | 1172  | 1/2 | 3/8 | 3/8 | 3 1/4 | 4       | 1/2 | 5        | 1/2 |  |
| AWP-1E-1700N <sup>1</sup> thru 2000                 |       |   |       |       |       |       |       |     | 1/2 | 1/2 |       |         |     | 5 1/4    |     |  |
| AWP-1E-2330N <sup>1</sup> thru 3250N <sup>1</sup>   |       |   |       |       |       |       |       |     | 5/8 | 5/8 |       |         |     | 5 1/2    |     |  |
| AWP-2E-80 thru 1000                                 | 7     | 4 | 2 1/2 | 5 1/2 | 3/4   | 7/8   | 1172  | 1/2 | 3/8 | 3/8 | 4     | 6       | 1/2 | 7        | 1/2 |  |
| AWP-2E-1400 thru 2700N <sup>1</sup>                 |       |   |       |       |       |       |       |     | 1/2 | 1/2 |       |         |     | 7 1/4    |     |  |
| AWP-3C-75 thru 1165N <sup>1</sup>                   | 7     | 4 | 2 1/2 | 5 1/2 | 3/4   | 7/8   | 1172  | 1/2 | 3/8 | 3/8 | 4     | 6       | 1/2 | 7        | 1/2 |  |
| AWP-3D-800 thru 1225                                | 8     | 5 | 2 1/2 | 6 1/2 | 1 1/4 | 7/8   | 1172  | 1/2 | 3/8 | 3/8 | 5     | 8       | 1/2 | 9        | 1/2 |  |
| AWP-3D-1510 thru 2035                               |       |   |       |       |       |       |       |     | 1/2 | 1/2 |       |         |     | 9 1/4    |     |  |
| AWP-3E-1600 thru 3500                               | 9     | 6 | 2 1/2 | 7 1/2 | 1 3/4 | 7/8   | 1172  | 5/8 | 5/8 | 5/8 | 6     | 9       | 5/8 | 10 1/2   | 3/4 |  |
| AWP-4C-65 thru 650                                  | 9     | 6 | 2 1/2 | 7 1/2 | 1 3/4 | 7/8   | 1172  | 1/2 | 3/8 | 3/8 | 6     | 9       | 1/2 | 10       | 3/4 |  |
| AWP-4C-950 thru 1460                                |       |   |       |       |       |       |       |     | 1/2 | 1/2 |       |         |     | 10 1/4   |     |  |
| AWP-4D-1765 thru 5210N <sup>1</sup>                 | 11    | 8 | 2 1/2 | 9 1/2 | 2 3/4 | 7/8   | 1172  | 5/8 | 3/4 | 3/4 | 8     | 10      | 5/8 | 11 3/4   | 3/4 |  |
| AWP-5C-250 thru 1280                                | 11    | 8 | 2 1/2 | 9 1/2 | 2 3/4 | 7/8   | 1172  | 1/2 | 1/2 | 1/2 | 7 1/2 | 12      | 1/2 | 13 1/4   | 3/4 |  |
| AWP-5C-1835 thru 2300                               |       |   |       |       |       |       |       |     | 5/8 | 5/8 |       |         |     | 13 1/2   |     |  |
| AWP-5D-2700 thru 5675N <sup>1</sup>                 | 11    | 8 | 2 1/2 | 9 1/2 | 2 3/4 | 7/8   | 1172  | 5/8 | 3/4 | 3/4 | 8     | 13      | 5/8 | 14 3/4   | 3/4 |  |
| AWP-3R-2100                                         | 10    | 6 | 2 1/2 | 8 1/2 | 1 3/4 | 7/8   | 1172  | 1/2 | 5/8 | 5/8 | 5 1/2 | 10 1/4  | 1/2 | 11 3/4   | 3/4 |  |
| AWP-3R-4200                                         |       |   |       |       |       |       |       | 5/8 | 5/8 | 5/8 |       | 10 1/4  | 5/8 | 11 3/4   |     |  |
| AWP-3R-5515N <sup>1</sup>                           |       |   |       |       |       |       |       | 5/8 | 3/4 | 3/4 |       | 10 1/4  | 5/8 | 12       |     |  |
| AWP-3R-5600N <sup>1</sup>                           |       |   |       |       |       |       |       | 5/8 | 3/4 | 3/4 |       | 10 5/16 | 5/8 | 12 1/16  |     |  |
| AWP-3R-8320N <sup>1</sup>                           | 10    | 6 | 2 1/2 | 8 1/2 | 1 3/4 | 7/8   | 1172  | 3/4 | 1   | 1   | 5 1/2 | 10 5/16 | 3/4 | 12 9/16  | 3/4 |  |
| AWP-2R-4300                                         |       |   |       |       |       |       |       | 5/8 | 5/8 | 5/8 |       | 9 5/8   | 5/8 | 11 1/8   |     |  |
| AWP-2R-6080                                         |       |   |       |       |       |       |       | 5/8 | 3/4 | 3/4 |       | 9 5/8   | 5/8 | 11 3/8   |     |  |
| AWP-2R-8350N <sup>1</sup>                           |       |   |       |       |       |       |       | 3/4 | 1   | 1   |       | 9 5/8   | 3/4 | 11 7/8   |     |  |
| AWP-1R-7100                                         | 10    | 6 | 2 1/2 | 8 1/2 | 1 3/4 | 7/8   | 1172  | 5/8 | 5/8 | 5/8 | 5 1/2 | 9 1/16  | 5/8 | 10 9/16  | 3/4 |  |
| AWP-1R-8500N <sup>1</sup>                           |       |   |       |       |       |       |       | 5/8 | 3/4 | 3/4 |       | 9 1/16  | 5/8 | 10 13/16 |     |  |
| AWP-1R-10500                                        |       |   |       |       |       |       |       | 3/4 | 1   | 1   |       | 8 1/4   | 3/4 | 10 1/2   |     |  |
| AWP-1R-14000                                        |       |   |       |       |       |       |       | 3/4 | 1   | 1   |       | 8 1/4   | 3/4 | 10 1/2   |     |  |

## NOTES:

1. TWO NESTED SPRINGS YIELD THIS LOAD.

## NOTES:

- ALL DIMENSIONS ARE IN INCHES. INTERPRET PER ANSI Y-14.
- HOUSING AND SPRING ONE COAT VMC GROUP BLACK FINISH, HARDWARE- ZINC ELECTROPLATE.
- INNER SPRING NOT SHOWN.
- ALL SPRINGS DESIGNED WITH NOMINAL 50% OVER-TRAVEL.
- RATED DEFLECTIONS ARE WITHIN 25% OF NOMINAL. HIGHER DEFLECTIONS ARE ALLOWED IF THEY MEET SPECIFICATIONS.
- STAMP/ TAG MARKING LOCATED ON TOP PLATE.

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



## CERTIFIED FOR: CERT

JOB NAME: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_

CUSTOMER P.O.: \_\_\_\_\_

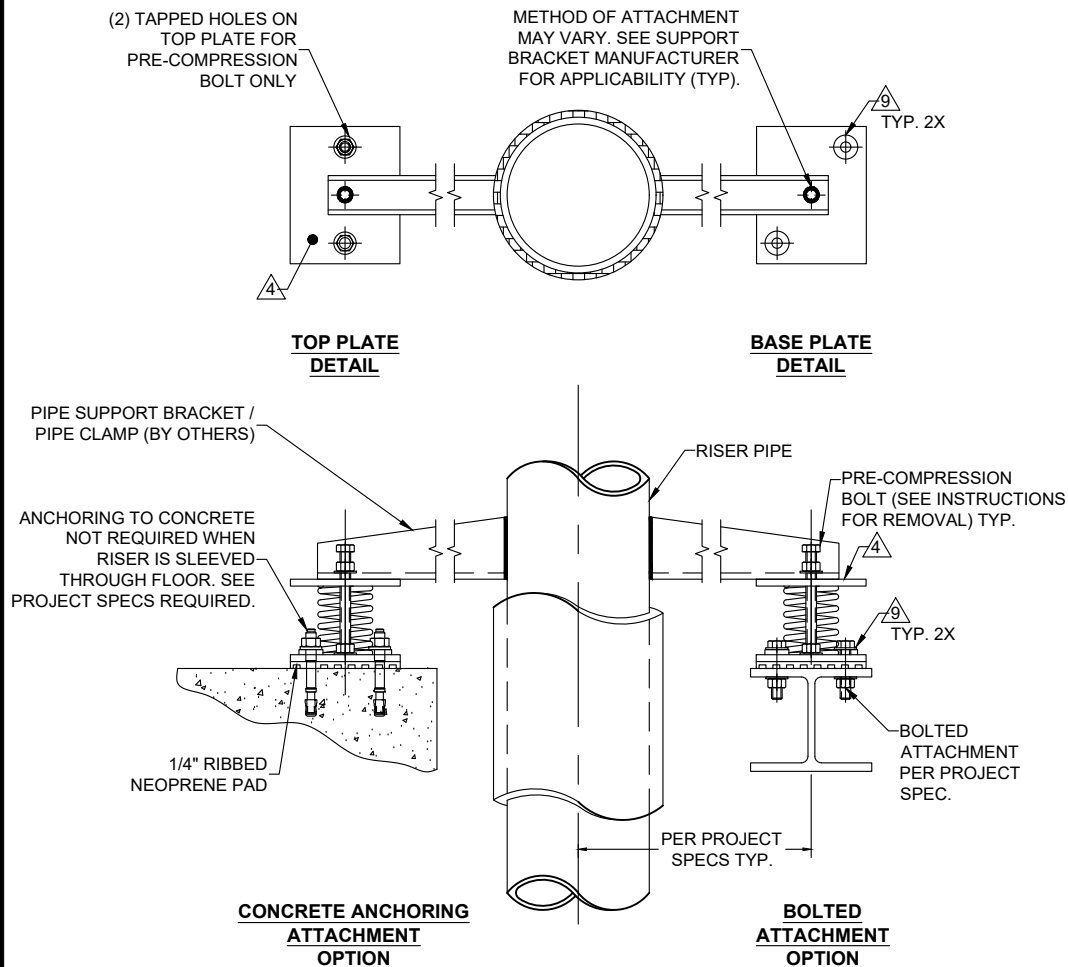
SALES ORDER: \_\_\_\_\_

MODEL AWP SERIES RISER  
PRE-COMPRESSED OPEN SPRING  
FLEX ISOLATORS 1, 2, 3, 4 & 5 INCH  
DEFLECTIONVMC GROUP  
CONTROLLED ENVIRONMENT SOLUTIONS™

Bloomington, NJ Houston, TX Corona, CA Wind Gap, PA

| SCALE: | SHEET: | DRAWING NO.: | REVISION |
|--------|--------|--------------|----------|
| NONE   | 1 OF 2 |              |          |

| REV. | DESCRIPTION | DATE | BY |
|------|-------------|------|----|
|      |             |      |    |

**INSTALLATION INSTRUCTIONS**

1. READ INSTRUCTIONS IN THEIR ENTIRETY BEFORE BEGINNING INSTALLATION.

2. ISOLATORS ARE SHIPPED FULLY ASSEMBLED AND MUST BE SPACED AND ARRANGED IN ACCORDANCE WITH PROJECT SPECIFICATION OR AS OTHERWISE RECOMMENDED.

3. SET ISOLATORS ON THE FLOOR OR SUB-BASE, ENSURING THAT ALL ISOLATOR CENTERLINES MATCH THE SUPPORT BRACKET MOUNTING HOLES OR SPACE AND ARRANGE ISOLATORS IN ACCORDANCE WITH THE PROJECT SPECIFICATION. SHIM OR GROUT AS REQUIRED, LEVELING ALL ISOLATOR BASE PLATES TO THE SAME ELEVATION (A 1/4" MAXIMUM DIFFERENCE IN ELEVATION CAN BE TOLERATED). THE ISOLATOR BASE MUST REST ON A FLAT SURFACE.

4. DESIGNATION OF ISOLATORS IS INDICATED ON THE STAMPED/ TAGGED MARKING LOCATED ON TOP PLATE.

5. DO NOT REMOVE PRE-COMPRESSION BOLTS UNTIL PIPE IS AT FULL OPERATING WEIGHT. REMOVE COMPRESSION BOLT AT AMBIENT TEMPERATURE BEFORE HEATING OR COOLING THE FLUID.

6. IT IS IMPORTANT THAT THE SUPPORT BRACKET BE INSTALLED AT THE PROPER HEIGHT. REFERENCE THE RISE DIAGRAM ENGINEERED BY VMC GROUP FOR THE ACTUAL HEIGHT. THE HEIGHT MAY DIFFER FOR DIFFERENT FLOORS. SEE THE RISER DIAGRAM FOR EACH FLOOR. (IT MAY BE EASIER TO MOUNT THE PIPE SUPPORT BRACKET ONTO THE ISOLATOR FIRST TO ALIGN THE BRACKET PROPERLY. REFER TO SUPPORT BRACKET SUPPLIER TO CONFIRM IF THIS IS POSSIBLE.)

7. ONCE THE BRACKET IS ALIGNED PROPERLY, WELD THE BRACKET TO THE PIPE. THE PIPE BRACKET MUST BE DESIGNED AND WELDED TO SUPPORT THE LOADS SPECIFIED IN THE VMC GROUP RISER DIAGRAM PER PROJECT.

8. FILL PIPE WITH FLUID BEFORE REACHING THE OPERATING TEMPERATURE. REMOVE PRE-COMPRESSION BOLTS. FURTHER ADJUSTMENTS ARE NOT REQUIRED. (DO NOT DISCARD PRE-COMPRESSION BOLTS, AS THEY MAY BE NEEDED IF FUTURE MAINTENANCE IS REQUIRED.)

9. IF FLOOR FASTENING IS REQUIRED, PLACE MOUNT AS INDICATED IN INSTALLATION INSTRUCTION 1 THRU 4 AND ANCHOR USING (2) THRU HOLES ON THE MOUNT BASE PLATE OR BOLT.

**DRAIN INSTRUCTIONS**

1. ALLOW THE RISER TO COME TO AMBIENT TEMPERATURE.

2. REINSTALL PRE-COMPRESSION BOLTS.

3. DRAIN THE RISER. (PRE-COMPRESSION BOLTS WILL HOLD RISER AT A CONSTANT HEIGHT.)

4. TO RE-FILL THE RISER, FOLLOW INSTALLATION INSTRUCTIONS INSTRUCTION 8.

**NOTES:**

1. SEE PROJECT SPECS FOR ANCHORING REQUIREMENT IF APPLICABLE.

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

**CERTIFIED FOR: CERT**

JOB NAME: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_

CUSTOMER P.O.: \_\_\_\_\_

SALES ORDER: \_\_\_\_\_

**MODEL AWP SERIES RISER  
PRE-COMPRESSED OPEN SPRING  
FLEX ISOLATORS 1, 2, 3, 4 & 5 INCH  
DEFLECTION**



**VMC GROUP**  
CONTROLLED ENVIRONMENT SOLUTIONS™

Bloomington, NJ Houston, TX Corona, CA Wind Gap, PA

| SCALE: | SHEET: | DRAWING NO.: | REVISION |
|--------|--------|--------------|----------|
| NONE   | 2 OF 2 |              |          |