



**NOTES:**

1. ALL DIMENSIONS SHOWN IN INCHES.
2. "D" DIMENSION  $\pm 1/8"$ .
3. FOR BOLTS SMALLER THAN  $\phi 1-3/4$ , BOLT HOLES WILL BE  $1/8"$  LARGER THAN DIAMETER OF BOLT. FOR BOLTS  $\phi 1-3/4$  OR LARGER, BOLT HOLES WILL BE  $1/4"$  LARGER THAN DIAMETER OF BOLT.
4. RECOMMENDATION FOR MATING FLANGES: WHERE INSULATING BUSHINGS ARE USED, IT IS NECESSARY THAT BOLT HOLES BE DRILLED OVERSIZE BY AN AMOUNT EQUAL TO TWO TIMES THE INSULATING SLEEVE THICKNESS TO MAINTAIN THE SAME MINIMUM CLEARANCE FOR BOLTS.
5. CAUTION: IT IS RECOMMENDED THAT VALVES BE INSTALLED INTO THE PIPING SYSTEM IN ACCORDANCE WITH AWWA M-11 IN ORDER TO PREVENT ANY UNDUE PIPING STRESS, DEFLECTION OR BENDING THAT MAY EFFECT THE PERFORMANCE OF THE VALVE.

| ACTUATOR SIZE | J       | L       | M     | N      | P      | Q                | R       | S       | T        | V  | W       | NUMBER OF TURNS |
|---------------|---------|---------|-------|--------|--------|------------------|---------|---------|----------|----|---------|-----------------|
| MDT-2S        | 4-11/16 | 2       | 2-1/8 | 2      | 4-1/2  | $\Delta 4-1/4$   | 8-1/4   | 7-7/8   | 7-7/8    | 8  | 9-1/8   | 32              |
| MDT-3S        | 5-5/8   | 2-7/16  | 3-1/4 | 3-5/32 | 5-5/8  | 5-3/8            | 10-3/8  | 10-1/2  | 10-1/8   | 12 | 9-1/8   | 30              |
| MDT-4S        | 6-3/8   | 2-27/32 | 3-3/8 | 4      | 7-5/16 | 6-3/4            | 11-5/16 | 11-1/2  | 11       | 18 | 9-1/8   | 40              |
| MDT-5         | 7-9/16  | 3-15/32 | 4-1/2 | 5-1/2  | 8-3/4  | $\Delta 10-7/16$ | 17      | 17 3/16 | 17-3/16  | 24 | 16-7/16 | 44              |
| MDT-5S        | 8-5/16  | 3-15/16 | 5-1/2 | 7      | 10-1/2 | 15-15/16         | 19-7/8  | 20      | 19-13/16 | 24 | 22-1/4  | 136             |
| MDT-6S        | 10-3/16 | 5-1/16  | 7     | 8-1/4  | 12-5/8 | 14-3/16          | 26-1/2  | 27-3/4  | 27-1/2   | 24 | 22-1/4  | 215             |

| VALVE SIZE | A      | B      | C      | D  | E              | F         | G      |
|------------|--------|--------|--------|----|----------------|-----------|--------|
| 6          | 7-1/4  | 8-3/8  | 12-1/2 | 6  | $\Delta 1-1/2$ | 12--3/4   | 10-5/8 |
| 8          | 8-1/2  | 9-5/8  | 15     | 8  | 1-5/8          | 12--7/8   | 13     |
| 10         | 9-3/4  | 11     | 17-1/2 | 8  | 1-7/8          | 16--1     | 15-1/4 |
| 12         | 11-1/2 | 12-5/8 | 20-1/2 | 8  | 2              | 16--1-1/8 | 17-3/4 |
| 14         | 12-3/4 | 13-7/8 | 23     | 12 | 2-1/8          | 20--1-1/8 | 20-1/4 |
| 16         | 14     | 15-1/8 | 25-1/2 | 12 | 2-1/4          | 20--1-1/4 | 22-1/2 |
| 18         | 15-1/4 | 16-3/8 | 28     | 12 | 2-3/8          | 24--1-1/4 | 24-3/4 |
| 20         | 17     | 17-5/8 | 30-1/2 | 12 | 2-1/2          | 24--1-1/4 | 27     |
| 24         | 19-3/4 | 20-1/4 | 36     | 12 | 2-3/4          | 24--1-1/2 | 32     |
| 30         | 25-5/8 | 26     | 43     | 12 | 3              | 28--1-3/4 | 39-1/4 |
| 36         | 28-1/8 | 31-1/8 | 50     | 15 | 3-3/8          | 32--2     | 46     |
| 42         | 32-1/8 | 35-1/8 | 57     | 15 | 3-11/16        | 36--2     | 52-3/4 |
| 48         | 36-1/4 | 39-5/8 | 65     | 15 | 4              | 40--2     | 60-3/4 |

| FLANGE THICKNESS "E" TOLERANCES |                     |
|---------------------------------|---------------------|
| 3" THRU 12"                     | $\frac{+1/8"}{-0}$  |
| 14" THRU 24"                    | $\frac{+3/16"}{-0}$ |
| 30" THRU 48"                    | $\frac{+1/4"}{-0}$  |

| REV | DATE     | DESCRIPTION  | DWN | APP |
|-----|----------|--|-----|-----|
| 7   | 09/17/21 | REMOVE NOTE FOR RECOMMENDED FLOW DIRECTION FOR HP350 | CA  | TF  |
| 6   | 9/12/16  | REVISED FLOW DIRECTION NOTE AND HW SIZES FOR MDT4S/5 | SAD | SS  |
| 5   | 8/28/14  | REV. DIM/ADDED TOL. BLOCK                            | JUR | RCB |
| 4   | 01/28/10 | 4-1/4 WAS 4-1/2; 10-7/16 WAS 10                      | MZ  | CEM |
| 3   | 11/17/09 | CORRECT FLOW   | CEM | JR  |
| 2   | 11/13/09 | REMOVED NOTE   | DSL | CEM |
| 1   | 1/19/09  | ADDED DIMENSION                                      | AA  | JW  |

**PRATT**

GENERAL ARRANGEMENT DRAWING  
 6"-48" HP-350 VALVE FLANGED ENDS  
 MDT MANUAL ACTUATOR

SCALE NONE DATE 1-05-08

DRAWN BY AA CHECKED BY PPS

APPROVED GA=BORDER

DRWG. NO. GA-11862 REV 7  $\frac{A}{C}$