167 GALLON GALVANIZED STOCK WATERING TANK

PLATE DETAIL "A"

6'-0"
2'-0"
12" DIA. BELL
THREE EQUALLY SPACED STEEL SUPPORT BRACKETS

WELD BOTH SIDES OF PLATE.
1/4" STEEL PLATE

1/4" TRAP CHARGING HOLE
WELD BOTH SIDES OF PLATE.

PLATE DETAIL "B"

5/16" DIA. HOLES
2" O.C.
1" x 45° CHAMFER

1/4" THICK STEEL PLATE

5/16" DIA. HOLES TO MATCH HOLES IN PLATE ASSEMBLY

SECURE PLATE TO TANK WITH 1/4" BOLTS

NOTE: PVC B & BLACK IRON TO BE CONNECTED BY A NUBLESS JOINT.
(NEOPRENE GASKET WITH STAINLESS STEEL BAND AND CLAMPS.)

NOTE: THE BLACK IRON PIPE AND PLATE ASSEMBLY ARE SUBJECT TO RUST AND MAY REQUIRE REPLACEMENT EVERY FEW YEARS.

SECTION "A-A"

4" DIA. PVC WATER DISCHARGE PIPE

TWO 1/4" AIR EQUILIZATION HOLES

GASKET

BOTTOM RING-SEE DETAIL "B" BELOW

5" x 8" CUTOUT IN TANK BOTTOM FOR PLATE ASSEMBLY.

NOTE: 1/4" DIAMETER PVC FITTINGS AS REQUIRED

1/4" DIA. PVC AIR RELEASE PIPE.

LENGTH TO CLEAR TANK SUPPORT STAND

4" DIA. PVC FITTINGS AS REQUIRED

3 BRACKETS EQUALLY SPACED AROUND BUCKET.
(SEE DETAIL SHEET 2).

1/4" DIA. TRAP CHARGING HOLE.

WATER DEPTH

LENGTH TO REACH FLUSH ALLEY FLOOR AS REQUIRED

NOTE: R = 17 1/2"
**OPERATION OF THE SIPHON FLUSH TANK**

**SUGGESTED SIPHON SIZES FOR A GUTTER SLOPED 2 PERCENT UP TO 1/4 FT. LONG**

<table>
<thead>
<tr>
<th>Farrowing Nursery Gutter Width (in.)</th>
<th>Finishing House Gutter Width (in.)</th>
<th>Gals. Water To Be Flushed</th>
<th>Tank Size (gals.)</th>
<th>Siphon Size (in. dia.)</th>
<th>Bell Dia. (in.)</th>
<th>Max. Water Depth (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; - 24&quot;</td>
<td>12&quot; - 24&quot;</td>
<td>50 - 100</td>
<td>60 - 120</td>
<td>3&quot;</td>
<td>10&quot;</td>
<td>24&quot;</td>
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<tr>
<td>24&quot; - 48&quot;</td>
<td>24&quot; - 36&quot;</td>
<td>100 - 175</td>
<td>120 - 210</td>
<td>4&quot;</td>
<td>12&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>48&quot; - 96&quot;</td>
<td>36&quot; - 48&quot;</td>
<td>175 - 250</td>
<td>210 - 300</td>
<td>6&quot;</td>
<td>18&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>NOT NEEDED</td>
<td>48&quot; - 60&quot;</td>
<td>250 - 300</td>
<td>300 - 360</td>
<td>TWO 6&quot; **</td>
<td>24&quot;</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

* THERE IS SOME WATER LEFT IN THE SIPHON TANK.
** BOTH SIPHONS MUST BE UNDER THE SAME BELL.

**NOTES:**
1. DIMENSIONS AND SIZES SHOWN ON SHEET 1 ARE FOR A 167 GALLON GALVANIZED STOCK WATERING TANK WHICH IS TO RELEASE APPROXIMATELY 140 GALLONS PER FLUSH THROUGH A 4" DIAM. DISCHARGE PIPE.
2. WHEN STARTING A NEW (DRY) TANK, ALL TRAPS MUST BE FULL TO PROVIDE AN AIR LOCK.
3. SIPHON FLUSH TANKS DISCHARGE A TRICKLE OF WATER DURING THE FILLING CYCLE.
4. ALL CONNECTIONS MUST BE AIRTIGHT.

**SUPPORT BRACKET DETAIL**

**GALVANIZED SHEET METAL BELL**

**SECURE BRACKETS TO BELL & TANK WITH 1/4" BOLTS**

**GASKET**

**TANK BOTTOM**