

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

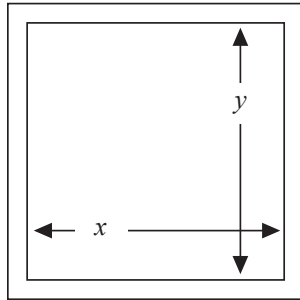


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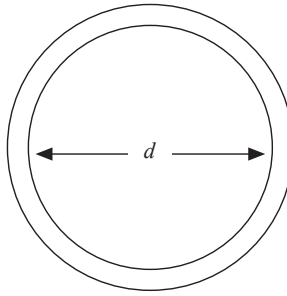
## Pump Draw Down Test to Establish Actual Flow Rate

### 1. Determine inside dimensions of basin (in)



$$x'' \times y'' \div 231 = \text{gal / in}$$

$$A = \text{gal / in}$$



$$(d'')^2 \div 294 = \text{gal / in}$$

#### Typical gal / in by diameter (approx.)

18" = 1.1 gal / in	42" = 6.0 gal / in
24" = 2.0 gal / in	48" = 7.8 gal / in
30" = 3.1 gal / in	60" = 12.2 gal / in
36" = 4.4 gal / in	72" = 17.6 gal / in

Date: \_\_\_\_\_

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Technician: \_\_\_\_\_

### 2. Pre-check List

- A. All valves open from pump to gravity sewer
- B. Specified voltage applied
- C. Force main specified size installed
- D. Each pump has its own check valve
- E. Vent hole installed and open
- F. Operate pumps to fill force main

3. Ensure adequate volume of water below all inlets is static prior to operating pump.

4. Measure static water level to reference point at top of basin.

Reference point to initial water level: \_\_\_\_\_ in

5. Operate pump for between 15 and 60 seconds. Measure new water level from same reference point.

Reference point to find the pump down water level: \_\_\_\_\_ in

$$B = \text{in}$$

Subtract one water measurement from the other to get draw down.

Record draw down time in seconds:  $C = \text{sec}$

Calculate actual flow rate (GPM)

$$A \times B \times 60 \div C = \text{GPM}$$

Enter actual flow rate on startup form ZM1074, Block VI. P1, P2