

City of Alachua

Water Meter Sizing

Water supply service is based on drainage fixture counts. Total the fixture units per Table 1: Fixture Unit Table. **NOTE:** Fixtures not listed in Table 1 shall have a *drainage fixture unit* load based on the outlet size of the fixture. The minimum trap size for unlisted fixtures shall be the size of the drainage outlet but not less than 1¹/₄ inches (32 mm.) After completing Table 1, compare the total fixture unit value with Table 2 and identify the total number of fixture units, allowable number of fixture units, and recommended meter size at the bottom of this form.

Table 1: Fixture Unit Table

| FIXTURE TYPE | FIXTURE UNIT VALUE AS LOAD FACTORS | TOTAL UNITS | FIXTURE UNIT VALUE FOR FIXTURE TYPE |
|--|------------------------------------|-------------|-------------------------------------|
| Automatic clothes washers, commercial | 3 | | |
| Automatic clothes washers, residential | 2 | | |
| Bathroom group water closet, lavatory, bathtub or shower, 1.6 gpf | 5 | | |
| Bathroom group water closet, lavatory, bathtub or shower (water closet flushing greater than 1.6 gpf) | 6 | | |
| Bathtub (with or without overhead shower or whirlpool attachments) | 2 | | |
| Bidet | 1 | | |
| Combination sink and tray | 2 | | |
| Dental lavatory | 1 | | |
| Dental unit or cuspidor | 1 | | |
| Dishwashing machine, domestic | 2 | | |
| Drinking fountain | 1/2 | | |
| Emergency floor drain | 0 | | |
| Floor drains | 2 | | |
| Kitchen sink, domestic | 2 | | |
| Kitchen sink, domestic with food waste grinder and/or dishwasher | 2 | | |
| Laundry tray (1 or 2 compartments) | 2 | | |
| Lavatory | 1 | | |
| Shower (based on the total flow rate through showerheads and body sprays) Flow rate: 5.7 gpm or less | 2 | | |
| Greater than 5.7 gpm to 12.3 gpm | 3 | | |
| Greater than 12.3 gpm to 25.8 gpm | 5 | | |
| Greater than 25.8 gpm to 55.6 gpm | 6 | | |
| Service sink | 2 | | |
| Sink | 2 | | |
| Urinal | 4 | | |
| Urinal, 1 gallon per flush or less | 2 | | |
| Urinal, non-water supplied | 1/2 | | |
| Wash sink (circular or multiple) each set of faucets | 2 | | |
| Water closet, flushometer tank, public or private | 4 | | |
| Water closet, private (1.6 gpf) | 3 | | |
| Water closet, private (flushing greater than 1.6 gpf) | 4 | | |
| Water closet, public (1.6 gpf) | 4 | | |
| Water closet, public (flushing greater than 1.6 gpf) | 6 | | |
| UNLISTED FIXTURE TYPE CALCULATIONS: FIXTURE DRAIN OR TRAP SIZE | | | |
| 1 ¹ / ₄ " | 1 | | |
| 1 ¹ / ₂ " | 2 | | |
| 2" | 3 | | |
| 2 ¹ / ₂ " | 4 | | |
| 3" | 5 | | |
| 4" | 6 | | |
| TOTAL FIXTURE UNIT VALUE: | | | |

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Table 2: Water Meter Selection Table

NOTE: The Public Services Department will determine the water meter size for applications requiring flow rates in excess of those provided by a 2" water meter.

| WATER SUPPLY FIXTURE UNITS W/ FLUSH TANK | WATER SUPPLY FIXTURE UNITS W/ FLUSH VALVE | WATER METER OPERATING RANGE (GPM) | WATER METER SIZE |
|--|---|-----------------------------------|----------------------|
| <=30 | <= 20 | 0.1 – 35 | 3/4" S (5/8" x 3/4") |
| 21 – 145 | 21 – 60 | 0.4 – 55 | 1" |
| 146 – 630 | 60 – 530 | 2.0 – 150 | 1-1/2" |
| 631 – 1,000 | 531 – 930 | 2.5 – 200 | 2" |

TOTAL NUMBER OF FIXTURE UNITS (FROM TABLE 1): _____

ALLOWABLE NUMBER OF FIXTURE UNITS (FROM TABLE 2): _____

WATER METER SIZE (BASED UPON CALCULATIONS COMPLETED ABOVE): _____