

Required accuracy standards for meters by public water utilities measuring water. All meters have to meet these standards, old and new.

**Table 5-3 Test requirements for new, rebuilt, and repaired cold-water meters\***  
**Displacement Meters (ANSI/AWWA C700 and C710)**

| Size       | Maximum Rate<br>(All Meters) |                    |                       |                    | Intermediate Rate<br>(All Meters) |                    |                       |                    | Minimum Rate<br>(New and Rebuilt) |                    |                       |                    | Minimum<br>(Repaired) |
|------------|------------------------------|--------------------|-----------------------|--------------------|-----------------------------------|--------------------|-----------------------|--------------------|-----------------------------------|--------------------|-----------------------|--------------------|-----------------------|
|            | Flow<br>Rate†                | Test<br>Quantity†† |                       | Accuracy<br>Limits | Flow<br>Rate**                    | Test<br>Quantity†† |                       | Accuracy<br>Limits | Flow<br>Rate                      | Test<br>Quantity†† |                       | Accuracy<br>Limits | Accuracy<br>Limits    |
| <i>in.</i> | <i>gpm</i>                   | <i>gal</i>         | <i>ft<sup>3</sup></i> | <i>percent</i>     | <i>gpm</i>                        | <i>gal</i>         | <i>ft<sup>3</sup></i> | <i>percent</i>     | <i>gpm</i>                        | <i>gal</i>         | <i>ft<sup>3</sup></i> | <i>percent</i>     | <i>percent (min)</i>  |
| 1/2        | 8                            | 100                | 10                    | 98.5-101.5         | 2                                 | 10                 | 1                     | 98.5-101.5         | 1/4                               | 10                 | 1                     | 95-101             | 90                    |
| 1/2 x 3/4  | 8                            | 100                | 10                    | 98.5-101.5         | 2                                 | 10                 | 1                     | 98.5-101.5         | 1/4                               | 10                 | 1                     | 95-101             | 90                    |
| 5/8        | 15                           | 100                | 10                    | 98.5-101.5         | 2                                 | 10                 | 1                     | 98.5-101.5         | 1/4                               | 10                 | 1                     | 95-101             | 90                    |
| 5/8 x 3/4  | 15                           | 100                | 10                    | 98.5-101.5         | 2                                 | 10                 | 1                     | 98.5-101.5         | 1/4                               | 10                 | 1                     | 95-101             | 90                    |
| 3/4        | 25                           | 100                | 10                    | 98.5-101.5         | 3                                 | 10                 | 1                     | 98.5-101.5         | 1/2                               | 10                 | 1                     | 95-101             | 90                    |
| 1          | 40                           | 100                | 10                    | 98.5-101.5         | 4                                 | 10                 | 1                     | 98.5-101.5         | 3/4                               | 10                 | 1                     | 95-101             | 90                    |
| 1½         | 50                           | 100                | 10                    | 98.5-101.5         | 8                                 | 100                | 10                    | 98.5-101.5         | 1½                                | 100                | 10                    | 95-101             | 90                    |
| 2          | 100                          | 100                | 10                    | 98.5-101.5         | 15                                | 100                | 10                    | 98.5-101.5         | 2                                 | 100                | 10                    | 95-101             | 90                    |