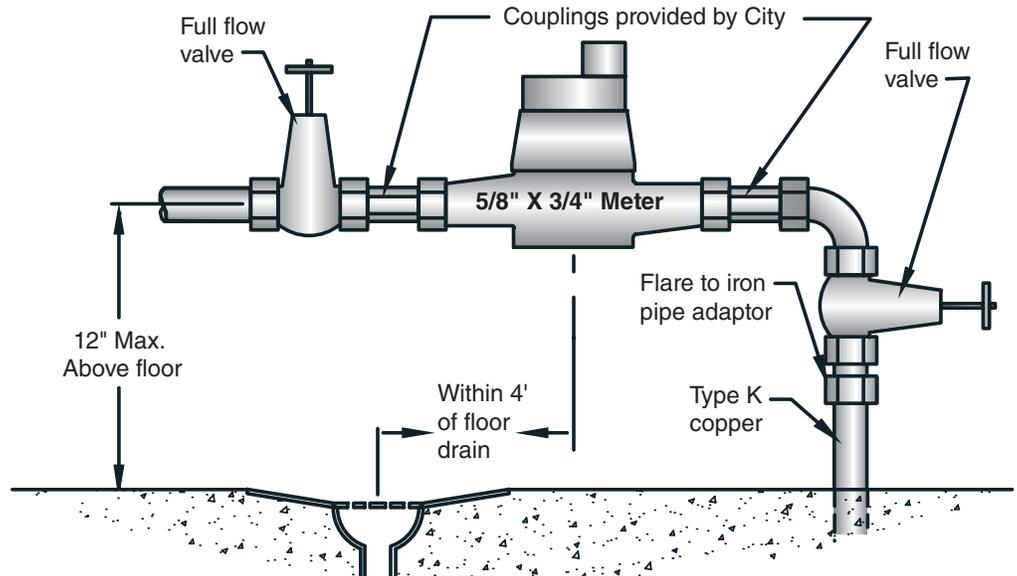


## Residential use

### Residential meter

- Each service shall be brought through the floor vertically with a full flow valve placed approximately 12 inches above the floor.
- A valve must be placed on the inlet and outlet side of the meter. **Do not use angle, butterfly or globe valves.**
- Meters shall be mounted **horizontally** and connected to the water line where it comes through the floor into the building.
- Meters shall be set in the laundry or furnace area. All meters shall be set to be readily **accessible** for repair, reading and replacement.
- No meters will be allowed in vaults, crawl spaces, ceilings or in confined or substandard spaces.

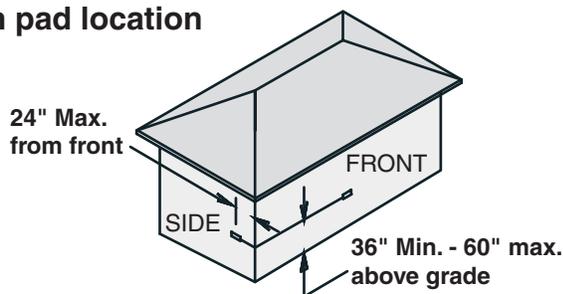
### Water meter installation



### Residential touch pad installation

Mount touch pad a minimum of 36 inches and a maximum of 60 inches above grade. Mount on the front or on the side a maximum of 24 inches from the front.

### Touch pad location



**Note:** Locate meter in furnace or laundry room. Meter must be accessible for repair, reading and replacement.

### Wiring

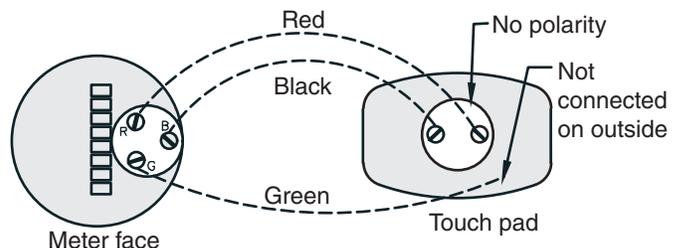
#### On the meter

Connect the black and red wires to the meter using the "B" and the "R" terminals. Then connect the green wire to "G." This wire does not connect to outside.

#### On the touch pad

Wire the touch pad using the black and red wires, they are **not** polarity sensitive. **The green wire is not connected on the outside (leave it tucked in behind the touch pad and do not trim it flush).** Connect the wires to the pad before mounting it to the structure.

### Wiring diagram



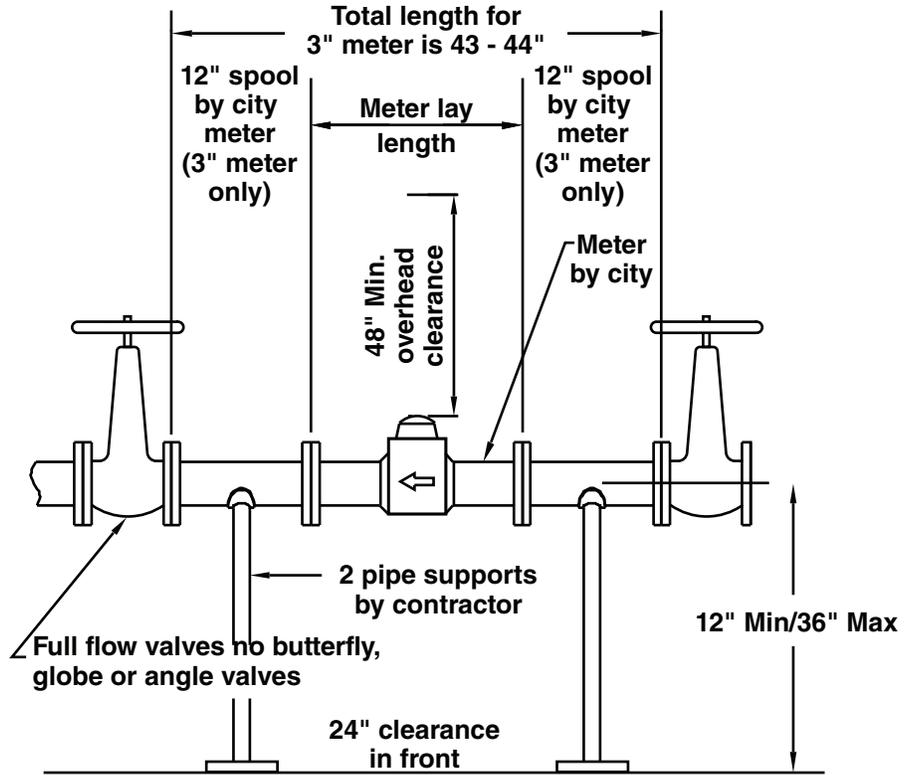
# Commercial and industrial use

## Setting and installation of 1-1/2, 2 and 3 inch meters

(Contact Utilities for meters larger than 3 inches.)

- Meters must be set to be easily removed for repair or replacement.
- Meters shall be installed at the point of entry of the service into the building in a mechanical/utility room adjacent to a floor drain.
- A valve must be placed on the inlet and outlet side of the meter. Valves shall be full flow. **Do not use angle, butterfly or globe valves.**
- All meters shall be installed no higher than three feet above the finished slab to the piping centerline and shall be clear of all adjacent obstructions by at least 12 inches. The clearance in front of the meter shall be at least 24 inches and the clearance above the meter shall be at least 48 inches.
- All meters shall be mounted in a horizontal position and shall be supported by the adjacent piping. Piping connected to 1-1/2 inch and larger meters shall be supported directly adjacent to the meter and no piping shall place a transverse or longitudinal load on the meter.

### Commercial industrial meter setting detail



Above drawing shows 3" meter setting. 1-1/2" and 2" meters do not have spools on either side of meter.

Pipe support required on discharge side only of 1-1/2" and 2" meters, but both inlet and discharge sides of 3" meter.

Observe clearances, pipe elevation restrictions and full flow valve requirements for all meter sizes.

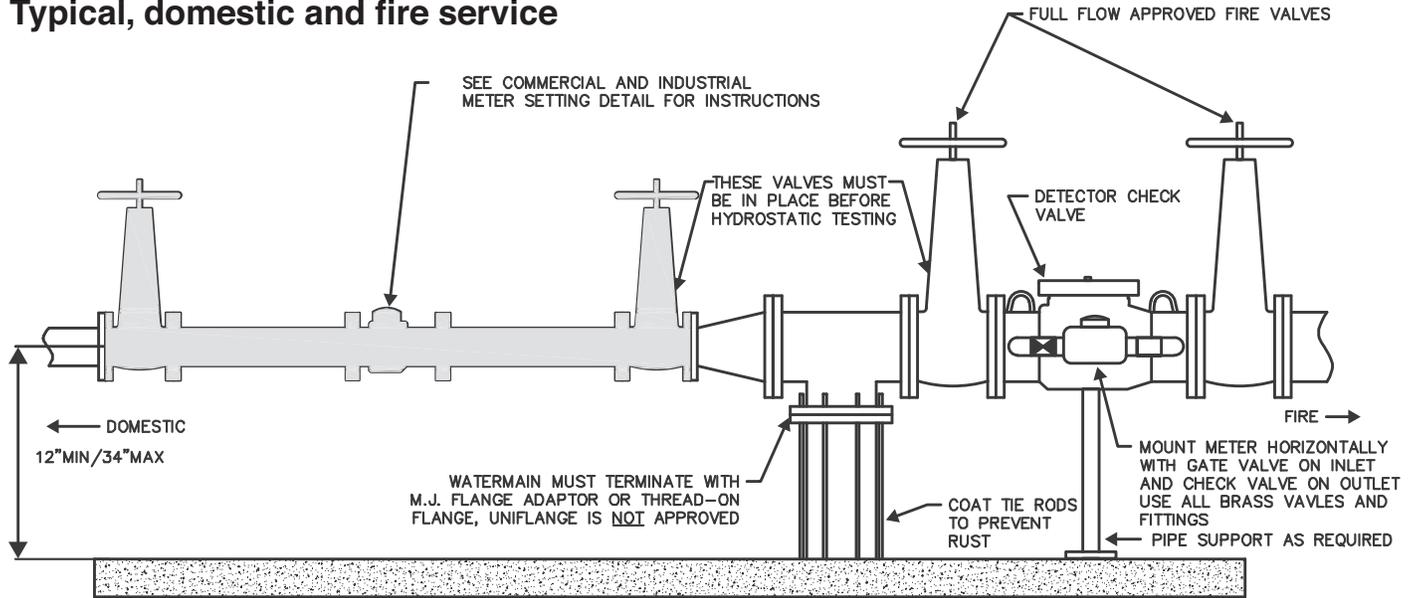
Meter size	Meter lay length	Threaded flanges furnished by the City
1-1/2"	13"	
2"	17"	
3"	19" + Spools = 43 - 44" total	

**Note: If you have any questions about setting meters, please call Utilities at 952-563-8777 BEFORE plumbing meter.**

## Fire service and detector meter

Note: Detector check meters must have a gate valve on the inlet and a check on the outlet.

### Typical, domestic and fire service



NOTE: ALL PIPE AND FITTINGS LARGER THAN 2 INCHES IN DIAM. SHALL BE EPOXY OR CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104 OR AWWA C116

## Inspections

Call Utilities for a meter inspection and water turn on after you have the meter set and the curb stop/service valve up to grade.

Utilities Outside Inspections .....952-563-8777

Monday - Friday, 7:30 a.m. - 4 p.m.

