

Improper grounding of your AG3000/iMAG4700 flow meter may cause erratic readings or false error messages.

In order to reduce the possibility of these issues, your meter must be well grounded.

Grounding your meter will help to send any stray currents, voltage, or induced signals to ground, and this will have a positive effect on meter performance.

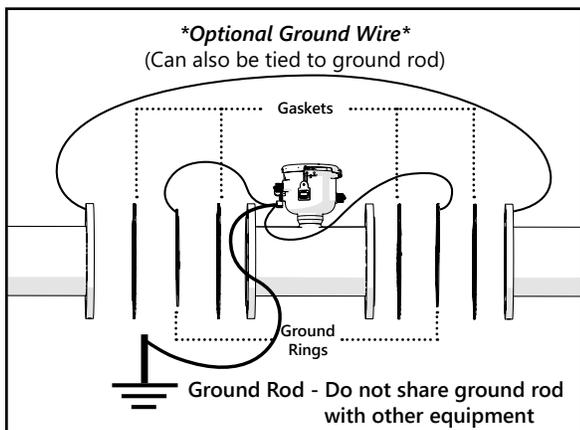
The equalization straps that come with your meter must be connected to the system side flanges of the flange assembly with the star washers between the ring lug and the flange.

We recommend installing grounding rings on your meter and if mounted grounding rings were supplied with your meter, the equalization straps will attach to the grounding rings. Be sure the inside diameter of the gaskets that mate to the grounding rings leave at least 1/16 – 3/32" of the face of the grounding rings exposed to the water.

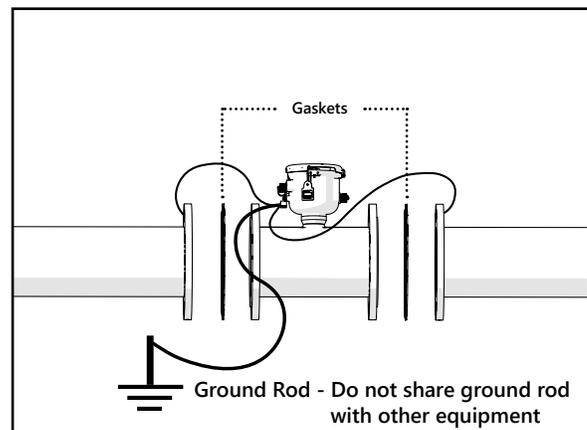
It will always be a good idea to connect the equalization straps to an isolated earth ground/ground rod.

If using grounding rings in very electrically noisy installations, there may also be an advantage to connecting a ground wire from both system side flanges to the wiring for the grounding rings, grounding lug and grounding rod.

Or in some cases, where there may be small stray voltages on the pipe itself, there would be an advantage to wire the system side flanges together while keeping the ground rings, ground lug, and grounding rod wired together but separate from the system side flanges.



With Ground Rings - Preferable



Without Ground Rings

Be sure any AC/DC power supply used for the meter or surrounding equipment is also well grounded. Keep your meter and meter ground wires far removed from any Variable Frequency Drives as they will introduce noise into your meter, and do not share the VFD ground with other equipment. Also try not to run AC power cables in line with your piping or wiring to reduce the possibility of inducing electrical signals into your pipe, cabling, or water.