

Meter Installation Information Sheet

New Installations

Water flowmeters that must be installed as a requirement of this Meter Order must meet the following criteria:

- 1) The water flowmeter must be on the list of Approved Water Flowmeters (copy attached), please note that the water flowmeter manufacturer is responsible for obtaining State approval.
- 2) The water flowmeter must be installed in a manufacturer's approved measuring chamber with flow-straightening vanes. The only exception to flow straightening vane requirements are meters that use full bore electromagnetic, multijet or positive displacement technology (meters that do not have propellers/turbines).
- 3) The water flowmeter must be installed with adequate straight pipe upstream and downstream, which is a **minimum** of 5 upstream pipe diameters and 2 downstream pipe diameters from the sensor (propeller/turbine) portion of the water flowmeter. For example, an 8 inch meter would require at least 40 inches of straight pipe upstream of the meter sensor and 16 inches downstream of the meter sensor. The only exception to spacing requirements are water flowmeters utilizing multijet and positive displacement technology (meters that do not have propellers/turbines). However, if the manufacturer's spacing requirements are greater than 5 upstream pipe diameters and 2 downstream pipe diameters, then the water flowmeter must be installed to meet the manufacturer's minimum spacing requirements.
- 4) The water flowmeter is installed to meet or exceed the manufacturer's installation requirements.
- 5) The water flowmeter is sized and installed so that full pipe flow will be maintained through the flowmeter.
- 6) The maximum water velocity does not exceed the range of velocity of the water flowmeter.
- 7) The water flowmeter is installed at a location where all water diverted from the source of supply is measured.
- 8) The water flowmeter totalizer must have sufficient capacity so that it does not cycle past zero (rollover) more than once each year. This will be specific to your particular installation. (Acre Feet vs Gallons vs Acre Inches)

Staff from KDA – DWR will be out to check all wells/ pump sites required to install a water flowmeter as a result of this order.

You need to complete the Notice of Completion form enclosed in this packet and submit it to the Division of Water Resources Topeka Field Office by a deadline of 30 days after the installation. Send the form to:

Division of Water Resources
Topeka Field Office
109 S.W. 9th Street, 1st Floor
Topeka, Kansas 66612-2216

If you have any questions, please contact the Parsons Field Office at 620-421-2697 or the Topeka Field Office at 785-368-8251.

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Pre-existing Meters

Water Flowmeters installed prior to this Meter Order are subject to current rules and regulations regarding water flowmeter installation specifications. However, since the main objective of water flowmeter requirements and this order specifically is to obtain accurate water use data, your currently installed water flowmeter may be a candidate for an exception to the current rules and regulations regarding water flowmeter installation specifications. Water flowmeters installed prior to this order (pre-existing meters) will be handled on a case by case basis.

You may be granted an exception if your installed water flowmeter meets all the following criteria:

- 1) The water flowmeter is installed to meet or exceed the manufacturer's installation requirements.
- 2) The water flowmeter is sized and installed so that full pipe flow will be maintained through the flowmeter.
- 3) The minimum or maximum water velocity does not exceed the range of velocity of the water flowmeter.
- 4) The water flowmeter is installed at a location where all water diverted from the source of supply is measured.
- 5) The water flowmeter must be accurate, which means it must read within +/-6% of the actual volume of water flowing through the water flowmeter. Please note that this will be determined by a representative of this office, by the KRWA, or by an authorized representative of the manufacturer. In order for this office to determine if your water flowmeter is accurate an appointment must be made during a period of time that the diversion works and water flowmeter can be operated under normal operating conditions.

If a water flowmeter currently is installed, you need to complete the Notice of Completion form enclosed in this packet and submit it to the Division of Water Resources Topeka Field Office by May 1, 2009. Send the form to:

Division of Water Resources
Topeka Field Office
109 S.W. 9th Street, 1st Floor
Topeka, Kansas 66612-2216

Staff from KDA – DWR will be out to check all wells/pump sites required to install a water flowmeter as a result of this order. If your pre-existing water flowmeter does not meet the criteria above, **you will be required to install a water flowmeter that does meet current rules and regulations as outlined on the other side of this page.** Please see reverse side of this page for further information.

If you have any questions, please contact the Parsons Field Office at 620-421-2697 or the Topeka Field Office at 785-368-8251.