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**Description**            The purpose of this procedure is to give the minimum requirements for installing customer meters, service regulators, and service line valves.

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**Regulatory Applicability**

- Regulated Transmission Pipelines
- Regulated Gathering Pipelines (Type A)
- Regulated Gathering Pipelines (Type B)
- Regulated Distribution Pipelines
- Regulated LNG Facilities

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**Frequency**            As needed

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**Reference**

49 CFR 192.351	<i>Scope</i>
49 CFR 192.353	<i>Customer Meters and Regulators: Location</i>
49 CFR 192.355	<i>Customer Meters and Regulators: Protection from Damage</i>
49 CFR 192.357	<i>Customer Meters and Regulators: Installation</i>
49 CFR 192.359	<i>Customer Meter Installations: Operating Pressure</i>
49 CFR 192.383	<i>Excess Flow Customer Notification</i>
49 CFR 192.385	<i>Manual Service Line Shut-off Valve Installation</i>
49 CFR 192.725	<i>Test Requirements for Reinstating Service Lines</i>

**Reference (Cont'd)**

LA Title 43 Part XIII 1901	<i>Scope</i>
LA Title 43 Part XIII 1903	<i>Customer Meters and Regulators: Location</i>
LA Title 43 Part XIII 1905	<i>Customer Meters and Regulators: Protection from Damage</i>
LA Title 43 Part XIII 1907	<i>Customer Meters and Regulators: Installation</i>
LA Title 43 Part XIII 1959	<i>Customer Meter Installations: Operating Pressure</i>
LA Title 43 Part XIII 1933	<i>Excess Flow Customer Notification</i>
LA Title 43 Part XIII 2925	<i>Test Requirements for Reinstating Service Lines</i>
165 OAC Chapter 20-5-35	<i>Restrictions on Connections to Consumers</i>

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**Forms / Record Retention**    None



**Related  
Specifications**

None

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**OQ Covered  
Task**

1161 Installation of Customer Meters and Regulators – Residential and Small Commercial

1171 Installing Customer Meters – Large Commercial and Industrial

(In order to perform the tasks listed above; personnel must be qualified in accordance with West Texas Gas's Operator Qualification program or directly supervised by a qualified individual.)



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**Procedure Steps**

**Customer Meters and Regulators**

1. Ensure customer meters and regulators are located as follows:
  - a) Installed in a readily accessible location and protected from corrosion or other damage; including vehicular damage, if installed outside a building; vehicular damage that may be anticipated. Note that an upstream regulator in a series may be buried.
  - b) If installed in a building, service regulators need to be as near as practical to the point of service line entrance.
  - c) Customer meters will not be installed within a building.
  - d) Upstream regulators in a series must be located outside the building unless it is located in a separate metering or regulating building.
2. Ensure customer meters and regulators are protected from damage by:
  - a) Installing a device to protect against vacuum or back pressure situations.
  - b) Terminating service regulator vents and relief vents outdoors with the outdoor terminal being:
    - i) Rain and insect resistant
    - ii) Located at a place where gas from the vent can escape freely into the atmosphere and away from any opening into the building; and
    - iii) Protected from damage caused by submergence where flooding may occur.
  - c) Ensure that each pit or vault that houses a customer meter or regulator at a place where vehicle traffic is anticipated is able to support the traffic.
3. Ensure customer meters and regulators are installed:
  - a) To minimize anticipated stresses upon the connecting piping and the meter.
  - b) If using close all-thread nipples, the wall thickness remaining after the threads are cut meets the requirements of minimum wall thickness in 49 CFR 192.
  - c) Connections are not made of lead or other easily damaged material.
  - d) If the regulator may release gas during operation, it is vented to the outside atmosphere.
4. Ensure the following operating pressure limits are followed:
  - a) Meter is not used at a pressure that exceeds the manufacturer's recommended case rating.
  - b) Newly installed meters manufactured after November 12, 1970, has been tested to a minimum of 10 psi gauge.
  - c) Rebuilt or repaired tinned case meters are not used at a pressure that is more than 50% of the pressure used to test the meter after rebuilding or repairing.



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**Oklahoma Pipelines**

The following restrictions are applicable to pipeline connections to consumers in Oklahoma:

1. The system will be maintained in such a condition that will enable it to furnish safe and adequate gas service, subject only to emergency conditions beyond WTG control;
2. House piping will conform to the requirements of the applicable city or town ordinances. In towns, villages, and suburban territory where there are no applicable regulations as to gas service, house piping, and venting, WTG will comply with the Standards for the Installation of Gas Appliances and Gas Piping, as set forth in the National Fire Protection Associations No. 54, dated 1969, and future amendments or supplements thereto. WTG may decline to serve a consumer or prospective consumer until he has complied with all applicable State and municipal regulations governing gas service.
3. Residential customer meters designed for above ground use will not be buried or installed in any manner which would cause the surface of the shell of the meter to directly contact the ground.
4. All gas supplied to a consumer will be substantially free of impurities which may cause corrosion of mains, piping, and consumer's appliances, or form corrosive or harmful fumes when burned in a properly designed and adjusted burner.