

ATCO

METER AREA SPECIFICATIONS

The information in this booklet is provided to assist in planning your meter area requirements. Actual field conditions may result in additional requirements. For more information, please contact the ATCO office in your area.

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GENERAL INFORMATION

General Requirements

- Legal description and service address of the property/building to be serviced.
- An adequate meter area must be provided at no cost to ATCO to install metering and regulating equipment, regardless of whether it is a new facility or an expansion to an existing facility. (A meter area is the space set aside outside the building or in an approved standalone enclosure located on property.)
- The installation of the meter, regulator, house line and secondary service lines must conform to the following codes and standards:
 - o Alberta Building Code
 - o CAN/CSA-Z662
 - o CAN/CSA-B149.1
 - o The Alberta Safety Codes Act
 - o The Alberta Gas Code Regulations
- Prior approval must be obtained from ATCO when a header set is required.
- All meters, regulators, reliefs, bypasses, pipes and fittings installed by ATCO remains the property of ATCO.

Location

- Meter must be outside.
- The meter area can be adjacent to the building or in an approved standalone enclosure within the customer's property.
- The meter area must be clear, unobstructed and accessible at all times to authorized ATCO personnel.
- The meter area must be at final grade before installation.

Size

- The minimum size of the meter area will be determined by ATCO for each installation, based on gas load, inlet and outlet pressure, regulation equipment, and the number and type of meters.
- Special applications, including the use of a standalone enclosures, require consultation with ATCO prior to installation. ATCO will help determine the size of any enclosures.

METERS ADJACENT TO THE BUILDING

Meter Area Size (Elevated Pressure)

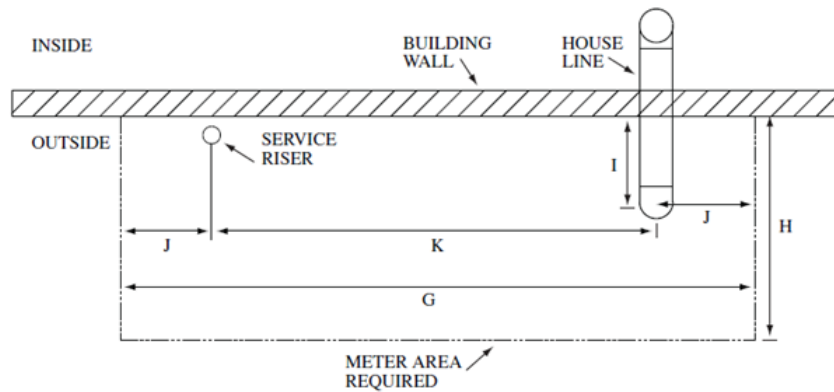
Total Load	Distance Between Service Riser and House Line K	Unobstructed Area Required		Width of Space to Right of House Line/ Left of Riser J	House Line Distance from Finished Wall I	Height of House Line from Finished Grade
		Length G	Width H			
42m ³ /h (1,500cfh)	36" (0.6-0.9m)	48-60" (1.2-1.5m)	36" (0.9m)	12" (0.3m)	6" (0.15m)	48" (1.2m)
42-283m ³ /h (1,500-8,000cfh)	48" (0.9-1.2m)	88" (2.2m)	36" (0.9m)	20" (0.5m)	6" (0.15m)	48" (1.2m)
283-651m ³ /h (8,001-23,000cfh)	84-144" (2.4-3.6m)	136-184" (3.5-4.7m)	60" (1.5m)	20" (0.5m)	Requires site visit from ATCO	Requires site visit from ATCO

METERS ADJACENT TO THE BUILDING

Meter Area Size (Low Pressure 7" Water Column)

Total Load	Distance Between Service Riser and House Line K	Unobstructed Area Required		Width of Space to Right of House Line/ Left of Riser J	House Line Distance from Finished Wall I	Height of House Line from Finished Grade
		Length G	Width H			
0-13m ³ /h (0-450cfh)	18" (0.45m)	40" (1.0m)	24" (0.6m)	12" (0.3m)	4" (0.1m)	48" (1.2m)
21-28m ³ /h (451-1,000cfh)	24" (0.6m)	48" (1.2m)	36" (0.9m)	12" (0.3m)	6" (0.15m)	48" (1.2m)
28-283m ³ /h (1,001-4,000cfh)	48" (1.2m)	80" (2.0m)	36" (0.9m)	20" (0.5m)	6" (0.15m)	48" (1.2m)
283-651m ³ /h (4,001-10,000cfh)	108" (2.7m)	148" (3.7m)	60" (1.5m)	20" (0.5m)	Requires site visit from ATCO	Requires site visit from ATCO

Outside Set Area (Adjacent to Building)



- The above meter space requirements are for one meter and one outlet pressure per location.
- Special applications including loads over 651m³/h (23,000cfh) or twin regulator runs require a mandatory site visit for specific spacing requirements.
- A concrete pad is required before the installation of any meter with a minimum capacity of 28m³/h (1,000cfh) or if any part of the meter set has to rest on the ground. The

concrete pad must be finished, ground level and tied into the building foundation, or have pilings. Using the minimum space requirements for the meter set, the required size of the concrete pad can be determined.

- A larger concrete pad may be required when additional banked meters are installed on the same riser. Please contact ATCO to determine the concrete pad requirements for these situations.

METERS ADJACENT TO THE BUILDING

Meter Site Specifications

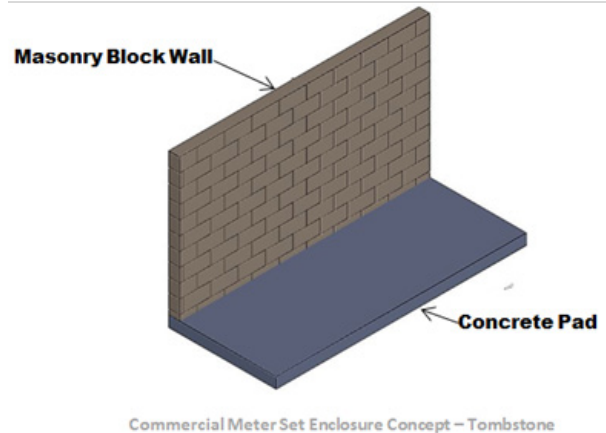
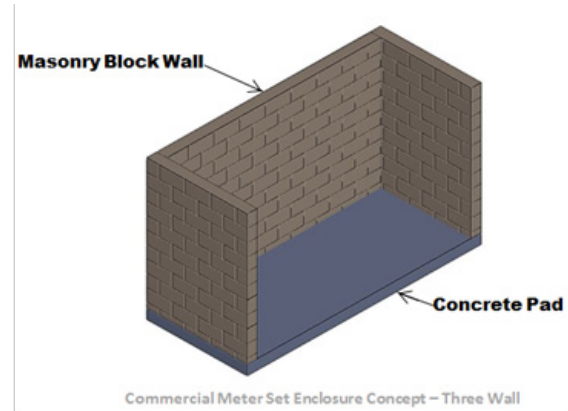
Total Load	Riser & Meter Protection Unobstructed Distance from Wall	Concrete Pad Required	Roof	Chain Link Fence Required
0-13m ³ /h (0-450cfh)	24" (0.6m)	No	No	No
13-28m ³ /h (451-1,000cfh)	36" (0.9m)	No	No	No
28-142m ³ /h (1,001-5,000cfh)	36" (0.9m)	Yes 48" x 36" (2.0m x 0.9m)	No	May be required
142-651m ³ /h (5,001-23,000cfh)	60" (1.5m)	Yes 148" x 60" (3.7m x 1.5m)	May be required	May be required

Inlet and Outlet Piping

- The customer must indicate the desired meter location on a plan to be submitted to ATCO. The final location of inlet and minimum outlet pipe sizes will be determined by ATCO.
- The inlet piping must enter directly into the meter area on special applications.

METERS IN APPROVED STANDALONE ENCLOSURES

- The customer must indicate the desired enclosure location on a plan to be submitted to ATCO for approval.
- Standalone structures must have a concrete pad engineered to avoid settling. A site visit is required prior to building the enclosure.
- ATCO will help determine the size of the enclosure based on the size of the meter.
- The service riser must be located outside of the standalone enclosure. The riser may extend over the wall of the enclosure or a notch in the structure will be required. The final location of inlet and outlet piping will be determined by ATCO.
- Suitable enclosure materials include: masonry block, plywood, precast concrete, etc. ATCO must approve the enclosure before it is constructed.



ALL METERS

Protection

- ATCO metering and regulating equipment must be protected from potential physical damage.
- Area must be in a location that is free from falling ice or snow hazards. Snow must not be piled directly in front of or on the meter set.
- ATCO will provide protection for piping, meter and regulating equipment where applicable.
- When a meter is located on a building, where the exterior is stucco or corrugated metal siding, ATCO requires backing support on the inside wall (i.e. plywood) to attach riser brackets to keep single and multi-header meters secure.

Security

- ATCO reserves the right to require a security enclosure to prevent tampering and vandalism.

- Enclosures must be closed and locked at all times when not occupied by ATCO. The gates of these enclosures need to be six inches (0.15m) above the finished grade for access during winter months.
- Enclosures may be locked by a conventional lock set, provided by ATCO to ensure that ATCO can obtain access at all times to the area.
- Warning signs provided by ATCO shall be attached to the outside of the enclosure.

Electrical

- There must be a minimum of three feet (0.9m) separation between any part of the gas meter/regulation installation and any sources of ignition (i.e. open flames, electrical panels, switches, meters.)