



LAST REVIEW DATE:
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5 Years

SPECIFICATION: G-703-1

**TITLE: REQUIRMENTS FOR BRANCH LINES
SUPPLYING MULTIPLE REGULATORS
AND / OR METERS**

★ VOLUME: 3 and Yellow Book

REVISIONS: (See ★)

- | | |
|-----------------------|---|
| 1) Cover Page | - Changed "Gas Blue Book" to "Yellow Book". |
| 2) Table of Contents | - Added Section 9.0. |
| 3) Section 5.2 | - Corrected Table number. Changed "Blue Book" to "Yellow Book". |
| 4) Sections 7.0 & 8.0 | - Revised Note: Updated Section number. Changed "Gas Blue Book" to "Yellow Book". |
| 5) Section 9.0 | - Added "Attachment" Section. |



Gas Operations Standards

TITLE: REQUIREMENTS FOR BRANCH LINES SUPPLYING MULTIPLE REGULATORS AND /OR METERS

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ENVIRONMENTAL REVIEW BY: N. Giraldi		SAFETY REVIEW BY: N. Giraldi		
PREPARED BY:	APPROVED BY:	DATE:	VOLUME: 3 and Yellow Book	PAGE 1 OF
G. Ludwig	Liliana Gonzalez General Manager Technical Operations	4/9/14	Metering Specs and Procedures; Yellow Book	5 PAGES



TITLE: REQUIREMENTS FOR BRANCH LINES SUPPLYING MULTIPLE REGULATORS AND / OR METERS

1.0 **SCOPE**

This specification details the requirements for branch lines supplying multiple meters. This specification does not apply to banks of meters supplying residential loads.

2.0 **LEGAL REQUIREMENTS**

None.

3.0 **RESPONSIBILITY**

New business customers are responsible for complying with this specification for all branch lines supplying multiple meter sets. These requirements are in addition to the requirements specified for the specific type of meter or regulator being installed.

4.0 **DEFINITIONS**

Trunk line - The gas pipe upstream of the branch lines supplying multiple meters and/or regulators.

Branch line – The gas pipe that is supplied by a trunk line to feed a regulator or meter.

5.0 **GENERAL REQUIREMENTS**

5.1 Lockable valves shall be ¼ turn, tamper-proof valves.

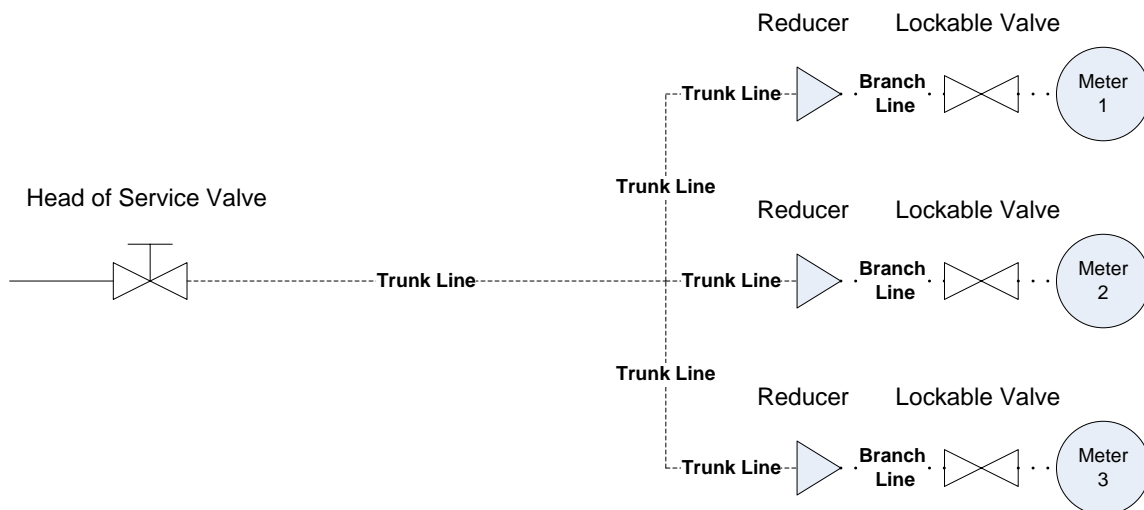
- ★ 5.2 Only approved valves listed in Table 1-A of the Con Edison Yellow Book shall be used.



TITLE: REQUIREMENTS FOR BRANCH LINES SUPPLYING MULTIPLE REGULATORS AND / OR METERS

6.0 LOW PRESSURE SERVICE INSTALLATIONS WITH MULTIPLE METERS DOWNSTREAM OF THE HEAD OF SERVICE VALVE

Low pressure service installations with multiple meters downstream of the head of service valve shall meet the following requirements:



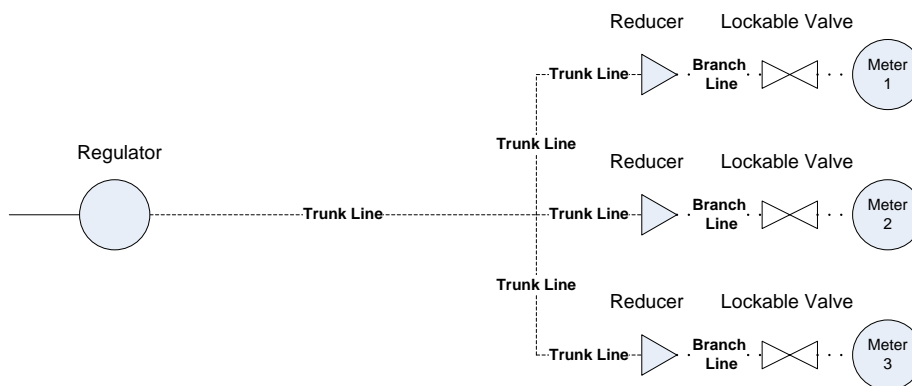
- 6.1 The trunk line shall be the same size as or larger than the head of service valve.
- 6.2 Each branch line and lockable valve shall be the same pipe diameter as the gas meter it is feeding.
- 6.3 For **diaphragm and rotary meters**, the lockable valve and meter shall be within 5 feet of the trunk line. For **turbine meters**, the lockable valve shall be within 5 feet of the trunk line and the minimum distance of the turbine meter to the lockable valve shall be as indicated in Attachment A.



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7.0 MEDIUM AND HIGH PRESSURE SERVICE INSTALLATIONS WITH MULTIPLE METERS DOWNSTREAM OF A SINGLE REGULATOR

Medium and high pressure service installations with multiple meters downstream of a single regulator shall meet the following requirements:



★ **NOTE:** Please refer to Section 4 of the Con Edison Yellow Book for additional requirements where gas piping inside buildings operates in excess of 15 psig.

7.1 The trunk line shall be the size of the largest meter diameter plus one pipe diameter (see table below).

<i>Largest Meter Size</i>	<i>Trunk Line Size</i>
1-1/2 inch	2 inch
2 inch	3 inch
3 inch	4 inch
4 inch	6 inch
6 inch	8 inch
8 inch and above	Consult Gas Measurement

7.2 Each branch line and lockable valve shall be the same pipe diameter as the gas meter it is feeding.

7.3 For **diaphragm and rotary meters**, the lockable valve and meter shall be within 5 feet of the trunk line. For **turbine meters**, the lockable valve shall be within 5 feet of the trunk line and the minimum distance of the turbine meter to the lockable valve shall be as indicated in Attachment A.

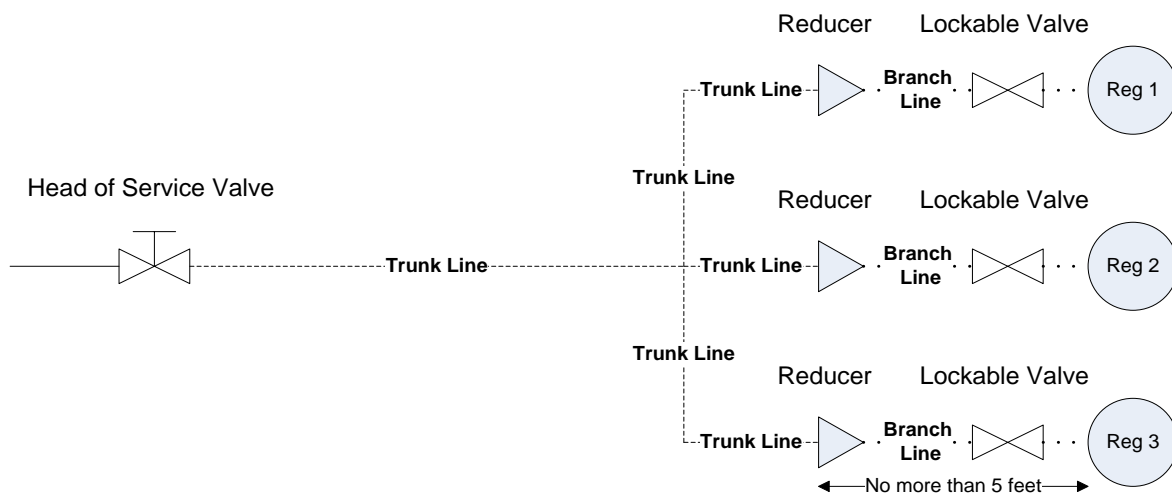
7.4 For industrial regulator installations and for parallel twin regulator installations, the trunk line shall be deemed to begin immediately after the point where the regulator piping runs tie back together.



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8.0 MEDIUM AND HIGH PRESSURE SERVICE INSTALLATIONS WITH MULTIPLE REGULATORS DOWNSTREAM OF THE HEAD OF SERVICE VALVE

Medium and high pressure service installations with multiple regulators downstream of the head of service valve shall meet the following requirements:



★ **NOTE:** Please refer to Section 4 of the Con Edison Yellow Book for additional requirements where gas piping inside buildings operates in excess of 15 psig.

- 8.1 The trunk line shall be the same size as or larger than the head of service valve.
- 8.2 Each branch line and lockable valve shall be the same pipe diameter as the gas regulator it is feeding.
- 8.3 The lockable valve and regulator shall be within 5 feet of the trunk line.
- 8.4 The piping downstream of the regulator shall be the same size as the meter.

★ 9.0 ATTACHMENT

Attachment A – Minimum Distance Between Turbine Meter & Lockable Valve



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ATTACHMENT A

Minimum Distance Between Turbine Meter & Lockable Valve	
Turbine Meter	Minimum Distance
AAT-18 (4")	40"
AAT-35 (6")	60"
AAT-60 (8")	80"
AAT-120 (12")	120"