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SPECIFICATION: **G-445-6**

TITLE: **SPECIFICATION FOR GAS METER BARS**

VOLUME: **6**

★ COURSE ID: **NONE**

★ CORE GROUP: **NONE**

★ TARGET AUDIENCE: **NONE**

REVISIONS: (See ★)

- 1) Cover Page - Added Course ID, Core Group, and Target Audience designations to conform with current specification standards
- 2) Table of Contents - Added "RECORDS RETENTION" and "REFERENCES" sections.
- 3) Section 3.0 - Deleted Section 3.2 in its entirety; renumbered subsequent section.
- 4) Section 3.2 (New) - Formerly section 3.3. Revised sizes of approved meter bypass bars.
- 5) Section 5.1 - Revised Meter bars and manufacturing Catalog. Added Meter Bypass bars for CL 500 and CL 1000.
- 6) Section 7.0 - New section added: RECORDS RETENTION
- 7) Section 8.0 - New section added: REFERENCES



Gas Operations Standards

TITLE: SPECIFICATION FOR GAS METER BARS

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TITLE: SPECIFICATION FOR GAS METER BARS

1.0 SCOPE

This specification applies to the purchase of meter bars for use in the territory supplied with gas by the Consolidated Edison Company of New York, Inc.

2.0 LEGAL REQUIREMENTS

None.

★ 3.0 REQUIREMENTS

- ★ 3.1. Meter bypass bars (single body with one of the following: integrated meter inlet/out swivels; meter shutoff valve; insulated union connection) shall meet the general requirements listed below:
 - A) Pipe threads shall be American Standard Taper Pipe Threads in accordance with the latest edition of ANSI B2.1.
 - B) Meter bars shall be of one-piece construction, made of cast or black iron, rigid and nonadjustable, with a corrosion resistant coating.
 - C) Union, swivel, and swivel nuts shall be made of malleable iron per latest edition of ASTM A47 or ductile iron per ASTM A536.
 - D) Meter inlet and outlet connections shall be in the vertical position.
 - E) Swivel and swivel nuts shall be made of malleable iron per latest edition of ASTM A47 or ductile iron per latest edition ASTM A536.
 - F) Insulated connections shall provide a 100% insulated barrier to prevent electrolysis per 49 CFR 192.467.
 - G) Union outlet connections shall be insulated unions.
 - H) Integral stop-cock valves shall be ball or plug type, tamperproof and lockable.

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★ 3.0 **REQUIREMENTS** (Continued)

3.1 (Continued)

- I) For meter bars purchased for outdoor usage, a 1/8" tap and steel plug is to be installed in the rear boss of the outlet elbow in the meter bar.

★ 3.2 **Approved Sizes for Meter Bypass Bars**

<u>Size</u>	<u>Tappings-Iron Pipe Size</u>			<u>Center-to-Center Distance of Tappings</u>
	<u>Inlet</u>	<u>Outlet</u>	<u>Swivels</u>	
1" x 1" x 20 Lt	1"	1"	20 Lt	6"
1 - ¼ " x 1 - ¼ " x 30 Lt	1 - ¼ "	1 - ¼ "	30 Lt	8 - ¼ "
1 - ½ " x 1 - ½ " x 60 Lt	1 - ½ "	1 - ½ "	60 Lt	10"

4.0 **PRESSURE TEST**

Meter bars shall withstand an air or gas pressure of 100 psig for five minutes under liquid without leaking.

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★ 5.0 IDENTIFICATION

Meter bars should be permanently identified by manufacturer's name or trademark. In addition, it is recommended that the catalog number be permanently affixed to the bar.

★ 5.1 METER BARS MANUFACTURER'S NAME AND CATALOG NUMBER

METER BARS/MANIFOLDS		
Manufacturer	Catalog of Figure Number	Nominal Size
A. Y. McDonald (Meter Bars)	6480-CCDM-V 11/4" X11/4"X11/4" (Con Edison specific model)	1 1/4" X 1 1/4" X 1 1/4", X 30 lt, 8 1/4" Centers for Class 500TC meters horizontal inlet and outlet; Includes integral meter bypass and swivels
	6480-CCDM-V 11/2"X 11/2" X 11/2" (Con Edison specific model)	1 1/2" x 1 1/2 x 1 1/2", X 60lt, 10" centers for Class 1000TC meters horizontal inlet and outlet; Includes integral meter bypass and swivels
A. Y. McDonald (Meter Bars)	6410-FFE-W 1"X1"X1" (Con Edison specific model)	1" X 1" X 1" X 20lt; 6" centers for Class 250 meters with horizontal inlet and outlet; Includes integral meter bypass and swivels
	6312-FFE-W 1"X1"X1" (Con Edison specific model)	1" X 1" X 1" X 20lt; 6" centers for Class 250 meters with rear center inlet and vertical outlet; Includes integral meter bypass and swivels
Richards Manufacturing (Manifolds)	339-0176-NB (2 Meter Manifold for A. Y. McDonald 6312)	Double Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 2 unit meter sets. Each set to include plug and caplug
	339-0184-NB (3 Meter Manifold for A. Y. McDonald 6312)	Triple Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 3 unit meter sets. Each set to include plug and caplug
UPSCO, Inc (Manifolds)	UAMB-00003548 (2 Meter Manifold for A. Y. McDonald 6312)	Double Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 2 unit meter sets. Each set to include plug and caplug
	UAMB-00003547 (3 Meter Manifold for A. Y. McDonald 6312)	Triple Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 3 unit meter sets. Each set to include plug and caplug
R. W. Lyall (Manifolds)	CE4521259 (2 Meter Manifold for A. Y. McDonald 6312)	Double Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 2 unit meter sets. Each set to include plug and caplug
	CE4521260 (3 Meter Manifold for A. Y. McDonald 6312)	Triple Multi-meter Manifold: Header 22" long; 1.5" Diameter: For indoor/outdoor install of CL250 gas meters 3 unit meter sets. Each set to include plug and caplug

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6.0 APPROVALS

Samples of meter bars shall be submitted to Gas Measurement for approval.

★ 7.0 RECORDS RETENTION

Any records generated in the course of performing work in accordance with this specification shall be maintained as required by Corporate Instruction [CI-870-1](#) "Records Management". Guidance on the retention of Company Gas Operations records can also be found on the [Records Management](#) intranet site

★ 8.0 REFERENCES

[CI-870-1](#) Records Management

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