



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	1 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

Prepared By: Engineering Staff 
Approved By: Jerome T. Schmitz 

MISCELLANEOUS
Meter Manifold Supports

1. SCOPE

This specification covers meter manifold supports in 3/4", 1", 1 1/4", 1 1/2" and 2" sizes.

2. APPLICABLE DOCUMENTS

- 2.1 American National Standards Institute (ANSI) B-1.20.1, "Pipe Threads, General Purpose (INCH)."
- 2.2 American National Standards Institute (ANSI) Z-55.1 "Finishes for Industrial Apparatus and Equipment."
- 2.3 ASTM International (ASTM) A-53, "Standard Specification for Pipe, Steel, and Hot-Dipped, Zinc-Coated, Welded and Seamless."
- 2.4 ASTM International (ASTM) A-106, "Specification for Seamless Carbon Steel Pipe for High-Temperature Service."
- 2.5 Southwest Gas Material Specification MS B-10, "Pipe Fittings: Fittings, Forged Steel, Threaded."
- 2.6 United States Department of Transportation (DOT), Code of Federal Regulations (CFR), Title 49, Part, "Transportation of Natural and Other Gas by Pipeline; Minimum Safety Standards."

NOTE: Unless otherwise specified, the editions of the above documents incorporated by DOT 49 CFR 192 are applicable. Documents not incorporated by DOT 49 CFR 192 will be the most recent edition.

3. TERMINOLOGY

3.1 General

- 3.1.1 "Southwest Gas," "Southwest" or "SWG" wherever used in this specification and other related documents will refer exclusively to Southwest Gas Corporation.
- 3.1.2 The terms "approved," "as approved," "satisfactory," "as directed," "or equal" or other similar terms wherever used in this specification and other related documents will mean "as determined by Southwest Gas," unless specifically stated otherwise.



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	2 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

Prepared By: Engineering Staff 
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MISCELLANEOUS
Meter Manifold Supports

3. TERMINOLOGY (Cont'd)

3.1.3 "Product Information Package" or "PIP" wherever used in the specification and any other related documents will mean the required technical product information that a manufacturer must submit to SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.

4. MATERIALS AND MANUFACTURING

- 4.1 Unless otherwise specified, all meter manifold supports shall be coated with an Industrial Gray Coating No. 49 per ANSI Z-55.1. The paint system used shall be one of the systems listed in Tables O-17.1 and O-17.2 or pre-approved equivalent.
- 4.2 Threads shall be in accordance with ANSI B-1.20.1.
- 4.3 Couplings shall meet the requirements of MS B-10.
- 4.4 Steel shall meet the requirements of ASTM A-53 or ASTM A-106.

APPROVED PAINT SYSTEMS				
SYSTEM NUMBER	SURFACE PREPARATION	PRIMER COAT	INTERMEDIATE COAT	FINISH COAT
1	Solvent Cleaning (SSPC-SP 1) THEN Power Tool Cleaning (SSPC-SP 3) Rusted Spots	High-Build Polyamide Epoxy, DFT 4.0 to 5.0 Mils.	None	Aliphatic Polyurethane DFT 2.0 to 3.0 Mils.
2	Solvent Cleaning (SSPC-SP 1) THEN Power Tool Cleaning (SSPC-SP 3) Rusted Spots	Modified Alkyd, Inhibited, Chromate and Lead-Free, DFT 2.0 Mils.	Alkyd Enamel, DFT 1.5 to 2.0 Mils.	Alkyd Enamel, DFT 1.5 to 2.0 Mils.
3	Solvent Cleaning (SSPC-SP 1) THEN Power Tool Cleaning (SSPC-SP 3) Rusted Spots	Aluminum Flake Epoxy Mastic, DFT 4.0 to 5.0 Mils.	None	Aliphatic Polyurethane DFT 2.0 to 3.0 Mils.

TABLE O-17.1



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	3 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

Prepared By: Engineering Staff 
Approved By: Jerome T. Schmitz 

MISCELLANEOUS
 Meter Manifold Supports

4. MATERIALS AND MANUFACTURING (Cont'd)

APPROVED PAINT SYSTEMS MANUFACTURER'S PART NUMBERS				
SYSTEM NUMBER	CARBOLINE	SHERWIN WILLIAMS	RUST-OLEUM	KRYLON
1 ¹	801	B58 T 104	9100 Series	
	834	B65 W 300 Series	9400 Series	
2 ¹	GP-818	B50 HZ 1	7669	00691
	Subsil B	B56 Series	7686	00871
3 ¹	Carbomastic 15	B62 S 100		
	834	B65 W 300 Series		

NOTES:
¹For each paint system, the top part number is for the primer and the bottom part number is for the top coat.

TABLE O-17.2

5. PERFORMANCE REQUIREMENTS

- 5.1 Meter manifold supports shall be height adjustable.
- 5.2 Meter manifold supports shall be designed to support a weight of 1,000 lbs.

6. DIMENSIONS AND TOLERANCES

The dimensions and tolerances must be in accordance with Appendix A of this specification.



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	4 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

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MISCELLANEOUS
Meter Manifold Supports

7. INSPECTION

- 7.1 Successful review of the Product Information Package (PIP), as well as any future reference by SWG to the Seller's part number or internal code number in any future contract or purchase, will mean only that no conflict with the specification was found, and will not relieve the Seller from meeting all the requirements of this specification.
- 7.2 SWG retains the option to inspect the manufacture and testing of any and all materials, products or systems referenced in this specification that are sold to SWG.
- 7.3 SWG will make appropriate inspections and tests of any and all materials, products or systems supplied to this specification. SWG will have the right, at their option, to reject any material which fails to conform to this specification. Any such rejection may take place at the manufacturer's facility; the supplier's warehouse or any subsequent delivery location, before or after SWG assumes possession. Notice of the rejection will be made promptly to the supplier by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 7.4 Any changes in the manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG, must be approved by SWG's Engineering Staff. **Failure to obtain SWG's approval may be cause for rejection and disqualification as an approved supplier.**

8. CERTIFICATION

The manufacturer's or supplier's certification will be furnished to Southwest. This certification will state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that all requirements have been met. When requested or specified in the purchase order or contract, a report of test results will be provided.

Upon the request of Southwest, the certification of an independent third party indicating conformance to the specification may be considered at Southwest's expense.



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	5 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

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MISCELLANEOUS
Meter Manifold Supports

9. SAFETY DATA SHEETS

In accordance with law, the seller will supply Safety Data Sheets for all applicable items supplied under this specification to the following:

- 1) The Receiving Location
- 2) Engineering Staff
- 3) Southwest Gas Corporation
Corporate Safety
Mail Station LVA-120
P.O. Box 98510
Las Vegas, NV 89193-8510

10. PRODUCT MARKING

A label with the manufacture's name and material designation shall be affixed to the meter manifold support.

11. PACKAGING AND PACKAGE MARKING

- 11.1 Meter manifold supports will be packaged in a manner to prevent damage during transportation and storage.
- 11.2 The following will be marked on the packaging:
 - Manufacturer's Name
 - Product Description
 - Lot Number or Equivalent



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	6 of 8
Issue Date:	03/01/16
Superseded Date:	02/25/15

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MISCELLANEOUS

Meter Manifold Supports

12. STOCK CLASSIFICATION DESCRIPTION

SUPPORT, METER MANIFOLD, _____ SIZE, LOCKABLE.

SUPPORT, METER MANIFOLD, BOTTOM YOKE ONLY.



SOUTHWEST GAS CORPORATION
ENGINEERING STAFF
MATERIAL SPECIFICATION

Section No.:	MS O-17
Page No.:	8 of 8
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MISCELLANEOUS
 Meter Manifold Supports

APPENDIX A
LOCKABLE METER MANIFOLD SUPPORT
 3/4", 1" 1 1/4" 1 1/2" & 2"

