



SOUTHWEST GAS CORPORATION

® ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS O-18
Page No.:	1 of 7
Issue Date:	03/01/16
Superseded Date:	02/25/15

MISCELLANEOUS

Paddle Blinds and Spacer Rings

1. SCOPE

This specification covers paddle blinds and spacer rings used on the larger meter set assemblies to provide positive separation of air and gas during field proving operations. The spacer rings are installed as part of certain meter set assemblies. The paddle blinds are carried by measurement technicians and used in place of spacer rings during field proving.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) A-53, "Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated Welded and Seamless."
- 2.2 United States Department of Transportation (DOT), Code of Federal Regulations (CFR), Title 49, Part 192, "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 "approve," "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.
- 3.1.3 "Product Information Package" or "PIP" wherever used in this specification and other related documents will mean the required information that a manufacturer must submit to SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.



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4. MATERIALS AND MANUFACTURING

These items will be available in all standard line sizes from 1" thru 12", and designed to fit between ANSI 150 Flanges.

5. PERFORMANCE REQUIREMENTS

Paddle Blinds and Spacer Rings will contain gas under pressures up to 275 psig.



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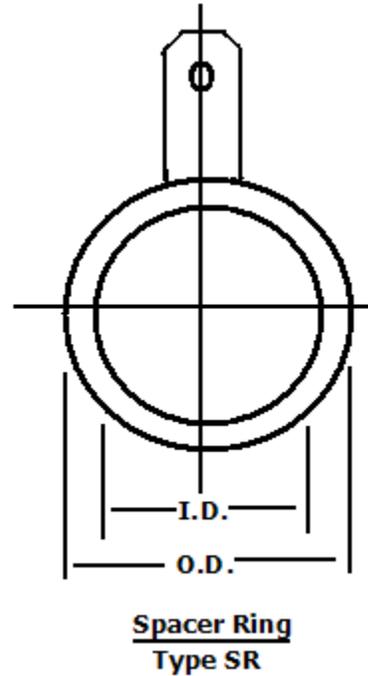
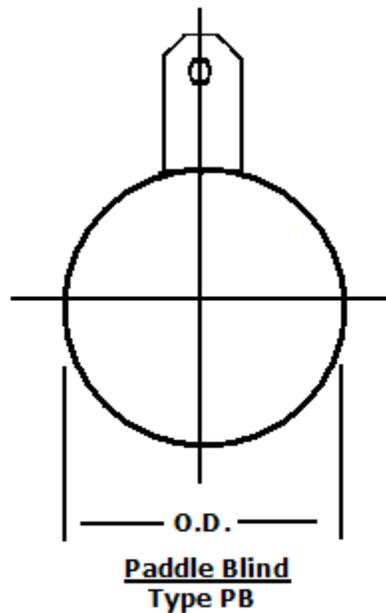
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6. DIMENSIONS AND TOLERANCES



FLANGE SIZE*	O.D.	I.D.	THICKNESS
1	2 1/2"	1 1/8"	1/4"
2	4"	2 1/4"	1/4"
3	5 1/4"	3 1/4"	1/4"
4	6 3/4"	4 1/4"	1/4"
6	8 5/8"	6 1/4"	3/8"
8	10 7/8"	8 1/4"	1/2"
10	13 1/4"	10 1/4"	5/8"
12	16"	12 1/4"	3/4"

* ANSI 150

TABLE O-18.1



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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 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 products, 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 shall be furnished to Southwest Gas. This certification shall state that samples representing each lot have been manufactured, tested and inspected in accordance with this specification and that 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 Gas, the certification of an independent third party indicting conformance to the specification may be considered at Southwest's expense.



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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-530
P.O. Box 98510
Las Vegas, NV 89193-8510

10. PRODUCT MARKING

Size

11. PACKAGING AND PACKAGE MARKING

All products covered in this specification will be packaged in a manner to prevent damage during transportation and storage.



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12. STOCK CLASSIFICATION DESCRIPTION

PADDLE BLIND, _____ INCH, ANSI _____ ASTM A516, GRADE _____.

SPACER RING, _____ INCH, A516, GRD _____, ANSI _____, TYPE SR.