



SOUTHWEST GAS CORPORATION

ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No.:	MS G-6
Page No.:	1 of 8
Issue Date:	03/01/16
Superseded Date:	02/24/15

FILTERS AND STRAINERS

Basket Strainer

1. SCOPE

This specification covers basket strainers used in certain meter set assemblies to protect the meter from damage by particulate matter in the gas stream. They are secured between either a pair of flanges or between a flange and the flanged inlet connection to the meter.

2. APPLICABLE DOCUMENTS

- 2.1 ANSI B 31.3, "Chemical Plant and Refinery Piping."
- 2.2 ASME B 31.1, "Power Piping."
- 2.3 ASME B 31.3, "Process Piping."
- 2.4 ASME B 31.4, "Pipeline Transportation Systems for Liquid Hydrocarbon and Other Liquids."
- 2.5 ASME B 31.8, "Gas Transmission and Distribution Piping Systems."
- 2.6 ASME 8 Div. 1, "Rules for Construction of Pressured Vessels."
- 2.7 United States Department of Transportation (DOT), Code of Federal Regulations, 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 "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.



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3. TERMINOLOGY (Cont'd)

3.1 General

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

4. MATERIALS AND MANUFACTURING

- 4.1 The perforated support is fabricated from light gauge hot rolled commercial quality mild carbon steel, with 1/8" nominal diameter holes on 3/16" nominal centers.
- 4.2 The wire cloth, attached outside the perforated support, is 40 x 40 mesh Stainless Steel.
- 4.3 The length of the units shall be sufficient to produce a straining area of at least 150% of the minimal pipe line size.
- 4.4 The units, when ordered, shall be designated as to intended use with either raised face or flat face flanges.
- 4.5 The Basket Strainers are available in all standard line sizes from 1" through 12".



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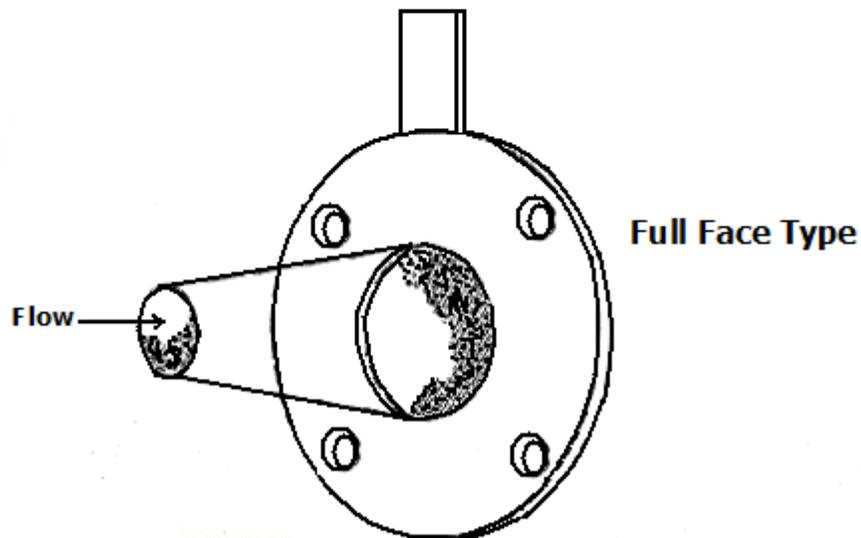
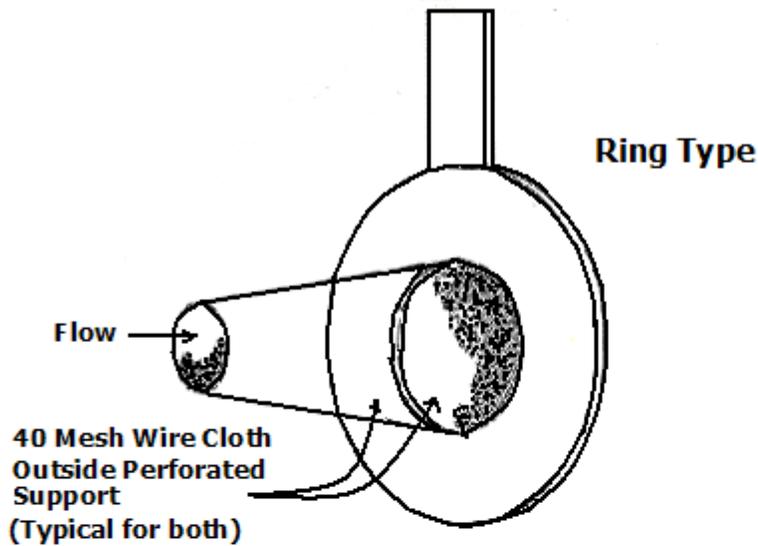
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5. DIMENSIONS AND TOLERANCES





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6. INSPECTION

- 6.1 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.
- 6.2 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.
- 6.3 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.
- 6.4 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.**

7. CERTIFICATION

The manufacturer's or supplier's certification will be furnished to Southwest. This certification will state that a sample representing each lot has been manufactured, tested and inspected in accordance with this specification and that all requirements have been met. When 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 this specification may be considered at Southwest's expense.



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8. 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-581
P.O. Box 98510
Las Vegas, NV 89193-8510

9. PRODUCT MARKING

All Basket Strainer's sold to Southwest will be marked with the following:

- 9.1 The direction of flow will be either cast or stamped into all basket strainers.
- 9.2 All basket strainers sold to Southwest will be marked with:
 - The manufacturer's name or trade mark
 - The manufacturer's part number
 - Material identification
 - ANSI Class rating

Southwest retains the right to require the basket strainers to be marked with Southwest's purchase order number.

10. PACKAGING AND PACKAGE MARKING

- 10.1 Basket strainers with threaded ends will be free of paint and be plugged with thread protectors. Flange ends and weld ends will have a suitable protector to prevent damage to contact surfaces and prevent contamination of the strainer.
- 10.2 All products covered in this specification will be packaged in a manner to prevent damage during transportation and storage.



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11. STOCK CLASSIFICATION DESCRIPTION

STRAINER, BASKET; ___ INCH; ANSI ____; FF TYPE TBMO.

STRAINER, BASKET; ___ INCH; RING TYPE ANSI ____; RF.

STRAINER, BASKET; _____ INCH; ANSI ____ FF TYPE PB-WOP.