



SOUTHWEST GAS CORPORATION

® ENGINEERING STAFF

MATERIAL SPECIFICATION

Section No:	MS B-17
Page No.:	1 of 7
Issue Date:	10/09/18
Superseded Date:	12/14/15

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

PIPE FITTINGS

Support Clamp for PE Pipe

1. SCOPE

This specification covers support clamps that provide external support for 1¹/₄", 2", 3" and 4" IPS polyethylene (PE), DuPont AA 2406 and DuPont HD 3406 pipe after it has been squeezed-off and reopened. A separate pressure test is not required when installing these fittings.

2. APPLICABLE DOCUMENTS

- 2.1 ASTM International (ASTM) A193, "Standard Specification for Alloy-Steel and Stainless-Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications."
- 2.2 ASTM International (ASTM) A194, "Standard Specification for Carbon Steel, Alloy Steel, and Stainless-Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both."
- 2.3 ASTM International (ASTM) A240, "Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications."
- 2.4 ASTM International (ASTM) D2513-09a, "Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings."
- 2.5 Southwest Gas Corporation Operations Manual, "Pipe Joining - PE Repair."
- 2.6 Title 49, Code of Federal Regulations, Part 192, "Transportation of Natural and Other Gas by Pipeline; Minimum Safety Standards" (49 CFR 192).

NOTE: Unless otherwise specified, the editions of the document incorporated in whole or in part by 49 CFR 192 are applicable. The above documents, and parts of documents (including annexes), not incorporated by 49 CFR 192 are incorporated by this Material Specification and will be the most recent edition. In the event that a conflict exists between the applicable documents and/or this Material Specification, the requirements of 49 CFR 192 shall govern, and in the event of all other conflicts, the more stringent requirement shall govern.



SOUTHWEST GAS CORPORATION

® ENGINEERING STAFF

MATERIAL SPECIFICATION

Section No:	MS B-17
Page No.:	2 of 7
Issue Date:	10/09/18
Superseded Date:	12/14/15

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

PIPE FITTINGS

Support Clamp for PE Pipe

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.
- 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 SWG to determine if the product is suitable for use by SWG, unless specifically stated otherwise.

4. MATERIALS AND MANUFACTURING

- 4.1 The support clamp must be full encirclement type as listed below.
- 4.2 The band shall be Type 304 or 304L, stainless steel material in accordance with ASTM A240.
- 4.3 The gasket shall be Nitrile (Buna-N).
- 4.4 The bolts, nuts, washers and other components for securing the clamp to the pipe shall be corrosion resistant or stainless steel.
- 4.5 The clamps shall be clean and internally free of paint, dirt, sand and other debris.
- 4.6 The clamps and parts shall be homogeneous throughout and free of cracks, holes foreign inclusions and other defects.

5. PERFORMANCE REQUIREMENTS

- 5.1 The clamps shall be designed for use in gas distribution systems in all class locations, at pressures up to 100 psig and at temperatures up to 150°F.
- 5.2 The clamps shall be easily installed to secure the band and gasket to the pipe size specified using the installation instructions provided by the manufacturer.



SOUTHWEST GAS CORPORATION

® ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS B-17
Page No.:	3 of 7
Issue Date:	10/09/18
Superseded Date:	12/14/15

PIPE FITTINGS

Support Clamp for PE Pipe

6. DIMENSIONS AND TOLERANCES

The dimensions of the clamps shall those specified in the Appendices.

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 rejection will be made promptly thereafter by SWG. The defective product will be replaced or returned for credit at the manufacturer's expense.
- 7.4 Any changes in manufacturing of previously approved materials, products or systems described in this material specification for sale to SWG must be approved by SWG 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. 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, 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 B-17
Page No.:	4 of 7
Issue Date:	10/09/18
Superseded Date:	12/14/15

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

PIPE FITTINGS

Support Clamp for PE Pipe

9. SAFETY DATA SHEETS

In accordance with law, the seller shall 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

Clamps shall have the following markings on the sleeve:

- Product name
- Manufacturer's name or trademark.
- Size
- Manufacture date
- Temperature and Pressure rating

11. PACKAGING AND PACKAGE MARKING

Seller will adequately prepare all clamps for shipment. Seller will furnish and install necessary covers to protect the fittings from sunlight, excessive heat, photochemical, smog, rain, hail, wind, dust, etc. Clamps will be adequately sealed and protected during shipment to prevent entrance of foreign matter and possible damage from rough handling during transit. Packaging will facilitate its safe handling and its reshipment between the stocking user locations. Pallet and package sizes will be determined and/or approved by Southwest Gas Corporate Purchasing Department.



SOUTHWEST GAS CORPORATION

® ENGINEERING STAFF

MATERIAL SPECIFICATION

Prepared By: Engineering Staff 

Approved By: Jerome T. Schmitz 

Section No:	MS B-17
Page No.:	5 of 7
Issue Date:	10/09/18
Superseded Date:	12/14/15

PIPE FITTINGS

Support Clamp for PE Pipe

12. STOCK CLASSIFICATION DESCRIPTION

CLAMP, REPAIR, ___ INCH X ___ INCH, ALL STAINLESS STEEL