

## Manufacturers of Plastic Piping Products - Pipe

The following is a list of manufacturers of plastic pipe for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC

NOTE: Operators are required to install materials that meet current requirements.

| Company          | Material Designation | From           | To      | Size Range        | Comments                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|----------------------|----------------|---------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Allied           | PE 3306/3406         | 1965/66        | 1972/73 | 1/2" CTS - 2" IPS | Was also a resin producer and supplied the AC ultra high molecular pipe compound to several small pipe extruders including Yardley, Orangeburg, Endot and the Barrett Division of Allied (also an extruder of PVC pipe). Except for Endot, most of these producers/extruders have since gone out of business or have different names today. Pipe was very difficult to fuse. |
| Amstan           | PE3306               | Mid-late 1960s |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| Barrett          | PE3306               | Mid-late 1960s |         |                   | Division of Allied                                                                                                                                                                                                                                                                                                                                                           |
| Black Plastic    |                      |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| Cabot            |                      |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| Celenese Pipe    |                      |                |         |                   | Tubing manufacturer ultimately owned by Solvay                                                                                                                                                                                                                                                                                                                               |
| Century Pipe     |                      |                |         |                   | Early 1970's (Tan)                                                                                                                                                                                                                                                                                                                                                           |
|                  | PE 2306              | 1970           | 1974    | 1/2" CTS - 4" IPS |                                                                                                                                                                                                                                                                                                                                                                              |
|                  | PE 3306              |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| Charter Plastics | PE 2406/3408         | 1980s          | present | 1/2" CTS-6" IPS   | Manufactured tubing and small pipe in MidAtlantic coast region.                                                                                                                                                                                                                                                                                                              |
| Circle K         |                      |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| Co-Ex Pipe       | PE 2406/3408         | 1980s          | present | 1/2" CTS-6" IPS   | Manufactured at West Texas location                                                                                                                                                                                                                                                                                                                                          |
| Continental      | PE2306               | Mid-late 1970s |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |
| CPChem Pipe      |                      |                |         |                   | Chevron Phillips Chemical Company, LP. See Performance Pipe division of Chevron Phillips Chemical Company, LP.                                                                                                                                                                                                                                                               |
| Crescent         | PE3306               | Mid-late 1960s |         |                   |                                                                                                                                                                                                                                                                                                                                                                              |

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|----------------|----------------------|-------|-------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSR Pipe       |                      |       |       |                    | Purchased Quail Pipe in 1994 and PolyPipe Inc in mid 1995; was also called Rinker for a few years. Variations of name include CSR Polypipe and Rinker Polypipe.                                                                      |
|                | PE 2406              |       |       | 1/2" CTS - 12" IPS | Yellow                                                                                                                                                                                                                               |
|                | PE 3408              |       |       | 1/2" CTS - 12" IPS | Black                                                                                                                                                                                                                                |
| Driscopipe     |                      |       |       |                    | Driscopipe is the brand name for Phillips Driscopipe, Inc. and its predecessor company Phillips Products Company. The brand name Driscopipe is still in use by Performance Pipe, a division of Chevron Phillips Chemical Company LP. |
|                | PE3306               | ~1968 | ~1972 | 1/2" CTS - 12" IPS | Driscopipe 5000 - Marlex TR212 resin manufactured by Phillips; pipe extruded by Drilling Specialities, Inc. subsidiary of Phillips Petroleum.                                                                                        |
|                | PE 2306/2406         | 1978  | 2000  | 1/2" CTS - 20" IPS | Driscopipe 6500 (Orange until 1986, then yellow)                                                                                                                                                                                     |
|                | PE 3306/3406         | 1973  | 1980  | 1/2" CTS - 12" IPS | Driscopipe 7000 (Solid black)                                                                                                                                                                                                        |
|                | PE 3408              | 1979  | 2000  | 1/4" CTS - 12" IPS | Driscopipe 8000 (Solid black)                                                                                                                                                                                                        |
|                | PE 3408              | 2000  | 2000  | 1/2" CTS - 16" IPS | Driscopipe 8100 (Yellow shelled black pipe)                                                                                                                                                                                          |
|                | PE 3408              | 1986  | 2000  | 1/2" CTS - 12" IPS | Driscopipe 6800 (Black with 3 yellow stripes)                                                                                                                                                                                        |
| DuPont Pipe    |                      |       |       |                    | Produced PE 2306/2406/3406 pipe and fittings 1964-1998, with the Aldyl name. Resin changes occurred in 1971, 1983 and 1988. Sold business to Uponor.                                                                                 |
|                | PE 2306              | 1965  | 1983  | 1/2" CTS - 4" IPS  | Aldyl A (Tan) - could turn gray. Resin change in 1971.                                                                                                                                                                               |
|                | PE 2406              | 1984  | 1991  | 1/2" CTS - 16" IPS | Aldyl A (SDRs 11 and higher - Tan), Aldyl AAAA (SDR 9 - Green). ASTM D1248 Revision allowing for higher SCG materials to be designated as PE 2406.                                                                                   |
|                | PE 3406              | 1976  | 1983  | 1/2" CTS - 8" IPS  | Aldyl HD (Black); in Canada was greenish-yellow                                                                                                                                                                                      |
|                |                      |       |       |                    |                                                                                                                                                                                                                                      |
| Dylan          |                      |       |       |                    |                                                                                                                                                                                                                                      |
| Eagle Plastics | PVC 2110/2513        | 1985  | 1995  | 1 1/4" - 2"        | Yellow                                                                                                                                                                                                                               |
|                | PE 2306/2406         | 1985  | 1987  | 1 1/4" - 2"        | Trade name Pure Core (Black outside, clear inner wall)                                                                                                                                                                               |
|                | PE 3306              | 1985  | 1987  | 1/2" CTS - 4" IPS  | Trade name Poly Flow (Black)                                                                                                                                                                                                         |
|                | PE 2306/2406         | 1987  | 1995  | 1/2" CTS - 4" IPS  | Trade name Eagle Gas Pipe (Orange)                                                                                                                                                                                                   |
|                | PE 2306/2406         | 1987  | 1996  | 1/2" CTS - 4" IPS  | Trade name Eagle Gas Pipe Yellow)                                                                                                                                                                                                    |
|                | PE 3408              | 1987  | 1996  | 1/2" CTS - 4" IPS  | Trade Mark Eagle Tri-Stripe (Black three stripes). Purchased by Pacific.                                                                                                                                                             |
| Eagle Pacific  | PE 2406              | 1996  | 2000  | 1/2" CTS - 4" IPS  | Trade name Eagle Gas Pipe (Yellow)                                                                                                                                                                                                   |

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| Company                   | Material Designation | From | To      | Size Range            | Comments                                                                                                                                           |
|---------------------------|----------------------|------|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | PE 3408              | 1996 | 2000    | 1/2" CTS - 4" IPS     | Trade Mark Eagle Tough Tri-Stripe (black three stripes). Purchased by US Poly Company.                                                             |
| Endot Pipe                |                      |      |         |                       | Tubing and pipe manufacturer in NJ, TN and OK                                                                                                      |
|                           | PE2406               | 1997 | 2007    | 1/2" CTS - 2" IPS     | Yellow (Purchased Orangeburg Assets only 1998)                                                                                                     |
|                           | PE2406/2708          | 2007 | present | 1/2" CTS - 6" IPS     | Yellow                                                                                                                                             |
|                           | PE3408               | 2004 | 2007    | 1/2" CTS - 4" IPS     | Black w yellow stripes                                                                                                                             |
|                           | PE3408/PE4710        | 2007 | present | 1/2" CTS - 12" IPS    | Black w yellow stripes                                                                                                                             |
| Extron Pipe               |                      |      |         |                       | Sold in 1970 to PLEXCO. Operated as Extron until 1972 when name became PLEXCO. Not related to Extron Engineering that produces Plastics machinery. |
|                           | PE 2306              | 1970 | 1972    | 1/2" CTS - 4" IPS     | Yellow                                                                                                                                             |
|                           | PE 3306              | 1967 | 1969    | 3/8" CTS - 1 1/4" CTS | Black                                                                                                                                              |
| Extrumex Pipe             |                      |      |         |                       | Located in Mexico                                                                                                                                  |
| Flying "W" Plastics       | PE2406               | 1984 | Present | 1/2" CTS - 1" CTS     | Marked as Titan II pipe                                                                                                                            |
|                           |                      |      |         | 1/2" IPS - 6" IPS     | Marked as Titan II pipe                                                                                                                            |
|                           | PE3408               | 1984 | Present | 1" - 6" IPS           | Marked as Spartan pipe                                                                                                                             |
| Goodall Pipe              |                      |      |         |                       | Primarily water pipe, but offered gas pipe and tubing in early 1970s                                                                               |
| Jet Stream                |                      |      |         |                       |                                                                                                                                                    |
| J-M Manufacturing Co. Inc |                      |      |         |                       | J-M Purchased Quail Pipe in 2002                                                                                                                   |
|                           | PE 2406              | 2002 |         | 1/2" CTS-12"IPS       | Yellow                                                                                                                                             |
|                           | PE 3408              | 2002 |         | 1/2" CTS-12"IPS       | Black                                                                                                                                              |
| Jordan                    |                      |      |         |                       |                                                                                                                                                    |
| Kerona                    |                      |      |         |                       |                                                                                                                                                    |
| Korna Pipe                |                      |      |         |                       | Produced tubing in early 1970s. Primarily in AZ and CA.                                                                                            |
| Kraloy                    | PVC 2110             |      |         |                       |                                                                                                                                                    |

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|-------------------------|----------------------|--------|-----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Krylastic               | ABS                  |        |           |                    |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| KWH Pipe                |                      |        |           |                    | Merged with the infrastructure pipe production assets of Uponor Corp in 2013. The North American operating company was renamed Uponor Infra Ltd.                                                                                                                                                                                                                                                                   |
|                         | PE 2406/2708         | 1988   | 2013      | 3/4" CTS - 12" IPS | WehoGas                                                                                                                                                                                                                                                                                                                                                                                                            |
|                         | PE 3408/PE4710       | 1988   | 2013      | 3/4" CTS -12" IPS  | WehoGas                                                                                                                                                                                                                                                                                                                                                                                                            |
| Marlex                  | PE3306               | 1960's | 1970's    |                    | Marlex is a trademark name for a range of PE pipe resins. In gas distribution pipes, the name 'Marlex' is commonly used to refer to Marlex TR-212 resin which was produced into pipes by a range of pipe manufacturers in the late 1960's and early 1970's. See Yardley, Orangeburg, Phillips Products Company and other manufacturers. The resin was used primarily but not exclusively, in the Northeast region. |
| Mueller Pipe            |                      |        |           |                    | Produced pipe for a short time. Primarily produced metal valves and compression fittings.                                                                                                                                                                                                                                                                                                                          |
| NIPAK Pipe              |                      |        |           |                    | Subsidiary to Lone Star from 1970 to 1980. Sold in 1980 to Arco Chemical. In 1982, became a stand alone company. Went bankrupt 1985.                                                                                                                                                                                                                                                                               |
|                         | PE 2306/2406         | 1970   | 1985      | 1/2" CTS - 12" IPS | Orange                                                                                                                                                                                                                                                                                                                                                                                                             |
|                         | PE 3306              | 1970   | 1970      | 3/4" IPS - 4" IPS  | Orange. Called Poly 1. Only sold to Lone Star Gas.                                                                                                                                                                                                                                                                                                                                                                 |
| Oil Creek Plastics Pipe |                      |        |           |                    | Tubing and small pipe manufactured in MidAtlantic coast region                                                                                                                                                                                                                                                                                                                                                     |
| Orangeburg Pipe         |                      |        |           |                    | Produced PE3306/3406 tubing and pipe up to 2" in mid 1960's and early 1970s.                                                                                                                                                                                                                                                                                                                                       |
| Perfex Pipe             | PE 2306              | 1960s  | mid 1970s |                    | Primarily a tubing manufacturer late 1960s to mid-1970s in WI/MI area. (Orange)                                                                                                                                                                                                                                                                                                                                    |
|                         | PE 3306              |        |           |                    |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                         | PVC2110              |        |           |                    |                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| Performance Pipe |                      |      |         |                    | Chevron Phillips Chemical Company, Inc. (CP CHEM) Formed in 7/2000 as a merger of Phillips Chemicals Company's Phillips Driscopipe, Inc. and Chevron Chemical Company's Plexco Pipe.                          |
|                  | PE 2406/2708         | 2000 | present | 1/2" CTS - 12" IPS | Driscoplex 6500 (Yellow) replaced Driscopipe 6500 and Plexco Yellowpipe. Met PE2708 requirements in 2006.                                                                                                     |
|                  | PE 3408/4710         | 2000 | present | 1/4" CTS - 16" IPS | Driscopipe 8100 (Yellow coated black pipe). Met PE100 requirements. Also met PE4710 requirements in 2006.                                                                                                     |
|                  | PE 3408/4710         | 2001 | present | 1/2" CTS - 24" IPS | Yellowstripe 8300 (Black with 4 yellow stripes) replaced Driscopipe 6800 and Plexco Yellowstripe. Met PE3710 requirements in 2006. Met PE100 requirements and PE4710 requirements in approximately 2011.      |
|                  | PE 3408/3710         | 2000 | 2006    | 1/2" CTS - 24" IPS | Driscoplex 6800 (Black with 3 yellow stripes). Met PE3608 requirements in 2006.                                                                                                                               |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| Plastex Pipe     |                      |      |         |                    | Producer of tubing and small pipe                                                                                                                                                                             |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| PLEXCO Pipe      |                      |      |         |                    | Purchased Extron Pipe in 1970. Produced PE 2306/2406/3406/3408 pipe and fittings. In 2000, Plexco formed partnership with Driscopipe to form CPChem with Performance Pipe division. Also see Performance Pipe |
|                  | PE 2306/2406         | 1972 | 2000    | 1/2" CTS - 16" IPS | Plexco pipe/Yellowpipe (Orange until 1985, then yellow)                                                                                                                                                       |
|                  | PE 3406/3408         | 1981 | 2000    | 1/2" CTS - 24" IPS | Yellowstripe (Black pipe with 4 yellow stripes)                                                                                                                                                               |
|                  | PE 3408              | 1986 | 2000    | 1/2" CTS - 24" IPS | Yellowstripe II (Black pipe with 3 pairs of yellow stripes)                                                                                                                                                   |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| PolyArk          | PE2306/2406          |      |         |                    |                                                                                                                                                                                                               |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| PolyPipe, Inc.   |                      |      |         |                    | Produced PE 2406/3408 pipe mid 1970s until sold to CSR in mid 1995. Spun off as independent company in 2005.                                                                                                  |
|                  | PE 2406/2708         |      |         | 1/2" CTS - 12" IPS | GDY20                                                                                                                                                                                                         |
|                  | PE 3408/3608         |      |         | 1/2" CTS - 12" IPS | GDB30                                                                                                                                                                                                         |
|                  | PE 3408/4710         |      |         | 1/2" CTS - 12" IPS | GDB50                                                                                                                                                                                                         |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| Polystar Pipe    |                      |      |         |                    |                                                                                                                                                                                                               |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |
| PW Poly          |                      |      |         |                    |                                                                                                                                                                                                               |
|                  |                      |      |         |                    |                                                                                                                                                                                                               |

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| PW Eagle          |                      |                |         |                    | Purchased USPoly Company in 2006. Pipe also sold under USPoly brand.                                                               |
|                   |                      | 2005           | 2007    | 1/2" CTS - 6" IPS  | PW Eagle Gas Pipe (yellow)                                                                                                         |
|                   |                      | 2005           | 2007    | 1/2" CTS - 6" IPS  | PW Eagle - Eagle Tough Tri-Stripe(Black Three stripes) Purchased by JW Manufacturing                                               |
| PW Poly           | PE2406               | 2000           | 2005    | 1/2" CTS - 6" IPS  | US Poly-Eagle Gas Pipe (yellow)                                                                                                    |
|                   | PE3408               | 2000           | 2005    | 1/2" CTS - 6" IPS  | US Poly-Eagle Tough Tri-Stripe (black three stripes). Name Change                                                                  |
|                   |                      |                |         |                    |                                                                                                                                    |
| Quail Pipe        |                      |                |         |                    | Purchased by CSR in 1994. Purchased by JM Manufacturing in 2003.                                                                   |
|                   | PE 2306/2406/3408    |                |         |                    |                                                                                                                                    |
|                   |                      |                |         |                    |                                                                                                                                    |
| Richco-Trenka     | PE3306               | mid-late 1960s |         |                    |                                                                                                                                    |
|                   |                      |                |         |                    |                                                                                                                                    |
| Stauffer          |                      |                |         |                    |                                                                                                                                    |
|                   |                      |                |         |                    |                                                                                                                                    |
| Stokes            | PE3306               | mid-late 1960s |         |                    |                                                                                                                                    |
|                   |                      |                |         |                    |                                                                                                                                    |
| Witco Chemical    | PB                   |                |         |                    |                                                                                                                                    |
| Uponor Infra Ltd. |                      |                |         |                    | Company formed in 2013 through the merger of Uponor Corp and KWH Group infrastructure pipe production assets.                      |
|                   | PE 2406/2708         | 2013           | present | 3/4" CTS - 12" IPS | WehoGas                                                                                                                            |
|                   | PE 3408/PE4710       | 2013           | present | 3/4" CTS -12" IPS  | WehoGas                                                                                                                            |
| Uponor Pipe       |                      |                |         |                    | Purchased DuPont and Wayne manufacturing. Produced pipe under the Aldyl and UAC names. Sold business in September 2004 to US Poly. |
|                   | PE 2406              | 1992           | 2004    | 1/2" CTS - 16" IPS | UAC 2000 (Yellow)                                                                                                                  |
|                   | PE 2406              | 1991           | 1999    | 1/2" CTS - 16" IPS | Aldyl A (Tan)                                                                                                                      |
|                   | PE 3408              | 2002           | 2004    | 1/2" CTS - 8" IPS  | UltraStripe (Black with yellow stripes); there are 3 versions made from 3 different resins: UAC 3500, UAC 3600, and UAC 3700.      |
|                   | PE 3408              | 2000           | 2004    | 1/2" CTS - 4" IPS  | UAC 3200 (Black)                                                                                                                   |
|                   |                      |                |         |                    |                                                                                                                                    |

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|---------------|----------------------|----------------|---------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| US Poly       |                      |                |         |                    | Purchased Uponor in 2004. The (former Uponor) geotherm product has been renamed to GeoFlo from Duratherm. Purchased by PW Eagle in 2005              |
|               | PE 2406              | 2004           | Present | 1/2" CTS - 16" IPS | UAC 2000 (Yellow)                                                                                                                                    |
|               | PE 3408              | 2002           | Present | 1/2" CTS - 8" IPS  | UltraStripe (Black with yellow stripes); there are 3 versions made from 3 different resins: UAC 3500, UAC 3600, and UAC 3700.                        |
|               | PE 3408              | 2000           | Present | 1/2" CTS - 4" IPS  | UAC 3200 (Black) Oil and Gas Gathering Pipe                                                                                                          |
|               |                      |                |         |                    |                                                                                                                                                      |
| Vanguard Pipe |                      |                |         |                    | Tubing and small pipe                                                                                                                                |
|               |                      |                |         |                    |                                                                                                                                                      |
| Western       | PE3306               | mid-late 1960s |         |                    |                                                                                                                                                      |
|               |                      |                |         |                    |                                                                                                                                                      |
| W.L. Plastics | PE4710               | 2013           | Present | 3/4" CTS - 24" IPS | All Gas Distribution is Yellow Stripe. MDPE pipe not available                                                                                       |
|               |                      |                |         |                    |                                                                                                                                                      |
| Yardley Pipe  |                      |                |         |                    | A unit of Celanese Chemical Co, primarily produced water tubing & some gas tubing from PE3306 resin in the late 1960s through mid 1970s. See Allied. |

**Notes:** CTS: Copper Tubing Size

IPS: Iron Pipe Size

Unknown manufacturers

CAB

Tenite

## Manufacturers of Plastic Piping Products - Line Fittings

The following is a list of manufacturers of plastic line fittings (tees, ells, reducers, end caps) for gas distribution operations.

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| CP Chemical            |                      |      |         |                   | Another name for Performance Pipe                                                                                                                                                                                                    |
| Continental Industries |                      |      |         |                   |                                                                                                                                                                                                                                      |
|                        | PE 2406              | 1995 | Present | 1/2" CTS - 2" IPS | Stab-type couplings - Solid Yellow                                                                                                                                                                                                   |
|                        | PE 2406/2708         | 1995 | Present | 1/2" - 2"         | Stab-type couplings - Yellow                                                                                                                                                                                                         |
|                        | PE 3408/4710         | 1995 | Present | 1/2" CTS - 2" IPS | Stab-type couplings - Solid Black                                                                                                                                                                                                    |
|                        | PA 11 Nylon          | 1995 | Present | 1/2" CTS - 2" IPS | Compression Fittings - Black                                                                                                                                                                                                         |
|                        | PA 11 Nylon          | 1995 | 2008    | 1/2" - 2"         | Nut Follower Compression - Black                                                                                                                                                                                                     |
|                        | PA 11 Nylon          | 1995 | 2010    | 1 1/4" - 8"       | Bolt On Mechanical Saddle - Black                                                                                                                                                                                                    |
|                        | PA 12                | 2007 | Present | 1/2" - 2"         | Nut Follower Compression - Black                                                                                                                                                                                                     |
|                        | PA 12                | 2008 | Present | 1" - 8"           | Bolt On Mechanical Saddle - Black                                                                                                                                                                                                    |
|                        | PVC                  | 1967 | Present | 1/4" CTS - 2" IPS | Compression Fittings - Grey and White                                                                                                                                                                                                |
|                        | PVC                  | 1967 | 1975    | 1/2" - 2"         | Nut Follower Compression - Grey                                                                                                                                                                                                      |
|                        | PVC                  | 1975 | 2008    | 1/2" - 2"         | Nut Follower Compression - White                                                                                                                                                                                                     |
|                        | PVC                  | 1967 | 1975    | 1" - 6"           | Bolt On Mechanical Saddle - Grey                                                                                                                                                                                                     |
|                        | PVC                  | 1975 | 2004    | 1" - 6"           | Bolt On Mechanical Saddle - White                                                                                                                                                                                                    |
|                        | PVC                  | 1967 | 2004    | 1" - 6"           | Bolt On Mechanical Saddle - Grey and White                                                                                                                                                                                           |
|                        | PBT                  | 1988 | 1995    | 1/2" CTS - 2" IPS | Compression Fittings - Black                                                                                                                                                                                                         |
|                        | PBT                  | 1988 | 1995    | 1/2" - 2"         | Nut Follower Compression - Black                                                                                                                                                                                                     |
|                        | PBT                  | 1988 | 1995    | 1 1/4" - 6"       | Bolt On Mechanical Saddle - Black                                                                                                                                                                                                    |
| Driscopipe             |                      |      |         |                   | Driscopipe is the brand name for Phillips Driscopipe, Inc. and its predecessor company Phillips Products Company. The brand name Driscopipe is still in use by Performance Pipe, a division of Chevron Phillips Chemical Company LP. |
|                        | PE 2306/2406         | 1978 | 2000    | 1/2" CTS - 8" IPS | Driscopipe 6500 (Orange until 1986, then yellow)                                                                                                                                                                                     |
|                        | PE 3306/3406         | 1973 | 1980    | 1/2" CTS - 8" IPS | Driscopipe 7000 (Solid black)                                                                                                                                                                                                        |
|                        | PE 3408              | 1979 | 2000    | 1/4" CTS - 8" IPS | Driscopipe 8000 (Solid black)                                                                                                                                                                                                        |
|                        | PE 3408              | 1997 | 2000    | 1/2" CTS - 8" IPS | Driscopipe 8100 (Solid black)                                                                                                                                                                                                        |
|                        | PE 3408              | 1986 | 2000    | 1/2" CTS -82" IPS | Driscopipe 6800 (solid black)                                                                                                                                                                                                        |



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| DuPont                         |                      |      |         |                    | Produced PE 2306/2406/3406 pipe/fittings 1964-1998 with the Aldyl name. Sold business to Uponor.                                                                                                                                      |
|                                | PE 2306              | 1965 | 1973    | 1" IPS - 4" IPS    | Tan                                                                                                                                                                                                                                   |
|                                | PE 2406              | 1974 | 1986    | 1" IPS - 12" IPS   | SDR's 11 and higher - Tan, SDR 9 - Green.                                                                                                                                                                                             |
|                                | PE 3406              | 1976 | 1978    | 1" IPS - 3" IPS    | Solid Black                                                                                                                                                                                                                           |
|                                |                      |      |         |                    |                                                                                                                                                                                                                                       |
| Georg Fischer Central Plastics |                      |      |         |                    | Produced molded fittings independently under Central brand and for pipe producers. Privately held as Central Plastics Company from 1955 until 2008 when acquired by Georg Fischer Piping Systems. Now Georg Fischer Central Plastics. |
|                                | PE2306/PE 2406       | 1979 | Present | 1/2 CTS - 12" IPS  | Solid Yellow (Orange until 1986)                                                                                                                                                                                                      |
|                                | PE 3408/PE4710       | 1979 | Present | 1/2 CTS - 12" IPS  | Solid Black                                                                                                                                                                                                                           |
|                                |                      |      |         |                    |                                                                                                                                                                                                                                       |
| NIPAK                          |                      |      |         |                    | Subsidiary to Lone Star from 1970 to 1980. Sold in 1980 to Arco Chemical. In 1982, became a stand alone company. Went bankrupt 1985.                                                                                                  |
|                                | PE 2306/2406         | 1970 | 1985    | 1" IPS - 12" IPS   | Solid Orange                                                                                                                                                                                                                          |
|                                | PE 3306              | 1970 | 1970    | 1" IPS - 4" IPS    | Solid Orange                                                                                                                                                                                                                          |
|                                |                      |      |         |                    |                                                                                                                                                                                                                                       |
| Performance Pipe               |                      |      |         |                    | Chevron Phillips Chemical Company, Inc. (CP CHEM) Formed in 7/2000 as a merger of Phillips Chemicals Company's Phillips Driscopipe, Inc. and Chevron Chemical Company's Plexco Pipe.                                                  |
|                                | PE 2406/2708         | 2000 | present | 1/2" CTS - 8" IPS  | Driscoplex 6500 (Yellow) replaced Driscopipe 6500 and Plexco Yellowpipe. Met requirements for PE2708 in 2006.                                                                                                                         |
|                                | PE 3408/4710         | 2000 | present | 1/2" CTS - 8" IPS  | Driscopipe 8100 (Black). Also met requirements for PE 100 from 2000 to present. Met requirements for PE4710 in 2006.                                                                                                                  |
|                                | PE 3408/4710         | 2000 | ~2011   | 1/2" CTS - 8" IPS  | Yellowstripe 8300 (Black) replaced Plexco Yellowstripe and eventually Driscoplex 6800. In 2006, met PE3710 requirements. In approximately 2011, met PE100 requirements and also met PE4710.                                           |
|                                | PE 3408/3710         | 2000 | 2006    | 1/2" CTS - 24" IPS | Driscoplex 6800 (Black). In 2006, met PE3608 requirements.                                                                                                                                                                            |
| PLEXCO                         |                      |      |         |                    | Purchased Extron 1970. In 2000, Plexco merged with Drisco to form Performance Pipe                                                                                                                                                    |
|                                | PE 2306/2406         | 1972 | 2000    | 1/2" CTS - 8" IPS  | Solid Orange until 1985, then Solid Yellow.                                                                                                                                                                                           |
|                                | PE 3406/3408         | 1981 | 2000    | 1/2" CTS - 8" IPS  | Solid Black                                                                                                                                                                                                                           |
|                                | PE 3408              | 1986 | 2000    | 1/2" CTS - 8" IPS  | Solid Black                                                                                                                                                                                                                           |
|                                |                      |      |         |                    |                                                                                                                                                                                                                                       |

## Manufacturers of Plastic Piping Products - Line Fittings

The following is a list of manufacturers of plastic line fittings (tees, ells, reducers, end caps) for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC

NOTE: Operators are required to install materials that meet current requirements

| Company  | Material Designation | From | To   | Size Range       | Comments                                                                                                                |
|----------|----------------------|------|------|------------------|-------------------------------------------------------------------------------------------------------------------------|
| Polypipe |                      |      |      |                  | Produced PE 2406/3408 pipe mid 1970's until sold to CSR in mid 1995. Spun off as independent company in 2005            |
|          | PE 2406              | ??   | ??   | 1" IPS - 12" IPS | Solid Yellow                                                                                                            |
|          | PE 3408              | ??   | ??   | 1" IPS - 12" IPS | Solid Black                                                                                                             |
|          |                      |      |      |                  |                                                                                                                         |
| Uponor   |                      |      |      |                  | Purchased DuPont and Wayne manufacturing. Produced pipe under the Aldyl and UAC names. Sold business in 2004 to US Poly |
|          | PE 2406              | 1986 | 2004 | 1" IPS - 12" IPS | Solid Yellow                                                                                                            |
|          | PE 2406              | 1986 | ??   | 1" IPS - 12" IPS | Solid Yellow                                                                                                            |
|          | PE 3408              | ??   | 2004 | 1" IPS - 4" IPS  | Solid Black                                                                                                             |

## Manufacturers of Plastic Piping Products - Other fittings

The following is a list of manufacturers of branch, transition, and other plastic fittings for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC. Contact AGA if errors

NOTE: Operators are  
required to install  
materials that meet current  
requirements

| Company                  | Material Designation | From | To      | Size Range                   | Comments                                                                                                                                       |
|--------------------------|----------------------|------|---------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| AMP                      | Dupont Zytel ST-801  |      |         |                              | 1970's, stainless steel and nylon compression fitting. Technology purchased by Metcal in 1990; can be white in appearance. Dupont Zytel ST-801 |
|                          | Nylon                | ??   | ??      | 1/2" CTS - 2" IPS            | Black with Stainless Steel compression ring. Nylon 66                                                                                          |
|                          |                      |      |         |                              |                                                                                                                                                |
| Continental Industries   |                      |      |         |                              |                                                                                                                                                |
|                          | PE 2406              | 1998 | Present | 1/2" CTS - 1-1/4" CTS        | Brass Based Tee - Solid Yellow (some with stab outlet)                                                                                         |
|                          | PE 3408/4710         | 2007 | Present | 1/2" CTS - 1-1/4" CTS        | Brass Based Tee - Solid Black (some with stab outlet)                                                                                          |
|                          |                      |      |         |                              |                                                                                                                                                |
| CP Chemical              |                      |      |         |                              | Another name for Performance Pipe                                                                                                              |
|                          |                      |      |         |                              |                                                                                                                                                |
| CSI/Smith Blair/Rockwell |                      |      |         |                              | Mechanical fittings/fiber glass                                                                                                                |
|                          |                      | 1965 | Present | 1/2"-16"                     | 450 Type Special Bolted Coupling For Gas; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                    |
|                          |                      | 1965 | Present | 1/2"-16"                     | 451 Type Bolted Coupling For Gas; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                            |
|                          |                      | 1965 | Present | 1/2"-16"                     | 453 Type Transition Coupling For Gas; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                        |
|                          |                      | 1965 | Present | 1/2"-16"                     | 455 Type Reducing Coupling; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                                  |
|                          |                      | 1970 | 1989    | 3/4", 1", 1 1/4", 1 1/2", 2" | 551 Type Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                                                |
|                          |                      | 1970 | 1989    | 3/4", 1", 1 1/4", 1 1/2", 2" | 552 Type Long Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                                           |
|                          |                      | 1970 | 1989    | 1/2"-2"                      | 555 Type Reducing Conducting Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                            |
|                          |                      | 1970 | 1989    | 1/2", 1"                     | 569 Type Weld-On Adapter; S-B 1970-1973 Rockwell 1973-1989                                                                                     |
|                          |                      | 1970 | 1989    | 3/4", 1", 1 1/4", 1 1/2", 2" | 571 Type Insulating Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                                     |
|                          |                      | 1970 | 1989    | 3/4", 1", 1 1/4", 1 1/2", 2" | 572 Type Long Insulating Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                                |
|                          |                      | 1970 | 1989    | 1/2"-2"                      | 575 Type Reducing Insulating Compression Coupling; S-B 1970-1973 Rockwell 1973-1989                                                            |

## Manufacturers of Plastic Piping Products - Other fittings

The following is a list of manufacturers of branch, transition, and other plastic fittings for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC. Contact AGA if errors

NOTE: Operators are required to install materials that meet current requirements

| Company                                | Material Designation | From | To      | Size Range               | Comments                                                                                                                          |
|----------------------------------------|----------------------|------|---------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                        |                      | 1970 | 1989    | 1/2"-2"                  | 579 Type Insulating Weld-On Adapter; S-B 1970-1973 Rockwell 1973-1989                                                             |
|                                        |                      | 1973 | 1979    | 1/2", 3/4", 1", 1 1/4"   | 811 Type Straight Compression Coupling w/1 piece stiffener                                                                        |
|                                        |                      | 1973 | 1979    | 1/2", 3/4", 1", 1 1/4"   | 812 Type Straight Compression Coupling w/2 piece stiffener                                                                        |
|                                        |                      | 1973 | 1979    | 1/2", 3/4", 1", 1 1/4"   | 813 Type Reducing Compression Coupling                                                                                            |
|                                        |                      | 1973 | 1979    | 1/2", 3/4", 1", 1 1/4"   | 814 Type Transition Coupling                                                                                                      |
|                                        |                      | 1973 | 1979    | 1/2", 3/4", 1", 1 1/4"   | 815 Type Service Head Adapter                                                                                                     |
|                                        |                      | 1973 | 1979    | 1 1/4"                   | 816 Type Stab End Adapter                                                                                                         |
|                                        |                      | 1973 | 1979    | 3/4", 1"                 | 817 Type Compression Coupling 90 degree elbow                                                                                     |
|                                        |                      | 1965 | Present | 2"-16"                   | 950 Type Special FCA; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                           |
|                                        |                      | 1965 | Present | 2"-16"                   | 953 Type FCA; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                                   |
|                                        |                      | 1965 | Present | 2"-16"                   | 954Type FCA Reducing; S-B 1965-1973 Rockwell 1973-1989 S-B 1989-Present                                                           |
|                                        |                      | 1970 | 1984    | 1 1/4"-6"                | E Type MaxiGrip Coupling                                                                                                          |
|                                        |                      | 1980 | Present | 1-1/4"-12" IPS & 3"-8" C | U Type MaxiGrip Coupling; CSI 1980-1997 S-B 1997-Present                                                                          |
|                                        |                      | 1987 | Present | 1-1/4"-12" IPS & 2"-8" C | EZ Type MaxiGrip Coupling; CSI 1987-1997 S-B 1997-Present                                                                         |
|                                        |                      |      |         |                          |                                                                                                                                   |
| Deayoun Co.                            |                      |      |         |                          | Partnered with and sold through MT Deason as MTD Tri Fusion (EF) products. Products are manufactured in South Korea and in China. |
|                                        | PE 2406              | 2004 | Present | 1/2" CTS - 12" IPS       | Electrofusion Fittings (couplings, reducing couplings, tees) in yellow.                                                           |
|                                        | PE 3408              | 2004 | Present | 1/2" CTS - 12" IPS       | Electrofusion Fittings (couplings, reducing couplings, tees) in black.                                                            |
|                                        |                      |      |         |                          |                                                                                                                                   |
| Dresser Manufacturing                  |                      |      |         |                          | Produced Compression Couplings from 50's to date. Rilsan and later Zytel                                                          |
| (Note: Dresser acquired by GE in 2011) | ??                   | ??   | ??      | 1/2" CTS - 1-1/4" CTS    | Style 400 (Solid Black) compression couplings - Rilsan?                                                                           |
|                                        | Rilsan               |      |         |                          | Bolt on saddle                                                                                                                    |
|                                        |                      |      |         |                          |                                                                                                                                   |
| Dresser Piping Specialties             |                      | 1966 | Present | 1/2" IPS -12" IPS        | Metallic Compression Couplings to date for PE piping                                                                              |
|                                        |                      | 1987 | Present | 1/2" CTS - 1 -1/4" CTS   | Style 501 Metallic Compression Fittings for PE tubing                                                                             |
|                                        | Nylon                | 1987 | Present | 1/2" CTS - 1-1/4" CTS    | Style 401 Compression Couplings -- Rilsan                                                                                         |
|                                        | Nylon                | 1987 | Present | 1/2" CTS - 1-1/4" CTS    | Style 408 Service Saddle Tees 2" to 6" Mains                                                                                      |

## Manufacturers of Plastic Piping Products - Other fittings

The following is a list of manufacturers of branch, transition, and other plastic fittings for gas distribution operations.

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| Company                        | Material Designation | From | To      | Size Range         | Comments                                                                                                              |
|--------------------------------|----------------------|------|---------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Driscopipe                     |                      |      |         |                    | Merged with Plexco in 2000 to form Performance Pipe. Produced fittings 1972 -2000                                     |
|                                | PE2406               |      |         | 1" IPS - 2" IPS    | Solid orange w/black cap through 1986, then yellow with black cap - sidewall fused service tees and high volume tees. |
|                                | PE3408               |      |         | 1" IPS - 2" IPS    | Solid Black - sidewall fused service tees and high volume tees.                                                       |
|                                | PE2406               |      |         | 1/2"CTS - 8" IPS   | Outlet size of sidewall fusion branch saddles. Solid Orange through 1986 then yellow.                                 |
|                                | PE3408               |      |         | 1/2"CTS - 8" IPS   | Outlet size of sidewall fusion branch saddles. Solid Black                                                            |
| DuPont                         |                      |      |         |                    | Produced PE 2306/2406/3406 pipe/fittings 1964-1998 with the Aldyl name. Sold business to Uponor.                      |
|                                | PE 2306              | 1965 | 1973    | 1" IPS - 2" IPS    | Tan Color - Heat fused service tee and high volume tee.                                                               |
|                                | PE 2406              | 1974 | 1986    | 1" IPS - 2" IPS    | SDR's 11 and higher - Tan, SDR 9 - Green. Heat fused service tee and high volume tee.                                 |
|                                | PE 3406              | 1976 | 1978    | 1" IPS - 2" IPS    | Solid Black - heat fused service tee and high volume tee.                                                             |
| Fusamatic                      |                      |      |         |                    | Brand name for imported Central Plastics fittings                                                                     |
|                                | PE 2406              | ??   | ??      | 1" IPS - 2" IPS    | Solid Yellow electrofusion service tee and high volume tee.                                                           |
| Frialen                        |                      |      |         |                    | Brand name for Friatec electrofusion fittings                                                                         |
| Georg Fischer Central Plastics |                      |      |         |                    | Electrofusion and heat fusion fittings, transition fittings, meter risers,steel compression fittings,.                |
|                                | PE 2406              | 1984 | Present | 1/2" CTS - 12" IPS | Electrofusion Fittings (couplings, reducing couplings, tees).                                                         |
|                                | PE 2406              | 1965 | Present | 1/2 CTS - 24" IPS  | Transition fittings - Solid Yellow w/coated steel pup piece. PE2306 until 1980's                                      |
|                                | PE 3408              | 1965 | Present | 1/2 CTS - 24" IPS  | Transition fittings - Black w/yellow stripes w/coated steel pup piece. PE3306 until 1980's                            |
|                                | PE 2406              | 1967 | Present | 1/2" CTS - 4 IPS   | Meter Risers - Solid Yellow tubing in coated steel bend. PE2306 until 1980's                                          |
|                                | PE 3408              | 1967 | Present | 1/2" CTS - 4 IPS   | Meter Risers - Black w/yellow stripes in coated steel bend. PE3306 until 1980's                                       |
|                                | PE 2406              | 1984 | Present | 1/2 CTS - 6" IPS   | Outlet size of electrofusion and sidewall fusion branch saddles. Solid Yellow                                         |
|                                | PE 3408              | 1984 | Present | 1/2 CTS - 8" IPS   | Outlet size of electrofusion and sidewall fusion branch saddles. Solid Black                                          |
|                                |                      | 1969 | Present | 1/2 CTS - 2 IPS    | Steel body construction PE to PE compression fittings                                                                 |

## Manufacturers of Plastic Piping Products - Other fittings

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NOTE: Operators are required to install materials that meet current requirements

| Company              | Material Designation | From | To      | Size Range            | Comments                                                                                                                                              |
|----------------------|----------------------|------|---------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                      |      |         |                       |                                                                                                                                                       |
| Honeywell Perfection |                      |      |         |                       | Elster Perfection was acquired by Honeywell on Dec. 31, 2015<br>Mechanical, electrofusion and heat fusion fittings, transition fitting, meter risers. |
|                      | PE 2406              | 1976 | Present | 1/2" CTS - 2" IPS     | Solid orange until early 90's, then solid yellow stab coupling.                                                                                       |
|                      | PE 3408              | 1981 | Present | 1/2" CTS - 2" IPS     | Solid black stab coupling                                                                                                                             |
|                      | PE 2406              | 1988 | Present | 1/2" - 1-1/4" CTS     | Yellow w/black cap and base - bolt on service tee.                                                                                                    |
|                      | PE 3408              | 1997 | Present | 2" IPS - 6" IPS       | Solid black bolted compression coupling w/stainless steel bolts.                                                                                      |
|                      | PE 2306/2406         | 1972 | Present | 1/2" CTS - 2" IPS     | Meter Risers - Solid Yellow in a coated flex or bent steel riser casing.                                                                              |
|                      | PE 3408              | 1981 | Present | 1/2" CTS - 2" IPS     | Meter Risers - Black w/yellow stripes in a coated flex or bent steel riser casing.                                                                    |
|                      |                      |      |         |                       |                                                                                                                                                       |
| IPEX/Friatec         | PE 2406              | ??   | Present | 2"ips - 8"ips Black   | Electrofusion fittings (tapping tee's)                                                                                                                |
|                      | PE 3408              | ??   | Present | 1/2" CTS - 20" IPS    | Electrofusion Fittings (couplings, reducing couplings, tees, ells).                                                                                   |
|                      | PE 3408              | ??   | Present | 2"ips -4"ips          | Outlet size electrofusion branch saddles                                                                                                              |
|                      |                      |      |         |                       |                                                                                                                                                       |
| Innogaz              |                      |      |         |                       | Electrofusion fittings STET                                                                                                                           |
|                      | PE 3408              | ??   | ??      | 1/2" CTS - 12" IPS    | Electrofusion Fittings (couplings, reducing couplings, tees).                                                                                         |
|                      |                      |      |         |                       |                                                                                                                                                       |
| Kerotest             |                      |      |         |                       | Market Innogaz Electrofusion Line                                                                                                                     |
|                      |                      |      |         |                       |                                                                                                                                                       |
| RW Lyall             |                      |      |         |                       | Electrofusion, compression fittings, transition fitting and meter risers. Brand name Lyco-Fit.<br>Also see Wayne Manufacturing, purchased in 2005     |
|                      | PE 2406              | ??   | Present | 1-1/4" IPS - 12" IPS  | Transition fittings - PE w/coated steel pup piece.                                                                                                    |
|                      | PE 3408              | ??   | Present | 1-1/4" IPS - 12" IPS  | Transition fittings - PE w/coated steel pup piece.                                                                                                    |
|                      | PE 2406              | ??   | Present | 1/2" CTS - 1-1/4" CTS | Solid yellow tubing in a coated steel riser (flex or bent).                                                                                           |
|                      | PE 3408              | ??   | Present | 1/2" CTS - 1-1/4" CTS | Black yellow striped tubing in a coated steel riser (flex or bent).                                                                                   |
|                      | Polyacetal           | 1984 | 1986    | 1/2" CTS - 1 1/4" CTS | Tee's & El's Celcon (white) Solid Sleeve                                                                                                              |
|                      | Valox 344            | 1986 | ~1989   | 1/2" CTS - 2 IPS      | Tapping Tees, couplings, El's & Tee's Solid Sleeve                                                                                                    |
|                      | Zenoy 6620           | 1989 | 1990    | 1/2" CTS - 2 IPS      | Tapping Tees, couplings, El's & Tee's Ribbed Sleeve                                                                                                   |
|                      | Zenoy 6193           | 1990 | 1992    | 1/2" CTS - 2 IPS      | Tapping Tees, couplings, El's & Tee's Ribbed Sleeve White with Pink Tint                                                                              |

## Manufacturers of Plastic Piping Products - Other fittings

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| Company                 | Material Designation | From   | To      | Size Range                          | Comments                                                                                                                                                                          |
|-------------------------|----------------------|--------|---------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Nylon PA11           | 1994   | Present | 1/2" CTS - 2 IPS                    | Rilsan compression coupling. Couplings, El's & Tee's and Tapping Tee's (black in color)                                                                                           |
|                         |                      |        |         |                                     |                                                                                                                                                                                   |
| Metfit                  |                      |        |         |                                     | Metcal purchased technology from AMP, sold business to Raychem then to Uponor                                                                                                     |
|                         | Nylon                | ??     | ??      | 1/2" CTS - 2" IPS                   | Black (Rilsan) with Stainless Steel compression ring                                                                                                                              |
|                         |                      |        |         |                                     |                                                                                                                                                                                   |
| NORMAC                  |                      |        |         |                                     | Metallic compression fittings from 1938 to present. (Ref: Patent 3856410 Chen, Norton McMurray 1975)                                                                              |
|                         |                      | 1980   | Present | 1/2" CTS - 2" IPS                   | Meter Risers - Anodeless field assembled risers with a coated steel flexible casing. ASTM D2513 Cat I, rated 125 psig.                                                            |
|                         |                      | 1972   | Present | 1/4" CTS - 2" IPS                   | Compression style transition fittings, adapters, service head adapters, meter set adapters, repair couplings, etc. with patented lock stiffener. ASTM D2513 Cat I, rated 125 psig |
|                         |                      | 1960's | Present | 1/4" CTS - 1/2" IPS                 | Compression style transition fittings, adapters, meter set adapters, repair couplings, etc. with fixed stiffener. ASTM D2513 Cat I, rated 125 psig                                |
|                         |                      | 1950'S | 1980's  | 1/4" CTS - 2" IPS                   | Provided loose (non-restraint) stiffeners at customer request.                                                                                                                    |
|                         |                      |        |         |                                     |                                                                                                                                                                                   |
| NUPI Americas           |                      |        |         |                                     | Product trade name ELOFIT, made in Milan Italy                                                                                                                                    |
|                         | PE4710               | 2004   | Present | 1/2" CTS -24" IPS                   | Electrofusion fittings                                                                                                                                                            |
|                         |                      |        |         |                                     |                                                                                                                                                                                   |
| Cleavenger & Associates |                      |        |         |                                     | Perfex Plastics                                                                                                                                                                   |
|                         |                      | 1970?  | Present | 1" CTS PE in 1-1/4"                 | Service head adapter                                                                                                                                                              |
|                         |                      |        |         | 1-1/2" IPS steel                    | Service head adapter                                                                                                                                                              |
|                         |                      |        |         | 1/2" CTS PE in 3/4" IPS steel       | Service head adapter                                                                                                                                                              |
|                         |                      |        |         |                                     |                                                                                                                                                                                   |
| Performance Pipe        |                      |        |         |                                     | Formed in 2000 by merger of Driscopipe and Plexco                                                                                                                                 |
|                         | PE 2406/PE2708       | 2000   | Present | 1/2"CTS - 2"IPS outlet tapping tees | Driscoplex® 6500. Yellow w/ yellow or black cap - sidewall fused service tee and high volume tee. PE2708 rating met in 2006.                                                      |
|                         | PE 3408/PE4710       | 2000   | Present | 1/2"CTS - 2"IPS outlet tapping tees | Yellowstripe 8300. Solid Black - sidewall fused service tee and high volume tee. PE4710 rating met in 2006.                                                                       |

## Manufacturers of Plastic Piping Products - Other fittings

The following is a list of manufacturers of branch, transition, and other plastic fittings for gas distribution operations.

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| Company             | Material Designation | From | To      | Size Range                       | Comments                                                                                                                                         |
|---------------------|----------------------|------|---------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | PE 2406/PE2708       | 2000 | Present | 1/2" CTS - 8" IPS branch saddles | Driscoplex® 6500. Outlet size of sidewall fusion branch saddles. Solid Yellow. PE2708 rating met in 2006.                                        |
|                     | PE 3408/PE4710       | 2000 | Present | 1/2" CTS - 8" IPS branch saddles | Yellowstripe 8300. Outlet size of sidewall fusion branch saddles. Solid Black. PE4710 rating met in 2006.                                        |
|                     |                      |      |         |                                  |                                                                                                                                                  |
| PLEXCO              |                      |      |         |                                  | Purchased Extron 1970. In 2000, Plexco merged with Drisco to form Performance Pipe                                                               |
|                     | PE 2406              | ??   | 2000    | 1/2" CTS - 2" IPS                | Yellow w/black cap - sidewall fused service tee and high volume tee.                                                                             |
|                     | PE 3408              | ??   | 2000    | 1/2" CTS - 2" IPS                | Solid Black - sidewall fused service tee and high volume tee.                                                                                    |
|                     | PE 2406              | ??   | 2000    | 3/4" IPS - 8" IPS                | Outlet size of sidewall fusion branch saddles. Solid Yellow                                                                                      |
|                     | PE 3408              | ??   | 2000    | 3/4" IPS - 8" IPS                | Outlet size of sidewall fusion branch saddles. Solid Black                                                                                       |
|                     |                      |      |         |                                  |                                                                                                                                                  |
| T.D. Williamson     |                      |      |         |                                  | TD Williamson partnered with Central Plastics                                                                                                    |
|                     | PE2406               |      |         | 4" IPS                           | Electrofusion saddle for PE stop-off (steel flow control technology).                                                                            |
|                     | PE3408/PE4710        | 2007 | Present | 4" IPS - 8" IPS                  | Electrofusion saddle for PE stop-off (steel flow control technology).                                                                            |
|                     |                      |      |         | 4" - 12" IPS                     | Stipple; no blow                                                                                                                                 |
|                     |                      |      |         |                                  |                                                                                                                                                  |
| Uponor              |                      |      |         |                                  | Purchased DuPont and Wayne manufacturing. Produced pipe under the Aldyl and UAC names. Sold business in 2004 to US Poly                          |
|                     | PE 2406              | ??   | 2004    | 1" IPS - 2" IPS                  | Tan or Solid Yellow - sidewall fused service tee and high volume tee.                                                                            |
|                     | PE 3408              | ??   | 2004    | 1" IPS - 2" IPS                  | Solid Black - sidewall fused service tee and high volume tee.                                                                                    |
|                     | PE 2406              | ??   | 2004    | 2" IPS - 6" IPS                  | Outlet size of sidewall fusion branch saddles. Tan or solid Yellow                                                                               |
|                     | PE 3408              | ??   | 2004    | 2" IPS - 6" IPS                  | Outlet size of sidewall fusion branch saddles. Solid Black                                                                                       |
|                     |                      |      |         |                                  |                                                                                                                                                  |
| Wayne Manufacturing |                      |      |         |                                  | Heat fusion fittings, transition fitting, meter risers. Purchased by Uponor Transferred to US Poly. R.W. Lyall purchased the metals line in 2005 |
|                     | PE 2406              | ??   | ??      | 1" IPS - 2" IPS                  | Solid Yellow - sidewall fused service tee and high volume tee.                                                                                   |
|                     | PE 3408              | ??   | ??      | 1" IPS - 2" IPS                  | Solid Black - sidewall fused service tee and high volume tee.                                                                                    |
|                     | PE 2406              | ??   | ??      | 2" IPS - 6" IPS                  | Outlet size of sidewall fusion branch saddles. Solid Yellow                                                                                      |
|                     | PE 3408              | ??   | ??      | 2" IPS - 6" IPS                  | Outlet size of sidewall fusion branch saddles. Solid Black                                                                                       |
|                     | PE 2406              | ??   | ??      | 1-1/4" IPS - 12" IPS             | Transition fittings - PE w/coated steel pup piece.                                                                                               |



## Manufacturers of Plastic Piping Products - Other fittings

The following is a list of manufacturers of branch, transition, and other plastic fittings for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC. Contact AGA if errors

NOTE: Operators are

required to install

materials that meet current

requirements

| Company                                                     | Material Designation           | From | To | Size Range           | Comments                                                              |
|-------------------------------------------------------------|--------------------------------|------|----|----------------------|-----------------------------------------------------------------------|
|                                                             | PE 3408                        | ??   | ?? | 1-1/4" IPS - 12" IPS | Transition fittings - PE w/coated steel pup piece.                    |
|                                                             | PE 2406                        | ??   | ?? | 1/2" CTS - 2" IPS    | Meter Risers - Solid Yellow in a coated steel riser casing.           |
|                                                             | PE 3408                        | ??   | ?? | 1/2" CTS - 2" IPS    | Meter Risers - Black w/yellow stripes in a coated steel riser casing. |
|                                                             |                                |      |    |                      |                                                                       |
| <b>Notes:</b>                                               | <i>CTS: Copper Tubing Size</i> |      |    |                      |                                                                       |
|                                                             | <i>IPS: Iron Pipe Size</i>     |      |    |                      |                                                                       |
|                                                             |                                |      |    |                      |                                                                       |
| <b>Other Minor Fitting Producers (not in PPDC database)</b> |                                |      |    |                      |                                                                       |
|                                                             |                                |      |    |                      |                                                                       |
| Chicago Fittings                                            |                                |      |    | 1/2" CTS - 2" IPS    | Compression fittings from 1960's to ??                                |
| Innertite Fittings                                          |                                |      |    | 1/2" CTS -?          | Compression fittings from 1960's to present                           |

## Manufacturers of Plastic Piping Products - Valves

The following is a list of manufacturers of plastic valves for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC. Contact AGA if errors exist.

NOTE: Operators are required to install materials that meet current requirements

| Company                                | Material Designation  | From | To      | Size Range            | Comments                                                                                                                                                                                             |
|----------------------------------------|-----------------------|------|---------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goerg Fisher Central Plast             | PE3408/PE4710         | 2008 | Present | 1 1/4 IPS - 12 IPS    | PE ball valve (Black with white operating nut)                                                                                                                                                       |
|                                        |                       |      |         |                       |                                                                                                                                                                                                      |
| Dresser                                | Nylon                 | 1991 | Present | 1/2" CTS - 1-1/4" CTS | Style 475 Curb Valve Rilsan                                                                                                                                                                          |
| (Note: Dresser acquired by GE in 2011) |                       |      |         |                       |                                                                                                                                                                                                      |
|                                        |                       |      |         |                       |                                                                                                                                                                                                      |
| Friatec                                | PE 3408               | 1985 | 1995    | 2" - 6" IPS           | Black body with white operating nut; ball valve                                                                                                                                                      |
| Handley Industries, Inc.               | Nylon – glass filled  | 1960 | 2015    | 1/2" – 2"             | Socket fusion curb vale with seals made from buna-N; Valves no longer available as of 6/23/15                                                                                                        |
| Kerotest                               |                       |      |         |                       | Domestic manufacture of a complete line of full and standard port ball valves; also includes Polytec Ltd. manufactured valves under the Kerotest name for many years, prior to partnering with Lyall |
|                                        | PE 2406 / 2708        | 2004 | Present | 1/2" CTS - 1-1/4" IPS | Yellow body w/ white slotted operating nut - ball valve. Polyball®                                                                                                                                   |
|                                        | PE 3408 / 4710        | 2004 | Present | 1/2" CTS - 1-1/4" IPS | Black body w/ white slotted operating nut - ball valve. Polyball®                                                                                                                                    |
|                                        | PE 2406 / 2708        | 2004 | Present | 2" IPS - 12" IPS      | Yellow body w/ white 2-inch operating square - ball valve. Polyball®                                                                                                                                 |
|                                        | PE 3408 / 4710        | 2004 | Present | 2" IPS - 12" IPS      | Black body w/ white 2-inch operating square - ball valve. Polyball®                                                                                                                                  |
|                                        | PE 2406               | 1997 | 2003    | 1/2" CTS - 12" IPS RP | Yellow body w/ white 2-inch operating square - ball valve. "Polytec"                                                                                                                                 |
|                                        | PE 3408               | 1997 | 2003    | 1/2" CTS - 12" IPS RP | Black body w/ white 2-inch operating square - ball valve. "Polytec"                                                                                                                                  |
|                                        | Nylon/Zytel           | 1984 | 2008    | 1/2" CTS - 1 1/4" IPS | Black body w/ white slotted operating nut. Compression Ends. Kerotite™                                                                                                                               |
|                                        |                       |      |         |                       |                                                                                                                                                                                                      |
| Floserve Nordstrom                     |                       |      |         |                       |                                                                                                                                                                                                      |
|                                        | PE 2406               | ??   | Present | 1/2" CTS - 12" IPS    | Yellow body w/ white operating nut - ball valve.                                                                                                                                                     |
|                                        | PE 3408               | ??   | Present | 2" IPS - 12" IPS      | Black body w/white operating nut - ball valve.                                                                                                                                                       |
|                                        | PE 2306/2406          | 1974 | 1990    | 1/2" CTS - 1 1/4" IPS | Tan or orange body (orange until 1986, then yellow) w/ white operating nut - plug valve.                                                                                                             |
|                                        | PE 3406/3408          | 1974 | 1990    | 1/2" CTS - 1 1/4" IPS | Black body w/white operating nut - plug valve.                                                                                                                                                       |
|                                        | PE 2406               | 1990 | Present | 1/2" CTS - 1 1/4" IPS | Yellow body w/ white operating nut - ball valve.                                                                                                                                                     |
|                                        | PE 3408               | 1990 | Present | 1/2" CTS - 1 1/4" IPS | Black body w/white operating nut - ball valve.                                                                                                                                                       |
|                                        | PE 2306/2406          | 1974 | Present | 2" IPS - 8" IPS RB    | Tan or orange body (orange until 1986, then yellow) w/ white operating nut - ball valve.                                                                                                             |
|                                        | PE 3406/3408          | 1974 | Present | 2" IPS - 8" IPS RB    | Black body w/white operating nut - ball valve.                                                                                                                                                       |
|                                        | PE3408 W/PE 2406 pipe | 1995 | Present | 12" IPS FB            | Black body w/yellow pipe ends and gearing - ball valve.                                                                                                                                              |
|                                        | PE3408 W/PE 3408 pipe | 1995 | Present | 12" IPS FB            | Black body w/yellow pipe ends and gearing - ball valve.                                                                                                                                              |
|                                        | PE3408 W/PE 2406 pipe | 1996 | Present | 8" IPS FB             | Black body w/yellow pipe ends and w/ white operating nut or gearing - ball valve.                                                                                                                    |

## Manufacturers of Plastic Piping Products - Valves

The following is a list of manufacturers of plastic valves for gas distribution operations.

The list may be incomplete, but does list most of the primary companies involved in reports to the PPDC. Contact AGA if errors exist.

NOTE: Operators are required to install materials that meet current requirements

| Company                    | Material Designation    | From | To      | Size Range            | Comments                                                                                                                               |
|----------------------------|-------------------------|------|---------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                            | PE3408 W/PE 3408 pipe   | 1996 | Present | 8" IPS FB             | Black body w/yellow pipe ends and w/ white operating nut or gearing - ball valve.                                                      |
|                            |                         |      |         |                       |                                                                                                                                        |
| Goerg Fisher Central Plast | PE3408/PE4710           | 2008 | Present | 1 1/4 IPS - 12 IPS    | PE ball valve (Black with white operating nut)                                                                                         |
|                            |                         |      |         |                       |                                                                                                                                        |
| Honeywell Perfection       |                         |      |         |                       | Elster Perfection was acquired by Honeywell on Dec. 31, 2015                                                                           |
|                            | PE 2406                 | ??   | Present | 1/2" CTS - 1-1/4" CTS | Solid yellow body w/white operating nut - plug design service valve.                                                                   |
|                            | PE 2406                 | ??   | Present | 2" IPS - 8" IPS       | Solid Yellow line valve - ball valve design                                                                                            |
|                            | PE 3408                 | ??   | Present | 2" IPS - 8" IPS       | Black body w/white operating nut - ball valve.                                                                                         |
|                            |                         |      |         |                       |                                                                                                                                        |
| RW Lyall                   |                         |      |         |                       | LYCO PE Ball Valves - Brand for Lyall                                                                                                  |
|                            | PE 2406                 | 1985 | 2004    | 1/2" CTS - 1-1/4" IPS | Solid yellow service valves - ball design                                                                                              |
|                            | PE 2406                 | 1985 | 2004    | 2" IPS                | Solid yellow main valves - ball design                                                                                                 |
|                            | PE 3408                 | 1985 | 2004    | 1/2" CTS - 1-1/4" CTS | Solid black service valves - ball design                                                                                               |
|                            | PE 3408                 | 1985 | 2004    | 2" IPS                | Solid black main valves - ball design                                                                                                  |
|                            |                         |      |         |                       | LYALL-POLYTEC PE Ball Valves - Polytec Ltd. manufactured valves under the Kerotest name for many years, prior to partnering with Lyall |
|                            | PE 2406                 | 2003 | Present | 1/2" CTS - 1-1/4" IPS | Solid yellow service valves - ball design                                                                                              |
|                            | PE 2406                 | 2003 | Present | 2" IPS - 16 IPS       | Solid yellow main valves - ball design                                                                                                 |
|                            | PE 3408                 | 2003 | Present | 1/2" CTS - 1-1/4" IPS | Solid black service valves - ball design                                                                                               |
|                            | PE 3408                 | 2003 | Present | 2" IPS - 16 IPS       | Solid black main valves - ball design                                                                                                  |
|                            |                         |      |         |                       |                                                                                                                                        |
| Uponor                     |                         |      |         |                       |                                                                                                                                        |
|                            |                         |      |         |                       |                                                                                                                                        |
|                            | CTS: Copper Tubing Size |      |         |                       |                                                                                                                                        |
|                            | IPS: Iron Pipe Size     |      |         |                       |                                                                                                                                        |

| <b>Revision:</b>                                               | <b>Pipe</b> | <b>Line Fittings</b> | <b>Other Fittings</b> | <b>Valves</b> | <b>Revised by:</b> | <b>Date:</b> | <b>Comments:</b>                                                                                     |
|----------------------------------------------------------------|-------------|----------------------|-----------------------|---------------|--------------------|--------------|------------------------------------------------------------------------------------------------------|
| Updated KWH and Uponor Infra                                   | x           |                      |                       |               | R. Knapp           | 2/25/2015    | Information supplied by Paul van Warmerdam                                                           |
| Updated WL Plastics                                            | x           |                      |                       |               | R. Knapp           | 2/25/2015    | Information supplied by Dustin Langston                                                              |
| Updated Endot                                                  | x           |                      |                       |               | R. Knapp           | 2/25/2015    | Information provided by Richard Kraft                                                                |
| Updated GF Central Plastics                                    |             | x                    | x                     | x             | K.Lively           | 2/26/2015    | Information provided by Jeff Wright                                                                  |
| Kerotest                                                       |             |                      |                       | x             | R. Knapp           | 7/21/2015    | Information provided by Mark Sewell                                                                  |
| Dresser                                                        |             |                      | x                     | x             | R. Knapp           | 7/21/2015    | Information noted at PPDC                                                                            |
| Continental Industries                                         |             | x                    |                       |               | R. Knapp (db)      | 8/17/2016    | Information provided by David Jordan                                                                 |
| Name change: Honeywell Perfection (formerly Elster Perfection) |             |                      | x                     | x             | R. Knapp (db)      | 8/17/2016    | Information provided by Dave Robison<br>Elster Perfection was acquired by Honeywell on Dec. 31, 2015 |
| Handley Industries, Inc.                                       |             |                      | x                     |               | R.Knapp (gc)       | 5/2/2018     | Information provided by Randy Knapp                                                                  |