

Columbia Gas of Kentucky (CKY)
Columbia Gas of Maryland (CMD)
Columbia Gas of Ohio (COH)
Columbia Gas of Pennsylvania (CPA)
Columbia Gas of Virginia (CVA)

NiSource Companies

MATERIALS FOR CUSTOMER SERVICE LINES - CDC

Effective Date: 2026-04-01

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INTRODUCTION

This manual is the listing of approved materials for customer service lines, and supplements the Standards for Customer Service Lines, Meters, and Service Regulators (Plumber's Guide), for Columbia Gas distribution companies of NiSource, Inc.¹ (the Gas Company). For materials over 2" other than plastic pipe, refer to the Gas Company for customer's service line and the National Fuel Gas Code for customer's house piping.

The listed materials have been qualified by the Gas Company through testing to ensure their conformance with the gas piping standards included in the Plumber's Guide. Materials subsequently submitted for qualification and found to be in accordance with the Plumber's Guide will be added to this manual. In addition, materials presently included in the listing that, upon testing by the Gas Company, fail to continue to conform to the standards in the Plumber's Guide will be deleted from the listing.

Changes from previous edition (XXXXXXX, 2025)

Additions

1. Added "w/ yellow stripes" to description of HDPE pipe.
2. Added 3/4" CTS MDPE/HDPE, 3/4" IPS MDPE, 1" IPS HDPE, 6" IPS X SDR-11.5 MDPE and 12" IPS HDPE pipe.
3. Added Endot Industries 1/2" CTS – 8" IPS HDPE pipe to the approved list of pipes.
4. Added Performance Pipe 10" & 12" IPS MDPE/HDPE to the approved list of pipes.
5. Added PolyPipe 1/2" CTS – 8" IPS MDPE & 1/2" CTS – 12" IPS HDPE pipe to the approved list of pipes.
6. Added Teel Plastics 1/2" CTS – 6" IPS MDPE/HDPE pipe to the approved list of pipes.
7. Added JM Eagle 10" & 10" MDPE/HDPE pipe to the approved list of pipes.
8. Added WL Plastics 1/2" CTS – 12" IPS HDPE pipe to the approved list of pipes.
9. Added "Honeywell" in front of "Perfection" due to Honeywell's purchase of Elster Perfection.
10. Added "GN" to the end of all Honeywell Perfection service head adapter part numbers.
11. Added "Hubbell" in front of "Continental" due to Hubbell's purchase of Continental Industries.
12. Updated Dresser plastic pipe to plastic pipe mechanical fitting part numbers and descriptions.
13. Updated Normac Part No. 64-PW description.
14. Added "PC" to the beginning and "GN" to the end of all Honeywell Perfection plastic pipe to plastic pipe HDPE mechanical fittings.
15. Added "Hubbell" to the end of "Lyll" due to Hubbell's purchase of R.W. Lyll.
16. Updated Dresser steel pipe to plastic pipe mechanical fitting part numbers.
17. Updated Dresser steel pipe to steel pipe mechanical fitting part numbers.
18. Updated Swagelok plastic pipe to copper pipe mechanical fitting part number and description.
19. Added "R" to the end of Lyll – Hubbell plastic pipe to copper pipe mechanical fittings.
20. Updated "Smith Blair – CSI" to "Smith Blair – Xylem" due to Xylem's purchase of Smith Blair.
21. Updated Smith Blair – Xylem bolted couplings steel/steel; steel/plastic; plastic/plastic mechanical fittings part numbers.
22. Updated Dresser bolted couplings steel/steel; steel/plastic; plastic/plastic mechanical fittings and stiffener part numbers.
23. Updated Lyll – Hubbell bolt-on saddle tees (plastic) mechanical fitting part numbers.
24. Added "Lyll" in front of Mechanical Specialties since it is a division of Lyll.
25. Updated Richard Mfg cast meter bar part number.

¹ The companies are: Columbia Gas of Kentucky (CKY), Columbia Gas of Ohio (COH), Columbia Gas of Maryland (CMD), Columbia Gas of Pennsylvania (CPA), and Columbia Gas of Virginia (CVA).

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26. Updated Dresser meter stop, insulating union outlet, 1/8" test port, lockwing head part number and added "no test port" note.
27. Updated Mueller meter stop, insulating union outlet, 1/8" test port, lockwing head part numbers.
28. Updated Mueller meter stop, no union end, 1/8" test port, lockwing head part numbers.
29. Updated Dresser meter stop, no union end, 1/8" test port, lockwing head part number and added "no test port" under additional comments.
30. Added "Flowserve" in front of "Nordstrom Valves" due to Hubbell's purchase of Nordstrom Valves.
31. Updated Nibco butterfly valve part numbers.
32. Updated Normac compression nut wall sleeve seal part numbers and sizes.
33. Updated "Lilly" to "The Sherman-Williams Company" due to Sherman-Williams purchase of Valspar.
34. Updated "Minnesota Mining & Mfg. Co." to "3M" to reflect the company's name change.
35. Added "Chase Corporation" in front of "Tapecoat" due to the Chase Corporations purchase of Tapecoat.
36. Added "Chase Corporation" in front of "Royston Laboratories" due to the Chase Corporations purchase of Royston Laboratories.
37. Updated "Magnesium Corporation of America" to "US Magnesium" to reflect the company's name change.
38. Updated Honeywell Perfection flexible and stub flex risers with plastic carrier pipe part numbers.
39. Added Energy Control Systems Inc. Part No. FR-13MTX11SS24-36 and description to the list of approved flexible and stub flex risers with plastic carrier pipe.
40. Updated Central Plastics flexible and stub flex risers with plastic carrier pipe part numbers.
41. Updated Honeywell Perfection steel encased pre-bent risers with plastic carrier pipe part numbers.
42. Updated Energy Control Systems Inc. steel encased pre-bent risers with plastic carrier pipe part numbers and descriptions.
43. Added "GN" to the end of all Honeywell Perfection steel encased straight risers with plastic carrier pipe part numbers.
44. Added Energy Control Systems Inc. Part No. SR-2RFGX2BF-2406-11, SR-2RFGX2CS-2406-11, SR-3RFGX3BF-2406-115, SR-4RFGX4BF-2406-115 and descriptions to the list of approved steel encased straight risers with plastic carrier pipe.
45. Updated and rearranged company information in the contact information section.

Deletions

1. Removed Appalachian Piping Products and Charter Plastics from the approved list.
2. Removed Cresline Plastic Pipe Co 4" IPS MDPE pipe from the approved list.
3. Removed Oil Creek Plastics 2" & 4" IPS HDPE pipe from the approved list.
4. Removed WL Plastics 8" and 6" IPS MDPE pipe from the approved list.
5. Removed note prohibiting use of PolyPipe MDPE/HDPE pipe.
6. Removed note stating that WL Plastics HDPE pipe is not approved.
7. Removed Normac from the approved list of service head adapters.
8. Removed Inner Tite from the approved list of service head adapters.
9. Removed Continental from the approved list of service head adapters.
10. Removed USPoly from the approved list of service head adapters.
11. Removed Normac Part No. 1760-A-11 from the approved list of meter set and basement tee adapters.
12. Removed Inner Tite from the approved list of meter set and basement tee adapters.
13. Removed Normac Part No. 679 & 689 from the approved list of curb valves.
14. Removed Hubbell – Continental Part No. 9942-99-0203-00 & 9942-99-0204-00 from the approved list of curb valves.

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15. Removed Chicago Fittings from the approved list of curb valves.
16. Removed USPoly from the approved list of curb valves.
17. Removed Dresser Part No. 0401-0130-001, 0401-0056-001 & 0401-0065-001 from the approved list of plastic pipe to plastic pipe mechanical fittings.
18. Removed Normac Part No. 62-PW-11, (62-PW) & 420-PW-11 from the approved list of plastic pipe to plastic pipe mechanical fittings.
19. Removed Honeywell Perfection from the approved list of plastic pipe to plastic pipe MDPE mechanical fittings.
20. Removed Lyall – Hubbell Part No. LC080Y-DESR, LC080Y-DER, LC080Y-ELR, LC080Y-3TR, LC080Y030C-RR, LC080X030C-RR, LC200Y080Y-RR, LC200Y030C-RR, LC080Y080Y030C, LC080X080X030C, LC200Y200Y080Y, LC200Y200Y030C, LC030D-ECR & LC080Y-ECR from the approved list of plastic pipe to plastic pipe mechanical fittings.
21. Removed USPoly from the approved list of plastic pipe to plastic pipe mechanical fittings.
22. Removed Hubbell – Continental Part No. 3259-49-0408-00, 3259-49-1508-A0 & 3259-49-1715-00 from the approved list of plastic pipe to plastic pipe mechanical fittings.
23. Removed Normac Part No. 79-DC-LA-090 from the approved list of steel pipe to plastic pipe mechanical fittings.
24. Removed USPoly from the approved list of plastic pipe to copper pipe mechanical fittings.
25. Removed Smith Blair – Xylem Part No. U-18A7-UMG, U-218A7-UMG & U-28A7-UMG from the list of approved bolted couplings steel/steel; steel/plastic; plastic/plastic mechanical fittings.
26. Removed Lyall – Hubbell Part No. LC080030D-TTF & LC080010B-TTF from the approved list of bolt-on saddle tees (plastic) mechanical fittings.
27. Removed Dresser from the approved list of bolt-on saddle tees (plastic) mechanical fittings.
28. Removed National Meter from the approved list of cast meter bars.
29. Removed Dresser from the approved list of compression nut wall sleeve seals.
30. Removed Telsco from the approved list of compression nut wall sleeve seals.
31. Removed Union Carbide from the approved list of mill pipe coatings.
32. Removed “Zinc Anodes for Steel Pre-Bent Risers” section due to this style of riser being discontinued.
33. Removed Continental Industries from list of approved steel risers (pre-bent).
34. Removed Perfection from list of approved steel risers (pre-bent).
35. Removed USPoly from list of approved steel risers (pre-bent).
36. Removed Perfection from list of approved flexible and stub flex risers with plastic carrier pipe.
37. Removed Lyall from list of approved flexible and stub flex risers with plastic carrier pipe.
38. Removed Honeywell Perfection Part No. 75473010, 75599010, 77738, 77738010 & 77739 from the list of approved flexible and stub flex risers with plastic carrier pipe.
39. Removed Central Plastics Part No. 10007264 from the list of approved flexible and stub flex risers with plastic carrier pipe.
40. Removed Honeywell Perfection Part No. 75270100, 75313010, 75900103 & 75901010 from the list of approved steel encased pre-bent risers with plastic carrier pipe.
41. Removed Lyall from the list of approved steel encased pre-bent risers with plastic carrier pipe.
42. Removed Lyall from the list of approved steel encased straight risers with plastic carrier pipe.
43. Removed USPoly from the list of approved steel encased straight risers with plastic carrier pipe.
44. Removed Honeywell Perfection Part No. 75906010, 75911011, 79896, 79896010, 78530100, 78531010 & 78566010 from the list of approved steel encased straight risers with plastic carrier pipe.

Other Modifications

(None)

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Plastic Pipe and Tubing

1.1 Approved Sizes and Manufacturers

For Service Lines, and Buried House Lines, Insert Renewal of Existing Service Lines, Gas Grill and Gas Light Installations

Sizes

The following sizes of PE2406/PE2708 medium-density and PE3408/PE3608/PE4710 high-density polyethylene pipe or tubing are qualified for use underground:

Medium Density (Yellow)

1/2" CTS (5/8" OD) X 0.090" Wall
 3/4" CTS (7/8" OD) X 0.090" Wall
 3/4" IPS X SDR-11
 1" CTS (1-1/8" OD) X 0.099" Wall
 1-1/4" IPS X SDR-10
 2" IPS X SDR-11
 3" IPS X SDR-11.5
 4" IPS X SDR-11.5
 6" IPS X SDR-11.5
 6" IPS X SDR-13.5
 8" IPS X SDR-13.5

High Density (Black w/ Yellow Stripes)

1/2" CTS (5/8" OD) X 0.090" Wall
 3/4" CTS (7/8" OD) X 0.090" Wall
 1" CTS (1-1/8" OD) X 0.101" Wall
 1" IPS X SDR-11
 1-1/4" IPS X SDR-11
 2" IPS X SDR-11
 3" IPS X SDR-11
 4" IPS X SDR-11
 6" IPS X SDR-11
 8" IPS X SDR-11
 12" IPS X SDR-11

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Plastic Pipe and Tubing**Manufacturers**

The manufacturers listed below are approved extruders for sizes shown. Plastic pipe purchased from these manufacturers must meet Columbia Material Standards Index No. 13.

<u>Manufacturer</u>	<u>Pipe Name</u>	<u>Classification</u>	<u>Color</u>	<u>Sizes Approved</u>
Cresline Plastic Pipe Co, Inc.	YELLOW GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 2" IPS
Endot Industries, Inc.	YELLOW GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 4" IPS
	PE-100 GAS PIPE	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 8" IPS
Oil Creek Plastics	GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 6" IPS
	GAS PIPE	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 2" IPS
Performance Pipe	DRISCOPLEX 6500	PE2406/PE2708	Yellow	1/2" CTS – 12" IPS
	YELLOWSTRIPE 8300	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 12" IPS
PolyPipe	POLYTOUGH1	PE2406/PE2708	Yellow	1/2" CTS – 8" IPS
	GAS PIPE	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 12" IPS
Silver-Line Plastics Corporation	SILVER LINE GAS	PE2406/PE2708	Yellow	1/2" CTS – 4" IPS
Teel Plastics, Inc.	GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 6" IPS
	GAS PIPE	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 6" IPS
JM Eagle (USPoly)	GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 12" IPS
	GAS DISTRIBUTION	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 12" IPS
WL Plastics (formerly Charter Plastics)	NATURAL GAS PIPE	PE2406/PE2708	Yellow	1/2" CTS – 4" IPS
	NATURAL GAS PIPE	PE3408/PE4710	Black w/ Yellow Stripes	1/2" CTS – 12" IPS

Effective September 29, 2022, all Flying “W” Plastic pipe is prohibited to be used for customer service line pipe in the Columbia Gas system.

Effective April 1, 2023, WL Plastics’ purchase of Charter Plastics is recognized for MDPE Yellow Pipe.

Plastic Pipe and Tubing

1.2 Tracer Wire Specifications

When tracer wire is installed for service line locating as required by the Plumber's Guide, it shall be approved by the Company according to the following specifications.

Specifications: Tracer wire shall be either solid copper or company-approved (see listing below) copper clad to a solid steel core wire. The minimum wire gauge is #14, except in Pennsylvania and Maryland where it is #12. The wire must have a protective coating (jacket) consisting of a high-molecular weight polyethylene or thermosetting (TW or PVC) plastic. The jacket color should be yellow.

Copper clad steel tracer wire

This type of tracer wire has a steel wire core, with a layer of copper "cladded" to its outside. A protective coating (jacket) is then applied to protect the copper from the underground environment, just as with solid copper tracer wire.

<u>Manufacturer</u>	<u>Part No.</u>	<u>Wire Gauge</u>	<u>Description</u>
Copperhead Industries	1230Y-HS-500	12	#12 AWG Reinforced Tracer Wire, 500' spools: Direct burial #12 AWG solid (0.0808" conductor diameter), 21% conductivity annealed copper-clad high carbon steel high strength tracer wire, 380# average tensile break load, 30 mil. High molecular weight-high density yellow polyethylene jacket complying with ASTM D-1248, 30 volt rating.
	1430Y-HS-500	14	#14 AWG Reinforced Tracer Wire, 500' spools: Direct burial #14 AWG solid (0.0641" conductor diameter), 21% conductivity annealed copper-clad high carbon steel high strength tracer wire, 230# average tensile break load, 30 mil. High molecular weight-high density yellow polyethylene jacket complying with ASTM D-1248, 30 volt rating.

NOTES: Minimum #12 AWG is required for (directional) boring installations.
45 mil. Coating available for (directional) boring installations.
Other spool lengths available.

Adapter Fittings

2.1 Service Head

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Dresser	0502-0019-001	Service Head Adapter 1-1/4" MIPS X 1-1/4" FIPS X 1" CTS (0.099" Wall)
Honeywell	71140GN	Service Head Adapter, 1" MPT X 1/2" CTS 0.090" X 3/4" FPT
Perfection*	71151GN	Service Head Adapter, 1" MPT X 1" CTS 0.099/0.102 X 1-1/4" FPT
	71154GN	Service Head Adapter, 1-1/4" MPT X 1" CTS 0.099/0.102 X 1-1/4" FPT
	71190GN	Service Head Adapter, 1-1/4" MPT X 1-1/4" IPS SDR-10 X 2" FPT
	71191GN	Service Head Adapter, 1-1/4" MPT X 1-1/4" IPS SDR-11 X 2" FPT

* Honeywell Perfection's Servi-Sert adapters no longer (after September 2004) include the O-ring for below-ground applications.

The same 1" CTS fitting can be used for both 0.099" wall (yellow) and 0.101" wall (black w/ yellow stripes) pipe.

Adapter Fittings

2.2 Meter Set and Basement Tee

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Normac	1760-A-10	Meter Set Adapter, 2" FIPS X 1-1/4" MIPS X 1-1/4" Compression with Lock Stiffener for SDR-10 Pipe
	1761-A-11	Meter Set Adapter, 2" FIPS X 2" MIPS X 1-1/4" Compression with Lock Stiffener for SDR-11 Pipe
	1761-A-10	Meter Set Adapter, 2" FIPS X 2" MIPS X 1-1/4" Compression with Lock Stiffener for SDR-10 Pipe

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Adapter Fittings

2.3 Curb Valve

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Normac	676	Curb adapter, combination 1" MPT or 1" plain end X 1" CTS compression with attachment point for anode wire
	686	Curb adapter, combination 1-1/4" MPT or 1-1/4" plain end X 1" CTS compression with attachment point for anode wire
Hubbell – Continental	9942-99-0205-00	Adapter Coupling, 1-1/8" OD .099/.101 Wall X 1" MPT, W/Nico-Press Sleeve
	9942-99-0206-00	Adapter Coupling, 1-1/8" OD .099/.101 Wall X 1-1/4" MPT, W/Nico-Press Sleeve

Mechanical Fittings

3.1 Plastic Pipe to Plastic Pipe

Fittings molded with PE2406/2708 resin (yellow) are ONLY used with medium-density (yellow) piping. Black molded fittings (PE3408/3608 or PE4710/PE100) can be used with either medium- or high-density (black w/ yellow stripes) piping.

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Dresser	0090-5117-637	1-1/4"	Coupling, Compression, Plasti-Lok, Plastisol Coated, Anode Connector, With Two (2) SDR-10 Insert Stiffeners
	0090-5118-661	1-1/4"	Coupling, Compression, Plasti-Lok, *Coated, Anode Connector, With Two (2) SDR-11 Insert Stiffeners
	0090-5733-637	1-1/4"	Coupling, Compression, Plasti-Lok, *Coated, One (1) SDR-10 and One (1) SDR-11 Insert Stiffener
	0090-5122-661	2"	Coupling, Compression, Plasti-Lok, *Coated, Anode Connector, With Two (2) SDR-11 Insert Stiffener
	2090-0834-016	1-1/4"	Insert Stiffener, Use 4" long inserts with 5" middle rings, SDR-10 (For Use in Plasti-Lok Fittings Only)
	2090-0832-014	1-1/4"	Insert Stiffener, Use 4" long inserts with 5" middle rings, SDR-11 (For Use in Plasti-Lok Fittings Only)
	2090-0841-014	2"	Insert Stiffener, Use 4" long inserts with 5" middle rings, SDR-11 (For Use in Plasti-Lok Fittings Only)
	0401-0006-001	1/2" CTS	Coupling, Plastic Body, Compression Nut Ends, With Integral Stiffeners for 0.090" Wall Tubing
	0401-0015-001	1" CTS	Coupling, Plastic Body, Compression Nut Ends, With Integral Stiffeners for 0.099" Wall Tubing
	0401-0139-001	1" CTS	El, 90°, Plastic Body, Compression Nut Ends, With Integral Stiffeners for 0.099" Wall Tubing
	0401-0081-001	1/2" CTS	Cap, Plastic Body, Compression Nut End, With Integral Stiffener for 0.090" Wall Tubing
	0401-0090-001	1" CTS	Cap, Plastic Body, Compression Nut End, With Integral Stiffener for 0.099" Wall Tubing

* E-Coat Primer Coated.

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Mechanical Fittings

3.1 Plastic Pipe to Plastic Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Normac	51-B-P-101	1" CTS	Ell, 90°, Compression, Bare, Anode Connector, With Two (2) 0.099" Lock Stiffeners
	87-A-PW-10	1-1/4"	Ell, 90°, Compression, Bare, Anode Connector, With Two (2) SDR-10 Lock Stiffeners
	87-A-PW-11	1-1/4"	Ell, 90°, Compression, Bare, Anode Connector, With Two (2) SDR-11 Lock Stiffeners
	90-PW	2"	Ell, 90°, Compression, Bare, Anode Connector, With Two (2) SDR-11 Lock Stiffeners
	60-CP-101	1" CTS	Tee, Compression, Bare, Anode Connector, With Three (3) 0.099" Lock Stiffeners
	62-PW-10	1-1/4"	Tee, Compression, Bare, Anode Connector, With Three (3) SDR-10 Lock Stiffeners
	64-PW	2"	Tee, Compression, Bare, Anode Connector, With Three (3) SDR-11 Lock Stiffeners
	1-C-PLL-101	1" CTS	Coupling, Compression, Bare, Anode Connector, With Two (2) 0.099" Lock Stiffeners
	3-PW-10	1-1/4"	Coupling, Compression, Bare, Anode Connector, With Two (2) SDR-10 Lock Stiffeners
	3-PW-11	1-1/4"	Coupling, Compression, Bare, Anode Connector, With Two (2) SDR-11 Lock Stiffeners
	5-PW	2"	Coupling, Compression, Bare, Anode Connector, With Two (2) SDR-11 Lock Stiffeners
	402-PW-10	1-1/4" X 1" CTS	Coupling, Reducing, Compression, Bare, Anode Connector, With One (1) 1-1/4" SDR-10 and One (1) 1" CTS 0.099" Lock Stiffener
	402-PW-11	1-1/4" X 1" CTS	Coupling, Reducing, Compression, Bare, Anode Connector, With One (1) 1-1/4" SDR-11 and One (1) 1" CTS 0.099" Lock Stiffener
	420-PW-10	2" X 1-1/4"	Coupling, Reducing, Compression, Bare, Anode Connector, With One (1) 2" SDR-11 and One (1) 1-1/4" SDR-10 Lock Stiffener
Swagelok Co.	B-1010-6	5/8"	Coupling, Brass
	B-1010-3	5/8"	Tee, Brass
	B-1010-9	5/8"	Ell, 90°, Brass

Note: Use insert stiffener for 5/8" OD (1/2" CTS) X 0.090" wall plastic pipe.

Mechanical Fittings

3.1 Plastic Pipe to Plastic Pipe

The following Honeywell Perfection mechanical fittings are molded with PE4710/PE100 resin (black) and are used with high-density PE3408/3608 (black w/ yellow stripes) piping, and may also be used with medium-density PE2406/2708 (yellow) piping. The Honeywell Perfection fittings are PE4710 plastic, and can be used with both and (black w/ yellow stripes) pipe.

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Wall or SDR</u>	<u>Description</u>
Honeywell Perfection*	PC50100GN	½" CTS	0.090"	Stab coupling
	PC50103GN	1" CTS	0.099"/0.102"	Stab coupling
	PC50035010GN	1-1/4" IPS	10	Stab coupling
	PC50031GN	1-1/4" IPS	11	Stab coupling
	PC50314GN	2" IPS	11	Stab coupling
	PC50149GN	½" CTS X 1" CTS	0.090" X 0.099"/0.102"	Reducing stab coupling
	PC50641GN	1" IPS X ½" CTS	11 X 0.090"	Reducing stab coupling
	PC50623GN	1" IPS X 1" CTS	11 X 0.099"/0.102"	Reducing stab coupling
	PC50192GN	1-1/4" IPS X 1" CTS	10 X 0.099"/0.102"	Reducing stab coupling
	PC50194GN	1-1/4" IPS X 1" CTS	11 X 0.099"/0.102"	Reducing stab coupling
	PC50335100GN	1-1/4" IPS X 1-1/4" IPS	11 X 10	Reducing stab coupling
	PC50312GN	2" IPS X 1" CTS	11 X 0.099"/0.102"	Reducing stab coupling
	PC50333010GN	2" IPS X 1-1/4" IPS	11 X 10	Reducing stab coupling
	PC50334100GN	2" IPS X 1-1/4" IPS	11 X 11	Reducing stab coupling
	PC50294GN	½" CTS	0.090"	Stab ell
	PC51333GN	1" CTS	0.099"/0.102"	Stab ell
	PC50325010GN	1-1/4" IPS	10	Stab ell
	PC50988GN	1-1/4" IPS	11	Stab ell
	PC50315GN	2" IPS	11	Stab ell
	PC50223GN	½" CTS X 1" CTS	0.090" X 0.099"/0.102"	Reducing stab ell
	PC50199GN	½" CTS	0.090"	Stab tee
	PC50292GN	1" CTS	0.099"/0.102"	Stab tee
	PC50327010GN	1-1/4" IPS	10	Stab tee
	PC50989GN	1-1/4" IPS	11	Stab tee
	PC50316GN	2" IPS	11	Stab tee
	PC50336100GN	1-1/4" IPS X 1" CTS	11 X 0.099"/0.102"	Reducing stab tee
	PC50328100GN	1-1/4" IPS X 1" CTS	10 X 0.099"/0.102"	Reducing stab tee
	PC50348100GN	2" IPS X 1" CTS	11 X 0.099"/0.102"	Reducing stab tee
	PC51323100GN	2" IPS X 1-1/4" IPS	11 X 10	Reducing stab tee
	PC51285GN	2" IPS X 1-1/4" IPS	11 X 11	Reducing stab tee
	PC50015GN	½" CTS	0.090"	Stab blind end caps
	PC50048GN	1" CTS	0.099"/0.102"	Stab blind end caps
	PC50024100GN	1-1/4" IPS	10	Stab blind end caps
	PC50028GN	1-1/4" IPS	11	Stab blind end caps
	PC50317GN	2" IPS	11	Stab blind end caps

* Special tools are required for assembly of these products.

NOTE: The same 1" CTS fitting in PE4710 can be used for both 0.099" wall (yellow) and 0.101" wall (black w/ yellow stripes) pipe.

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Mechanical Fittings

3.1 Plastic Pipe to Plastic Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>	<u>Size</u>
Lyal – Hubbell*	LC010B-DER	Coupling	½" CTS (0.090) Wall
	LC030D-DER	Coupling	1" CTS (0.099) Wall
	LC080X-DESR	Coupling	1-1/4" IPS (SDR-10)
	LC200Y-DESR	Coupling	2" IPS (SDR-11)
	LC080X-DER	Repair Coupling	1-1/4" IPS (SDR-10)
	LC200Y-DER	Repair Coupling	2" IPS (SDR-11)
	LC010B-ELR	Elbow	½" CTS (0.090) Wall
	LC030D-ELR	Elbow	1" CTS (0.099) Wall
	LC080X-ELR	Elbow	1-1/4" IPS (SDR-10)
	LC200Y-ELR	Elbow	2" IPS (SDR-11)
	LC030D-3TR	Tee	1" CTS (0.099)
	LC080X-3TR	Tee	1-1/4" (SDR-10)
	LC200Y-3TR	Tee	2" IPS (SDR-11)
	LC030D010B-RR	Reducing Coupling	1" CTS (0.099) X ½" CTS (0.099)
	LC070Y030D-RR	Reducing Coupling	1" IPS (SDR-11) X 1" CTS (0.099)
	LC010B-ECR	End Cap	½" CTS (0.090)
	LC070Y-ECR	End Cap	1" IPS (SDR-11)
	LC080X-ECR	End Cap	1-1/4" IPS (SDR-10)
	LC200Y-ECR	End Cap	2" IPS (SDR-11)

* Special tools are required for assembly of these products.

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Mechanical Fittings

3.1 Plastic Pipe to Plastic Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Wall or SDR</u>	<u>Description</u>
Hubbell – Continental (Con-Stab ID only)	3259-52-1004-00	½" CTS	0.090"	Coupling
	3259-52-1008-00	1" CTS	0.099/0.101"	Coupling
	3259-52-1014-00	1" IPS	11	Coupling
	3259-52-1015-00	1-1/4" IPS	10	Coupling
	3259-52-1015-AA	1-1/4" IPS	11	Coupling
	3259-52-1017-00	2" IPS	11	Coupling
	3259-54-0804-00	½" CTS X 1" CTS	0.090" X 0.099"/0.101"	Reducing Coupling
	3259-54-1404-00	1" IPS X ½" CTS	11 X 0.090"	Reducing Coupling
	3259-54-1408-00	1" IPS X 1" CTS	11 X 0.099"/0.101"	Reducing Coupling
	3259-54-1508-00	1-1/4" IPS X 1" CTS	10 X 0.099"/0.101"	Reducing Coupling
	3259-54-1508-A0	1-1/4" IPS X 1" CTS	11 X 0.099"/0.101"	Reducing Coupling
	3259-54-1514-00	1-1/4" IPS X 1" IPS	10 X 11	Reducing Coupling
	3259-54-1708-00	2" IPS X 1" CTS	11 X 0.099"/0.101"	Reducing Coupling
	3259-54-1715-00	2" IPS X 1-1/4" IPS	11 X 10	Reducing Coupling
	3259-51-1004-00	½" CTS	0.090"	EII
	3259-51-1008-00	1" CTS	0.099/0.101"	EII
	3259-51-1014-00	1" IPS	11	EII
	3259-51-1015-00	1-1/4" IPS	10	EII
	3259-51-1017-00	2" IPS	11	EII
	3259-50-1004-00	½" CTS	0.090"	3-Way Tee
	3259-50-1008-00	1" CTS	0.099/0.101"	3-Way Tee
	3259-50-1014-00	1" IPS	11	3-Way Tee
	3259-50-1015-00	1-1/4" IPS	10	3-Way Tee
	3259-50-1017-00	2" IPS	11	3-Way Tee
	3259-49-0804-00	1" CTS X ½" CTS	0.099/0.101" X 0.090"	Reducing Tee
	3259-49-1508-00	1-1/4" IPS X 1" CTS	10 X 0.099/0.101"	Reducing Tee
	3259-49-1708-00	2" IPS X 1" CTS	11 X 0.099/0.101"	Reducing Tee
	3259-57-1004-00	½" CTS	0.090"	Cap-n-Go
	3259-57-1008-00	1" CTS	0.099/0.101"	Cap-n-Go
	3259-57-1015-00	1-1/4" IPS	10	Cap-n-Go
	3259-57-1015-AA	1-1/4" IPS	11	Cap-n-Go
	3259-57-1017-00	2" IPS	11	Cap-n-Go
	3259-53-1004-00	½" CTS	0.090"	End Cap
	3259-53-1008-00	1" CTS	0.099/0.101"	End Cap
	3259-53-1015-00	1-1/4" IPS	10	End Cap
	3259-53-1015-AA	1-1/4" IPS	11	End Cap
	3259-53-1017-00	2" IPS	11	End Cap
	0459-56-1200-00	½" CTS	0.090" X 12" long	Repair Coupling
	0859-56-1200-00	1" CTS	0.099/0.101" X 12" long	Repair Coupling
	3238-14-4415-00	1-1/4" IPS	10 X 14" long	Repair Coupling
	3238-14-4415-AA	1-1/4" IPS	11 X 14" long	Repair Coupling
	3238-14-4417-00	2" IPS	11 X 14" long	Repair Coupling

Mechanical Fittings

3.2 Steel Pipe to Plastic Pipe

<u>Manufacturer</u>	<u>Part Number</u>	<u>Size</u>		<u>Description</u>
		<u>Steel Pipe</u>	<u>Plastic Pipe</u>	
Dresser	0090-5105-636	1-1/4"	1-1/4"	Coupling, Compression, Lock Nut Steel End, Plasti-Lok, *Coated, with SDR-10 Insert Stiffener Other End
	0090-5106-636	1-1/4"	1-1/4"	Coupling, Compression, Lock Nut Steel End, Plasti-Lok, *Coated, with SDR-11 Insert Stiffener Other End
	0090-5110-636	2"	2"	Coupling, Compression, Lock Nut Steel End, Plasti-Lok, *Coated, with SDR-11 Insert Stiffener Other End
	* E-Coat Primer Coated.			
Normac	406-A-LA-01	1"	1" CTS	Coupling, Reducing, Compression, Bare, Lock Ends, With One 1" CTS 0.099" Integral Stiffener, Bare
	87-BA-LA-101	1-1/4"	1" CTS	Ell, Reducing, 90°, Compression, Lock Ends, With One 1" CTS 0.099" Integral Stiffener, Bare

Note: Other Normac sizes for steel-to-plastic connections over 1" can be found under the listing for Normac plastic-to-plastic fittings. To convert one end for use on steel pipe, merely remove the stiffener and lock ring from one end.

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Mechanical Fittings

3.3 Steel Pipe to Steel Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Normac	2-SLBT	1"	Coupling, Compression, Bare
	407-SLBT	1-1/4" X 1"	Coupling, Reducing, Compression, Bare
	79-SLBT	1"	Ell, 90°, Compression, Bare
	87-B-SLBT	1-1/4" X 1"	Ell, 90°, Reducing, Compression, Bare
Note: Other Normac sizes for steel-to-steel connections over 1" can be found under the listing for Normac plastic-to-plastic fittings. To convert fittings for use on steel pipe, merely remove the stiffeners and lock rings.			
Dresser	0090-5001-632	3/4"	Coupling, Style 90, Compression, Lock Type, *Coated
	0090-5002-632	1"	Coupling, Style 90, Compression, Lock Type, *Coated
	0090-5003-632	1-1/4"	Coupling, Style 90, Compression, Lock Type, *Coated
	0090-5016-632	1" X 3/4"	Coupling, Reducing, Style 90, Compression, Lock Type, *Coated
	0090-5017-632	1-1/4" X 3/4"	Coupling, Reducing, Style 90, Compression, Lock Type, *Coated
	0090-5018-632	1-1/4" X 1"	Coupling, Reducing, Style 90, Compression, Lock Type, *Coated
	0090-5214-632	3/4"	Ell, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5216-632	1"	Ell, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5218-632	1-1/4"	Ell, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5277-632	3/4"	Ell, Street, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5279-632	1"	Ell, Street, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5281-632	1-1/4"	Ell, Street, 90°, Style 90, Compression, Lock Type, *Coated
	0090-5377-632	3/4"	Tee, Style 90, Compression, Lock Type, *Coated
	0090-5379-632	1"	Tee, Style 90, Compression, Lock Type, *Coated
	0090-5381-632	1-1/4"	Tee, Style 90, Compression, Lock Type, *Coated

* E-Coat Primer Coated.

Mechanical Fittings

3.4 Plastic Pipe to Copper Pipe

<u>Manufacturer</u>	<u>Part Number</u>	<u>Size</u>		<u>Description</u>
		<u>Steel</u> <u>Pipe</u>	<u>Plastic</u> <u>Pipe</u>	
Swagelok Co.	B-1010-6	5/8" X 5/8"		Coupling, Brass
	B-1010-6-6	5/8" X 3/8"		Coupling, Reducing, Brass
	SS-1010-3-10-6	5/8" X 5/8" X 3/8"		Tee, Reducing, Stainless Steel
Lvall – Hubbell				
*Lycofit	LC375010B-GCR	5/8" (1/2" CTS) X 3/8"		Coupling, Reducing

* Special tools required to install.

Note: Use insert stiffener for 5/8" (1/2" CTS) 0.090" wall plastic pipe.

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Mechanical Fittings

3.5 Bolted Couplings Steel/Steel; Steel/Plastic; Plastic/Plastic

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Smith Blair – Xylem	EZ18A7UMG	1-1/4"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector. Order stiffeners separately. See Part Numbers below.
	EZ218C7UMG	2" X 1-1/4"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector. Order stiffeners separately. See Part Numbers below.
	EZ28B7UMG	2"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector. Order stiffeners separately. See Part Numbers below.

Stiffeners for use with Smith Blair – Xyleme Products:

C-1286-8	1-1/4" IPS SDR-10
C-1312-8	1-1/4" IPS SDR-11
C-1900-8	2" IPS SDR-11

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Mechanical Fittings

3.5 Bolted Couplings Steel/Steel; Steel/Plastic; Plastic/Plastic

<u>Manufacturer</u>		<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Dresser	Steel/Steel	0711-9001-201	1-1/4"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector, with Stiffener(s) for use with SDR-10 plastic pipe.
	Steel/Plastic	0711-9031-201		
	Plastic/Plastic	0711-9034-201		
	Steel/Steel	0711-9001-201	1-1/4"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector, with Stiffener(s) for use with SDR-11 plastic pipe.
	Steel/Plastic	0711-9032-201		
	Plastic/Plastic	0711-9035-201		
	Steel/Steel	0711-9002-201	2"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector, with Stiffener(s) for 2" IPS SDR-11 plastic pipe.
	Steel/Plastic	0711-9033-201		
	Plastic/Plastic	0711-9036-201		
		0711-9026-201	1-1/4" X 2"	Coupling, Universal, Bolted, Lock Style, 7" Middle Ring, Conductive Gaskets, Epoxy Coated, with Anode Connector. Stiffeners separate, use Part Number below.

Stiffeners for Dresser Couplings:

2700-1104-003	1-1/4" IPS SDR-10	Stiffener, Steel, 7" long
2700-0105-001	1-1/4" IPS SDR-11	Stiffener, Steel, 7" long
2700-0109-001	2" IPS SDR-11	Stiffener, Steel, 7" long

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Mechanical Fittings

3.6 Bolt-on Saddle Tees (Plastic)

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
Lycall – Hubbell	LC200030D-TT	1" CTS X 2" IPS	Lycofit Mechanical Tapping Tee
	LC200010B-TT	½" CTS X 2" IPS	Lycofit Mechanical Tapping Tee

Note: Lycofit Fittings requires special tooling for installation.

Meter Settings

4.1 Single Prefabricated Setting

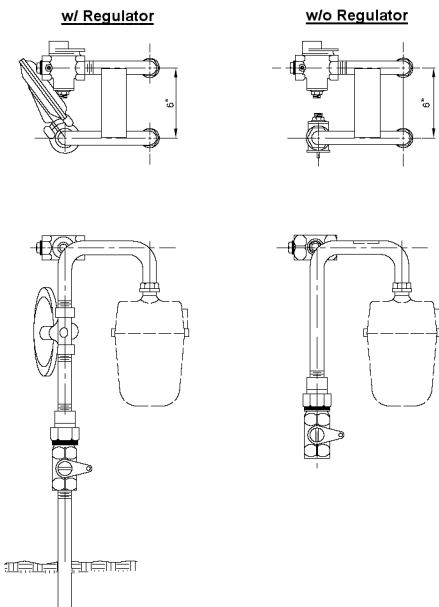
Prefabricated meter settings must be made to Columbia Gas' design and the manufacturer identified on the meter bar.

Single Domestic Meter Settings

All domestic meter settings are 1" with 20 LT connections for domestic Class 250 meters.

Columbia Part No.	Outlet Connection	Description
<u>Greater than 1 psig inlet pressure – with regulator</u>		
Union		
44-84-250		Meter set, 3/16" orifice for 60 psig inlet max., 7" w.c. outlet pressure (S-1310)
44-84-250L		Meter set, 3/16" orifice for 60 psig inlet max., 7" w.c. outlet pressure, with insulated tailpiece on inlet meter stop (S-1310)
44-84-252		Meter set, 3/16" orifice for 60 psig inlet max., 2# outlet pressure (S-1310)
44-84-253		Meter set, 1/8" orifice for 99 psig inlet max., 7" w.c. outlet pressure (S-1310)
44-84-257		Meter set, 1/8" orifice for 99 psig inlet max., 2# outlet pressure (S-1310)
Stop w/ insulated union		
44-84-256		Meter set, 3/16" orifice for 60 psig inlet max., 7" w.c. outlet pressure (S-1311)
44-84-254		Meter set, 3/16" orifice for 60 psig inlet max., 2# outlet pressure (S-1311)
44-84-270		Meter set, 1/8" orifice for 99 psig inlet max., 7" w.c. outlet pressure (S-1311)
44-84-275		Meter set, 1/8" orifice for 99 psig inlet max., 2# outlet pressure (S-1311)
<u>Less than 1 psig inlet pressure – without regulator</u>		
Union		
44-84-248		Meter set, less regulator (S-1360)
44-84-249		Meter set, less regulator, extended length for uprating (S-1360U)
Stop w/ insulated union		
44-84-246		Meter set, less regulator (S-1361)
44-84-263		Meter set, less regulator, extended length for uprating (S-1361U)

Approved Manufacturers	Part No.
Central Plastics	Same as Columbia Part No.
Lyall – Mechanical Specialties	Same as Columbia Part No.
Reliable Manufacturing	Same as Columbia Part No.
UPSCO, Inc.	U70540 (44-84-246) U70535 (44-84-248) U70538 (44-84-249) U70536 (44-84-250) U70539 (44-84-250L) U70537 (44-84-252) U70542 (44-84-253) U70546 (44-84-254) U70541 (44-84-256) U70547 (44-84-257) U70545 (44-84-263) U70543 (44-84-270) U70544 (44-84-275)



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Meter Settings

4.1 Single Prefabricated Setting

Prefabricated meter settings must be made to Columbia Gas' design and the manufacturer identified on the meter bar.

Large Volume (LV) Meter Settings

All LV meter settings are 1 1/4" with 30 LT connections for Class 425/630 meters.

<u>Columbia Part No.</u>	<u>Outlet Connection</u>	<u>Description</u>
<u>Greater than 1 psig inlet pressure – with regulator</u>		
	Union	
44-84-600		Meter set, 5/16" orifice for 60 psig inlet max., 7" w.c. outlet pressure (S-1390)
	Stop w/ insulated union	
44-84-601		Meter set, 5/16" orifice for 60 psig inlet max., 7" w.c. outlet pressure (S-1390)
<u>Less than 1 psig inlet pressure – without regulator</u>		
	Union	
44-84-602		Meter set, less regulator (S-1391)
	Stop w/ insulated union	
44-84-603		Meter set, less regulator (S-1391)

<u>Approved Manufacturers</u>	<u>Part No.</u>
Central Plastics	Same as Columbia Part No.
Lyall – Mechanical Specialties	Same as Columbia Part No.

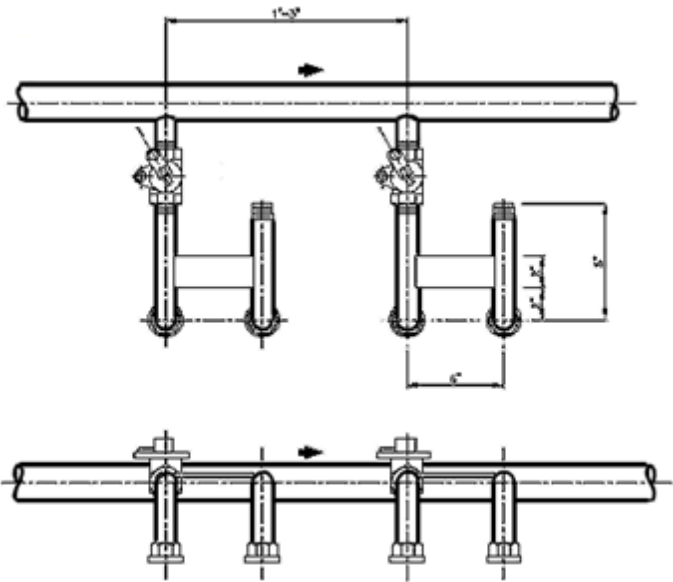
Meter Settings

4.2 Manifold Prefabricated Setting

Prefabricated meter settings must be made to Columbia Gas' design and the manufacturer identified on the meter bar.

<u>Manifold Domestic Meter Settings</u>	<u>Part No.</u>	<u>Size</u>	<u>Description</u>
	44-84-012	1-1/4"	2-meter manifold
	44-84-014	1-1/4"	3-meter manifold
	44-84-016	1-1/4"	4-meter manifold

<u>Approved Manufacturers</u>	<u>Part No.</u>
Central Plastics	44-84-012 44-84-014 44-84-016
UPSCO, Inc.	U70539 (44-84-012) U70540 (44-84-014) U70541 (44-84-016)



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Meter Settings

4.3 Cast Meter Bars

Cast meter bars must comply with the company's specifications.

The manufacturers and models listed are those commonly used. Other manufacturers may be substituted if the specifications are met.

Specification: Meter bar, pre-cast, side inlet and top outlet, insulated union on outlet.



<u>Manufacturer</u>	<u>Part #</u>	<u>Size</u>	<u>Center-to-Center</u>
Mueller	701115	1"	6-1/2"
Mueller	701127	1-1/4"	7"
Richards Mfg	MBST-1-1-1-FI	1"	6-1/2"
Richards Mfg	MBST7-1-1/4-FI	1-1/4"	7"

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Setting Valves

5.1 Meter Stop, Insulating Union Outlet, 1/8" Test Port, Lockwing Head

<u>Manufacturer</u>	<u>Size</u>	<u>Manufacturer's Designation</u>	<u>Manufacturer's Rated Working Pressure (psig)</u>	<u>Tailpiece Outlet Connection*</u>
Dresser	3/4"	0275-0054-002	175	FIPS
	1"	0275-0056-001**	175	FIPS
	1-1/4"	0275-0058-002	175	FIPS
A. Y. McDonald Mfg. Co.	3/4"	6276BC	175	FIPS
	1"	6276BC	175	FIPS
	1-1/4"	6276BC	175	FIPS
Mueller	3/4"	H-11179	175	FIPS
	1"	H-11179	175	FIPS
	1-1/4"	H-11179	175	FIPS

* MIPS approved but not listed.

** No test port.

MATERIALS FOR CUSTOMER SERVICE LINES - CDC

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Setting Valves

5.2 Meter Stop, No Union End, 1/8" Test Port, Lockwing Head (except as noted)

<u>Manufacturer</u>	<u>Size</u>	<u>Manufacturer's Designation</u>	<u>Rate Working Pressure (psig)</u>	<u>Manufacturers Connection</u>	<u>Additional Comments</u>
Mueller	3/4"	H-11175	175	FIPS	
	1"	H-11175	175	FIPS	
Dresser	3/4"	0275-0026-001	175	FIPS	No test port
	1"	0275-0028-002	175	FIPS	
	1-1/4"	0275-0029-002	175	FIPS	
	1-1/2"	0175-0004-001	175	FIPS*	No test port, no lock wing head
	2"	0175-0005-009	175	FIPS*	
A. Y. McDonald Mfg. Co.	3/4"	560BC	175	FIPS	
	1"	560BC	175	FIPS	
	1-1/4"	560BC	175	FIPS	
	1-1/2"	560BC	175	FIPS	
	2"	560BC	175	FIPS	
Flowserve – Nordstrom Valves	2"	Fig. No. 142	200	FIPS*	No test port, no lock wing head

* Locking device available.

Meter valves with male outlet connection are approved, but not listed.

Setting Valves

5.3 Butterfly Valves

Butterfly valves installed in the company's system shall be rated for "dead-end" service.

<u>Manufacturer</u>	<u>Size</u>	<u>Manufacturer's Designation</u>	<u>Rate Working Pressure (psig)</u>	<u>Additional Comments</u>
Nibco	2"	LD-3110	250	Ductile-iron threaded-lugged body, buna-N seats, with gear actuator
	3"	LD-3110	250	Ductile-iron threaded-lugged body, buna-N seats, with gear actuator
	4"	LD-3110	250	Ductile-iron threaded-lugged body, buna-N seats, with gear actuator
	6"	LD-3110	250	Ductile-iron threaded-lugged body, buna-N seats, with gear actuator
	8"	LD-3110	250	Ductile-iron threaded-lugged body, buna-N seats, with gear actuator

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Sleeves for Masonry Wall Entrances

6.1 Compression Nut Wall Sleeve Seals

Contains nuts and gaskets only. Threaded *pipe (sleeve) not included.

<u>Manufacturer</u>	<u>Part No.</u>	<u>Size</u> (Steel Carrier Pipe X Sleeve*)
Normac	101	1/2" X 1"
	102	3/4" X 1-1/4"
	103	1" X 1-1/2"
	104-B	1-1/4" X 2"

* Sleeve may be plastic or steel.

Protective Coating Systems and Cathodic Protection Materials

7.1 Approved Mill Applied Pipe Coatings

<u>Coating Type</u> <u>Manufacturer</u>	<u>Designation</u>	<u>Qualified Applicators</u>
Epoxy Type Coating		
The Sherwin-Williams Company	Pipeclad 2000	Consolidated Dura-Bond Pipe
3M	Scotchkote 206N, Fast, Slow & STD	L. B. Foster Co. Midwest Piping Coating, Inc. Bredero Price Co. Dura-Bond Pipe
Denso North America	Protal 7125 Protal 7200 Protal ST	

Protective Coating Systems and Cathodic Protection Materials
7.2 Tape Coatings

Cold applied laminated tapes may be used for this purpose. The use of tape as an entire pipe coating system is discouraged.

APPROVED COATINGS FOR FITTINGS AND JOINTS, AND REPAIR OF DAMAGED PIPE COATINGS

<u>Manufacturer</u>	<u>Designation</u>	<u>Primer</u>
COLD APPLIED LAMINATED TAPES		
Chase Corporation – Tapecoat	Tapecoat H35/H50	TC Omniprime
Dura-Bond Pipe	Polyken 930	Polyken 1027

Protective Coating Systems and Cathodic Protection Materials

7.3 Coatings for Valves and Fittings

The use of mastics is no longer allowed by the Gas Company.

FACTORY APPLIED COATINGS FOR VALVES AND FITTINGS

<u>Manufacturer</u>	<u>Designation</u>
Robroy Industries	Plasti-Bond
Dresser	Al-Clad System Plastisol E-Coat
3M Co.	Scotchkote #306
Chase Corporation – Royston Laboratories	Roskote 201

Protective Coating Systems and Cathodic Protection Materials

7.4 Sacrificial Anodes

MAGNESIUM ANODES

Magnesium anodes must comply with the composition specifications listed in the Columbia Gas Distribution Companies, Index of Material Standards, Section 2, Magnesium Anodes. Manufacturers who produce anodes to those specifications are listed below.

Manufacturer

International Metals
Dow Chemical
US Magnesium

Risers

8.1 Steel Risers (Pre-bent)*

This style of riser has been discontinued.

Risers

8.2 Flexible Risers Less Plastic Carrier Pipe

This style of riser has been discontinued.

Risers

8.3 Flexible and Stub Flex Risers With Plastic Carrier Pipe

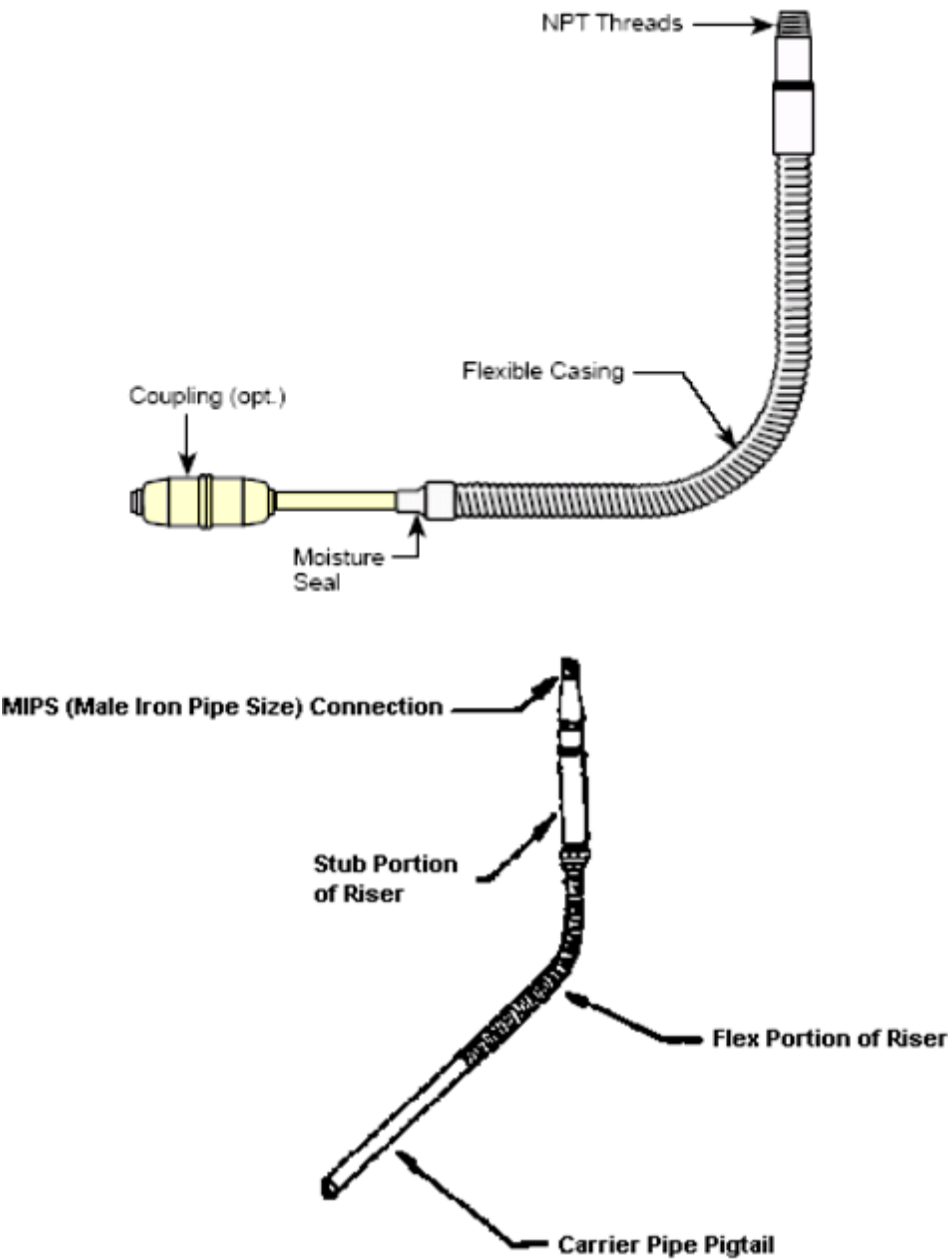
<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Honeywell Perfection	PG77735GN	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.099" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Perma-Sert Coupling End
	PG77736GN	½" CTS X 1" MIPS, 36" Long Flex Riser with ½" CTS (0.090" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Perma-Sert Coupling End
	PG77737GN	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (SDR 10) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Perma-Sert Coupling End
	PM75599GN	1" CTS X 1" MIPS, Stub-Flex Riser, 16" Stub X 30" Flex, Grey Epoxy Coated Stub, with 1" CTS (0.099" Wall) Medium-Density Yellow Plastic Tubing with Perma-Sert Coupling End
	PM75420100GN	½" CTS X 1" MIPS, Stub-Flex Riser, 19-1/4" Stub X 36" Flex, Grey Epoxy Coated Stub, with ½" CTS (0.090" Wall) Medium-Density Yellow Plastic Tubing and Perma-Sert Coupling End
	PG77734GN	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.101" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Perma-Sert Coupling End
	77734010GN	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.101" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Plain End
	77739010GN	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (SDR 11) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Plain End
Energy Control Systems Inc.	FR-13MTX11BF24-36*	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.099" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Plain-End Pigtail
	FR-13MTX11CS24-36*	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.099" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and ConStab Coupling
	FR-13MTX11SS24-36*	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.099" Wall), Medium-Density Yellow Plastic Tubing, Moisture Seal, Factory Made Fusion Joint, and ConStab Coupling
	FR-13MTX06BF24-36*	½" CTS X 1" MIPS, 36" Long Flex Riser with ½" CTS (0.090" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Plain-End Pigtail
	FR-13MTX06CS24-36*	½" CTS X 1" MIPS, 36" Long Flex Riser with ½" CTS (0.090" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and ConStab Coupling
	FR-16MTX16BF24-36*	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (0.090" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Plain-End Pigtail
	FR-16MTX16CS24-36*	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (0.090" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and ConStab Coupling

Risers

FR-13MTX11BF34-36*	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.101" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Plain-End Pigtail
FR-13MTX11CS34-36*	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.101" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and ConStab Coupling
FR-13MTX06BF34-36*	½" CTS X 1" MIPS, 36" Long Flex Riser with ½" CTS (0.090" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Plain-End Pigtail
FR-13MTX06CS34-36*	½" CTS X 1" MIPS, 36" Long Flex Riser with ½" CTS (0.090" Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and ConStab Coupling
FR-16MTX16BF34-36*	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (SDR11) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and Plain-End Pigtail
FR-16MTX16CS34-36*	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (SDR11) High-Density Black w/ Yellow Stripes Plastic Tubing, Moisture Seal, and ConStab Coupling
Central Plastics 360011031	1-1/4" IPS X 1-1/4" MIPS, 36" Long Flex Riser with 1-1/4" IPS (SDR-10) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Plain-End Pigtail
360011029	1" CTS X 1" MIPS, 36" Long Flex Riser with 1" CTS (0.099" Wall) Medium-Density Yellow Plastic Tubing, Moisture Seal, and Plain-End Pigtail

* Additional numbers/letters appended to this part number indicate bracket options.

Risers



Risers

8.4 Steel Encased Pre-bent Risers Less Plastic Carrier Pipe

This style of riser has been discontinued.

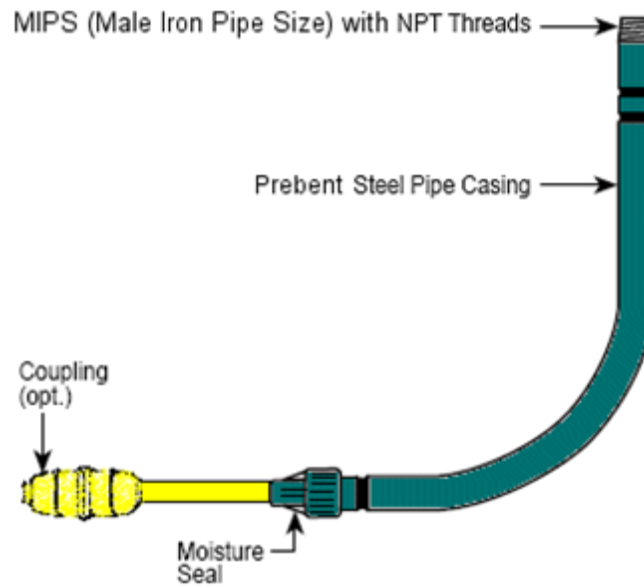
Risers

8.5 Steel Encased Pre-bent Risers With Plastic Carrier Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Honeywell Perfection	PG75270GN	1" CTS (0.099" Wall) X 1" MIPS Pre-bent Steel Riser, 28" Vertical Leg X 27" Horizontal Leg, Grey Epoxy Coating, Single Seal, Moisture Seal, Medium-Density Yellow Plastic, Permasert End
	75313GN	1" CTS (0.099" Wall) X 1" MIPS Pre-bent Steel Riser, 28" Vertical Leg X 27" Horizontal Leg, Grey Epoxy Coating, Single Seal, Moisture Seal, Medium-Density Yellow Plastic, Plain End
	75900GN	1-1/4" (SDR-10) X 1-1/4" MIPS Pre-bent Steel Riser, 30" Vertical Leg X 24" Horizontal Leg, Grey Epoxy Coating, Single Seal, Moisture Seal, Medium-Density Yellow Plastic, Plain End
	PG75901GN	1-1/4" (SDR-10) X 1-1/4" MIPS Pre-bent Steel Riser, 30" Vertical Leg X 24" Horizontal Leg, Grey Epoxy Coating, Single Seal, Moisture Seal, Medium-Density Yellow Plastic, Permasert End
Energy Control Systems	PR-13MTX11BF24-3017	1" CTS x 1" MIPS, Pre-Bent Anode-Less Riser, 1" CTS (.099" Wall) Medium-Density Yellow Plastic Tubing, 30" V X 17" H, Powder Coated, Pigtail End Pigtail
	PR-13MTX11SS24-3017	1" CTS x 1" MIPS, Pre-Bent Anode-Less Riser, 1" CTS (.099" Wall) Medium-Density Yellow Plastic Tubing, 30" V X 17" H, Powder Coated, Factory Made Fusion Joint, ConStab Coupling
	PR-16MTX16BF24-3022	1-1/4" (SDR-10) x 1-1/4" MIPS, Pre-Bent Anode-Less Riser, Medium Density Yellow Plastic Tubing, 30" V X 22" H, Powder Coated, Pigtail End Pigtail
	PR-16MTX16CS24-3022	1-1/4" (SDR-10) x 1-1/4" MIPS, Pre-Bent Anode-Less Riser, Medium-Density Yellow Plastic Tubing, 30" V X 22" H, Powder Coated, Pigtail Factory Made Fusion Joint, ConStab Coupling
	PR-13MTX11BF34-3017	1" CTS x 1" MIPS, Pre-Bent Anode-Less Riser, 1" CTS (.099/.101 Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, 30" V X 17" H, Powder Coated, ConStab Coupling
	PR-13MTX11CS34-3017	1" CTS x 1" MIPS, Pre-Bent Anode-Less Riser, 1" CTS (.099/.101 Wall) High-Density Black w/ Yellow Stripes Plastic Tubing, 30" V X 17" H, Powder Coated, Constab End
	PR-16MTX16BF34-3022	1-1/4" (SDR-11) x 1-1/4" MIPS, Pre-Bent Anode-Less Riser, High-Density Black w/ Yellow Stripes Plastic Tubing, 30" V X 22" H, Powder Coated, Pigtail End Pigtail
	PR-16MTX16CS34-3022	1-1/4" (SDR-11) x 1-1/4" MIPS, Pre-Bent Anode-Less Riser, High-Density Black w/ Yellow Stripes Plastic Tubing, 30" V X 22" H, Powder Coated, Pigtail Factory Made Fusion Joint, ConStab Coupling

Risers

8.5 Steel Encased Pre-bent Risers With Plastic Carrier Pipe



Risers

8.6 Steel Encased Straight Risers With Plastic Carrier Pipe

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
Honeywell Perfection	75905GN	2" (SDR-11) X 2" MIPS Straight Steel Riser, Grey Epoxy Coated, 32" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 8" Plain End Pigtail
	75905010GN	2" (SDR-11) X 2" MIPS Straight Steel Riser, Grey Epoxy Coated, 32" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 8" Plain End Pigtail
	75906GN	2" (SDR-11) X 2" MIPS Straight Steel Riser, Grey Epoxy Coated, 32" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 8" Perma-Sert End Pigtail
	75911GN	2" (SDR-11) X 2" MIPS Straight Steel Riser w/Two 3/8-16 X 1-1/2" Welded Studs, Grey Epoxy Coated, 32" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 8" Plain End Pigtail
	78530GN	3" (SDR-11.5) X 3" IPS Weld End Straight Steel Riser, Grey Epoxy Coated, 33" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 6" Plain End Pigtail
	78531GN	3" (SDR-11.5) X 3" MIPS Straight Steel Riser, Grey Epoxy Coated, 27" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 6" Plain End Pigtail
	78565GN	4" (SDR-11.5) X 4" IPS Weld End Straight Steel Riser, Grey Epoxy Coated, 48" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 6" Plain End Pigtail
	78565010GN	4" (SDR-11) X 4" IPS Weld End Straight Steel Riser, Grey Epoxy Coated, 48" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 6" Plain End Pigtail
	78566GN	4" (SDR-11.5) X 4" MIPS Straight Steel Riser, Grey Epoxy Coated, 27" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 6" Plain End Pigtail
Energy Control Systems	SR-1MPTX1BF-2406-10	1-1/4" (SDR-10) MDPE X 1-1/4" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-1MPTX1CS-2406-10	1-1/4" (SDR-10) MDPE X 1-1/4" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Pigtail Con-Stab End, Epoxy Coated, Moisture Seal
	SR-2MPTX2BF-2406-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-2RFGX2BF-2406-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic Butt Fusion Ell, 12" Plain End Pigtail, Powder Coated, Moisture Seal
	SR-2MPTX2CS-2406-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Pigtail Con-Stab End, Epoxy Coated, Moisture Seal

Risers

<u>Manufacturer</u>	<u>Part No.</u>	<u>Description</u>
	SR-2RFGX2CS-2406-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic Butt Fusion Ell, 12" Pigtail Con-Stab End, Powder Coated, Moisture Seal
	SR-3MPTX3BF-2406-115	3" (SDR-11.5) MDPE X 3" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-3RFGX3BF-2406-115	3" (SDR-11.5) MDPE X 3" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic Butt Fusion Ell, 12" Plain End Pigtail, Powder Coated, Moisture Seal
	SR-3WEPX3BF-2406-115	3" (SDR-11.5) MDPE X 3" Weld-End Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-4MPTX4BF-2406-115	4" (SDR-11.5) MDPE X 4" MIPS Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-4RFGX4BF-2406-115	4" (SDR-11.5) MDPE X 4" MIPS Straight Steel Riser, 30" Length, Medium Density Yellow Plastic Butt Fusion Ell, 12" Plain End Pigtail, Powder Coated, Moisture Seal
	SR-4WEPX4BF-2406-115	4" (SDR-11.5) MDPE X 4" Weld-End Straight Steel Riser, 30" Length, Medium-Density Yellow Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-1MPTX1BF-3408-11	1-1/4" (SDR-11) MDPE X 1-1/4" MIPS Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-1MPTX1CS-3408-11	1-1/4" (SDR-11) MDPE X 1-1/4" MIPS Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Pigtail Con-Stab End, Epoxy Coated, Moisture Seal
	SR-2MPTX2BF-3408-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-2MPTX2CS-3408-11	2" (SDR-11) MDPE X 2" MIPS Straight Steel Riser, 30" Length High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Pigtail Con-Stab End, Epoxy Coated, Moisture Seal
	SR-3MPTX3BF-3408-11	3" (SDR-11) MDPE X 3" MIPS Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-3WEPX3BF-3408-11	3" (SDR-11) MDPE X 3" Weld-End Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-4MPTX4BF-3408-11	4" (SDR-11) MDPE X 4" MIPS Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal
	SR-4WEPX4BF-3408-11	4" (SDR-11) MDPE X 4" Weld-End Straight Steel Riser, 30" Length, High-Density Black w/ Yellow Stripes Plastic, Butt Fusion Ell, 12" Plain End Pigtail, Epoxy Coated, Moisture Seal

Risers



Mobile Home Gas Connectors

9.1 Approved Flexible and Corrugated Tubing

Mobile (Manufactured) Home Gas connectors shall be UL listed and in conformance with the current edition of either the National Fuel Gas Code (ANSI Z223.1 / NFPA 54) or the International Fuel Gas Code (ICC) as specified by Title 24 HUD.

Manufacturers of Approved Materials

10.1 Contact Information

3M Electrical Markets Division 3M Center St. Paul, MN 55144-1000 888-364-3577 http://www.3m.com/	Dura-Bond Pipe 5 N. Linden Street Duquesne, PA 15110 412-436-2411 http://www.dura-bond.com/	Honeywell Perfection 208 S. Rogers Lane Raleigh, NC 27610 866-554-9007 https://process.honeywell.com/us/en/home
A. Y. McDonald Mfg. Company 4800 Chavenelle Road P.O. Box 508 Dubuque, IA 52002 800-292-2737 http://www.aymcdonald.com/	Dresser Pipeline Solutions 41 Fisher Avenue Bradford, PA 16701 814-362-9300 http://www.dresserutility.com/	JM Eagle (USPoly) 5200 West Century Blvd Los Angeles, CA 800-621-4404 http://www.jmeagle.com/
Bredero Price Company Division of Dresser Industries 3100 East 31st Street P.O. Box 1008 Lorain, OH 44055 440-277-7233	Endot Industries, Inc. 60 Green Pond Road Rockaway, NJ 07866 800-443-6368 http://www.endot.com/	Kerotest Manufacturing Corp. 5500 Second Avenue Pittsburgh, PA 15207 412-521-4200 http://www.kerotest.com/
Chase Corporation 375 University Avenue Westwood, MA 02090 781-332-0700 http://www.chasecorp.com/	Energy Control Systems, Inc. 101 Hafner Avenue Pittsburgh, PA 15223 800-274-8501 http://www.ecsi4gas.com/index.html	Koppers Industries, Inc. Koppers Building 436 7th Avenue Pittsburgh, PA 15219 412-227-2001 http://www.koppers.com/
Copperhead Industries 9530 Fallon Avenue NE P.O. Box 1081 Monticello, MN 55362 877-726-5644 http://www.copperheadwire.com/	Flowserve – Nordstrom Valves 1511 Jefferson Street Sulphur Springs, TX 75482 903-885-4691 http://www.flowserve.com/en/products/brands/nordstrom/	L.B. Foster Company Utilities Coating Plant 1195 Salt Springs Road Mineral Ridge, OH 44440 330-652-1461 http://www.lbfoster.com/
Cresline Plastic Pipe Co, Inc. 2100 South 35th Street Council Bluffs, IA 51501 712-322-2294 http://www.cresline.com/	Georg Fischer Central Plastics 39605 W Independence St Shawnee, Oklahoma 74804 800-654-3872 http://www.centralplastics.com/	Lyall – Mechanical Specialties 16875 West Ryerson Rd. New Berlin, WI 53151 262-784-8180 https://www.hubbell.com/lyall/en
Denso North America 9747 Telge Road Houston, TX 77095 281-821-335 http://www.densona.com/	Hubbell – Continental Industries 21808 OK-51 Broken Arrow, OK 74014 800-558-1373 http://www.hubbell.com/continentalindustries/en	Lyall – Hubbell 2665 Research Drive Corona, CA 92882 800-558-1373 https://www.hubbell.com/lyall/en

Manufacturers of Approved Materials

10.1 Contact Information

Midwest Pipe & Rebar Coating, Inc.

925 Kennedy Avenue
Schererville, IN 46375
219-322-4564
<http://www.midwestpiperebar.com/>

Mueller Company

500 West Eldorado Street
P.O. Box 671
Decatur, IL 62525
800-798-3131
<https://www.muellergas.com/>

Parker-Hannifin Corp.

~~Instrumentation Connector Division~~

NIBCO, Inc.
1516 Middlebury Street
P.O. Box 1167
Elkhart, IN 46515
<https://www.nibco.com/>
~~P.O. Box 4288~~
~~Huntsville, AL 35802-4288~~
~~205-881-2040~~
~~<http://www.parker.com/>~~

NORMAC

2570 Kaneville Court
P.O. Box 588
Geneva, IL 60134-0588
630-232-8111
<http://www.nortonmcmurray.com/>

Oil Creek Plastics, Inc.

East Titusville
P.O. Box 385
Titusville, PA 16354
814-827-3661
<http://www.oilcreek.com/>

Parker-Hannifin Corp.

Instrumentation Connector Division
Huntsville, AL 35802-4288
205-881-2040
<http://www.parker.com/>

Performance Pipe

5085 West Park Blvd., Suite 500
P.O. Box 269006
Plano, TX 75026
800-527-0662
<https://www.cpchem.com/what-we-do/solutions/performance-pipe>

Raychem Corporation

300 Constitution Drive
Menlo Park, CA 94025
415-361-5554
<http://www.raychem.com/>

Reilly Industries, Inc.

Suite 1500
300 North Meridan Street
Indianapolis, IN 46204
800-777-3536
<http://www.reillyind.com/>

Reliable Manufacturing

5594 Winchester Rd NW
Carroll, OH 43112
740-756-9373
<http://www.reliablemfggas.com/>

Richards Manufacturing

517 Lyons Avenue
Irvington, NJ 07111
973-371-1771
<https://www.richards-mfg.com/>

Robroy Industries

1100 US HWY 271 S.
Gilmer, TX 75644
903-843-5591
<http://www.plastibond.com/>

Silver-Line Plastics Corporation

900 Riverside Drive
Asheville, NC 28804-3115
828-252-8755
<http://www.slpipes.com/>

Smith Blair – Xylem

301 Water Street SE, Suite 200
Washington, DC 20003
800-643-9705
<https://www.xylem.com/en-us/brands/smith-blair/>

Swagelok Company

29500 Solon Road
Cleveland, OH 44139-3492
440-248-4600
<http://www.swagelok.com/>

The Sherwin-Williams Company

101 W. Prospect Avenue
Cleveland, OH 44115
866-722-9710
<http://industrial.sherwin-williams.com/na/us/en/home.html>

The Trenton Corporation

7700 Jackson Road
Ann Arbor, MI 48103
<http://www.trentoncorp.com/>

Manufacturers of Approved Materials

10.1 Contact Information

UPSCO Inc.

67 Central St.

P.O. Box 431

Moravia, NY 13118

315-497-1070

<http://www.upscoinc.com/>

WL Plastics

P.O. Box 770

221 South Perry Street

Titusville, PA 16354

814-827-9665

<http://www.wlplastics.com>