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Molded Fittings Submittal

This submittal outlines the standards and cell classification for Molded Fittings produced by Performance Pipe.

Performance Pipe Molded Fittings are produced in five different series for application in various industries.

The DriscoPlex® 8100 series fitting (IPS or CTS) is an all purpose fitting that meets several application standards. It is produced out of High Performance High Density PE4710. This material code designation meets and exceeds PE3408, PE3608, PE4710 and PE100 submittal requests.

The DriscoPlex® 6500 series fittings are produced of High Performance Medium Density resin. It meets or exceeds PE2406 and 2708 submittal requests.

The DriscoPlex® 4000 series Ductile Iron Pipe Size (DIPS) fittings are produced to several manufacturing standards. The fittings are manufactured of High Performance High Density PE4710 resin.

The Factory Mutual Approved (FMA) DriscoPlex® 1500 series fittings are manufactured with High Performance High Density PE4710 resin.

The DriscoPlex® 5300 series fittings are made for the Geothermal Industry. The fittings are manufactured from High Performance High Density resins that meets or exceeds PE3408 and 3608 submittal requests.

Table 1

Series	Application	Manufacturing Standard	ASTM Material Designation Code	Cell Classification	Sizes of Manufacture
8100	Municipal, Industrial, & Energy, Gas, Water, Sewer, Oil Field, Landfill, Various	ASTM D-2513 AWWA C906 ASTM D-3261	PE 4710	445574C	½" - 1¼" CTS ½" - 8" IPS
6500	Gas Distribution	ASTM D-2513 ASTM D-3261 ASTM D-2683 CAN/CSA-B137.4	PE 2708	234373E	½" - 1¼" CTS ½" - 8" IPS
4000 (DIPS)	Municipal & Industrial, Potable Water, Various	AWWA C906 ASTM F-714 ASTM D-3035	PE 4710	445574C	4" - 8" DIPS
1500 (IPS)	Factory Mutual Fire Main (FMA)	FM 1610 ASTM F-714 AWWA 901 & C906	PE 3608	445574C	2" - 8" IPS
5300	Geothermal	ASTM D-3035 ASTM F714	PE 3608	445574C	2" - 8" IPS

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Performance Pipe Mechanical Joint Adapters are manufactured through 12" (IPS & DIPS) sizes.

Performance Pipe Flange Adapters 22" and 24" and transition fittings are manufactured of PE3608 resin.

All other High Density fittings are manufactured of PE4710 High Performance High Density resins.

The applications listed in Table 1 are limited by the table space requirements. Please see the Performance Pipe Municipal, Industrial & Energy Submittal Sheet (PP515) for applications and industries.

Performance Pipe PE4710 fittings meets and exceeds PE3408, PE3608, PE4710, and PE100 submittal requirements.

Table 2

Standard	Application
AWWA C-906 AWWA C-901	Covers manufacturing of pressure pipe and fittings primarily intended for use in the transportation of water and other liquids.
ASTM D-2513	Covers manufacturing requirements and test methods for fittings intended for use in fuel gas mains and services.
ASTM F-714	Covers polyethylene pipe made in dimensions based on outside diameters 3" and larger.
ASTM D-3035	Covers polyethylene pipe made in dimensions based on outside diameters less than 3".
ASTM D-3261	This Specification covers molded and machined fittings for use with polyethylene pipe for various applications.
ASTM D-2683	Covers socket-type fittings for outside diameter controlled polyethylene fittings.
CAN/CSA-B137.4	Covers Canadian Standards Association standards for outside diameter controlled gas pipe and fittings.
NSF-61	Performance Pipe PE3608 and PE4710 high density fittings are produced from NSF 61 listed resin compounds.

Performance Pipe's fittings are connected using butt fusion, sidewall fusion, socket fusion, and other mechanical methods, such as flanges, mechanical joint adapters and compression couplings.



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