

TAPPING TEE (EF)

COSMOIND's EF Tapping Tees are the result of our in-house manufacturing expertise, which includes mold design, production and extensive testing. Made from High-Density Polyethylene (HDPE, PE4710/PE2708, PE100/PE80), these EF Tapping Tees are engineered to be fully pressure-rated, ensuring superior quality and exceptional performance.



ADVANTAGE OF HDPE

HDPE offers high strength, chemical and water resistance, lightweight and impact durability, is environmentally friendly, and performs well within a specific temperature range, making it suitable for various long-term applications.

MANUFACTURED IN ACCORDANCE WITH:

AWWA C901	Polyethylene (PE) Pressure Pipe and Tubing, 3/4 In. Through 3 In. for Water Service
AWWA C906	Polyethylene (PE) Pressure Pipe and Fittings, 4 In. Through 65 In. for Waterworks
ASTM D2513	Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, Fittings
ASTM D3350	Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
ASTM F1055	Standard Specification for Electrofusion Type Polyethylene Fittings
ANSI/NSF 61	Drinking Water System Components - Health Effects
ANSI/NSF 372	Drinking Water System Components - Lead Content
ISO 4427-1	Plastics piping systems for water supply and for drainage and sewerage under pressure - Part 1 : General
ISO 4427-3	Plastics piping systems for water supply and for drainage and sewerage under pressure - Part 3 : Fittings
ISO 4437-1	Plastics piping systems for the supply of gaseous fuels - Part 1 : General
ISO 4437-3	Plastics piping systems for the supply of gaseous fuels - Part 3 : Fittings

TESTED IN ACCORDANCE WITH:

ASTM D638	Standard Test Method for Tensile Properties of Plastics
ASTM D1598	Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
ASTM D1599	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings
ASTM D2513	Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, Fittings
ASTM F1055	Standard Test Method for Electrofusion Type Polyethylene Fittings
ISO 1167-1	Determination of the resistance to internal pressure - Part 1 : General method
ISO 1167-4	Determination of the resistance to internal pressure - Part 4 : Preparation of assemblies
ISO 13950	Plastics pipes and fittings - Automatic recognition systems for electrofusion joints
ISO 13951	Test method for the resistance of plastic pipe/pipe or pipe/fitting assemblies to tensile loading
ISO 13956	Decohesion test of polyethylene (PE) saddle fusion joints - Evaluation of ductility of fusion joint interface by tear test
ISO 13957	Polyethylene (PE) tapping tees - Test method for impact resistance
ISO 11357-6	Determination of oxidation induction time and oxidation induction temperature
ISO 1133-1	Determination of the melt mass-flow rate and melt volume-flow rate of thermoplastics - Part 1 : Standard method



COSMOIND USA

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RAW MATERIALS

COSMOIND's EF Tapping Tees are produced utilizing a bimodal high-density polyethylene (HDPE) compound. This advanced material formulation not only delivers exceptional performance in aspects such as strength, toughness, processability, durability, impact resistance and stability but also exhibits superior mechanical properties and environmental resilience, thereby guaranteeing long-term reliability and performance.

PRODUCTION RANGE (SIZE / SDR)

SIZE [Branch] 1/2" CTS to 1-1/4" IPS (16mm to 40mm), [Main] 1-1/4" CTS to 12" IPS (40mm to 315mm)

SDR 11 (Other SDR's is available upon request.)

PRESSURE CLASS

SDR	PE4710 for Industrial				PE4710 for Gas	SDR	PE2708 for Industrial				PE2708 for Gas
	73.4°F	100°F	120°F	140°F	73.4°F		73.4°F	100°F	120°F	140°F	73.4°F
11	200 psi	156 psi	126 psi	100 psi	125 psi	11	160 psi	124 psi	100 psi	80 psi	100 psi
17	125 psi	98 psi	79 psi	63 psi	80 psi	17	100 psi	78 psi	63 psi	50 psi	62.5 psi

SDR	PE100 for Industrial				PE100 for Gas	SDR	PE80 for Industrial				PE80 for Gas
	20°C	30°C	40°C	50°C	20°C		20°C	30°C	40°C	50°C	20°C
11	16 bar	13.6 bar	11.68 bar	10.08 bar	10 bar	11	12.5 bar	10.62 bar	9.12 bar	7.87 bar	8 bar
17	10 bar	8.5 bar	7.3 bar	6.3 bar	6.25 bar	17	8 bar	6.8 bar	5.84 bar	5.04 bar	5 bar

APPLICATIONS

Water Supply	Gas Distribution	Sewerage and Drainage
Irrigation	Industrial	Geothermal
Landscaping	Mining	Renewable Energy
Chemical and Petrochemical	Construction	Marine and Offshore
Waste Management	Telecom Conduit	Electrical Cable