



# COSMOIND USA

## HIGH VOLUME TAPPING TEE (EF)

COSMOIND's EF High Volume 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 High Volume 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:

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

### TESTED IN ACCORDANCE WITH:

<b>ASTM D638</b>	Standard Test Method for Tensile Properties of Plastics
<b>ASTM D1598</b>	Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
<b>ASTM D1599</b>	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings
<b>ASTM D2513</b>	Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, Fittings
<b>ASTM F1055</b>	Standard Test Method for Electrofusion Type Polyethylene Fittings
<b>ISO 1167-1</b>	Determination of the resistance to internal pressure - Part 1 : General method
<b>ISO 1167-4</b>	Determination of the resistance to internal pressure - Part 4 : Preparation of assemblies
<b>ISO 13950</b>	Plastics pipes and fittings - Automatic recognition systems for electrofusion joints
<b>ISO 13951</b>	Test method for the resistance of plastic pipe/pipe or pipe/fitting assemblies to tensile loading
<b>ISO 13954</b>	Peel decohesion test for polyethylene electrofusion assemblies
<b>ISO 13956</b>	Decohesion test of polyethylene (PE) saddle fusion joints - Evaluation of ductility of fusion joint interface by tear test
<b>ISO 13957</b>	Polyethylene (PE) tapping tees - Test method for impact resistance
<b>ISO 11357-6</b>	Determination of oxidation induction time and oxidation induction temperature
<b>ISO 1133-1</b>	Determination of the melt mass-flow rate and melt volume-flow rate of thermoplastics - Part 1 : Standard method





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### RAW MATERIALS

COSMOIND's EF High Volume 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] 1-1/4" IPS to 2" IPS (40mm to 63mm), [Main] 2" IPS to 12" IPS (63mm 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