How does the Engineered Polymer (EP) ASTM F1960 Standard Uponor ProPEX® Fitting compare with ASTM F2159 Standard Insert Fittings?

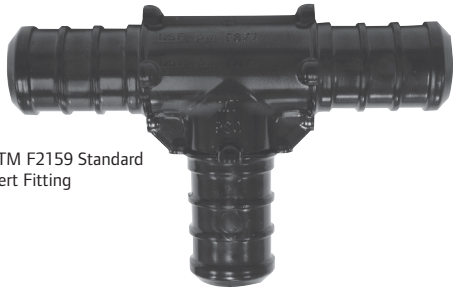
uponor

PLUMBING SYSTEMS

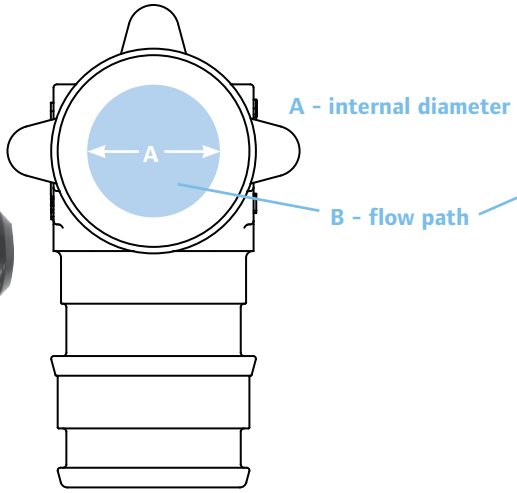
FITTING SYSTEMS

FACT SHEET

ASTM F1960 Standard EP ProPEX Fitting



ASTM F2159 Standard Insert Fitting



ASTM F1960 Standard EP ProPEX Fitting

ASTM F2159 Standard Insert Fitting

	ASTM F1960 Standard Uponor EP ProPEX Fitting		ASTM F2159 Standard Insert Fitting		Uponor ProPEX Advantages
A	Greater minimum internal diameter (i.d.)	½" fitting = 0.385" ¾" fitting = 0.590" 1" fitting = 0.788"	Smaller minimum i.d.	½" fitting = 0.315" ¾" fitting = 0.460" 1" fitting = 0.610"	½" fitting has 18% larger minimum i.d. ¾" fitting has 22% larger minimum i.d. 1" fitting has 22% larger minimum i.d.
B	Larger cross-sectional area provides better flow	½" fitting = 0.116 sq. inches 2.9 gpm at 8 ft./sec. ¾" fitting = 0.273 sq. inches 6.8 gpm at 8 ft./sec. 1" fitting = 0.488 sq. inches 12.3 gpm at 8 ft./sec.	Smaller cross-sectional area restricts flow	½" fitting = 0.078 sq. inches 1.9 gpm at 8 ft./sec. ¾" fitting = 0.166 sq. inches 4.1 gpm at 8 ft./sec. 1" fitting = 0.292 sq. inches 7.2 gpm at 8 ft./sec.	½" fitting offers 34% higher gpm ¾" fitting offers 40% higher gpm 1" fitting offers 40% higher gpm
	Large offering of engineered polymer (EP) fittings available in sizes up to 2"		Limited offering of EP fittings available		EP fittings more resistant to harsh water environments compared to metal fittings
	Works with the shape-memory properties of Uponor PEX-a tubing		Does not take advantage of the properties of PEX-a tubing		Provides a stronger, more reliable connection
	Go/no-go gauges are never required		Requires testing every copper crimp fitting connection with a go/no-go gauge		Saves valuable installation time
	Cannot be dry fit — never a question if the connection is made		Can be dry fit — more prone to installation error and leaks		Never have to second guess whether a connection is complete

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