

MATERIAL SPECIFICATION SHEET

F1960 Cold Expansion Fittings for VIPERT™ SDR-9 Polyethylene of Raised Temperature Resistance (PE-RT) Tubing

SCOPE:

This product specification designates the requirements for F1960 Cold Expansion Fittings to be used as connections for VIPERT™ SDR-9 Polyethylene of Raised Temperature (PE-RT) tubing in 1/2", 3/4", 1", 1-1/4", 1-1/2", and 2" nominal sizes. All connections shall be assembled in accordance with the [CB SUPPLIES VIPERT PE-RT TUBING WITH F-1960 COLD EXPANSION INSTALLATION GUIDELINES](#). These fittings are approved for use with ASTM Standard F877 (PEX Distribution Systems), ASTM F2623 (PE-RT Tubing) and ASTM F2769 (PE-RT Tubing for Potable Water Systems).

MATERIALS:

F1960 Cold Expansion Fittings distributed by CB Supplies are manufactured from a polysulfone/polyphenylsulfone blended polymer or UNS C46500 brass alloy, both listed for potable water applications in accordance with NSF 61 and certified as lead-free in accordance with NSF 372. F1960 Cold Expansion fittings exhibit excellent resistance to corrosion and are well suited for hot water applications.

MARKING & CERTIFICATION:

F1960 Cold Expansion Fittings distributed by CB Supplies bear the markings of accredited third-party product certification bodies such as **NSF International** and **IAPMO R&T**. These certification bodies conduct random on-site inspections of the manufacturing facilities and independently test F1960 Cold Expansion Fittings for compliance with all relevant codes and standards, including:

ASTM F1960, Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing

NSF/ANSI 14, Plastic Piping System Components and Related Materials

National Plumbing Code of Canada (NPC)

NSF/ANSI/CAN 61, Drinking Water System Components – Health Effects

NSF/ANSI/CAN 372, Drinking Water System Components – Lead Content

Uniform Plumbing Code® (UPC)



RECOMMENDED USES:

Cold expansion fittings are intended and recommended for use in potable water distribution systems and hydronic radiant heating systems with VIPERT series PE-RT tubing meeting the requirements of ASTM F2769 for potable water applications and ASTM F2623 for hydronic radiant heating systems. Maximum design temperature and pressure ratings are 160 psi @ 73°F and 100 psi @ 180°F. For information on other hot and cold applications not listed here, consult with your CB Supplies representative.

TYPICAL F1960 PPSU FITTING DIMENSIONS

Description	A (mm)	B (mm)	C (mm)	D (mm)
1/2" ELBOW	39.2	35.5	32.2	28.5
3/4" ELBOW	51.5	47.0	41.7	37.2
1" ELBOW	64.7	59.3	52.2	46.8

