Electr-O-Fuze™ EF 45° Coaxial Elbow, UL971 Listed

**Product Description**

Electr-O-Fuze™ Coaxial 45° Coaxial Elbow assemblies are safe and reliable proven electro-fusion fittings. The Assembly comprises of various electrofusion reducers with an encapsulated primary 90° elbow inside a butt welded pipe sleeve. The aim of the fitting is to create a continuous secondary containment when changing direction. When used in conjunction with Electr-O-Fuze™ pipe and an Electr-O-Fuze™ EF welding machine, it provides a UL971 compliant fuel installation with a 30 year life span.

The primary elbow is covered using the over sleeve pipe, which is sealed to the secondary pipe using electrofusion reducers. These reducers when welded form part of the secondary pipe resulting in a permanent leak tight seal over sleeve for the primary coupler, providing a continuous interstitial space over the joint. These fittings can be used in direct bury applications or in a sump as the welds form part of the pipe.

**Applications**

- Service Stations
- Marinas
- Fuel Terminals
- Moist & Marshy Areas
- Refineries
- Harbors
- Airports
- Non-Contaminated & Contaminated Sites

**Specifications**

- **Fitting Type:** Matched electrofusion fittings are utilized throughout the pipeline system in order to join the various pieces. Deep sockets and ‘safe’ low voltage operation (42V), applied through dedicated ancillary equipment ensures maximum joint integrity. Fusion indicators monitor the joint melt pressure, while absolute security of the weld is ensured using the fittings bar code feature in conjunction with the fully automatic Electr-O-Fuze™ EF welding machine.

- **Electrofusion Machine:** Electr-O-Fuze™ EF welding machine with memory, bar code reader, printing and error reporting.

- **Temperature Range:** Fittings can be worked with at ambient temperatures between –24°F and 160°F.

- **Pipe Fusion Range:** The fittings can be fused to pipe of SDR stages 17.6 to 7.4 in accordance with DIN 8074 (E), ISO 4437, pr EN 1555 and DIN EN 12201 (E).

- **Operating Pressures:** 150psi primary, 50psi secondary with EF test boots & 5psi with rubber test boots.

- **Test Pressure:** Primary >60psi <150psi; Secondary 50psi with EF test boots & 5psi with rubber test boots.

- **Approved Fuel Types:** All Petroleum Products (*Motor Vehicle Fuels, High Blend Fuels, Concentrated Fuels, Aviation & Marine Fuels*) E85 and Biodiesel.

**Installation**

Installation, use, and maintenance of all Electr-O-Fuze™ products shall be in accordance with the manufacturer’s recommendations, State and County approvals. In event of conflicts, the stricter requirement shall govern. AEP installation manual available directly from AEP, or at info@aep-inc.net. All operators to be AEP certified on both the fittings and electrofusion machine.

**Certifications/Approvals**

- UL 971 Approved
- Institute of Petroleum
- Shell Int. Procurement Cert.
- State of Florida
- State of Michigan
- New York City Fire Dept.
- Factory Permit
- State of California

File # MH47372
Cert # BC63/1010/98/001 And cert # BC63/0115/2000/001
Cert # BC63/1010/98/002
EQ 683 and EQ 617 – and Derm Approval
MUSTR – Rule 9, subsections 280.20 (b)
CoA 5117
DIN EN 10 204-3.1
CARB, State Fire Marshall Cert # GVRC 005:060:001
### Drawing Notes:

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<td>Primary 45° EF Elbow</td>
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<td>Secondary 45° Spigot Elbow</td>
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(*) Nominal Bore  
(**) Outside Diameter  
[Size Based On Estimated Minimum Standards, Subject To Change Without Notice]