

## Electr-O-Fuze™ EF Reducer, UL971 Listed

### Product Description

Electr-O-Fuze™ EF fittings are safe, reliable and a proven electro fusion technology using open wire principles. Electr-O-Fuze™ reducers form part of the only electro fusion range in the petroleum industry to also be tested and approved for use with natural gas and low pressure gas, thus providing unparalleled quality and protection. When used in conjunction with Electr-O-Fuze™ pipe and a Electr-O-Fuze™ EF welding machine, it provides a UL971 compliant fuel installation with a 30 year life span, forming the basis for splice kits, used in connecting pipe with secondary pipe.

Electr-O-Fuze™ reducers are available in sizes from 1¼” to 6” nominal bore. All reducers conform to 2 times the ISO requirements for electro fusion fittings, making it the safest electro fusion fittings in the petroleum industry.

### Applications

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

### Specifications

- Fitting Type: Matched electro fusion 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.
- Test Pressure: Primary >60psi <150psi.
- Approved Fuel Types: All Petroleum Products (*Motor Vehicle Fuels, High Blend Fuels, Concentrated Fuels, Aviation & Marine Fuels*) E85 and Biodiesel.

### Installation

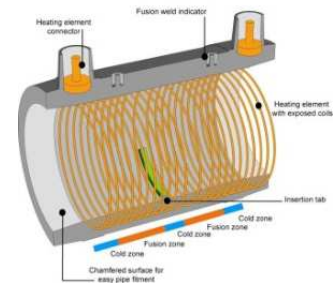
Installation, use, and maintenance of all Electr-O-Fuze™ products shall be in accordance with the manufacturer’s recommendations, State and County approvals. In event of conflicts, the stricter requirement shall govern. AEP installation manual available directly from AEP, or at info@aep-inc.net. All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

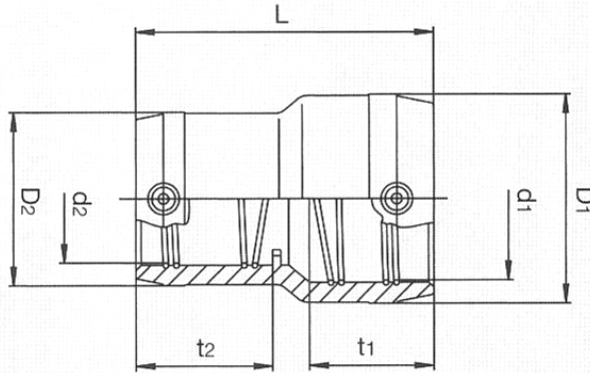
### Certifications/Approvals

- UL 971 Approved
  - Institute of Petroleum
  - Shell Int. Procurement Cert.
  - State of Florida
  - State of Michigan
  - New York City Fire Dept.
  - DOT 192 and 195
  - DVGW Permit
  - 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  
 On waiver letter per project  
 VP 607, with decisions DV-8601AU2248, DV-8606AU2249 and DV-8611AU2250  
 DIN EN 10 204-3.1  
 CARB, State Fire Marshall Cert # GVRC 005:060:001



Frilam EF safety fitting (Cut-away view with element intact)





Diam. NB* inches	Diam. OD** metric	Part #	Dim d1		Dim d2		Dim t1		Dim t2	
			mm	in.	mm	in.	Mm	in.	mm	in.
1½/1¼"	50/40	<b>006-050-40EF</b>	50	1½	40	1¼	55	2.1	40	1.5
2/1¼"	63/40	<b>006-063-40EF</b>	63	2	40	1¼	60	2.3	45	1.7
2/1½"	63/50	<b>006-063-50EF</b>	63	2	50	1½	60	2.3	50	2.1
3/1½"	90/50	<b>006-090-050EF</b>	90	3	50	1½	80	3.1	50	2.1
3/2"	90/63	<b>006-090-063EF</b>	90	3	63	2	80	3.1	60	2.3
4/2"	110/63	<b>006-110-063EF</b>	110	4	63	2	85	3.3	60	2.3
4/3"	110/90	<b>006-110-090EF</b>	110	4	90	3	85	3.3	70	2.7
6/4"	160/110	<b>006-160-110EF</b>	160	6	110	4	105	4.1	85	3.5

(\*) Nominal Bore

(\*\*) Outside Diameter