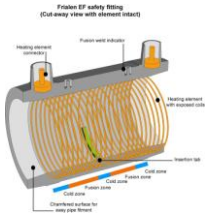
Frialen® Electro Fusion Fittings, UL971 Listed

Product Description

Frialen® electro fusion fittings are safe and reliable proven electro fusion technology using open wire principles. Frialen® electro fusion couplers are the only fittings used in 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 Petroplas pipe and a Friamat electro fusion welder, it provides a UL971 compliant fuel installation with a 30 year life span.

Frialen® fittings are available in sizes from ½" to 30" nominal bore. Elbows and Tees in sizes up to and including 6" are available in electro fusion fitting, while larger sizes are only obtainable in spigot fittings, requiring an electro fusion coupler on either side of the fitting.



Applications

- Service stations
- Marina's
- Fuel Terminals
- Moist and marshy areas
- Refineries
- Harbors
- Airports
- Non-Contaminated and 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 Friamat Control Box Unit.
○ Electro Fusion Machine :	Friamat® electro fusion machine with memory, 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	232 psi maximum
○ Test pressure	232 psi or 5 times operating pressures
○ 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 Frialen® products shall be in accordance with the manufacturer's recommendations, State and county approvals. In event of conflicts, the stricter requirement shall govern. (IPP installation manual available directly from IPP, or at www.innovativepetroleum.com) All operators to be IPP certified on both the fittings and electro fusion machine

Certifications/Approvals

○ UL 971 approved,	File # MH45430
○ Institute of Petroleum	Cert # BC63/1010/98/001 And cert # BC63/0115/2000/001
○ Shell Int. Procurement Cert.	Cert # BC63/1010/98/002
○ State of Florida	EQ 683 and EQ 617 – and Derm Approval
○ State of Michigan	MUSTR – Rule 9, subsections 280.20 (b)
○ New York City Fire Dept.	CoA 5117
○ DOT 192 and 195	On waiver letter per project
○ DVGW Permit	VP 607, with decisions DV-8601AU2248, DV-8606AU2249 and DV-8611AU2250
○ Factory Permit	DIN EN 10 204-3.1
○ State of California	CARB, State Fire Marshall Cert # GVRC 005:060:001

Note : specifications subject to change without notice
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