



Introduction

Electro Fusion is a method of joining MDPE, HDPE and other plastic pipes using specially designed fittings that have built-in electric heating elements which are used to weld the joint together. Electro Fusion fittings are some specific fittings used in water supply lines as well as gas pipelines. These fittings are available in different sizes and designed to create a strong joint and ensure equal distribution. All fittings are available with barcode traceability before welding. Electro Fusion machine can read the same with ease.

The pipes to be joined are cleaned, inserted into the Electro Fusion fitting (with an installation clamp if required) and a voltage (typically 40V) is applied for a fixed time depending on the fitting in use. The built in copper wire passes the current to generate heat to melt the inner diameter of fittings to coagulate on circumference of pipe, which weld together producing a perfectly homogeneous joint. The assembly is then left to cool for a specified time, which is known as cooling time.

Electro Fusion welding is beneficial because it depends on the skill of the machine and not of the operator. After some preparation, the Electro Fusion Welder will guide the operator through the steps to take. Welding Heat(h) and Time(t) is dependent on the type and size of the fitting. All Electro Fusion Fittings are not created equal - Precise positioning of the energizing coils of wire in each fitting ensures uniform melting for a strong joint and the minimization of welding and cooling time depends on the diameter of the fittings.





ELECTRO FUSION COUPLER

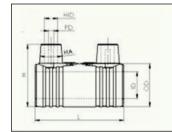
Electro Fusion Couplings are fittings used for joining of polyethylene water and gas pipes. These Electro Fusion fittings are made of high density PE100, to ensure that internal layer of fitting and external layer of pipe are welded together.

Fittings are compatible for welding with PE:80 & PE:100, both grades of pipes for water as well as gas application.

Technical Specifications

- D20 to 180mm / SDR11 & 17
- 10 bar for Gas / 16 bar for water
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



DN: Nominal Diameter

OD :Outer Diameter

SDR: Standard Dimension Ratio
PE: Polyetylene Material Class

L :Length

HID: Holder Internal Diameter

PD: Pin Diameter HA: Holder Angle

FOR SDR 11 ELECTRO FUSION COUPLER DIMENSIONS (All dimensions are in mm)

(,			,								
	COUPLER										
DN	OD	SDR	PE	L	HID	PD	НА	Н			
20	Ø32	11	100	67	Ø10	Ø4	10°	46.50			
32	Ø45	11	100	72	Ø10	Ø4	10°	60.00			
63	Ø78	11	100	95	Ø10	Ø4	10°	93.00			
90	Ø112	11	100	125	Ø10	Ø4	10°	127.10			
125	Ø150	11	100	150	Ø10	Ø4	10°	165.70			
180	Ø216	11	100	170	Ø10	Ø4	10°	232.00			

FOR SDR 17 ELECTRO FUSION COUPLER DIMENSIONS (All dimensions are in mm)

			C	OUPLE	R			
DN	OD	SDR	PE	L	HID	PD	НА	Н
20	-	ı	-	-	-	-	-	46.50
32	Ø37.40	17	100	72	Ø10	Ø4	10°	60.00
63	Ø71.60	17	100	95	Ø10	Ø4	10°	93.00
90	Ø102.20	17	100	125	Ø10	Ø4	10°	127.10
125	Ø141.60	17	100	150	Ø10	Ø4	10°	165.70
180	Ø203.80	17	100	170	Ø10	Ø4	10°	232.00



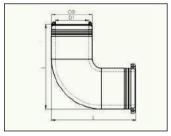
Ori-Plast ELECTRO FUSION ELBOW

Bends and elbows are essential fittings that easily change the direction of pipes. The extensive range available offers not only multiple materials but also different curvature degrees to easily fit your piping system.

Technical Specifications

- ORIPLAST ELECTRO FUSION 90° ELBOW
- 10 bar for gas / 16 bar for water, SDR 11
- D63 to 125mm
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



HID :HOLDER INTERNAL DIAMETER

PD :PIN DIAMETER
HA :HOLDER ANGLE
H :TOTAL HEIGHT

(All dimensions are in mm)

			ELBOW			
DN	SDR	PE	L	HID	PD	НА
63	11	100	125	Ø10	Ø4	10°
90	11	100	173	Ø10	Ø4	10°
125	11	100	230	Ø10	Ø4	10°
140	11	100	170	Ø10	Ø4	10°
160	11	100	191	Ø10	Ø4	10°
180	11	100	210	Ø10	Ø4	10°



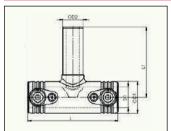
Ori-Plast ELECTRO **FUSION** TEE

When creating branch lines, lightweight tee makes installation much easier. These fittings are made from a range of materials and cover multiple dimension possibilities including various reductions on the same fitting.

Technical Specifications

- ELECTRO FUSION TEE
- 10 bar for gas / 16 bar for water, SDR 11
- D20 to 125mm Electro Fusion TEE Oriplast manufactures
- D140 to 180mm Electro Fusion TEE dimensions are taken from George Fischer(GF) website for reference purpose.
- For SDR 11 ELECTRO FUSION TEE DIMENSIONS
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



HID :HOLDER INTERNAL DIAMETER

PD : PIN DIAMETER HA: HOLDER ANGLE H : TOTAL HEIGHT

For SDR 17 ELECTRO FUSION TEE DIMENSIONS

(All dimensions are in mm)

	TEE									
DN	OD	SDR	PE	L	HID	PD	НА			
20	Ø32	Ø 20.5	11	90	Ø10	Ø4	10°			
32	Ø 45	Ø 32.5	11	102	Ø10	Ø4	10°			
63	Ø 80	Ø 63.5	11	170	Ø10	Ø4	10°			
90	Ø 110	Ø 90.7	11	204	Ø10	Ø4	10°			
125	Ø 150	Ø 126	11	280	Ø10	Ø4	10°			
140	Ø 185	Ø 140	11	300	Ø10	Ø4	10°			
160	Ø 196	Ø 160	11	325	Ø10	Ø4	10°			
180	Ø 225	Ø 180	11	344	Ø10	Ø4	10°			

			TE	E				
DN	0d1	0D 2	SDR	PE	L	HID	PD	НА
20	-	-	-	-	-	-	-	-
32	Ø 37.40	Ø 32.5	17	100	102	Ø10	Ø4	10°
63	Ø 71.60	Ø 63.5	17	100	170	Ø10	Ø4	10°
90	Ø 102.20	Ø 90.7	17	100	204	Ø10	Ø4	10°
125	Ø 141.60	Ø 126	17	100	280	Ø10	Ø4	10°
140	Ø 156.80	Ø 140	17	100	300	Ø10	Ø4	10°
160	Ø 181.20	Ø 160	17	100	325	Ø10	Ø4	10°
180	Ø 203.80	Ø 180	17	100	344	Ø10	Ø4	10°



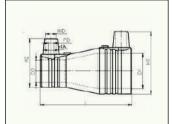
Ori-Plast ELECTRO FUSION REDUCER

Reducers are used for effecting a smooth transition between two pipes or fittings with different dimensions. The wide selection available covers an exceptionally diverse area of applications.

Technical Specifications

- ullet 10 bar for gas / 16 bar for water, SDR 11
- D32 x 20mm , 63 x32mm , 90 x 63mm Reducers (Oriplast manufactures)
- 110 X 63mm, 110 X 90mm, 125 X 90mm, 160 X 90mm, 160 X 110mm, 180 X 125mm Reducer dimensions are taken from George Fischer(GF) website for reference
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



HID: HOLDER INTERNAL DIAMETER

PD: PIN DIAMETER
HA: HOLDER ANGLE
H: TOTAL HEIGHT

				R	EDUCE	R			
DN 1	DN 2	SDR	PE	L	HID	PD	HA	H1	H2
32	20	11	100	85	Ø10	Ø4	10°	57.60	45.00
63	32	11	100	115	Ø10	Ø4	10°	93.60	57.60
90	63	11	100	160	Ø10	Ø4	10°	124.80	93.60
110	63	11	100	184	Ø10	Ø4	10°	147.20	93.60
110	90	11	100	173	Ø10	Ø4	10°	147.20	124.80
125	90	11	100	194	Ø10	Ø4	10°	165.40	124.80
160	90	11	100	194	Ø10	Ø4	10°	207.40	124.80
160	110	11	100	226	Ø10	Ø4	10°	207.40	147.20
180	125	11	100	254	Ø10	Ø4	10°	231.40	165.40



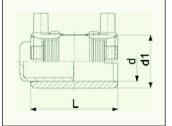
ELECTRO FUSION END CAP

Caps provide a tight seal and stop the flow direction of a piping system. ORIPLAST Piping System caps are available in different dimensions. Temporary caps ease the pressure testing of an installed pipeline.

Technical Specifications

- ELECTRO FUSION END CAP
- 10 bar for gas / 16 bar for water, SDR 11
- D20mm, 32 mm
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



HID: HOLDER INTERNAL DIAMETER

PD: PIN DIAMETER
HA: HOLDER ANGLE
H: TOTAL HEIGHT

(All dimensions are in mm)

			END CAP)		
DN	SD	PE	L	HID	PD	НА
20	11	100	52	Ø10	Ø4	10°
32	11	100	52	Ø10	Ø4	10°



ELECTRO FUSION TRANSITION COUPLER (FEMALE)

Inter connection of Pipeline is an endeavor to make piping Systems to complete solutions for Water and Gas.

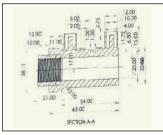
Transition fittings are widely used for connectivity with PE pipe and GI or PE to metallic transition to any other metallic version.

Oriplast Transition fittings having option with brass and SS 304 connection as per following dimensions.

Technical Specifications

- ELECTRO FUSION TRANSITION COUPLER
- 10 bar for gas / 16 bar for water, SDR 11
- D20mm, 32mm, 63mm
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section



DN : NOMINAL DIAMETER

OD : OUTER DIAMETER

SDR: STANDARD DIMENSION RATIO
PE: POLYETYLENE MATERIAL CLASS

L : LENGTH

HID: HOLDER INTERNAL DIAMETER

PD: PIN DIAMETER HA: HOLDER ANGLE

H :TOTAL HEIGHT

		Electro	Fusio	n Trans	ition C	oupler	
DN	OD	SDR	PE	L	HID	PD	
20	Ø32	11	100	98	Ø20	Ø4	



FUSION TAPPING SADDLE

An Electro Fusion tapping saddle is used to tap into a HDPE pipeline. Tapping saddles are ideal for service connections and provide an effective means of conducting an under pressure tapping. The saddle body supplies a strong reinforced aperture for the parent and offtake pipe.

Technical Specifications

- ELECTRO FUSION TAPPING SADDLE
- ullet 10 bar for gas / 16 bar for water, SDR 11
- D32 X 20mm, 63 X 20 mm, 90 X 20mm, 90 X 32mm, 125 X 32mm, 125 X 63 mm
- For PE:80 & PE:100 grades of pipes

Image of its Cross-section

HID: HOLDER INTERNAL DIAMETER

PD: PIN DIAMETER
HA: HOLDER ANGLE
H: TOTAL HEIGHT

	TAPPING SADDLE									
DN	SDR	PE	L	Н	HID	PD	НА			
32 X 20	11	100	120.00	80.00	Ø10	Ø4	10°			
63 X 20	11	100	120.00	150.00	Ø10	Ø4	10°			
90 X 20	11	100	120.00	155.00	Ø10	Ø4	10°			
90 X 32	11	100	171.40	155.00	Ø10	Ø4	10°			
125 X 32	11	100	238.00	180.00	Ø10	Ø4	10°			
125 X 63	11	100	238.00	212.50	Ø10	Ø4	10°			



TRANSITION FITTINGS

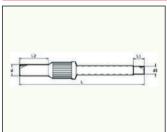
Inter connection of Pipeline is an endeavor to make piping Systems to complete solutions for Water and Gas.

Transition fittings are widely used for connectivity with PE pipe and GI or PE to metallic transition to any other metallic version. Oriplast Transition fittings having option with brass and SS 304 connection as per following dimensions.

Technical Specifications

- 10 bar Gas / 16 bar Water
- Electrofusion weldable
- \bullet PE coated for corrosion resistance
- Steel pipe with weld-on end
- *Steel pipe galvanized

Image of its Cross-section



d (mm)	d1 (inch)	DN (mm)	PN (bar)	SDR	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
32	1	25	16	11	775 641 510	0.988	460	35	96
63	2	50	16	11	775 641 524	2.011	480	35	110
90	3	80	16	11	775 641 636	3.762	580	45	141
125	4	100	16	11	775 641 645	6.833	585	45	148
180	5	150	16	11	775 641 659	11.935	610	45	168

TECHNICAL DATA SHEET

ORI-PLAST Electro Fusion Fittings

Colour : Black

> Materials used : Fitting material is HDPE(PE100)

but made for welding MDPE gas pipes

> Storage Conditions : Fittings are supplied in sealed polyethylene bags

and cardboard boxes. Boxes should be stored in a clean, dry area and out of direct sunlight to minimize risk of condensation within the bags. Fittings can be stored up to 5 years providing sealed bags are intact and no moisture build up

has occurred.

> Application

> Maximum Operating

> Pressure(MAOP) : Generally 10 bar for gas and 16 bar for water

Installation Temperature Range : -10°C upto 40°C
 SDR Range : 11 and 17
 Operating Voltage : 39 Volt to 40 Volt

Material Properties

Properties of The Material	Data	Unit	Standards
Density	≥ 930	kg/m3	EN 1555-3, BS EN 12201, ISO 4427, IS 14885, IS 4984
Melt Flow Rate(190°C/5kg)	0.2 to 1.4	g/10	ISO 4427, IS14885
Thermal Stability	≥20	min	IS 14885, ISO 4437
Volatile Content	≤350	mg/kg	IS 14885, ISO 4437
Water Content	≤300	mg/kg	IS 14885
Pigment Dispersion	≤3	Grade	IS 14885, ISO 4437, ISO 4427
Thermal Stability (Oxidation Induction Time)	≥20	min	EN 1555-3, BS EN 12201, IS 14885,ISO 4427,IS 4984
Carbon Black Content	2 to 2.5	%	EN 1555-3, ISO 4427, IS 4984, IS 15927-3

Fittings Standards Used to Design

> IS 14885, IS 15927(Part 1 to 3), EN 1555 – 1 to 5, ISO 4427

Section 1: Identification of Product and Supplier

Product Trade Name : Ori – Plast POLYETHYLENE Electro Fusion Fittings

Product Use : Water supply, Gas supply etc.

Section 2: Hazards Identification

> Statement of Hazardous Nature : Non-hazardous Product non-dangerous goods

Poisons Schedule : Not listed
 Hazard Statements : None required
 Precautionary Statements : None required

> Other Hazards : Refer to Section 7 Handling

and Storage for general precautions for use

Section 3: Composition/Information on Ingredients

Composition and Form : Manufactured rigid solid tubes of various

dimensions for various purposes as described in

Section 1

Chemical Composition : Chemical Name/s Proportion

Polyethylene 96 – 99.5 % Black – carbon black 2 – 3%

Section 4: First-Aid Measures

> Swallowed : There are no known health effects for the

ingestion of polyethylene. Ingestion is unlikely to occur due to the physical size and dimensions of the products. However, small particles may be generated by sawing or mechanically breaking the

products or similar means.

> Eye : Inapplicable to the solid product except for

mechanical injury. Dust/small particles from sawing or other mechanical process may affect eyes if not protected. Hydrochloric acid and other fumes emitted during combustion can cause irritation to the eyes. Flush with copious quantities

of water and treat symptomatically.

> Skin : Inapplicable to the solid product except for

mechanical injury. Dust/small particles from sawing or other mechanical process may affect eyes if not protected. There have not been reports of irritation arising from such dust and small particles. Molten material will adhere to the skin and cause burns. Flush with copious quantities of

Section 4: First-Aid Measures

water and see a doctor for prompt removal of the adhering material and treatment of the burn. Do not remove material or clothing from the skin. As removal may exacerbate the injury.

> Inhaled : Inapplicable to the solid product due to the

physical size and dimensions of the products. For inhalation of fumes and gaseous by-products (carbon monoxide, carbon dioxide, etc), remove the patient immediately from exposure and seek

medical advice.

> Notes to Physician : Treat symptomatically.

Section 5: Fire-fighting Measures

> Extinguishing Media : Water, water-fog or foam to extinguish fire. Carbon

dioxide or dry chemical are suitable but are considered not as efficient due to lack of cooling

capacity.

> Fire Fighting : Wear fully protective body suit with self-contained

breathin gapparatus (S.C.B.A.) to prevent contact with fumes and gases produced during

combustion.

> Fire/Explosion Hazard : Combustible and will support combustion.

Products of combustion are carbon dioxide (asphyxiant), carbon monoxide (toxic) and low levels of aldehydes and acetic acid. All are potentially lethal in sustained exposure.

> Fire Incompatibility : Oxidising agents.

> Personal Protection : Wear fully protective body suit with self-contained

breathing apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion and appropriate gloves and footwear.

Section 6: Accidental Release Measures

> Minor Spills : Collect products and bundle or secure safely. If necessary, isolate area to prevent damage to

/destruction of products by vehicles etc. Broken parts may be sharp and eye protection and gloves

are recommended.

Section 6: Accidental Release Measures

> Major Spills : Isolate area as necessary to prevent further

damage. Collect products and bundle or secure safely. Broken product and parts may have sharp edges and eye protection and gloves are

recommended.

Section 7: Handling and Storage

> Procedure for Handling : Electro fusion fitting are wrapped in packet &

Stored in Boxes. Handling of the electro fusion

> Storage : Store in clean, dry & covered area (warehouse) in

accordance with site safety requirements.

fitting should be taken very carefully.

Section 8: Exposure Controls / Personal Protection

> Exposure Controls : No exposure controls are necessary as products are

inert and all additives are encapsulated within the polymer matrix and present no hazard under conditions of normal use and good occupational

work practice.

> Personal Protection Eye : Glasses are recommended in case of accidental

knock when handling pipe and especially when working pipes mechanically, sawing etc.

> Hands/Feet : Safety footwear and gloves.

> Engineering Controls : Appropriate controls for safe working when

handling and mechanically working e.g. sawing.

Section 9: Physical and Chemical Properties

> Appearance : 20mm to 180 mm in diameter for fittings

> Colour : Black > Odour : Nil

> pH : Nil effect, insoluble

Melting point : 107-130°C
 Initial boiling point and Range : Not applicable
 Flash point : Not applicable
 Evaporation rate : Not applicable

> Flammability : Will burn in contact with flame

> Upper/lower
 : Not applicable
 > Vapour pressure
 : Not applicable
 > Not applicable

Section 9: Physical and Chemical Properties

Vapour density : 0.93 - 0.97
 Relative density : Insoluble in water
 Solubility : Not applicable
 Partition coefficient : Not applicable

> Auto-ignition

> Temperature : Not applicable> Decomposition temperature : 300°C

Section 10: Chemical Stability and Reactivity

> Incompatible materials : Stable under normal conditions of storage and use.

Do not store with oxidising agents.

> Hazardous

 $\ \ \, \text{decomposition products} \qquad \quad : \ \, \text{Product will start to decompose if maintained at}$

temperatures of 300°C. Decomposition products are carbon dioxide, carbon monoxides and low

levels of aldehydes and acetic acid.

Section 11: Toxicological Information

> Ld₅₀ Value : Not applicable

The products are inert and insoluble and consist of a fused polymer matrix which also encapsulates all

additives.

Section 12: Ecological Information

> Ecotoxicity : No adverse effects on environment have been reported. The product can be physically remove

reported. The product can be physically removed from waterways by means appropriate to the size article. It is recommended that local environmental

agencies are notified.

Section 13: Disposal Considerations

> Recycle where possible.

Refer to state/territory environmental protection agency/ authority. Normally suitable for disposal as general waste land fill.

Section 14: Transport Information

Land Transport (Road/Rail)
 Marine Transport
 Not classified as a dangerous goods.
 Air Transport
 Not classified as a dangerous goods.

Section 15: Regulatory Information

> There is no safety, health or environmental regulations specific for these products.



ELECTRO FUSION JOINTING PROCEDURE

Electro Fusion Fittings contain electrical filament contamination coming into contact with the inside wires which, when correctly connected to an appropriate power source for the specified period of time, will fuse the coupling onto the pipe. The correct jointing procedures for the installation of Electro Fusion couplers are contained within WIS 332-08.

Electro Fusion fittings for water and sewerage applications in both PE80 and PE100 are manufactured in accordance with WIS 4-32-14 and EN 12201-3 It is possible to join dissimilar polyethylene pipe and wall thickness by using Electro Fusion fittings.

For example PE80 fittings may be used to join to PE100 pipe.

- 1. Tooling required for the welding of an Electro Fusion fitting is a suitable Electro Fusion control box with power supply and a scraper capable of removing 0.2-0.4mm from the outside of the polyethylene pipe. An alignment clamp should be used to ensure that the joint's movement is kept to a minimum during the heating and cooling cycle together, with cleaning cloths and an indelible pen. A welding shelter should also be used to provide protection of the welding area against adverse weather conditions and contamination.
- 2. Using cleaning cloths firstly clean the area of the pipe to be welded of any surface debris. Without removing the sealed packaging mark on the pipe the area which is to be scraped, i.e.; approximately 15-20mm beyond the insertion depth of the coupler.
- 3. Using a suitable pipe surface preparation tool "scraper" remove the pipe surface in the selected area to a depth of 0.2-0.4mm; it is imperative at this stage of the operation that this is preformed correctly. Wherever possible a mechanical end preparation tool is the preferred method of pipe surface preparation as it is capable of removing a continuous, even layer from the pipe surface. Do not touch the scraped surface.
- 4. Open one side of the sealed bag containing the Electro Fusion fitting and slide it on to the pipe. The Electro Fusion coupler is fitted with a centre stop. Slide the fitting along the pipe until it comes into contact with the centre stop. Mark the insertion **E.** Open one side of the bag containing the coupler depth using an indelible marker pen. Leave the bag and slide it on to the pipe. Then follow Electro over the end of the coupler to protect against Fusion Procedure From stage 1.

of the fitting. Scrape the second pipe as demonstrated in 3.

- 5. Remove the bag covering the coupler and insert the second pipe up to the centre stop. Then mark the insertion depth using an indelible marker pen.
- 6. Correctly position and fit the restraining clamp to the assembly. Clamps should always be used to secure an Electro Fusion assembly during the fusion cycle.
- 7. Having ensured the power supply is working correctly connect the Electro Fusion control box to the fitting and power supply. Follow the instructions given on the fusion box's display screen. Input the fusion time either by using the information embossed on the coupler or by using the bar code affixed to the fitting. The method used will depend on the type of control box being used. Once the coupler has completed the fusion cycle check that the melt indicators/melt wells show a successful fusion cycle has taken place. Melt wells, as shown above, should fill with melt to a point approximately flush to the surface of the fitting. The melt indicators fitted to predominantly smaller fittings will rise beyond the body of the Electro Fusion fitting. The coupler must be left in retaining clamps for the full cooling time specified on the fitting although the terminal leads may be removed with care at the end of the fusion time. Profuse pipe allows Electro Fusion couplers to be installed without the pipe having to be scraped in the area to be welded.
- A. Firstly remove any surface debris and clean the general area of pipe to be welded.
- **B.** Score the Profuse pipe skin beyond the insertion depth of the coupler. Guide the Pipe Exposure Tool in the direction of the arrow on the cutter around the pipe whilst depressing the cutter to lift the skin, resulting in a flared edge. Installing Electro Fusion Couplers when using Profuse Pipe Melt well Bar code Cooling time Fusion time.
- C. Turn the tool 90° and hook the cutting tool under the edge of the flared skin. Then cut along the pipe.
- D. Hold the edge of the skin and steadily peel the skin to expose the naturally coloured pipe beneath.

ELECTRO FUSION FAMILY



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