

EloFIT



**Polyethylene
Fittings for Water
and Gas Under
Pressure**

OUR COMPANY

On October 1st 2008, two of our companies, **NUPI S.p.A.** and **GECO System S.p.A.** - both founded more than 30 years ago - merged to become **NUPIGECO S.p.A.**



Combining their many years of experience and constant growth, the two firms decided to create a new flexible and advanced company, ready to play its role to satisfy the demands of the market whilst being environmentally astute.

"The height you attend depends on the depth of your roots"

Today, **NUPIGECO S.p.A.** offers a complete range of pipes and fittings, produced using the most modern thermoplastic materials and manufacturing processes. These product ranges are known worldwide by the following trademarks: **NIRON, MULTINUPI, ELOFIT, ELOTHERM, ELOPRESS, POLYSYSTEM, POLIETILENE TUBI, MULTIGECO, SMARTFLEX, OILTECH, SMARTCONDUIT ECOWAVE, RACCORDI PVC** and the **ELOSFERA** range: **NRGEO, ELOWEB** and **ELOSOLAR**.



These systems are known as real problem solving systems capable of supplying every kind of installation while reducing costs, avoiding wastes and increasing productivity.

Thanks to their quality, these products positively fulfil the most varied field tests and have obtained the most prestigious certifications, conforming to legislation from around the globe.

NUPIGECO S.p.A. is continuously investing in research and development programs, while strengthening the production systems, operated by a sophisticated technology that guarantees the highest quality of its products.

Customers can rely on the best quality materials and precise manufacture, obtained through completely automated production systems, and continuous on time deliveries that perfectly integrate the business functions in real time.

The company employs several quality systems and is **IQNET/CISQ** certified according to standards **UNI EN ISO 9001** and **UNI EN ISO 14001**.

ELOFIT

THE PRODUCT

ELOFIT is a system of electro-weldable fittings and special parts made of High Density Polyethylene PN 10, PN 16, PN20 and PN25 for conveying water and gas under pressure.

ELOFIT complies with the following standards:



UNI EN ISO 15494

Plastic piping systems for industrial applications - Polyethylene (PE100)



UNI EN 1555-3

Plastic piping systems for the supply of gaseous fuels - Polyethylene (PE80-PE100) - Part 3: Fittings



UNI EN 12201-3

Plastic piping systems for water supply - Polyethylene (PE80-PE100) - Part 3: Fittings

It also satisfies the requirements of UNI 9736 standards on tensile stress tests for metal-plastic transition fittings.

ELOFIT IS MADE of non-toxic materials, according to the provisions of the Ministerial Decree n° 174 of April 6th, 2004.

PROPERTIES OF THE MATERIAL

ELOFIT fittings are made of High Density Polyethylene by injection moulding. This means they have excellent resistance to:

- **CORROSION** even on aggressive soils. HDPE can be laid underground without any protection;
- **STRAY CURRENTS** since HDPE has very poor electrical conductivity;
- **IMPACT** even at low temperatures (-20°C);
- **CHEMICAL AGENTS** HDPE can withstand most chemical substances;
- **ABRASION** HDPE allows high water speed without erosion problems;
- **MICRO-ORGANISMS and TOXICITY** ELOFIT fittings are reliable through time for over 50 years.



QUALITY AND APPROVALS

The quality of Elofit fittings has been granted by the most prestigious international certification marks and laboratories:



FIELDS OF USE

ELOFIT is suitable for conveying and distributing:

- **DRINKING WATER** and **LIQUID FOODSTUFFS**
- **FUEL GAS**
- **AGGREGATE**

And for the following systems:

- **PURIFICATION**
- **CENTRALISED IRRIGATION**
- **CHEMICAL PLANTS**
- **PRESSURISED SEWERAGE FOR INDUSTRIAL AND CIVIL USE**
- **FIRE - PREVENTION NETWORKS**
- **RELINING (REFURBISHING OF OLD NETWORKS)**



ELECTRO-WELDING

The ELOFIT system is based on the electro-welding process.

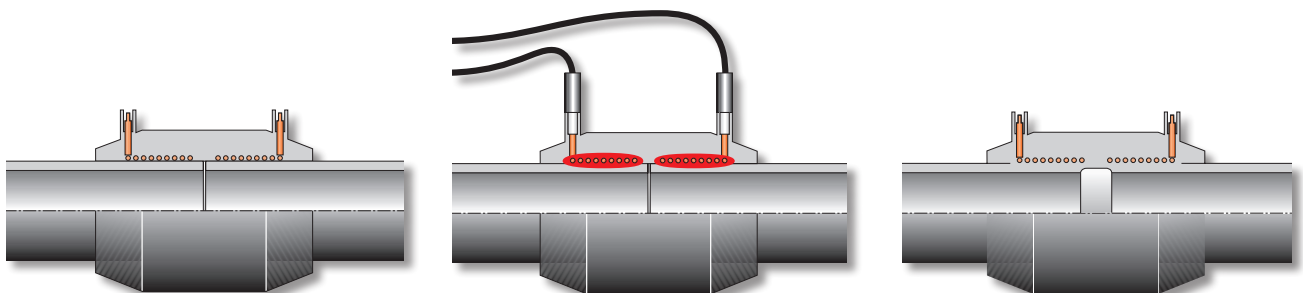
On the inside, the fittings house electrical resistances which are connected to the outside cable terminals.

When current moves through them, these resistances gener-

ate the heat needed to melt polyethylene. Energy is transmitted directly and exclusively to the surfaces where the fitting and the pipe come into contact with each other, causing heat

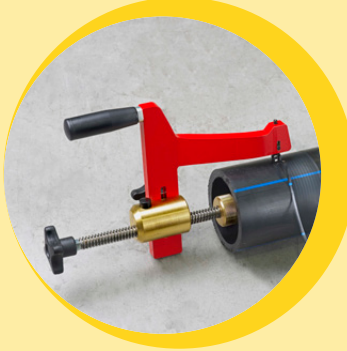
welding. The main features of ELOFIT are the high quality and reliability of the welding.

When it cools down, the connection is even, strong, safe and reliable.

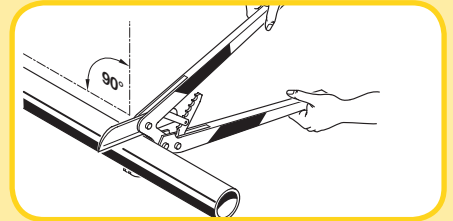


INSTALLATION

Use the ELOFIT welding unit to weld pipe and fittings perfectly.

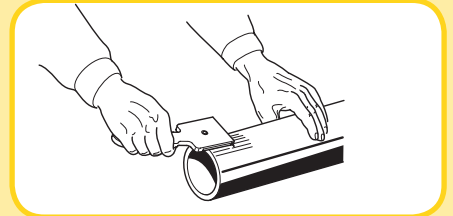


- 1 Cut the pipes perpendicularly using the pipe cutter.

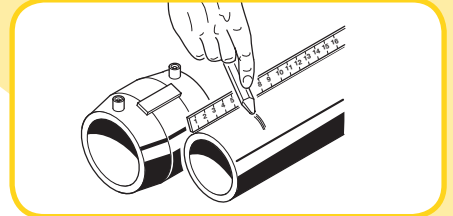


- 2 Use the appropriate tool to scrape the surface of the pipe evenly.

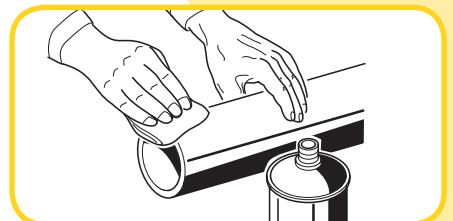
Make sure you remove the oxidised surface layer completely.



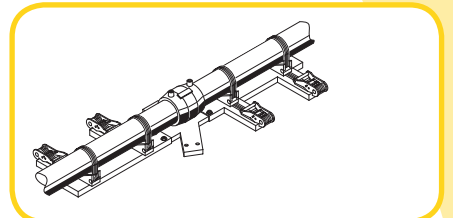
- 3 Mark the insertion length of the fitting on the pipe using the appropriate marker.



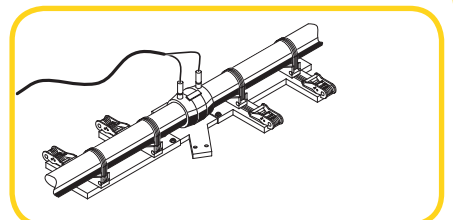
- 4 Use clean cloth and a specific liquid detergent to remove any grease and dirt from the ends of the pipes and the inner part of the fittings.



- 5 Hold the pipes into place using the aligner after having inserted the fitting.



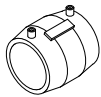
- 6 Connect the plugs of the welding unit to the cable terminals and weld according to the instructions shown on the interactive welding unit display.



THE RANGE

ELECTROFUSION FITTINGS

ELECTROFUSION STRAIGHT COUPLER



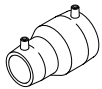
CODE	Ø
EME PN16	FROM 20 TO 800
DME PN10	FROM 110 TO 900
GME PN25	FROM 63 TO 450
EMEL LONG	FROM 32 TO 63
FME (SEWAGE)	FROM 110 TO 900

ELECTROFUSION END CAP



CODE	Ø
ECALE	FROM 20 TO 315

ELECTROFUSION REDUCING COUPLER



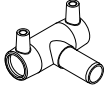
CODE	Ø
ERDE	FROM 25-20 TO 160-125

SINGLE WIRE E/F ELBOW



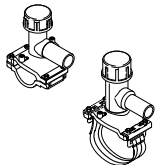
CODE	Ø
ECEM30 (30°)	FROM 90 TO 125
ECEM (45°)	FROM 32 TO 225
EGEM (90°)	FROM 20 TO 225

SINGLE WIRE E/F TEE WITH SPIGOT END



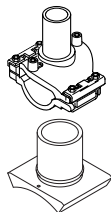
CODE	Ø
ETCE	FROM 20 TO 225
ETER	FROM 32-20 TO 160-125

ELECTROFUSION TAPPING SADDLE



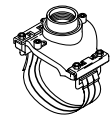
CODE	Ø
EPRES	FROM 40-20 TO 315-63
ALSO AVAILABLE:	
EPRESZ	FROM 63-32 TO 315-63
ZERO-LEAKAGE	
EPREV	FROM 90-32 TO 315-63
WITH PRESSURE TAPPING VALVE	
EPRESG YELLOW RANGE	FROM 40-20 TO 315-32
EPRESR RED RANGE	FROM 40-32 TO 315-63
WITH AUTOMATIC SAFETY GAS-STOP DEVICE	

ELECTROFUSION BRANCH SADDLE



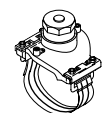
CODE	Ø
ECOL	FROM 40-20 TO 315-125
ECOL	FROM 90-90 TO 125-125
ECOLTL	FROM 200-160 TO 900-160
"TOP LOAD" TYPE	

FEMALE THREADED E/F BRANCH SADDLE



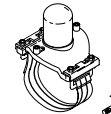
CODE	Ø
ECOLF	FROM 90X2" TO 315X2"

ELECTROFUSION BALLOON SADDLE



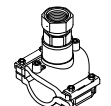
CODE	Ø
EPALG	FROM 90 TO 315

REPAIR SADDLES



CODE	Ø
ERIP	FROM 90 TO 900

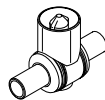
METER SADDLES



CODE	Ø
ECOLC	63X1/2"-63X3/4"-63X1"

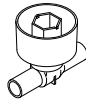
VALVES

PE VALVE FOR UNDERGROUND APPLICATION



CODE	Ø
EVS	FROM 50 TO 225

PE VALVE FOR GAS & WATER FOR UNDERGROUND APPLICATION STL100 TYPE



CODE	Ø
ESTL	FROM 20 TO 40

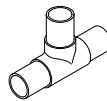
BUTT WELDING FITTINGS

LONG SPIGOT ELBOW



CODE	Ø
DG SDR17 PN10 S8 (90°)	FROM 63 TO 400
EG SDR11 PN16 S5 (90°)	FROM 25 TO 400
DC SDR17 PN10 S8 (45°)	FROM 63 TO 500
EC SDR11 PN16 S5 (45°)	FROM 32 TO 500

LONG SPIGOT 90° TEE



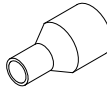
CODE	Ø
DT SDR17 PN10 S8	FROM 63 TO 400
ET SDR11 PN16 S5	FROM 25 TO 400
DTRS SDR17 PN10 S8	FROM 90-63 TO 315-225
ETRS SDR11 PN16 S5	FROM 90-63 TO 315-225

LONG SPIGOT CAP



CODE	Ø
DCAL SDR17 PN10 S8	FROM 63 TO 630
ECAL SDR11 PN16 S5	FROM 20 TO 630

SPIGOT REDUCER



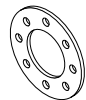
CODE	Ø
DRD SDR17 PN10 S8 (LONG)	FROM 75-63 TO 500-355
ERD SDR11 PN16 S5 (LONG)	FROM 32-25 TO 400-350
DRDC SDR17 PN10 S8 (SHORT)	FROM 250-180 TO 710-500
ERDC SDR11 PN16 S5 (SHORT)	FROM 225-160 TO 630-560
HRDC SDR9 PN20 MOP5 (SHORT)	FROM 225-160 TO 500-450

SPIGOT STUB



CODE	Ø
DCRT SDR17 PN10 S8 (LONG)	FROM 63 TO 630
ECRT SDR11 PN16 S5 (LONG)	FROM 25 TO 630
HCRT SDR9 PN20 MOP5 (LONG)	FROM 63 TO 450
DCRTC SDR17 PN10 S8 (SHORT)	FROM 110 TO 800
ECRTC SDR11 PN16 S5 (SHORT)	FROM 110 TO 630

FREE FLANGE AND GASKET



CODE	Ø
ALLUMINIUM, GALVANIZED STEEL AND POLYPROPYLENE	
FOR PN10 AND PN16	FROM 25 TO 630

SWEEP BEND (UPON REQUEST)



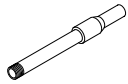
CODE	Ø
NO WELDING 90°, 60°, 45°, 30° 22°, 11° SWEEP BEND	
DCSS SDR17 PN10 S8	FROM 110 TO 630
ECSS SDR11 PN16 S5	FROM 110 TO 630

THE RANGE

TRANSITION FITTINGS

PE/STEEL THREADED TRANSITION FITTING

CODE	Ø
ERPEAF	FROM 25X3/4" TO 110X4"
GRPEAF	FROM 32 TO 125



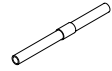
PE/STEEL THREADED LONG TRANSITION FITTING

CODE	Ø
ERPEALL	FROM 25X3/4" TO 63X2"



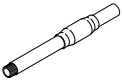
PE/STEEL TRANSITION FITTING

CODE	Ø
ERPEAL	FROM 75X65 TO 315X300



PE/STEEL THREADED TRANSITION FITTING WITH ANTICORROSION PROTECTION

CODE	Ø
ERPEARC	FROM 25X3/4" TO 110X4"
ERPEARCZ	FROM 25X3/4" TO 110X4"
GALVANISED PE/STEEL	



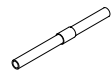
PE/STEEL THREADED CURVED TRANSITION FITTING

CODE	Ø
ERTCF	FROM 25X3/4" TO 90X3"
ERTCFZ	FROM 25X3/4" TO 90X3"
GALVANISED PE/STEEL	



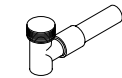
PE/STEEL TRANSITION FITTING

CODE	Ø
S5ERPEAL MOP5 S5	FROM 20X18 TO 315X300
S8ERPEAL MOP3 S8	FROM 90X80 TO 315X300



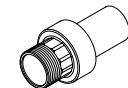
PE/STEEL TRANSITION FITTING TO TEE

CODE	Ø
ERTT	FROM 32X25 TO 90X80



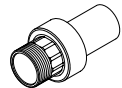
PE/STEEL THREADED FITTING

CODE	Ø
ERMA (MALE)	FROM 20X1/2" TO 125X4"
ERFA (FEMALE)	FROM 20X1/2" TO 125X4"



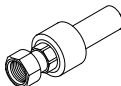
PE/BRASS THREADED FITTING

CODE	Ø
ERFM (MALE)	FROM 20X1/2" TO 125X4"
ERFF (FEMALE)	FROM 20X1/2" TO 125X4"



TRANSITION FITTING WITH LOOSE RING NUT

CODE	Ø
EBD	FROM 20X1/2" TO 63X2"



PE/CAST IRON TRANSITION FITTING

CODE	Ø
ERPAG	FROM 25X3/4" TO 125X4"



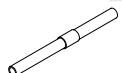
PE/COPPER - STEEL SPIGOT TRANSITION FITTING

CODE	Ø
EA	FROM 25X18 TO 32X28
	FOR RADIAL COMPRESSION



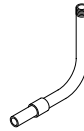
PE/COPPER - STEEL TRANSITION FITTING

CODE	Ø
EAR	FROM 25X18 TO 40X28
	FOR RADIAL COMPRESSION OR WELDING



PE/COPPER - STEEL CURVED TRANSITION FITTING

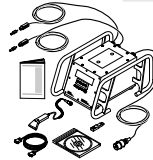
CODE	Ø
EARC	FROM 20X18 TO 32X28
	FOR RADIAL COMPRESSION OR WELDING



WELDING UNITS AND TOOLING

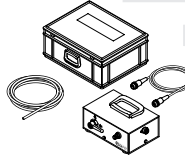
MULTI-FUNCTION WELDING UNIT WITH BAR CODE READER

CODE	Ø
E8500	FROM 20 TO 315
E9001 (48V/230V)	FROM 20 TO 630
	INTEGRATED BLUETOOTH SYSTEM



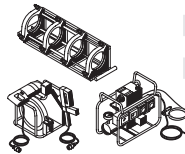
PRESSURE TEST UNIT

CODE	Ø
SENS	FROM 1 MBAR TO 200 BAR



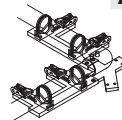
BUTT WELDING UNIT

CODE	Ø
S10160	FROM 40 TO 160
S10250	FROM 90 TO 250
S10315	FROM 90 TO 315



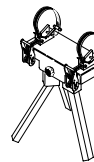
ALIGNER WITH BELTS

CODE	Ø
ALL063/4	FROM 20 TO 63
ALL225/4	FROM 50 TO 225
ALL315/4	FROM 225 TO 400



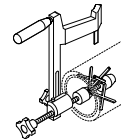
PIPE SUPPORT

CODE	Ø
TR250	FROM 90 TO 250



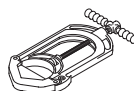
REVOLVING SCRAPER

CODE	Ø
RAT	FROM 32 TO 800



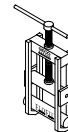
GUILLOTINE PIPE CUTTER

CODE	Ø
TA	FROM 125 TO 315



PIPE SQUEEZER

CODE	Ø
SCH	FROM 20 TO 180



nupigeco

Registered Office and Headquarters

via Stefano Ferrario
21052 Busto Arsizio (VA)
Italy
Ph. +39 0331-344211
Fax +39 0331-351860
info@nupigeco.com
www.nupigeco.com

Production, Operations and Administration Centre

via dell'Artigianato 13
40023 Castel Guelfo (BO)
Italy
Ph. +39 0542-624911
Fax +39 0542-670851
info@nupigeco.com
www.nupigeco.com

Production Facility

via Colombarotto 58
40026 Imola (BO)
Italy
Ph. +39 0542-624911
Fax +39 0542-670851
info@nupigeco.com
www.nupigeco.com

