EloPRESS

PP Compression Fittings

nupigeco

THE 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. Today, **NUPIGECO** 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, SMARTFLEX, OILTECH, SMARTCONDUIT, ELOFIT, ELOTHERM, ELOPRESS, POLYSYSTEM, MULTIGECO, POLIETILENE TUBI, ECOWAVE and RACCORDI PVC.** These systems are known as real problem solving systems capable of supplying any 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.

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

NUPIGECO, a flexible and future-has always been respectful of the environment and is economically and socially committed in the research and development of alternative energy through the **ELOSFERA** range, comprising **ELOSOLAR** (photovoltaic systems), **ELOWEB** (heating and cooling systems) and **NRGEO** (geothermal energy). In order to satisfy even the most demanding customers, the "**ELOSFERA** division" is made up of engineers and professionals who dedicate themselves to this cause, for a Man and Nature-oriented future.

NUPIGECO is continuously investing in research and development programs, while strengthening the produc¬tion 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 com¬pletely automated production systems, and continuous on time deliveries that perfectly integrate the business functions in real time.

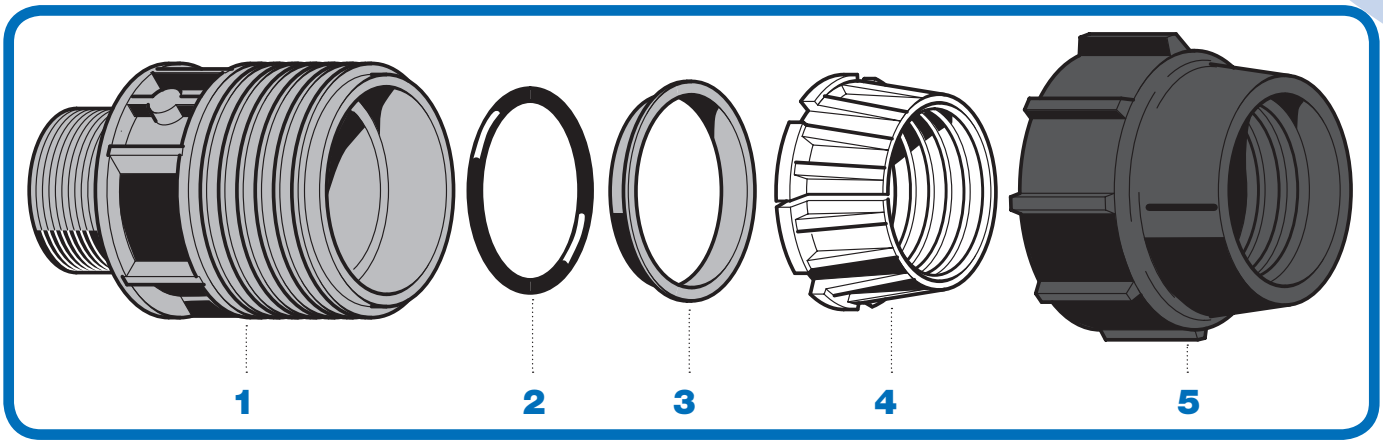
The company employs several quality systems and is **IQNET/CISQ** certified according to standards **UNI EN ISO 9001** and **UNI EN ISO 14001**.

THE PRODUCT

ELOPRESS compression fittings are used for the conveyance of drinking water and alimentary fluids and are suitable for high, medium and low density PE pipes at a maximum operating temperature of 20°C. They comply with **UNI 9561** standard.

ELOPRESS fittings are suitable for:

- **Distribution of drinking water**
- **Conveyance of alimentary fluids**
- **Fire prevention networks**
- **Pressurized systems**
- **Irrigation networks**



ELOPRESS compression fittings are mechanical joints from ø 16 mm up to ø 110 mm and are composed as follows:

1 Body

2 Gasket (O-ring)
The nitric rubber gasket leans on the pipe surface, guaranteeing a perfect hydraulic seal.

3 Thrust ring

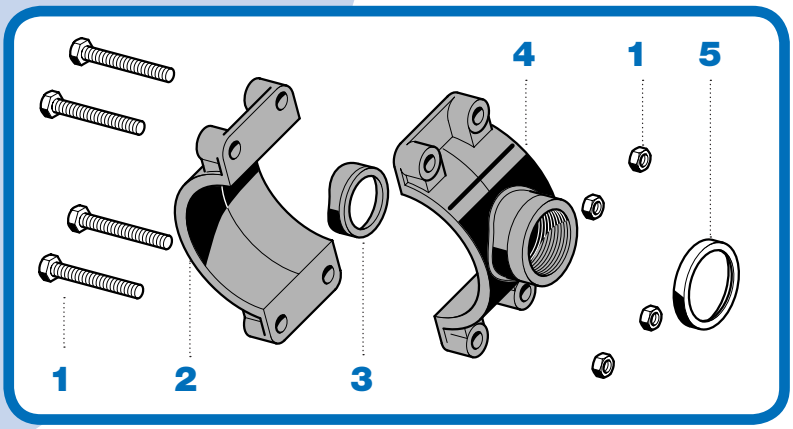
4 Split ring
Its conic shape ensures a perfect mechanical seal to the piping system when the nut is tightened to the fitting body.

5 Nut

THE PRODUCT

The **ELOPRESS** product range is completed by a wide selection of clamp saddles from ø 25 to ø 160 mm. They are available both in standard version and with stainless steel ring. The clamp saddles are composed of two polypropylene parts, held together by bolts and 2 nitric rubber gaskets that ensure a perfect seal. The number of bolts depends on the diameters: 2 bolts for ø 25-50 mm, 4 bolts for ø 63-90 mm and 6 bolts for ø 110-160 mm.

1. **Bolts and nuts**
2. **Base**
3. **Gasket**
4. **Upper part with outlet**
5. **Reinforced ring**

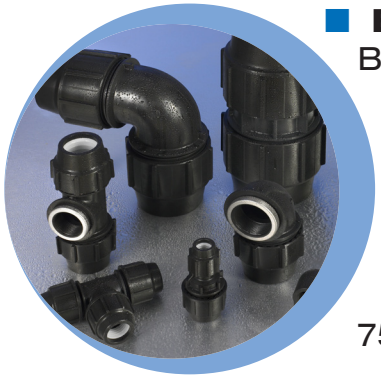


THE MATERIAL

- **Nominal pressure at 20°C**
  PN16 (16 bars) fittings Ø 16-63 mm
  PN10 (10 bars) fittings Ø 75-110 mm
  PN10 clamp saddles

- **Health prescriptions**
  ELOPRESS fittings meet the **Standards for the conveyance of drinking water and alimentary fluids** according to the regulations in force in Italy.
  Circular Letter 102 dated 2nd December 78 by the Ministry of Health.

CHARACTERISTICS



- **Body:**
  Black copolymer polypropylene PP-B (Type 2)
  Max. temperature: 80°C*

- **Nut:**
  Black copolymer polypropylene PP-B (Type 2)
  Max. temperature: 80°C*

- **Gasket:**
  75 Shore nitric rubber (NBR)

- **Split ring:**
  White polyacetal

- **Reinforced ring:**
  “AISI 430” stainless steel

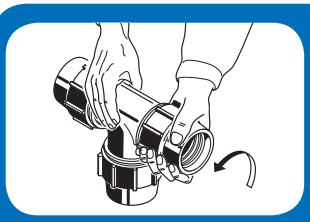
** Without pressure*

INSTALLATION

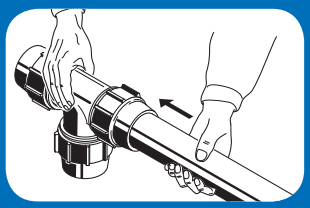
CUT THE PIPE WITH THE PIPE CUTTER, CHAMFER AND CLEAN THE PIPE BEFORE INSTALLATION

COMPRESSION FITTINGS Ø 16-63

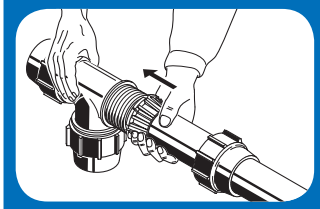
Unscrew the nut and the split ring while leaving them on the fitting body.



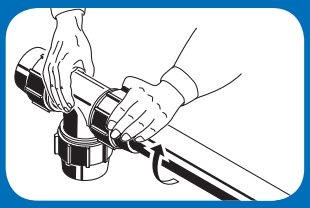
Insert the pipe into the fitting body and the o-ring until it reaches a complete stop.



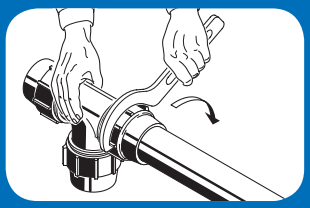
Slide the split ring until it reaches the fitting body.



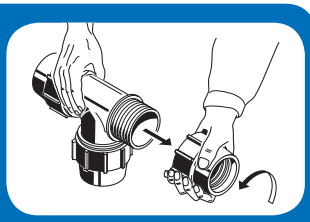
Screw the nut on the fitting body.



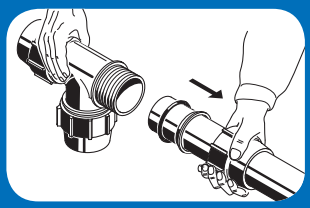
Use a wrench to completely tighten the nut.



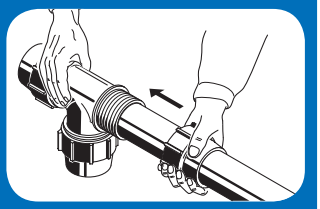
COMPRESSION FITTINGS Ø 75-110



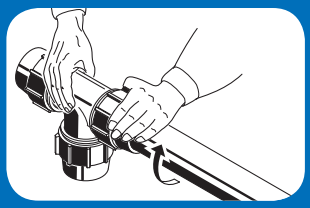
Unscrew the nut, the split ring, the thrust ring and the o-ring from the fitting.



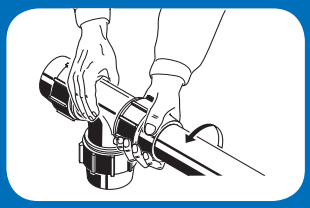
Insert the pipe into the nut, the thrust ring and the o-ring.



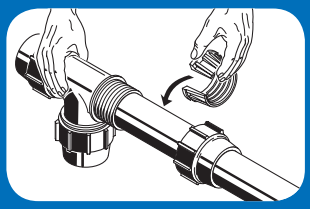
Lubricate the pipe end and insert it into the fitting body until it reaches a complete stop. Push the o-ring and the thrust ring inside the fitting body.



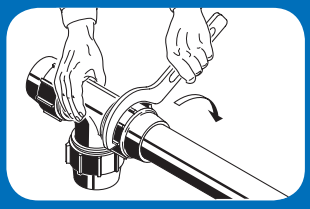
Screw the nut on the fitting body.



Unscrew the nut from the fitting body.



Place the split ring on the pipe until it reaches a complete stop.



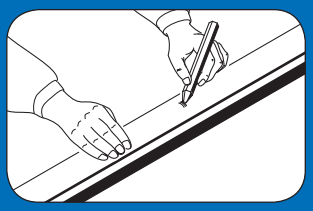
Use a wrench to completely tighten the nut.

INSTALLATION

CUT THE PIPE WITH THE PIPE CUTTER, CHAMFER AND CLEAN THE PIPE BEFORE INSTALLATION

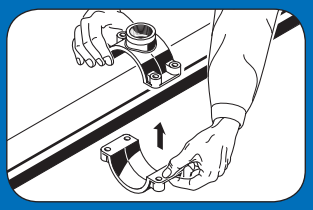
CLAMP SADDLES Ø 25-160:

Select the installation point and make sure that the outer surface of the pipe that is in contact with the gasket has no scratch, cut or other imperfections.



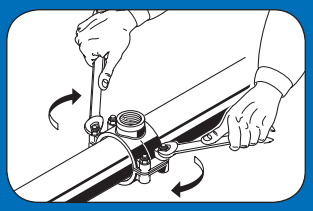
Position the bottom half of the saddle on the previously selected area of the pipe.

Connect the top half of the saddle with the bottom part.

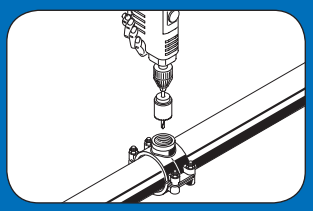


Insert the bolts from the bottom.

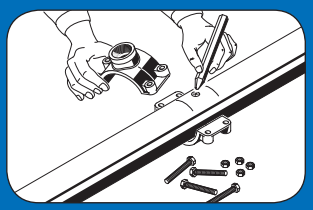
Tighten the nuts.



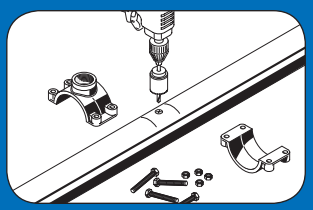
Drill the pipe. Be careful not to damage the thread of the saddle and the gasket. Use a spacer to avoid perforating the pipe on the other side. We recommend to use hole drill bits.



Alternatively, once the saddle has been assembled, remove it and mark the points which correspond to the position of the saddle with a white marker.



Drill the pipe and remove any PE shaving from inside the pipe.



Assemble the clamp saddle again according to the position previously marked. Use a pin to keep the outlet aligned with the hole.

THE RANGE

FITTINGS

MALE ADAPTOR

CODE	Ø
10KRFM	FROM 16-3/8" TO 110-4"

FEMALE ADAPTOR

CODE	Ø
10KRFF	FROM 16-1/2" TO 110-4"

COUPLER

CODE	Ø
10KMAN	FROM 16 TO 110

REDUCING COUPLER

CODE	Ø
10KR	FROM 20-16 TO 110-90

90° TEE

CODE	Ø
10KT	DE 16 TO 110

REDUCING 90° TEE

CODE	Ø
10KTR	FROM 25-20-25 TO 110-90-110

90° TEE WITH MALE OFFTAKE

CODE	Ø
10KTM	FROM 20-1/2" TO 110-4"

90° TEE WITH FEMALE OFFTAKE

CODE	Ø
10KTF	FROM 16-1/2" TO 110-4"

90° ELBOW

CODE	Ø
10KG	FROM 16 TO 110

90° ELBOW WITH FEMALE OFFTAKE

CODE	Ø
10KGF	FROM 16-1/2" TO 110-4"

90° ELBOW WITH MALE OFFTAKE

CODE	Ø
10KGM	FROM 16-3/8" TO 110-4"

END CAP

CODE	Ø
10KTAPPO	FROM 16 TO 110

FLANGED JOINT

CODE	Ø
10KRFL	FROM 50-1 1/2" TO 160-5"

WRENCH FOR NUT

CODE	Ø
00CHIAVE	FROM 25 TO 110

KIT OF WRENCHES

CODE	Ø
00CKIT	25÷63 - 75÷110 - 25÷110

CLAMP SADDLES

CLAMP SADDLE

(A)

CODE	Ø
10KPS (A)	FROM 25 X 1/2" TO 50 X 1"1/4
10KPS (B)	FROM 63 X 1/2" TO 90 X 2"
10KPS (C)	FROM 110 X 1/2" TO 160 X 3"

(B)

(C)

CLAMP SADDLE WITH METAL STIFFENING

(A)

CODE	Ø
10KPSX (A)	FROM 25 X 1/2" TO 50 X 1"1/4
10KPSX (B)	FROM 63 X 1/2" TO 90 X 2"
10KPSX (C)	FROM 110 X 1/2" TO 160 X 3"

(B)

(C)

DOUBLE CLAMP SADDLE

(A)

CODE	Ø
10KPSD (A)	FROM 25 X 1/2" TO 50 X 1"1/4
10KPSD (B)	FROM 63 X 1/2" TO 90 X 2"
10KPSD (C)	FROM 110 X 1/2" TO 160 X 3"

(B)

(C)

DOUBLE CLAMP SADDLE WITH METAL STIFFENING

(A)

CODE	Ø
10KPSDX (A)	FROM 25 X 1/2" TO 50 X 1"1/4
10KPSDX (B)	FROM 63 X 1/2" TO 90 X 2"
10KPSDX (C)	FROM 110 X 1/2" TO 160 X 3"

(B)

(C)

TRANSITION SYSTEMS

TRANSITION COUPLER

CODE	Ø
10KRAMAN	25 X 22 MM

PE/COPPER TRANSITION KIT

CODE	Ø
10KRAKIT	25 X 22 MM

TRANSITION COUPLER

CODE	Ø
10KARAMAN	FROM 16 X 1/2" TO 32 X 3/4"

TRANSITION ELBOW

CODE	Ø
10KARAG	FROM 20 X 1/2" TO 25 X 3/4"

TRANSITION TEE

CODE	Ø
10KARAT	FROM 20 X 1/2" TO 25 X 3/4"

TRANSITION BRASS 90° ELBOW THREADED FEMALE WITH HANGER AND PE COMPRESSION SYSTEM

CODE	Ø
10KAWP	FROM 20 X 1/2" TO 25 X 3/4"

PE/COPPER TRANSITION KIT

CODE	Ø
10KARAKIT	FROM 20 X 1/2" TO 32 X 1"

'VITON PVC' KIT

CODE	Ø
10KAPVCKIT	FROM 16 TO 110

SPARE PARTS

NUT

(1) (2)

CODE	Ø
20KGH (1)	FROM 16 TO 40
20KGH (2)	FROM 50 TO 110

GASKET

CODE	Ø
20KORR	FROM 16 TO 40

SPLIT RING

CODE	Ø
20PINZA	FROM 16 TO 110

THURST RING

CODE	Ø
20KANELLO	FROM 16 TO 110

GASKET FOR CLAMP SADDLES

CODE	Ø
20KORS	FROM 25 TO 125/160

studio montevecchi imola

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