

FLEX TITE

Product Overview
Company Profile



**Multilayer Pipe and
Mechanical TiteFit™ Fittings
for Compressed Air Systems**





Production, Operations & Administration Center - NUPI AMERICAS INC. - Early Branch (SC)



Registered Office and Headquarters - Busto Arsizio (VA)



Production Facility - Castel Guelfo di Bologna (BO)



Production Facility - Imola (BO)



Production Facility - Borsano di Busto Arsizio (VA)

Nupi Americas has its roots in Italy through **NUPI S.p.A. and GECO System S.p.A.** – companies both founded in the early 1970s – that merged to **become NUPIGECO S.p.A. in 2008.** In October 2015, NUPIGECO S.p.A., changed its name to **NUPI INDUSTRIE ITALIANE S.p.A.**

NUPI INDUSTRIE ITALIANE and Nupi Americas together develop and manufacture piping systems for use in industrial, sanitary (plumbing), HVAC, waterworks, gas and irrigation markets. Relying on experience and constant growth, our companies have proven to be cutting edge manufacturers, ready to meet the needs of the market while also protecting the environment.

NIRON is a complete Polypropylene pipe and fitting system for the distribution of hot and cold water in plumbing and air conditioning systems, for the conveyance of drinking water and alimentary fluids, industrial plants and for the transport of compressed air and chemical substances.

The pipes and fittings that compose the **NIRON range are manufactured using Random Copolymer Polypropylene (PP-RCT),** a plastic material with a special molecular structure ensuring high mechanical resistance and duration even at high temperatures and pressures.

Our trademarked systems are real system solutions, covering a wide range of applications, reducing costs, avoiding waste and increasing productivity. **Thanks to their quality, these products have passed many different tests and have obtained the most prestigious certificates** and listings, in line with the regulations of the five continents for the construction of water and gas networks and systems for the transport of fuels. Producing better quality and being cost effective is the goal, which is made easier everyday by new technology.

Our companies are continuously investing in research and development programs, while strengthening our production systems. operated by a sophisticated technology that guarantees the highest quality of products. Our facilities use modern state-of-the-art computer controlled production equipment and methods that guarantee products of the highest quality **together with continuous quality control systems.**

On these solid foundations **NUPI INDUSTRIE ITALIANE and Nupi Americas demonstrate leadership throughout the thermoplastic piping industry.**

Our customers can rely on the best quality materials and precise manufacture, obtained through completely automated production systems and continuous on-time deliveries, resulting in timely deliveries which allow planning to be done in real time.

Customer satisfaction is pursued through high quality products and the **constant attention to our customers' needs and requirements and by means of an effective team of people in post-sales service effective and precise technical assistance and intensive training of installers.**

THE PRODUCT

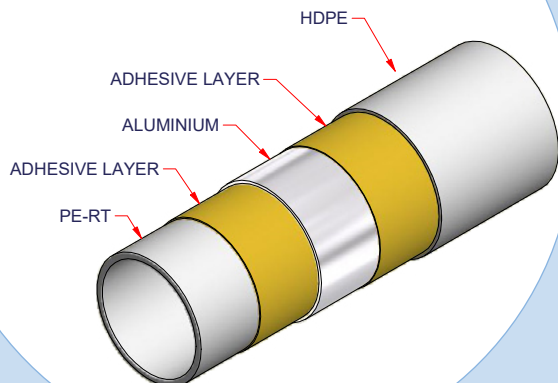
FLEX TITE

is a system composed of **multilayer U.V. protected pipes** and **TiteFit™ fittings** for compressed air systems installations

MULTILAYER PIPE

The PIPE used in FlexTite™ systems is a **multilayer pipe composed of 5 layers perfectly joined** to each other thanks to an innovative technological process made possible by the use of avant-garde equipment.

- High density polyethylene (HDPE)
- Adhesive layer
- Aluminium
- Adhesive layer
- Raised temperature polyethylene (PE-RT)



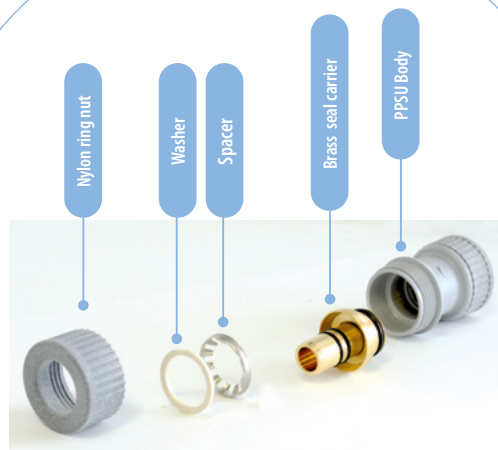
The first extruded PE-RT layer provides resistance to high temperatures. An adhesive layer is added to this pipe to wrap the aluminium layer in the next phase. The fully-welded aluminium layer is of different thickness depending on the diameter. The aluminium makes the pipe malleable similar to copper. Once a second adhesive layer is applied, an external high density polyethylene layer with **UV protection** is extruded to protect the pipe and make it resistant to external agents. The pipe is produced in nominal pipe diameters of ½" - ¾" - 1" and in 328 ft coils or 10 ft straight lengths.

TiteFit™ FITTINGS

The fittings consist of:

- Nylon ring nut
- Plastic washer
- Stainless steel spacer
- Brass seal carrier
- EPDM O-rings
- Brass body for threaded fittings /
- PPSU Body for non-threaded fittings

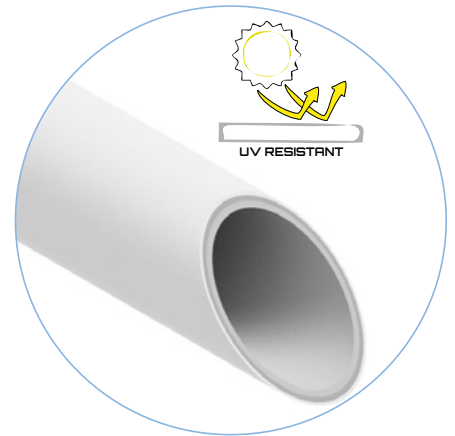
A pressure-tight seal is guaranteed by the compression of the outer sleeve of the fitting on the pipe end that is obtained by compressing the stainless steel bushing of the fitting.



FLEX TITE

COMPRESSED AIR MAINS

When pipe diameters **excede 1"** the **NIRON Clima Cool-Pro PP-RCT pipe with POWERCORE™** product is the **perfect choice** for mains because of its U.V. resistance, it's resistance to poor environments, and it's incredibaly smooth surface which leadsto very low pressure drops. For compressed air systems SDR 7.4 is used.



Transition fittings used from the NIRON Clima Cool-Pro to the FlexTite lines are offered in several different variations.

AIR CAPACITY

PSI	NPS	½"	¾"	1"
	de	0.629 in	0.787 in	1.023 in
	d	0.472 in	0.629 in	0.787 in
30	cfm	11.1	22.8	40.0
60	cfm	14.8	30.2	53.0
100	cfm	18.5	38.0	66.5
125	cfm	20.5	42.0	73.7

PRODUCT RANGE

PIPING SYSTEM

MULTILAYER PIPE STICK WITH UV PROTECTION

CODE	inches
TFLEX_B10	from ½"(16mm) to 1"(32mm) (PIPE LENGTH 10 FT)



MULTILAYER PIPE COILS WITH UV PROTECTION

CODE	inches
TFLEX_R328	from ½"(16mm) to 1"(32mm) (PIPE LENGTH 328 FT)



MALE THREADED ADAPTER

CODE	inches
FRFM_NPT	from ½"(16mm) x ½"NPT to 1"(32mm) x ¾"NPT



FEMALE THREADED ADAPTER

CODE	inches
FRFF_NPT	from ½"(16mm) x ½"NPT to 1"(32mm) x ¾"NPT



MALE THREADED 90° ELBOW

CODE	inches
FGM_NPT	from ½"(16mm) x ½"NPT to 1"(32mm) x ¾"NPT



FEMALE THREADED 90° ELBOW

CODE	inches
FGF_NPT	from ½"(16mm) x ½"NPT to 1"(32mm) x ¾"NPT



FEMALE THREADED 90° ELBOW WITH BRACKET

CODE	inches
FGTFDF_NPT	from ½"(16mm) x ½"NPT to ¾"(20mm) x ½" NPT



COUPLING

CODE	inches
FMAN	from ½"(16mm) to 1"(25mm)



90° ELBOW

CODE	inches
FG	from ½"(16mm) to 1"(25mm)



EQUAL TEE

CODE	inches
FT	from ½"(16mm) to 1"(25mm)



REDUCING TEE

CODE	inches
FTR	from ½"(16 mm) x ¾"(20 mm) x ½"(16 mm) to ½"(16 mm) x 1"(25 mm) x 1"(25 mm)



BALL VALVE

CODE	inches
FRS	from ½"(16 mm) to ¾"(20 mm)



TRANSITION COUPLING SOCKET POLYPROPYLENE TO FLEXITITE

CODE	inches
FMANT	from ½"PP x ½"Flex to 1"PP x 1"Flex



ELECTROFUSION TRANSITION SADDLE PPR TO FLEXITITE

CODE	inches
FCOLT	from ø1½"(50mm) x ½"(16mm) to ø8"(200mm)x1"(25mm)



WITH RIGID UNDER CLAMP



WITH BELT

EQUIPMENT

UNIVERSAL REAMER

CODE	inches
ALES16202526YU	from ½"(16mm) to 1"(25mm)



LUBRICATING GREASER

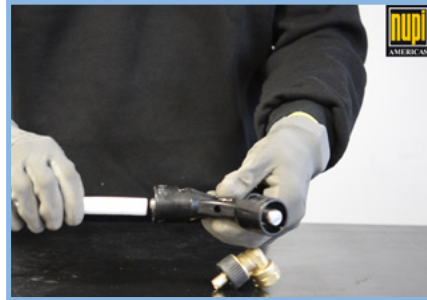
CODE	inches
SL	all



FASTER INSTALLATION IN 3 STEPS



1. Lubricate the universal reamer with the appropriate lubricating grease. Alternatively you can apply soapy water onto the TiteFit™ fitting.



2. Calibrate and chamfer the pipe with the universal reamer.



3. Insert the TiteFit™ fitting into the pipe until the stop.

FLEXITITE



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