

OUR COMPANY

NUPI INDUSTRIE ITALIANE S.p.A., the parent company of Nupi Americas, was founded over 40 years ago and today offers a complete range of pipes and fittings, produced using the most modern thermoplastic materials and manufacturing processes.

These systems solve many known problems of traditional materials, and can be installed in a wide range of installations while reducing costs, avoiding waste and increasing productivity.



Thanks to their quality, these products pass the requirements of a wide variety of national and international standards and have obtained numerous certifications and listings around the globe.

NUPI INDUSTRIE ITALIANE S.p.A. is continuously investing in research and development programs, while upgrading production systems with sophisticated technology that quarantees products of the highest quality.

Customers can rely on the best quality materials and precise manufacture, obtained through fully automated production

systems, and continuous on-time deliveries for the success of every project.

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

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

NUPI AMERICAS, Inc. was founded in 2001 in Houston, TX by NUPI INDUSTRIE ITALIANE S.p.A. as its North American subsidiary for production and sales of its Oiltech, Smartflex, Elofit, Elopress, Elamid and SmartConduit systems. Today, NUPI AMERICAS is proud to introduce our Niron Polypropylene piping systems.



Since 2001 NUPI AMERICAS produced more 20 million feet of pipe, with over 4 million feet produced in 2013. With two extrusion lines currently operating, plans to increase production capacity and extensive warehouse space for maintaining a central inventory of fittings, NUPI AMERICAS is positioned to respond quickly to market needs for its unique piping systems. The production of multilayer and monolayer pipe combined with a complete range of electrofusion, heat fusion and mechanical fittings allows NUPI AMERICAS to provide cutting edge solutions to complex technological issues.

NUPI AMERICAS combines high productivity and constant high quality standards while being fully conscious of the environment. The synergy between research, production, quality control and post-sales service allowed the company to obtain many international quality certifications for various product ranges. Its market leadership is well maintained thanks to high quality products and the constant attention to customer's needs and requirements, and by means of an effective team of people in post-sales service, and effective and precise technical assistance and the training of installers.



THE PRODUCT

The NIRON brand identifies a Random Copolymer Polypropylene (PP-RCT) pipe and fitting system produced by Nupi Americas, manufactured to ASTM F2389 and CSA B137.11 standards.

NIRON is a piping system used for all kinds of water applications including hot and cold potable water applications, hydronic heating applications, and both chilled water and cooling tower circulation pipes. The system can be used for large multi-family residential buildings, hotels, hospitals, malls, churches, schools, gymnasiums, cruise liners and merchant ships. The NIRON system is also used in industrial installations for the conveyance of compressed air and several commonly used chemical substances.

ADVANCED PP-RCT MATERIAL

Niron is manufactured from 100% Beta PP-RCT material, a highly crystalline form of PPR which allows for up to twice the pressure rating at higher temperatures and superior chlorine resistance.

ABSOLUTE RELIABILITY

Produced since 1982, the NIRON system has been sold in all 5 continents. Over 150,000 miles of pipes and fittings have been shipped with complete customer and installer satisfaction.



The NIRON system obtained the most prestigious international quality certificates but to us quality stands for complete customer satisfaction. This is obtained exclusively through the supply of products having features that completely fulfil the application requirements.

■ COMPLETE RANGE

NIRON pipes and fittings - from 1/2 to 24 inches - are available in a wide range of fittings and joining methods to solve any installation problem.



LOW THERMAL EXPANSION

This is obtained thanks to the new composite piping NIRON FG and NIRON CLIMA produced with an innovative coextrusion technology.

Their inner layer is made of PP copolymer reinforced with fiberglass to reduce the linear thermal expansion up to 73%.

SPEED OF INSTALLATION

Unquestionably the biggest advantage of NIRON lies in the speed of installation.

Due to easy joining methods, time of installation can be reduced by 30 to 50%.

* NIRON, grey pigmented PP piping with red outer coating and longitudinal grey stripes, and grey pigmented PP piping with blue outer coating and longitudinal grey stripes are trademarks of Nupi Americas, a subsidiary of Nupigeco, S.p.A.





THE PRODUCT

NO CORROSION OR SCALING

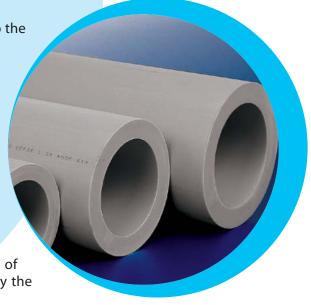
Polypropylene is a poor conductor of electricity, so the NIRON system is cannot be affected by corrosion. Furthermore, thanks to its smooth inner surface, any type of lime incrustation is avoided.

ENERGY SAVING

The low thermal conductivity of polypropylene allows for considerable energy savings compared to metallic materials, and reduces insulation cost.

LOW NOISE INSTALLATION

The noise absorption properties and elasticity of this material soften noise and vibrations caused by the water flow and the water hammer effect.



RESISTANCE TO EXTREME TEMPERATURES AND THERMAL EXPANSION

The NIRON system is tested to resist temperatures up to boiling water and freezing conditions. NIRON FG piping allows thermal expansion to be reduced to levels similar to copper piping.

ABRASION RESISTANCE

The high resistance of NIRON pipes eliminates erosion problems and allows high speed water flow.

NO TOXICITY

The NIRON system is absolutely non-toxic and complies with national and international health standards.

30 YEAR WARRANTY

The NIRON system is covered by third party liability insurance in accordance to EC standards no. 85/374 and to D.P.R no. 244 dated 24th May 1988 - Italian law.









WIDE RANGE OF JOINING METHODS

Niron offers the widest range of joining options of any PPR product line with five primary joining methods and a complete range of fitting sizes. Niron can be joined by butt fusion and electrofusion thru 24 inch.

SOCKET FUSION

Niron offers socket fusion for full pressure joining with a full range of fittings in ½ inch through 5 inch sizes. Joints can be made using hand held tools, and in large sizes with bench-style tools for maximum effectiveness.



BUTT FUSION

Niron offers butt fusion with long spigot fittings starting at 2 inch and through 24 inch. Butt fusion is often a more fabrication friendly technique compared to socket fusion in sizes of 2 inch through 5 inch, and customers can take advantage of this feature of the Niron system.



ELECTROFUSION

Electrofusion offers a superior and cost effective ability to solve difficult installation challenges. Niron is the only PPR system available with a full fitting system allowing electrofusion in sizes of ½ through 8 inch. Niron's fittings are manufactured using single wire technology, which means welds are fused simultaneously for every elbow, tee and reducer for highly efficient labor rates. Niron electrofusion may be performed from 10" through 24" using Niron couplings.



COMPRESSION

Niron can be joined using a compression method, by the hand tightening of compression nuts of fittings and couplings. A full range of fittings are available in sizes of ½" through 4". The system is rated to 150 psi at ambient temperatures, and is rated to 90 psi for temperatures of up to 160°F in sizes through 2 inch and to 90 psi for temperature of up to 140°F in sizes of 2½" through 4 inch. Niron compression fittings and couplings may be disassembled and re-used, which adds versatility. Transition couplings are also available for connection to copper and copper-tube size systems.

SADDLE WELDING

Niron offers a full variety of saddle fusion fittings that allow small diameter branches to be made into larger pipes without the expense of adding reducing tees. Niron has saddles available which allow both socket fusion outlets, as well as, long spigot outlets (in select sizes). In addition, saddle parts are available with female threaded adapters, as well as, male transition parts to allow for a variety of PEX transitions. Custom headers can be created on site, or in the fabrication shop to prefabricate any kind of header combination that is required. Saddle welding offers substantial labor savings in comparison to installations involving copper piping.



PRODUCT RANGE

NIRON PIPING SYSTEM

NIRON BLUE PP-RCT PIPE



MONOLAYER PP-RCT PIPE **BLUE WITH GREY STRIPES** FOR COLD WATER

SDR 7.3 FROM 1/2" TO 3/4" SDR 9

SDR 11 FROM 11/4" TO 6" SDR 17 FROM 2" TO 6" PIPE LENGTH 20 FT

NIRON FG RED PP-RCT PIPE



MULTILAYER PIPE PP-RCT + FIBERGI ASS RED WITH GREY STRIPES FOR HOT WATER

SDR 7.3 FROM ½" TO 6" SDR 9 FROM 1" TO 6" SDR 11 FROM 11/4" TO 6" PIPE LENGTH 20 FT

NIRON CLIMA PP-RCT PIPE



MULTILAYER CLIMA PIPE PP-RCT + FIBERGLASS **GREY**

FROM 1/2" TO 14" SDR 7.3 SDR 9

SDR 11 FROM 11/4" TO 16" SDR 17 FROM 2" TO 24" PIPE LENGTH 20 FT

NIRON MONO GREY PP-RCT PIPE



MONOLAYER PP-RCT PIPE

GREY

SDR 7.3 FROM 1/2" TO 3/4" SDR 9

SDR 11 FROM 11/4" TO 24" SDR 17 FROM 2" TO 24"

PIPE LENGTH 20 FT

NIRON CLIMA 11 DARK

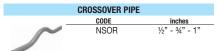


MULTILAYER CLIMA11 DARK PIPE WITH UV RAY BARRIER PP-RCT+FIBERGLASS+HDPE COVER

GREY AND BLACK COVER SDR 11 FROM 1" TO 16" PIPE LENGTH 20 FT

FITTINGS

	LONG RADIUS 90° ELBO	W
	CODE	inches
0-0	NCLR	1/2" - 3/4"



	an, Frrom	
	CODE	inches
00	NG (SOCKET	FUSION)
		from ½" to 5"
	NGMM (LONG	SPIGOT)
		from 2" to 20'

FEM	IALE THREADED 90°	, ETBOM
	CODE	inches
	NGF	from 1/2" x 1/2"



MALE THREADED 90° ELBOW

CODE	inches
NGM	from 1/2" x 1/2"NP
	to 1" x 1" NPT

FEMALE THREADED BACK PLATE 90°

		6		
		J		
6		1	2	
- 0	M		1	

CODE	inches
NTER	1/2" x 1/2" NPT

FEMALE THREADED WINGED 90°

1
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CODE NGTF 1/2" x 3/8" NPT 1/2" x 1/2" NPT

MALE THREADED WINGED 90°

	6		
4	ď	1	
15			198

inches 1/2" x 3/8" NPT 1/2" x 1/2" NPT

MOUNTING UNIT WITH ELBOWS



CODE inches NGVRF ½" x ½" NPT

TEMPLATE FOR EXTERNAL BATH TAPS

0	
	37
	-

CODE inches ½" x ½" NPT NGVF 34" x ½" NPT

FEMALE THREADED 90° ELBOW

FOR TEMPLATE inches CODE NGOF 1/2" x 3/8" NPT 34" x 1/2" NPT

MALE THREADED 90° ELBOW FOR TEMPLATE



CODE inches NGOM 1/2" x 1/2" NPT

STREET 90° ELBOW



CODE inches NGMF from 1/2" to 11/4"

FEMALE THREADED STREET 90° ELBOW



inches NGMFF 1/2" x 1/2" NPT

45° ELBOW



CODE inches NC45 (SOCKET FUSION) from 1/2" to 5" NC45MM (LONG SPIGOT) from 2" to 20"

STREET 45° ELBOW



inches CODE NC45MF from 1/2" to 1"

90° TEE



NT (SOCKET FUSION) from ½" to 5" NTMM (LONG SPIGOT) from 2" to 20"

FEMALE THREADED TEE W/NPT LEAD FREE BRASS



CODE inches from ½" x ½" NPT to 1" x 1"NPT

FEMALE THREADED TEE W/NPT STAINLESS STEEL



inches from ½" x ½" NPT CODE NTFSS to 1" x 1"NPT

MALE THREADED TEE W/NPT LEAD FREE BRASS



CODE inches from 1/2" x 1/2" NPT to 1" x 1"NPT

MALE THREADED TEE W/NPT STAINLESS STEEL



inches NTMSS from 1/2" x 1/2" NPT to 1" x 1"NPT

REDUCING TEE	
CODE	inches
NTR	from ¾" x ½" to 5" x 4"

MALE SIDE FUSION REDUCED TEE



CODE inches from 6" x 2" to 20" x 6" SDR11 - SDR17

FEMALE SIDE FUSION REDUCED TEE



inches from 3" x 11/4" to 14" x 4"

REDUCED CROSS



CODE inches from 1¼"x ½" x ½" x 1¼" to 114"x 34" x 34" x 114"

SLIDE ELBOW THREE OUTLTES



CODE inches NCTV



REDUCING BUSHING CODE inches from 34" x 1/2" to 6"x 4"

MALE CONCENTRIC REDUCER CODE



NR (LONG SPIGOT) from 2½"x1¼" to 24"x20" NRCC (SHORT SPIGOT) from 21/2"x11/4" to 24"x20"

COUPLING



CODE NMAN inches from 1/2" to 5"

PRODUCT RANGE

FEMALE THREADED ADAPTER



CODE inches NRFF (W/LEAD FREE BRASS) NRFF/L (STANDARD BRASS) from 1/2" x 1/2" NPT to 5" x 4"NPT

FEMALE THREADED ADAPTER



CODE

(W/NPT STAINLESS STEEL) from 1/2" x 1/2" NPT to 5" x 4"NPT

MALE THREADED ADAPTER



CODE inches NRFM (W/LEAD FREE BRASS) NRFM/L (STANDARD BRASS) from 1/2" x 1/2" NPT to 5" x 4"NPT

MALE THREADED ADAPTER



CODE inches NRFMSS

(W/NPT STAINLESS STEEL) from 1/2" x 1/2" NPT to 5" x 4"NPT

ALL-PLASTIC UNIONS WITH SOCKET FUSION ENDS



CODE inches NBRF from 1/2" to 2"

WELDING SADDLE W/SOCKET FUSION OUTLETS



CODE inches from 1½" x ½" NGS to 12" x 2"

MALE SIDE FUSION WELDING SADDLE



CODE inches from 2" x 8' NGSM to 6" x 12"

FEMALE SIDE FUSION WELDING SADDLE



CODE inches

NGSF (W/LEAD FREE BRASS) NGSF/L (STANDARD BRASS) from 11/4" x 1/9" NPT to 4" x 1"NPT

FEMALE SIDE FUSION WELDING SADDLE



CODE inches NGSFSS (W/NPT STAINLESS TEEL) from 1/2" to 14" NPT

END CAP



inches NCC (SOCKET FUSION) from 1/2" to 5" NCCM (LONG SPIGOT) SDR 11 - 17 from 2" to 8" NCCMS (SHORT SPIGOT) from 6" to 24" SDR 11 - 17

STUB FLANGE



CODE inches NCOSA (SOCKET FUSION) from 1" to 5" NCRT (LONG SPIGOT) SDR 7.3-11-17 from 1" to 12' NCRTS (SHORT SPIGOT) from 12" to 24" SDR 11-17

PP BACKING RING ENCAPULED ASA 150



FLAACPP from 1" x 10"

> inches from 1" x 18"

GASKET LOW - STRESS EPDM

GRET



ELECTROFUSION FITTINGS

ELECTROFUSION COUPLING



CODE inches from 1/2" x 24 NME

ELECTROFUSION REDUCER



inches CODE NRDE from 1/2" x 3/4" to 8" x 6"

inches

ELECTROFUSION 90° ELBOW CODE



NGFM from 1/2" to 81

ELECTROFUSION 45° ELBOW



CODE inches NCEM from 1" to 8"

ELECTROFUSION TEE



CODE NTCE inches from ½" to 8"

VALVES

COMPLETE STOP VALVE



inches CODE



ANGLE VALVE inches

CODE



NRAIN from 1/2" to 11

EXTENDED STOP VALVE



CODE inches NRAPRO

CONCEALED (EXTRACTABLE) BALL VALVE



CODE inches NRS from 1/2" to 11

PPR TRUE UNION BALL VALVE

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CODE inches NRSPPVKD from 1/2" to 4"

PP-RCT COMPRESSION FITTING

A D
Care Care

COUPLING CODE inches from 1/2" to 4" NKMAN

90° ELBOW	
CODE	inches
NKG	from ½" to 4"

REDUCER	
CODE	inches
NKR	from ¾"x½" to 4"x3"

	90° TEE	
	CODE	inches
Pa	NKT	from ½" to 4"

EQUIPMENT

	PIPE CUTTERS
	CODE
-	SHEAR
	CIRCULAR
-	GUILLOTIN

	CODE	inches
	SHEAR	from 1/2" to 1"
	CIRCULAR	from 1/2" to 11/4"
₹	GUILLOTINE	max 4"
	CIRCULAR	from 1/2" to 4"

	SCRAPERS	
22 202	CODE	inches
	MANUAL	
4	TURBO	from 21/2" to 16"
The state of the s	ORBITAL	
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SOCKET FUSION TOOLS



CODE inches HAND HELD SOCKET FUSION TOOL WITH BUSHINGS AND CASE

from 1/2" to 1" SOCKET FUSION TOOL WITH **SUPPORT** from 1/2" to 4"



BUTT WELDING MACHINE



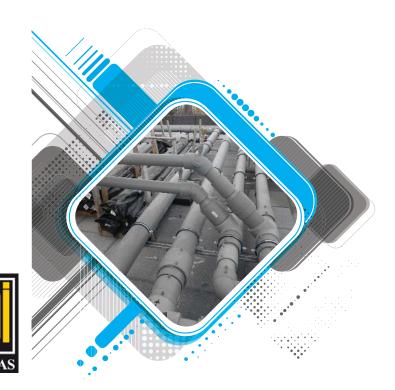
CODE inches

COMPLETE MANUAL BUTT WELDING MACHINE WITH CASE from 11/4" to 10"

AUTOMATIC WELDING UNIT FOR E/F FITTINGS



CODE inches from 1/2" to 6" LIGHT VERSION W/BLUETOOTH from 1/2" to 24"



Nupi Americas, Inc.

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