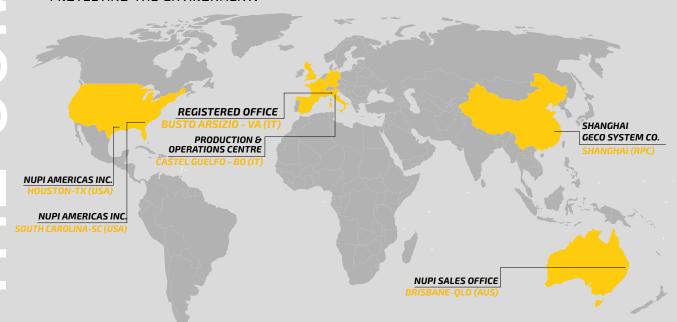


NUPI AMERICAS INC. WAS FOUNDED IN 2001 AND IS BASED IN HOUSTON, TX WHERE IT ESTABLISHED A WAREHOUSE AND PRODUCTION FACILITY. ANOTHER WAREHOUSE IS LOCATED IN EARLY BRANCH, SC.
NUPI AMERICAS HAS ITS ROOTS IN NUPI INDUSTRIE ITALIANE S.P.A., BORN IN

NUPI AMERICAS HAS ITS ROOTS IN NUPI INDUSTRIE ITALIANE S.P.A., BORN IN 2015 TO REPLACE NUPIGECO S.P.A. THAT WAS FOUNDED IN 2008 BY THE MERGER OF NUPI S.P.A. AND GECO SYSTEM S.P.A. - TWO COMPANIES WITH MORE THAN 40 YEARS OF EXPERIENCE IN THE FIELD.

NUPI INDUSTRIE ITALIANE S.P.A. AND NUPI AMERICAS TOGETHER DEVELOP AND MANUFACTURE PIPING SYSTEMS FOR USE IN INDUSTRIAL, SANITARY (PLUMBING), HVAC, CHEMICAL AND PETROCHEMICAL APPLICATIONS, 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.



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.

ONTHESE SOLID FOUNDATIONS NUPI INDUSTRIE ITALIANE S.P.A. 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 RESULTING IN TIMELY DELIVERIES.

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

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 Inc., a subsidiary of Nupi Industrie Italiane S.p.A.





THE PRODUCT

NO CORROSION OR SCALING

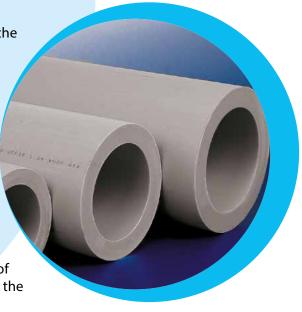
Polypropylene is a poor conductor of electricity, so the NIRON system is cannot be affected by corrosion. Furthermore, thanks to its smooth inner surface, any type of lime incrustation is avoided.

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 through 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 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 $\frac{1}{2}$ " 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 $2\frac{1}{2}$ " 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

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

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

NIRON FG RED PP-RCT PIPE



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

SDR 7.3 FROM 1/2" 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**

SDR 7.3 FROM 1/2" TO 14" FROM 1" TO 6" SDR 9 SDR 11 FROM 11/4" TO 16" SDR 17 FROM 2" TO 24"

NIRON MONO GREY PP-RCT PIPE



MONOLAYER PP-RCT PIPE

GREY

PIPE LENGTH 20 FT

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

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

NIRON CLIMA 11 DARK



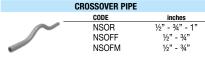
MULTILAYER CLIMA11 DARK PIPE WITH UV RAY BARRIER PP-RCT+FIBERGLASS+HDPE COVER

GREY AND BLACK COVER SDR 11 FROM 1" TO 16" FROM 2" TO 16" SDR 17 PIPE LENGTH 20 FT

FITTINGS



LONG RADIUS 90° ELBOW inches NCI R 1/2" - 3/4



90° ELBOW



inches NG (SOCKET FUSION) from ½" to 5" NG_MM (LONG SPIGOT) from 2" to 24"

FEMALE THREADED 90° ELBOW



CODE inches from ½" x ½"NPT to 2" x 2" NPT

MALE THREADED 90° ELBOW



CODE inches from $\overline{\frac{1}{2}}$ x $\frac{1}{2}$ NPT NGM to 1" x 1" NPT

FEMALE THREADED BACK PLATE 90°



CODE inches NTER ½" x ½" NPT

FEMALE THREADED WINGED 90° ELBOW



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

MALE THREADED WINGED 90° ELBOW

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

MOUNTING UNIT WITH 90° ELBOWS

0

CODE NGVRF ½" x ½" NPT

TEMPLATE FOR EXTERNAL BATH TAPS



CODE inches ½" x ½" NPT NGVF 34" x 1/2" NPT

FEMALE THREADED 90° ELBOW FOR TEMPLATE



CODE NGOF ½" x ¾" NPT 34" x 1/2" NPT

MALE THREADED 90° ELBOW FOR TEMPLATE



CODE inches NGOM ½" x ½" NPT

STREET 90° ELBOW



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

FEMALE THREADED STREET 90° ELBOW



CODE inches ½" x ½" NPT NGMFF



45° ELBOW CODE inches



NC45 (SOCKET FUSION) from 1/2" to 5" NC45 MM (LONG SPIGOT) from 2" to 24"

STREET 45° ELBOW



CODE inches NC45MF from 1/2" to 1'

90° TEE



CODE inches NT (SOCKET FUSION) from 1/2" to 5" NT_MM (LONG SPIGOT) from 2" to 24"

FEMALE THREADED TEE W/NPT LEAD FREE BRASS



CODE from ½" x ½" NPT to 1" x 1" NPT

FEMALE THREADED TEE W/NPT STAINLESS STEEL



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

MALE THREADED TEE W/NPT LEAD FREE BRASS



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

MALE THREADED TEE W/NPT STAINLESS STEEL



inches from ½" x ½" NPT NTM SS to 1" x 1" NPT

REDUCING TEE - SOCKET FUSION

	in
0.1	

inches from 34" x 1/2" NTR to 5" x 4"

MALE BRANCH REDUCING TEE - LONG SPIGOT



CODE inches NTR M from 6" x 2" to 24" x 22"

SOCKET BRANCH FUSION REDUCING TEE



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

45° LATERAL WYE - LONG SPIGOT



CODE inches NWYF from 3" x 20"

REDUCED CROSS - SOCKET FUSION



CODE inches from 1¼" x ½" x ½" x 1¼" to 1¼" x ¾" x ¾" x 1¼"

SLIDE ELBOW THREE OUTLETS - SOCKET FUSION



CODE inches

REDUCING BUSHING - SOCKET FUSION



inches from 34" x 1/2" to 5"x 4" NR

MALE CONCENTRIC REDUCER - LONG SPIGOT



inches SDR 11 - 17 NR_MM (LONG SPIGOT) from 21/2" x 11/4" to 8"x 6" NRCC (SHORT SPIGOT) from 10" x 6" to 24"x 22"

COUPLING CODE inches from 1/2" to 5"

PRODUCT RANGE

FEMALE THREADED ADAPTER - SOCKET FUSION



CODE NRFF (W/LEAD FREE BRASS) NRFF_L (STANDARD BRASS) NRFF_SS (W/NPT STAINLESS STEEL) from ½" x ½" NPT to 5" x 4" NPT

MALE THREADED ADAPTER



CODE inches
NRFM (W/LEAD FREE BRASS) NRFM_L (STANDARD BRASS) NRFM SS (W/NPT STAINLESS STEEL) from ½" x ½" NPT to 5" x 4" NPT

FEMALE THREADED ADAPTER - LONG SPIGOT



CODE NRFF11 (W/LEAD FREE BRASS) from 11/4" x 1/2" NPT to 5" x 4"NPT

SDR 11

MALE THREADED ADAPTER - LONG SPIGOT



CODE NRFM11 (W/LEAD FREE BRASS) from 11/4" x 1/2" NPT to 5" x 4"NPT

SDR 11

GROOVED MECHANICAL COUPLING ADAPTER



CODE inches NRV SS from 1/2" to 11/4" (STAINLESS STEEL)

SDR 11

PEX ADAPTER (COLD EXPANSION - ASTM1960)



CODE from ½" x ½" to 1" x 1"

PEX ADAPTER (CRIMP RING - ASTM1807)



NPRCR from ½" x ½" to 1" x 1"

COPPER ADAPTER



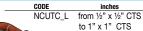
CODE inches from ½" x ½" CTS to 1" x 1" CTS NCUA L

COPPER STUB OUT TRANSITION FITTING



inches from ½" x ½" CTS to 1" x 1" CTS NCUT_L

COPPER STUB OUT ELBOW TRANSITION FITTING





ALL-PLASTIC UNIONS WITH SOCKET FUSION ENDS



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

UNION W/STANDARD BRASS NUTS AND SOCKET FUSION ENDS



CODE from ½" x ½" to 2" x 2"

INSTABRANCH™ WELDING SOCKLET W/SOCKET FUSION OUTLET



CODE inches from 11/2" x 11/4" to 2" x 24"

INSTABRANCH™ WELDING SOCKLET W/SOCKET FEMALE OUTLET



CODE inches NGSF (W/LEAD FREE BRASS) NGSF_L (STANDARD BRASS) NGSF_SS (W/NPT STAINLESS STEEL) from 1¼" x 1½" NPT to 24" x 1" NPT

INSTAHEADER™ PEX ADAPTER (COLD EXPANSION - ASTM F 1960)



CODE inches from 11/4" x 1/2' to 5" x 1"

INSTAHEADER™ PEX ADAPTER (CRIMP RING - ASTM F 1807)

NPGSCR from 11/4" x 1/9" to 5" x 1" END CAP

NCC (SOCKET FUSION) from ½" to 5" NCC_M (LONG SPIGOT) SDR 11 - 17 from 2" to 8" NCC_MS (SHORT SPIGOT) SDR 7.3-11-17 from 6" to 24"

inches

inches

STUB FLANGE CODE



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

BACKING RING ANSI/ASA 150

0	
60	2

CODE inches from 1" to 10" FLAVN from 12" to 22" 24" FLAAC

GASKET LOW - STRESS EPDM



CODE inches GRET from 1" x 18'

ELECTROFUSION FITTINGS

ELECTROFUSION COUPLING



CODE inches from ½" to 18" SDR 11 NME_17 from 12" to 24"

ELECTROFUSION REDUCER



inches NRDE from 1/2" x 3/4" to 8" x 6" SDR 11

ELECTROFUSION 90° ELBOW



inches NGEM from 1/2" to 8" **SDR 11**

ELECTROFUSION 45° ELBOW



CODE inches NCEM from 1" to 8" SDR 11

ELECTROFUSION TEE



NTCE from 1/2" to 8" SDR 11

ELECTROLET™ BRANCH FITTINGS



from 11/4" x 3/4" NCOL to 12" x 5"

SDR 11

VALVES



PPR TRUE UNION BALL VALVE inches NRSPPVKD from ½" to 4"

PPR BALL VALVE CODE inches NRSL from 1/2" to 1"

TRUE UNION BALL VALVE



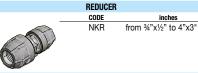
inches CODE NRSFN from 11/4" to 2"

PP-RCT COMPRESSION FITTING



COUPLING	
CODE	inches
NKMAN	from ½" to 4"

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



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







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