



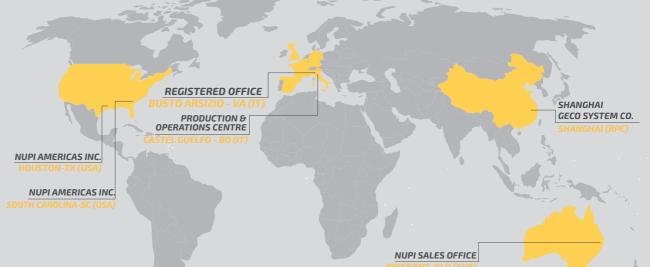


APPROVED FOR POTABLE MAY

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 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 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.



IN 1995, FOLLOWING THE COMPLETION OF AN EXTENSIVE RESEARCH AND DEVELOPMENT PROGRAM, WE INTRODUCED A NEW RANGE OF REVOLUTIONARY PIPING SYSTEMS SPECIFICALLY DESIGNED FOR PETROLEUM, CHEMICAL AND PETROCHEMICAL APPLICATIONS. SINCE THEN, TWO SPECIAL PIPING SYSTEMS MADE OF HIGH DENSITY POLYETHYLENE (HDPE) HAVE BEEN MARKETED WORLDWIDE: SMARTFLEX FOR THE DOWNSTREAM AND OILTECH FOR THE UPSTREAM.

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 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.

# **CERTIFIED QUALITY**

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

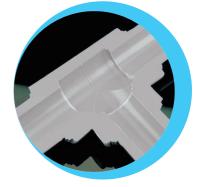
Unquestionably the biggest advantage of NIRON lies in the speed of installation.

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  $\frac{1}{2}$  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.



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 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 21/2" 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.

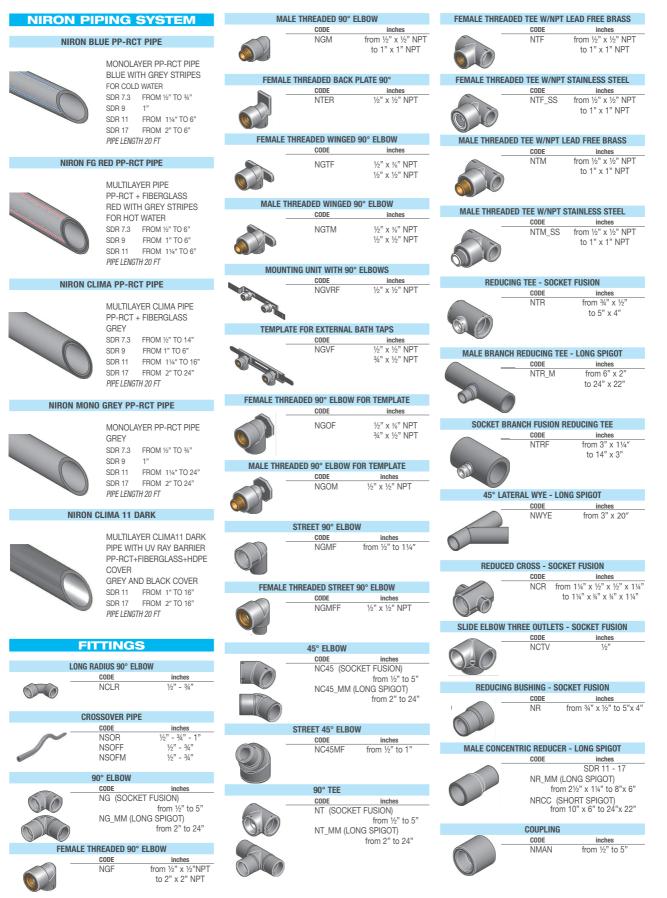






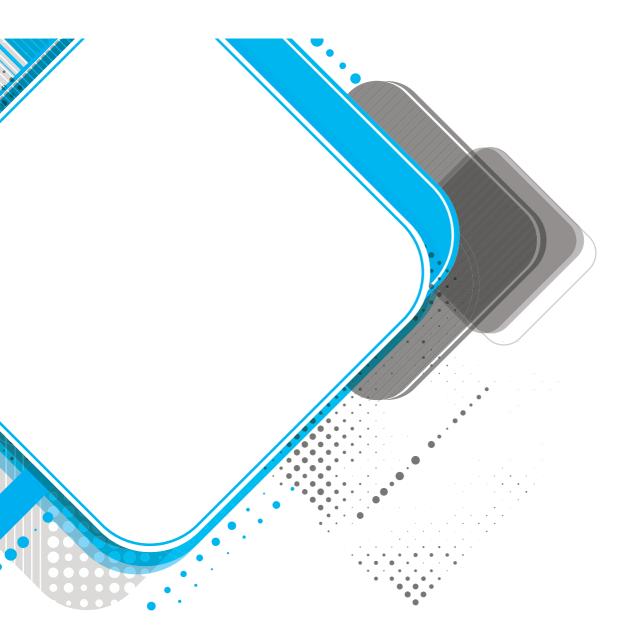


# **PRODUCT RANGE**



# PRODUCT RANGE

	CODE inches	-	CODE	PANSION - ASTM F 1960) inches			
	NRFF (W/LEAD FREE BRASS		NPGS	from 11/4" x 1/2"	PPR	TRUE UNION BALI	
	NRFF_L (STANDARD BRASS) NRFF_SS (W/NPT STAINLESS ST from 1/2" x 1/2" NPT to 5" x 4" I	EEL) NPT		to 5" x 1"	-	CODE NRSPPVKE	inches D from ½" to 4
MALET	THREADED ADAPTER	INSTAHEADER	™ PEX ADAPTER (CRIMP CODE	P RING - ASTM F 1807) inches			
	CODE inches		NPGSCR	from 11/4" x 1/2"	All and		
	NRFM (W/LEAD FREE BRASS		1	to 5" x 1"		PPR BALL VALV	
	NRFM_L (STANDARD BRASS NRFM_SS (W/NPT STAINLESS ST					CODE NRSL	inches from ½" to 1
	from 1/2" x 1/2" NPT to 5" x 4" I		END CAP			NIIOE	101172 101
FEMALE THREAT	DED ADAPTER - LONG SPIGOT		NCC (SOC	inches KET FUSION)			
	CODE inches			from ½" to 5"	Or		
	NRFF11 (W/LEAD FREE BRAS from 11/4" x 1/2" NF			ONG SPIGOT)	TI	RUE UNION BALL V	
	to 5" x 4"NPT		SDR 11 - 17 NCC MS (5	from 2" to 8" SHORT SPIGOT)		NRSFN	inches from 11/4" to 2
	SDR 11			17 from 6" to 24"			
MALE THREAD	ED ADAPTER - LONG SPIGOT CODE inches		STUB FLANGE				
	NRFM11 (W/LEAD FREE BRA	(SS)	CODE	inches	E Jun		
	from 1¼" x ½" N	PT		OCKET FUSION)			
	to 5" x 4"NPT SDR 11		NCBT (LON	from 1" to 5" NG SPIGOT)	PP-RCT CO	JIMPRESS	
GROOVED MECH	IANICAL COUPLING ADAPTER			17 from 1" to 12"		COUPLING	
	CODE inches		NCRT_S (S	HORT SPIGOT)		CODE	inches
	NRV_SS from ½" to 1¼" (STAINLESS STEEL)		SDR 11-17	from 12" to 24"	A	NKMAN	from ½" to 4
	, ,						
	SDR 11 OLD EXPANSION - ASTM1960)		BACKING RING ANSI/A				
FEA ADAPTEK (C	CODE inches		CODE FLAACPP	inches from 1" to 10"		90° ELBOW	
	NPR from ½" x ½" to 1"	x 1"	FLAACPP	from 12" to 22"	_	CODE	inches
			FLAAC	24"		NKG	from ½" to 4
			GASKET LOW - STRES	S EPDM			
PEX ADAPTER	(CRIMP RING - ASTM1807)		CODE	inches		9	
	CODE         inches           NPRCR         from ½" x ½" to 1"	x 1"	GRET	from 1" x 18"		REDUCER	
					_	CODE	inches
MM 📃					A PART	NKR 1	from ¾"x½" to 4"x
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	CODE inches	_			Contra to		
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COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS <b>3 OUT TRANSITION FITTING</b> <u>CODE</u> NCUT_L to 1" x 1" CTS <b>T ELBOW TRANSITION FITTING</b> <u>CODE</u> NCUTC_L from ½" x ½" CT to 1" x 1" CTS <b>WEAL</b> <b>INCUTC_L</b> from ½" x ½" CT to 1" x 1" CTS <b>INCUTC_L</b> <b>INCUTC_L</b> from ½" x ½" CT to 1" x 1" CTS <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INCUTC_L</b> <b>INC</b>	S     Image: Constraint of the second s	CODE NME SDR 11 NME_17 ELECTROFUSION REI ODE NRDE from SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 45° CODE	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from 1" to 8"           from 1" to 8"		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS <b>3 OUT TRANSITION FITTING</b> <u>CODE</u> NCUT_L to 1" x 1" CTS <b>T ELBOW TRANSITION FITTING</b> <u>CODE</u> INCUTC_L from ½" x ½" CT to 1" x 1" CTS <b>CODE</b> INCUTC_L from ½" x ½" CT to 1" x 1" CTS <b>INS WITH SOCKET FUSION ENDS</b> <u>CODE</u> INBRF from ½" to 1½" <b>ASS NUTS AND SOCKET FUSION E</b> CODE Inches	S     Image: Constraint of the second s	CODE NME SDR 11 NME_17 ELECTROFUSION REL CODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 45° CODE NCEM	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from 1" to 8"           from 1" to 8"		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS 3 OUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NBRF from ½" to 1¼" ASS NUTS AND SOCKET FUSION ENDS CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OU CODE inches NGS from 1½" x 1¼"	s s s x 2 <sup>1</sup>	CODE NME SDR 11 NME_17 ELECTROFUSION REI ODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 1 CODE NCEM SDR 11	inches from ½" to 18" from 12" to 24" DUCER inches m ½" x ¾" to 8" x 6" ELBOW inches from ½" to 8" ELBOW inches from 1" to 8" TEE inches from ½" to 8"		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS BOUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NBRF from ½" to 1¼" ASS NUTS AND SOCKET FUSION ENDS CODE inches NBRF from ½" to 1¼" ASS NUTS AND SOCKET FUSION ENDS CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OUT CODE inches	s s s x 2 <sup>1</sup>	CODE NME SDR 11 NME_17 ELECTROFUSION REL CODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 45° CODE NCEM	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from 12" to 8"           ELBOW           inches           from 12" to 8"           FTEE           inches           from ½" to 8"           FTTINGS		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS 3 OUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NBRF from ½" to 1¼" ASS NUTS AND SOCKET FUSION ENDS CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OU CODE inches NGS from 1½" x 1¼"	s s s x 2 <sup>1</sup>	CODE NME SDR 11 NME_17 ELECTROFUSION REI ODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 15° CODE NCEM SDR 11 ELECTROFUSION 15° CODE NCEM SDR 11 ELECTROFUSION 15° CODE NCEM	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           From 1" to 8"           Inches           from 1" to 8"           ELBOW           inches           from 1" to 8"           FITE           inches           from ½" to 8"		CODE	
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COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS BOUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NBRF from ½" x ½" CT NBRF from ½" x ½" CT CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OUT CODE inches NGS from 1½" x 1½" to 2" x 24" G SOCKLET W/SOCKET FEMALE OUT CODE inches	S S S S NDS X2 <sup>11</sup>	CODE NME SDR 11 NME_17 ELECTROFUSION REI CODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 15° CODE NCEM SDR 11 ELECTROFUSION 11 ELECTROFUSION 11 CODE NTCE SDR 11	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           From 1" to 8"           Inches           from 1" to 8"           ELBOW           inches           from 1" to 8"           FITE           inches           from ½" to 8"		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS BOUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NBRF from ½" to 1" ASS NUTS AND SOCKET FUSION ENDS CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OU CODE inches NGS from 1½" x 1½" to 2" x 24" G SOCKLET W/SOCKET FEMALE OU CODE inches NGS from 1½" x 12" to 2" x 24"	$\frac{1}{3}$	CODE NME SDR 11 NME_17 ELECTROFUSION REI CODE NRDE from SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           From 1" to 8"           Inches           from 1" to 8"           ELBOW           inches           from 1" to 8"           FITE           inches           from ½" to 8"		CODE	
COPPER STUB OU ALL-PLASTIC UNIO ON W/STANDARD BR	to 1" x 1" CTS BOUT TRANSITION FITTING CODE inches NCUT_L from ½" x ½" CT to 1" x 1" CTS T ELBOW TRANSITION FITTING CODE inches NCUTC_L from ½" x ½" CT to 1" x 1" CTS CODE inches NCUTC_L from ½" x ½" CT CODE inches NERF from ½" to 1½" ASS NUTS AND SOCKET FUSION ENDS CODE inches NCSJ from ½" x ½" to 2" G SOCKLET W/SOCKET FUSION OUT CODE inches NCSJ from 1½" x 1½" to 2" x 24" G SOCKLET W/SOCKET FEISION OUT CODE inches NGS from 1½" x 1½" to 2" x 24" CODE inches NGSF (W/LEAD FREE BRASS NGSF_SS (W/NPT STAINLESS STE	S S S S S S S S S S S S S S S S S S S	CODE NME SDR 11 NME_17 ELECTROFUSION REI CODE NRDE froi SDR 11 ELECTROFUSION 90° CODE NGEM SDR 11 ELECTROFUSION 45° CODE NCEM SDR 11 ELECTROFUSION 15° CODE NCEM SDR 11 ELECTROFUSION 11 ELECTROFUSION 11 CODE NTCE SDR 11	inches           from ½" to 18"           from 12" to 24"           DUCER           inches           m ½" x ¾" to 8" x 6"           ELBOW           inches           from ½" to 8"           ELBOW           inches           from ½" to 8"           From 1" to 8"           Inches           from 1" to 8"           ELBOW           inches           from 1" to 8"           FITE           inches           from ½" to 8"		CODE	
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