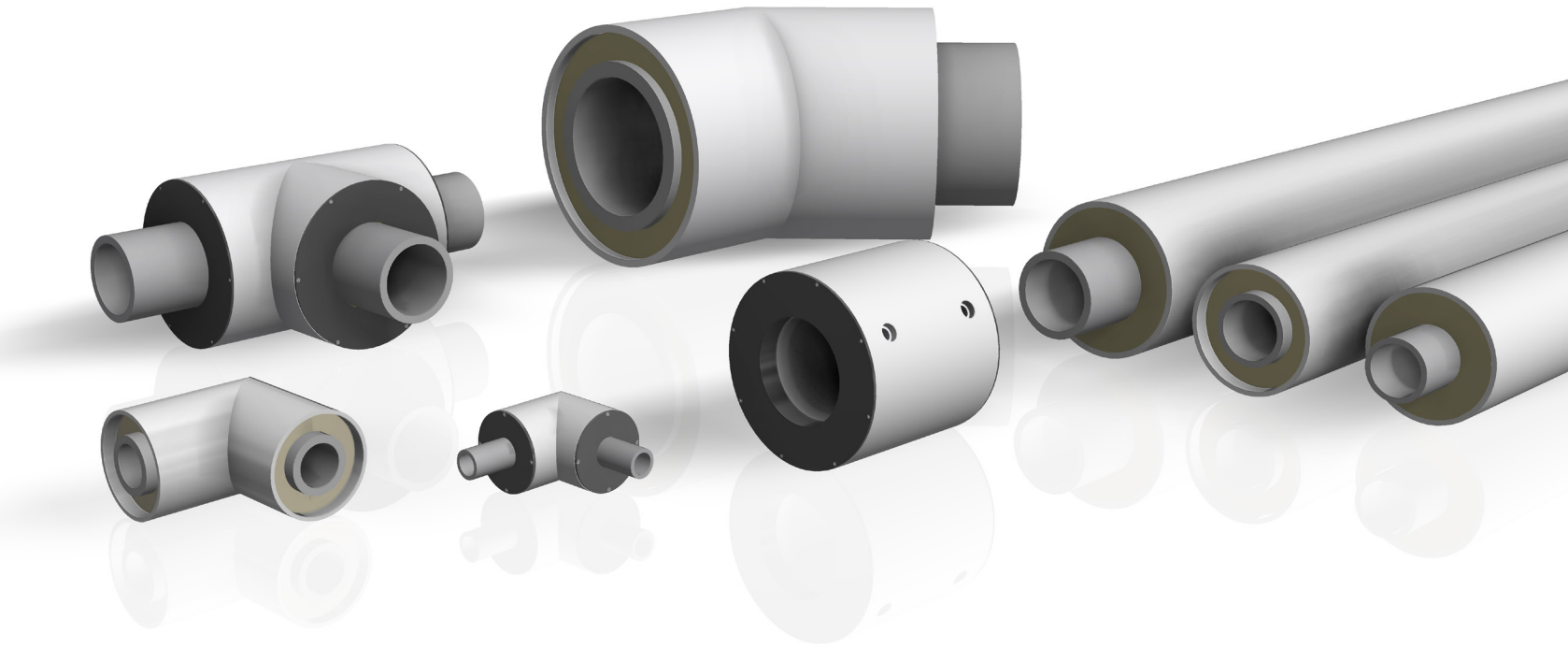
nupi AMERICAS



JULY 2022

PRICE SHEET
Preinsulated Piping System

AllPro NIRON Clima

PRICE SHEET: NIRON USA 2022
REVISION: 02_JULY
ISSUE DATE: 2022 July 1st

INDEX

THE COMPANY

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

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.

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.**

ELOFIT is the High Density Polyethylene system of electrofusion fittings and special components for the conveyance of water and gas under pressure. It is suitable for the conveyance and distribution of drinking water and alimentary fluids, fuel and inert gases and for water treatment plants, centralised irrigation and sewage systems, fire protection systems and pipe relining.

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.**

THE COMPANY

Registered Office and Headquarters - Busto Arsizio (VA)

Production Facility - Castel Guelfo di Bologna (BO)

Production Facility - Imola (BO)

More product ranges marketed by Nupi Americas are **ELOPRESS - a complete range of PP fittings for the distribution of drinking water and alimentary fluids. ELAMID - a complete piping system made of Polyamide 12** that satisfies **high performance requirements in gas supply applications and SMARTCONDUIT** - designed to **contain electrical and communication cables in high groundwater or hydrocarbon- rich environments.**

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.

Niron Clima All-Pro™ ia a preinsulated system that is based on our advanced Niron PP-RCT piping systems. It is the newest addition to the growing range of products from Nupi Americas and Nupi Industrie Italiane.

HIGHLIGHTS

State of the Art Products for the transport of liquid and gaseous fluids using systems made of plastic material

Sanitary systems
Heating systems
Water pipelines
Gas pipelines
Irrigation
Transport of food fluids
Air conditioning
Cooling
Industrial installations
Petroleum industry
Chemical industry
Petrochemical industry

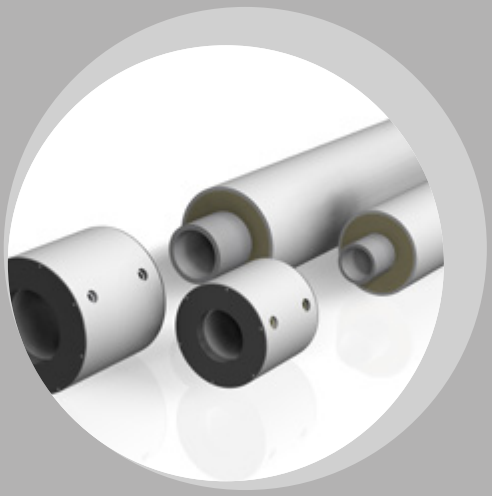
WHO WE ARE

Our numbers

- Established for more than 50 years
- Over 20 product lines
- 350 employees
- Production plants in Italy and the U.S.
- 8 warehouses in Europe and the rest of the world (U.S., Italy, Germany, France, Spain, Belgium, UK, U.A.E.)
- 5% of sales re-invested in R & D
- Over 1.5 million square feet of surface area occupied by Nupi companies worldwide

Our strengths

- Exports established in more than 70 countries on 5 continents
- Worldwide after-sales assistance
- Extensive R & D department
- Production of pipes and fittings from ½" to 40"
- Training center for each authorized distributor



NIRON ALL-PRO PREINSULATED PIPING SYSTEM

NIRON All-Pro is the innovative preinsulated PP-RCT pipe and fitting system that is ideally suitable for applications in areas where the reduction of heat transfer is essential.

This product range was specifically designed for networks for the distribution or adduction of both hot and cold fluids.

The reliability, ease of installation and relevant physical-mechanical properties of the materials used **allow installers to avoid many problems when installing heat distribution and conditioning systems.**

NIRON All-Pro is excellent in direct burial for a number of reasons. Unlike traditional steel, the material is completely inert to soil corrosion. In addition, polypropylene pipe does not require the use of expansion loops underground, regardless of temperature as the material does not have sufficient strength to overcome compacted soil. Since loops are not needed, the need for expensive concrete thrust blocks is also eliminated resulting in big cost savings to the end user. Moreover, ease of installation allows substantial time savings.

NIRON CLIMA ALL-PRO PREINSULATED SYSTEM can be installed by a variety of efficient, low cost methods. This includes our unique electrofusion welding method which allows fusion of the interior parts through the outer jacket. The product can also be joined by simultaneous butt welding which is highly beneficial for long straight runs of pipe. One added result from simultaneous butt welding is that the jacket pipe will be welded pressure tight resulting in a lifetime of leak free insulation jacketing.

THERMAL INSULATION (PUF)

The insulation of the primary pipe is made with a **rigid polyurethane foam (PUF)** according to the EN 253 standard and is free from Freon. The coefficient of thermal conductivity is 0.14 BTU-inch/hr-ft²-°F at a medium temperature of 122°F (50°C).

Polyurethane foam is a highly efficient insulating material, which allows reduced insulation thicknesses compared to traditional insulation types such as fiberglass, mineral wool or calcium silicate.

In addition, due to its closed cell structure, under normal conditions of use, it does not have any transformation caused by water absorption, compression, sacking, etc.

JACKET PIPE (PP-R)

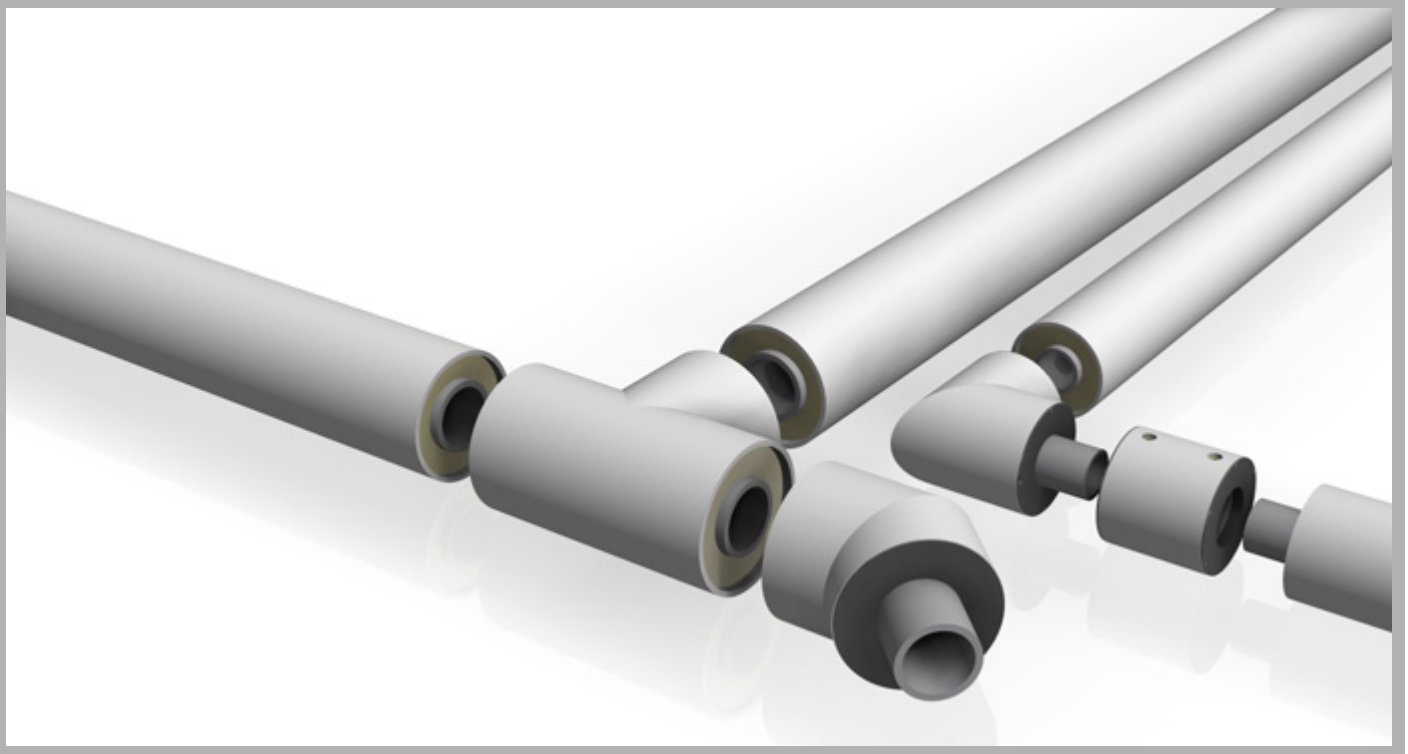
The layer of polyurethane insulation is protected by an IPS-sized jacket pipe **in compliance with ASTM F1412** made of 30 year **UV resistant white PP-R material** .

APPLICATIONS

• District heating / Cooling • Transport of Chilled Water / Condensor Water • Secondary Cooling / Glycol Cooling • Industrial Cooling • Transport of Hot Water for Hydronic Heating • Hot and Cold Potable Water

BENEFITS

• Ease of installation and reduced installation time • Excellent thermal insulation • Low specific weight • Low pressure drop • Excellent weldability thanks to the fittings of the NIRON range • High resistance to corrosion • High durability • Reliable junction • Resistance to abrasion • Resistance to stray currents • Low cost of external support due to rigid outer jacket and IPS size • High integrity of insulation layer is maintained due to rigid jacket, even in direct buried applications • Excellent in direct burial • Completely resistant to soil corrosion • Can be installed using the directional bore techniques • Eliminates the need for costly expansion loops and thrust blocks in underground piping



TECHNICAL DATA

DISTANCE BETWEEN SUPPORTS

The following table can be used to determine the distance between supports in conjunction with temperature and outside diameter. For vertical pipes distance between supports can be multiplied by 1.3.

SUPPORT SPACING FOR NIRON CLIMA ALL-PRO PIPING AT VARIOUS CARRIER PIPE DESIGN TEMPERATURES

TABLE1: SDR 7.3 CARRIER PIPING

(°F)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	250	315
Jacket Pipe	**Supports intervals (ft)**																		
3.50"							4	4	4	4	4	4	4	4	4	4	4		
3.50"							4.5	4.5	4	4	4	4	4	4	4	4	4		
4.50"							5	5	5	5	4.5	4.5	4.5	4.5	4	4	4		
4.50"							6	5.5	5.5	5.5	5.5	5	5	5	5	4.5	4.5		
6.625"							6	6	6	5.5	5.5	5.5	5.5	5	5	5	5		
6.625"							6.5	6.5	6	6	6	6	6	5.5	5.5	5	5		
8.625"							7	7	7	6.5	6.5	6	6	5.5	5.5	5.5	5.5		
8.625"							8	7.5	7.5	7	7	6.5	6	6	6	6	5.5		
10.75"							9	8	8	7.5	7.5	7	6.5	6	6	6	6		
12.75"							9	8	8	7.5	7.5	7	6.5	6.5	6.5	6.5	6.5		
14.00"							9	8.5	8	8	8	7	7	7	6.5	6.5	6.5		
16.00"							10	9	9	8.5	8.5	7.5	7.5	7	7	6.5	6.5		

SUPPORT SPACING FOR NIRON CLIMA ALL-PRO PIPING AT VARIOUS CARRIER PIPE DESIGN TEMPERATURES

TABLE 2: SDR 11 CARRIER PIPING

(°F)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	250	315
Jacket Pipe	**Supports intervals (ft)**																		
3.50"	5	5	5	5	4.5	4.5	4.5	4	4	4	4	4	4	4	4	4	4		
3.50"	6	6	6	6	5.5	5	4.5	4.5	4	4	4	4	4	4	4	4	4		
4.50"	6.5	6.5	6.5	6.5	6	5.5	5	5	5	5	4.5	4.5	4.5	4.5	4	4	4		
4.50"	7.5	7.5	7.5	7.5	7	6.5	6	5.5	5.5	5.5	5.5	5	5	5	5	5.75	4.5		
6.625"	8	8	8	8	7	6.5	6	6	6	5.5	5.5	5.5	5.5	5	5	5	5		
6.625"	8	8	8	8	7.5	7	6.5	6.5	6	6	6	6	6	5.5	5.5	5	5		
8.625"	9	9	9	9	8	7.5	7	7	7	6.5	6.5	6	6	5.5	5.5	5.5	5.5		
8.625"	10	10	10	10	9	8.5	8	7.5	7.5	7	7	6.5	6	6	6	6	5.5		
10.75"	10	10	10	10	9.5	9	9	8	8	7.5	7.5	6.5	6.5	6.5	6	6	6		
12.75"	10	10	10	10	9.5	9	9	8	8	7.5	7.5	6.5	6.5	6.5	6.5	6.5	6.5		
14.00"	10	10	10	10	9.5	9.5	9	8.5	8	8	8	7	7	7	6.5	6.5	6.5		
16.00"	12	12	12	12	11	10	10	9	9	8.5	8.5	7.5	7.5	7	7	6.5	6.5		

SUPPORT SPACING FOR NIRON CLIMA ALL-PRO PIPING AT VARIOUS CARRIER PIPE DESIGN TEMPERATURES

TABLE 3: SDR 17 CARRIER PIPING

(°F)	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	250	315
Jacket Pipe	**Supports intervals (ft)**																		
3.50"																			
3.50"																			
4.50"																			
4.50"	6	6	6	6	5.5	5	5	5	4.5	4.5	4.5	4	4	4	4	3.5	3.5		
6.625"	7.5	7.5	7.5	7.5	7	6.5	6	5.5	5	4.5	4.5	4.5	4.5	4	4	4	4		
6.625"	7.5	7.5	7.5	7.5	7	6.5	6	5.5	5	5	4.5	4.5	4.5	4.5	4	4	4		
8.625"	8.5	8.5	8.5	8.5	8	7.5	7	6.5	5.5	5	5	4.5	4.5	4.5	4.5	4	4		
8.625"	9.5	9.5	9.5	9.5	9	8.5	8	7.5	5.5	5.5	5.5	5	5	5	4.5	4.5	4.5		
10.75"	9.5	9.5	9.5	9.5	9	8.5	8	7.5	6	5.5	5.5	5	5	5	5	4.5	4.5		
12.75"	10	10	10	10	9	9	8.5	8	6	6	6	6	6	5.5	5.5	5	5		
14.00"	10	10	10	10	9	9	8.5	8	6.5	6	6	6	6	5.5	5.5	5	5		
16.00"	10	10	10	10	9	9	8.5	8	6.5	6	6	6	6	5.5	5.5	5.5	5.5		

INPUT DATA		
Soil temperature at depth Z:	46.40	°F
Burial depth Z:	31.50	in
Distance between the center lines of the two pipes:	5.91	in
PUR thermal conductivity:	0.15	BTU-in/hr-ft²-°F
Soil thermal conductivity:	13.88	BTU-in/hr-ft²-°F
NIRON thermal conductivity:	1.67	BTU-in/hr-ft²-°F
PP Jacket thermal conductivity:	1.67	BTU-in/hr-ft²-°F

HEAT LOSS

Thanks to the low thermal conductivity of the service pipe (1.67 BTU-in/hr-ft²-°F) the heat loss of the NIRON ALL PRO system is up to 10% lower if compared to the same system with steel service pipes (with the same PUF foam).

In compliance with EN 13941 - Annex D

TABLE 4: HEAT LOSS PER METER OF BURIED SUPPLY AND RETURN PIPE

NIRON ALL PRO SDR 7.3 (BTU-in/hr-ft²-°F)

Size Inner Pipe	Wall Thickness Inner pipe	Size Outer CoolPro Jacket	Wall Thickness CoolPro Jacket Pipe	Mean temperature supply and return service pipe (°F)							
in	in	in	in	50	70	90	110	130	140	160	180
1	0.17	3.50	0.22	0.57	3.76	6.95	10.14	13.33	14.93	18.12	21.31
1¼	0.22	3.50	0.22	0.74	4.84	8.95	13.05	17.15	19.21	23.31	27.41
1½	0.27	4.50	0.24	0.70	4.58	8.46	12.35	16.23	18.17	22.05	25.93
2	0.34	4.50	0.23	0.97	6.37	11.77	17.17	22.57	25.27	30.66	36.06
2½	0.40	6.63	0.28	0.70	4.59	8.48	12.37	16.25	18.20	22.09	25.98
3	0.49	6.63	0.28	0.90	5.90	10.89	15.89	20.89	23.39	28.38	33.38
4	0.60	6.63	0.32	0.81	5.31	9.81	14.32	18.82	21.07	25.57	30.07
5	0.67	8.63	0.32	0.99	6.48	11.98	17.47	22.97	25.71	31.21	36.70
6	0.86	10.75	0.37	1.03	6.74	12.45	18.15	23.86	26.72	32.43	38.14
8	1.08	12.75	0.41	1.13	33.62	44.47	55.32	66.16	71.58	82.43	93.28
10	1.35	14.00	0.42	1.50	44.82	59.28	73.74	88.20	95.43	109.89	124.35
12	1.68	16.00	0.48	2.03	60.47	79.98	99.49	119.00	128.75	148.26	167.76

In compliance with EN 13941 - Annex D

TABLE 5: HEAT LOSS PER METER OF BURIED SUPPLY AND RETURN PIPE

NIRON ALL PRO SDR 9 - 11 (BTU-in/hr-ft²-°F)

Size Inner Pipe	SDR	Wall Thickness Inner pipe	Size Outer Cool Pro Jacket	Wall Thickness Cool Pro Jacket Pipe	Mean temperature supply and return service pipe (°F)							
in		in	in	in	50	70	90	110	130	140	160	180
1	9	0.14	3.50	0.22	0.58	3.79	7.00	10.20	13.41	15.02	18.23	21.44
1¼	11	0.15	3.50	0.22	0.75	4.91	9.07	13.23	17.39	19.47	23.63	27.80
1½	11	0.18	4.50	0.24	0.71	4.64	8.58	12.51	16.45	18.41	22.35	26.28
2	11	0.23	4.50	0.237	0.99	6.49	11.99	17.49	22.99	25.74	31.24	36.74
2½	11	0.27	6.63	0.28	0.71	4.65	8.60	12.54	16.48	18.46	22.40	26.34
3	11	0.32	6.63	0.28	0.92	6.00	11.09	16.18	21.27	23.81	28.90	33.99
4	11	0.39	8.63	0.32	0.82	5.40	9.97	14.55	19.12	21.41	25.98	30.56
5	11	0.45	8.63	0.32	1.01	6.61	12.21	17.80	23.40	26.20	31.80	37.40
6	11	0.57	10.75	0.37	1.05	6.87	12.69	18.51	24.34	27.25	33.07	38.89
8	11	0.72	12.75	0.41	1.15	7.56	13.96	20.36	26.77	29.97	36.37	42.78
10	11	0.89	14.00	0.42	1.55	10.15	18.75	27.35	35.95	40.25	48.85	57.45
12	11	1.13	16.00	0.48	2.11	13.81	25.52	37.22	48.93	54.78	66.49	78.19

In compliance with EN 13941 - Annex D

TABLE 6: HEAT LOSS PER METER OF BURIED SUPPLY AND RETURN PIPE

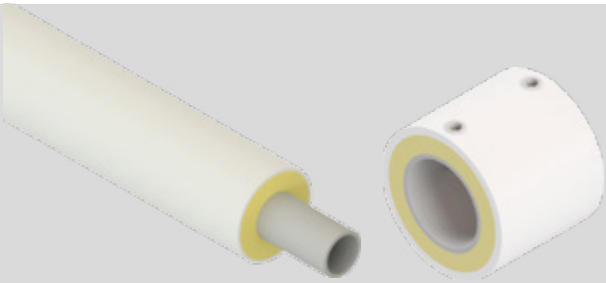
NIRON ALL PRO SDR 17 (BTU-in/hr-ft²-°F)

Size Inner Pipe	Wall Thickness Inner pipe	Size Outer Cool Pro Jacket	Wall Thickness Cool Pro Jacket Pipe	Mean temperature supply and return service pipe (°F)					
in	in	in	in	50	70	90	110	130	140
2	0.15	4.50	0.24	1.00	6.57	12.13	17.70	23.27	26.05
2½	0.18	6.63	0.28	0.72	4.69	8.67	12.64	16.62	18.61
3	0.21	6.63	0.28	0.93	6.07	11.21	16.35	21.50	24.07
4	0.26	8.63	0.32	0.83	5.45	10.07	14.69	19.31	21.62
5	0.29	8.63	0.32	1.02	6.69	12.36	18.02	23.69	26.52
6	0.37	10.75	0.37	1.06	6.96	12.85	18.75	24.65	27.59
8	0.47	12.75	0.41	1.17	7.66	14.15	20.64	27.14	30.38
10	0.58	14.00	0.42	1.58	10.34	19.10	27.86	36.62	41.00
12	0.74	16.00	0.48	2.16	14.16	26.17	38.17	50.18	56.18

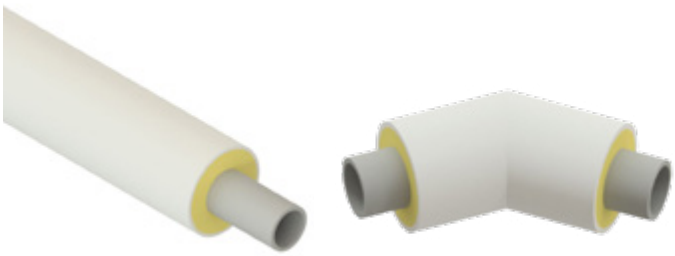
PIPES AND FITTINGS TYPES

NIRON All-Pro fittings line have been designed and manufactured to reduce heat loss.
The system consists of pipes and fittings which, depending on their conformation, are installed following the appropriate installation instructions for each type of fitting.
We hereby present the various types of fittings that you will find in the catalogue.

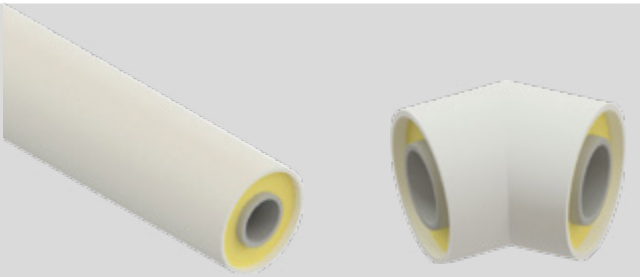
Pipes and **SPIGOT** fittings



ELECTROFUSION fittings



EXTENDED **SPIGOT** fittings for **DOUBLE ELECTROFUSION** connection



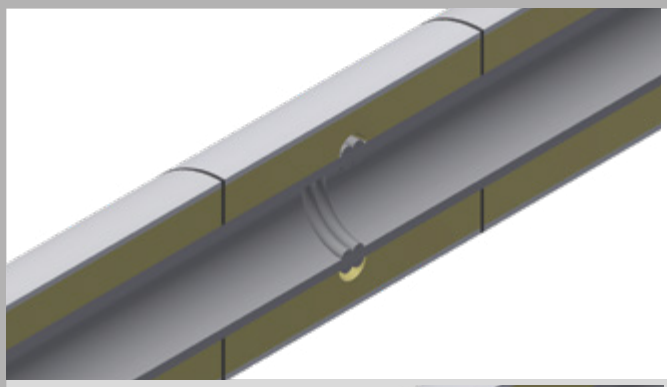
Pipes and fittings for **SIMULTANEOUS BUTT FUSION** connections.

ATTENTION: not weldable on pipes shorter than 6 feet.

HYBRID SYSTEM
SIDE 1: SPIGOT end
SIDE 2: SIMULTANEOUS BUTT FUSION connections

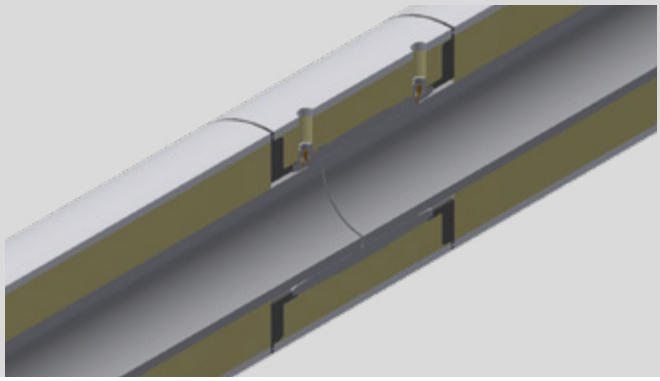
WELDING SYSTEMS

We hereby show the various types of junction of the NIRON All-Pro catalogue.



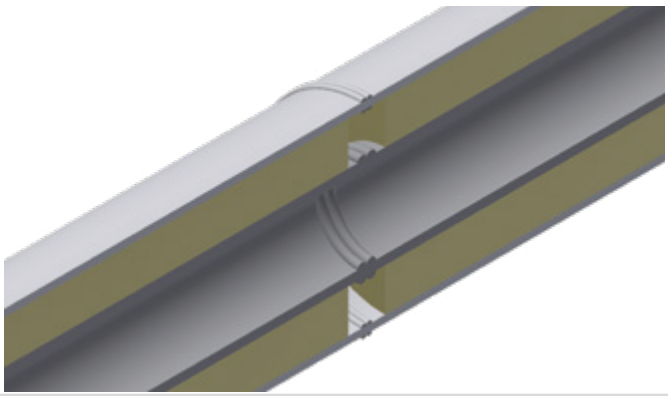
BF

Butt fusion welding of pipes and fittings with long spigot outlet ('SP' type) and with fittings of the HYBRID series, and clam-shell insulation/jacket outer covers.



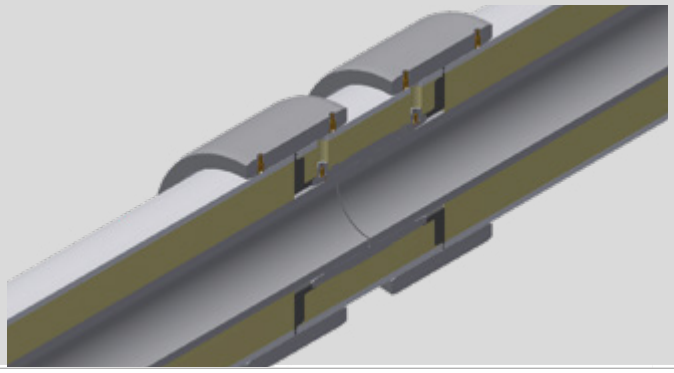
EF

Welding of electrofusion fittings type ('EF' series) and the '*EXTENDED*' type with 'SP' pipes.



BFX2

Simultaneous butt fusion welding between pipes and/or fittings of the 'BFX2' type and/or with the HYBRID series.



EFX2

Welding of fittings of the 'EFX2' series with 'SP' pipes that require additional external electrofusion couplings to seal the circumferential seams on the jacket portion of the carrier electrofusion couplings.


AllPro™
NIRON Clima

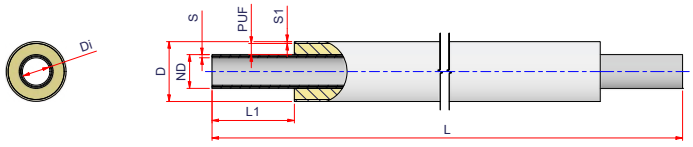
NIRON PREINSULATED PIPING SYSTEM

THE RANGE

1. PIPING

ALL-PRO STANDARD PREINSULATED PIPE WITH EXTENDED CARRIER PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 7.3
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø1"to ø 12"
Packaging: Straight length 20 ft and 40 ft
Welding system: EF | EF X2 | BF



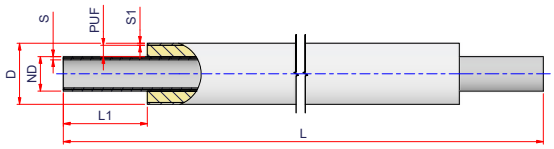
SDR 7.3

Code	SDR	Ø ND	Weight lb/ft	S	D	Di	S1	PUF	L1	L	Price per ft
27TNIRCLAP32373	7.3	1" (32mm)	1.38	0.17	3.5	0.91	0.22	0.9	2	20	$ 40.60
27TNIRCLAP32373S40	7.3	1" (32mm)	1.38	0.17	3.5	0.91	0.22	0.9	2	40	$ 41.50
27TNIRCLAP40373	7.3	1¼" (40mm)	1.51	0.22	3.5	1.14	0.22	0.75	2	20	$ 41.80
27TNIRCLAP40373S40	7.3	1¼" (40mm)	1.51	0.22	3.5	1.14	0.22	0.75	2	40	$ 42.90
27TNIRCLAP50473	7.3	1½" (50mm)	2.26	0.27	4.5	1.43	0.24	1.03	2.5	20	$ 44.30
27TNIRCLAP50473S40	7.3	1½" (50mm)	2.26	0.27	4.5	1.43	0.24	1.03	2.5	40	$ 47.20
27TNIRCLAP63473	7.3	2" (63mm)	2.55	0.34	4.5	1.8	0.24	0.77	2.5	20	$ 50.30
27TNIRCLAP63473S40	7.3	2" (63mm)	2.55	0.34	4.5	1.8	0.24	0.77	2.5	40	$ 56.90
27TNIRCLAP75673	7.3	2½" (75mm)	4.45	0.41	6.625	2.14	0.28	1.56	3.0	20	$ 60.00
27TNIRCLAP75673S40	7.3	2½" (75mm)	4.45	0.41	6.625	2.14	0.28	1.56	3.0	40	$ 69.70
27TNIRCLAP90673	7.3	3" (90mm)	4.91	0.48	6.625	2.57	0.28	1.26	3.0	20	$ 73.30
27TNIRCLAP90673S40	7.3	3" (90mm)	4.91	0.48	6.625	2.57	0.28	1.26	3.0	40	$ 83.00
27TNIRCLAP110873	7.3	3½" (110mm)	7.61	0.59	8.625	3.14	0.32	1.83	4.0	20	$ 93.90
27TNIRCLAP110873S40	7.3	3½" (110mm)	7.61	0.59	8.625	3.14	0.32	1.83	4.0	40	$ 106.00
27TNIRCLAP125873	7.3	4" (125mm)	8.30	0.67	8.625	3.57	0.32	1.53	4.0	20	$ 110.80
27TNIRCLAP125873S40	7.3	4" (125mm)	8.30	0.67	8.625	3.57	0.32	1.53	4.0	40	$ 122.90
27TNIRCLAP1601073	7.3	6" (160mm)	12.73	0.86	10.75	4.57	0.37	1.86	4.5	20	$ 154.40
27TNIRCLAP1601073S40	7.3	6"(160mm)	12.73	0.86	10.75	4.57	0.37	1.86	4.5	40	$ 169.40
27TNIRCLAP2001273	7.3	8" (200mm)	18.97	1.08	12.75	5.71	0.41	2.03	5.0	20	$ 231.50
27TNIRCLAP2001273S40	7.3	8" (200mm)	18.97	1.08	12.75	5.71	0.41	2.03	5.0	40	$ 243.60
27TNIRCLAP2501473	7.3	10" (250mm)	25.58	1.35	14.00	7.15	0.43	1.65	5.5	20	$ 360.60
27TNIRCLAP2501473S40	7.3	10" (250mm)	25.58	1.35	14.00	7.15	0.43	1.65	5.5	40	$ 375.80
27TNIRCLAP3151673	7.3	12" (315mm)	37.14	1.70	16.00	9.00	0.49	1.31	5.0	20	$ 473.20
27TNIRCLAP3151673S40	7.3	12" (315mm)	37.14	1.70	16.00	9.00	0.49	1.31	5.0	40	$ 492.20

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ALL-PRO STANDARD PREINSULATED PIPE WITH EXTENDED CARRIER PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 9 and SDR 11
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø1"to ø12"
Packaging: Straight length 20 ft and 40 ft
Welding system: EF | EF X2 | BF



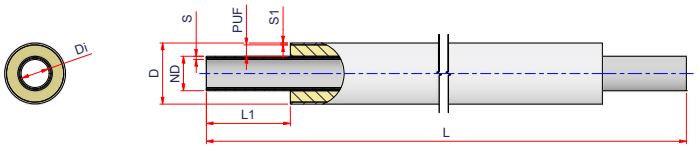
SDR 9 - 11

Code	SDR	Ø ND	Weight lb/ft	S	D	Di	S1	PUF	L1	L	Price per ft
7TNIRCLAP3239	9	1" (32mm)	1.35	0.14	3.5	0.98	0.22	0.9	2.0	20	$ 38.80
27TNIRCLAP3239S40	9	1" (32mm)	1.35	0.14	3.5	0.98	0.22	0.9	2.0	40	$ 44.30
27TNIRCLAP40311	11	1¼" (40mm)	1.40	0.15	3.5	1.29	0.22	0.75	2.0	20	$ 38.80
27TNIRCLAP40311S40	11	1¼" (40mm)	1.40	0.15	3.5	1.29	0.22	0.75	2.0	40	$ 44.30
27TNIRCLAP50411	11	1½" (50mm)	2.08	0.18	4.5	1.61	0.24	1.03	2.5	20	$ 38.80
27TNIRCLAP50411S40	11	1½" (50mm)	2.08	0.18	4.5	1.61	0.24	1.03	2.5	40	$ 45.50
27TNIRCLAP63411	11	2" (63mm)	2.27	0.23	4.5	2.02	0.24	0.77	2.5	20	$ 42.40
27TNIRCLAP63411S40	11	2" (63mm)	2.27	0.23	4.5	2.02	0.24	0.77	2.5	40	$ 49.10
27TNIRCLAP75611	11	2½" (75mm)	4.04	0.27	6.62	2.42	0.28	1.56	3.0	20	$ 47.90
27TNIRCLAP75611S40	11	2½" (75mm)	4.04	0.27	6.62	2.42	0.28	1.56	3.0	40	$ 57.60
27TNIRCLAP90611	11	3" (90mm)	4.33	0.32	6.62	2.9	0.28	1.26	3.0	20	$ 57.60
27TNIRCLAP90611S40	11	3" (90mm)	4.33	0.32	6.62	2.9	0.28	1.26	3.0	40	$ 67.30
27TNIRCLAP110811	11	3½" (110mm)	6.73	0.39	8.62	3.54	0.32	1.83	4.0	20	$ 72.10
27TNIRCLAP110811S40	11	3½" (110mm)	6.73	0.39	8.62	3.54	0.32	1.83	4.0	40	$ 84.20
27TNIRCLAP125811	11	4" (125mm)	7.20	0.45	8.62	4.02	0.32	1.53	4.0	20	$ 86.00
27TNIRCLAP125811S40	11	4" (125mm)	7.20	0.45	8.62	4.02	0.32	1.53	4.0	40	$ 98.10
27TNIRCLAP1601011	11	6" (160mm)	10.88	0.57	10.75	5.15	0.37	1.86	4.0	20	$ 117.40
27TNIRCLAP1601011S40	11	6" (160mm)	10.88	0.57	10.75	5.15	0.37	1.86	4.0	40	$ 132.60
27TNIRCLAP2001211	11	6" (200mm)	15.48	0.72	12.75	6.44	0.41	2.03	4.5	20	$ 173.70
27TNIRCLAP2001211S40	11	6" (200mm)	15.48	0.72	12.75	6.44	0.41	2.03	4.5	40	$ 192.80
27TNIRCLAP2501411	11	10" (250mm)	19.96	0.89	14.0	8.06	0.43	1.65	5.0	20	$ 271.70
27TNIRCLAP2501411S40	11	10" (250mm)	19.96	0.89	14.0	8.06	0.43	1.65	5.0	40	$ 293.20
27TNIRCLAP3151611	11	12" (315mm)	28.37	1.13	16.0	10.15	0.49	1.31	6.0	20	$ 310.50
27TNIRCLAP3151611S40	11	12" (315mm)	28.37	1.13	16.0	10.15	0.49	1.31	6.0	40	$ 334.70

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ALL-PRO STANDARD PREINSULATED PIPE WITH EXTENDED CARRIER PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 17
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø 2" to ø12"
Packaging: Straight length 20 ft and 40 ft
Welding system: EF | EF X2 | BF



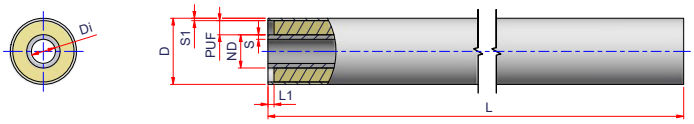
SDR 17

Code	SDR	Ø ND	Weight lb/ft	S	D	Di	S1	PUF	L1	L	Price per ft
27TNIRCLAP63417	17	2" (63mm)	2.05	0.15	4.5	2.02	0.24	0.77	2.5	20	$ 41.20
27TNIRCLAP63417S40	17	2" (63mm)	2.05	0.15	4.5	2.02	0.24	0.77	2.5	40	$ 45.00
27TNIRCLAP75617	17	2½" (75mm)	3.74	0.18	6.625	2.42	0.28	1.56	3	20	$ 46.00
27TNIRCLAP75617S40	17	2½" (75mm)	3.74	0.18	6.625	2.42	0.28	1.56	3	40	$ 50.50
27TNIRCLAP90617	17	3" (90mm)	3.90	0.21	6.625	2.9	0.28	1.26	3	20	$ 55.70
27TNIRCLAP90617S40	17	3" (90mm)	3.90	0.21	6.625	2.9	0.28	1.26	3	40	$ 64.20
27TNIRCLAP110817	17	3½" (110mm)	6.11	0.26	8.625	3.54	0.32	1.83	4	20	$ 57.60
27TNIRCLAP110817S40	17	3½" (110mm)	6.11	0.26	8.625	3.54	0.32	1.83	4	40	$ 87.50
27TNIRCLAP125817	17	4" (125mm)	6.33	0.29	8.625	4.02	0.32	1.53	4	20	$ 79.90
27TNIRCLAP125817S40	17	4" (125mm)	6.33	0.29	8.625	4.02	0.32	1.53	4	40	$ 119.80
27TNIRCLAP1601017	17	6" (160mm)	9.48	0.37	10.75	5.15	0.37	1.86	4	20	$ 110.20
27TNIRCLAP1601017S40	17	6" (160mm)	9.48	0.37	10.75	5.15	0.37	1.86	4	40	$ 175.80
27TNIRCLAP2001217	17	8" (200mm)	12.38	0.47	12.75	6.44	0.41	2.03	4.5	20	$ 156.80
27TNIRCLAP2001217S40	17	8" (200mm)	12.38	0.47	12.75	6.44	0.41	2.03	4.5	40	$ 175.80
27TNIRCLAP2501417	17	10" (250mm)	16.56	0.58	14.00	8.06	0.43	1.65	5	20	$ 245.10
27TNIRCLAP2501417S40	17	10" (250mm)	16.56	0.58	14.00	8.06	0.43	1.65	5	40	$ 266.60
27TNIRCLAP3151617	17	12" (315mm)	23.00	0.74	16.00	10.15	0.49	1.31	6	20	$ 255.40
27TNIRCLAP3151617S40	17	12" (315mm)	23.00	0.74	16.00	10.15	0.49	1.31	6	40	$ 279.60

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ALL-PRO BFX2 SIMULTANEOUS BUTT WELD PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 7.3
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø2" to ø12"
Packaging: Straight length 19.5 ft
Note: not weldable on pipes shorter than 6 feet
Welding system:



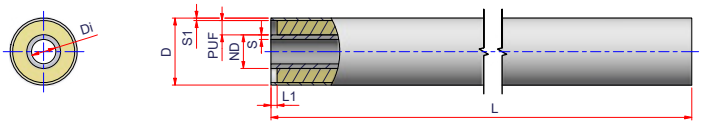
SDR 7.3

Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L	Price per ft
27TNIRCLSP63473	**7.3**	**2" (63mm)**	2.51	0.34	4.5	0.24	1.8	0.77	0.59	19.5	**$ 53.30**
27TNIRCLSP75673	**7.3**	**2½" (75mm)**	4.30	0.41	6.63	0.28	2.14	1.55	0.59	19.5	**$ 63.00**
27TNIRCLSP90673	**7.3**	**3" (90mm)**	4.83	0.48	6.63	0.28	2.57	1.26	0.59	19.5	**$ 77.50**
27TNIRCLSP110873	**7.3**	**3½" (110mm)**	7.44	0.59	8.63	0.32	3.14	1.82	0.59	19.5	**$ 98.70**
27TNIRCLSP125873	**7.3**	**4" (125mm)**	8.18	0.67	8.63	0.32	3.57	1.53	0.59	19.5	**$ 116.30**
27TNIRCLSP1601073	**7.3**	**6" (160mm)**	12.48	0.86	10.75	0.37	4.57	1.86	0.59	19.5	**$ 162.30**
27TNIRCLSP2001273	**7.3**	**8" (200mm)**	18.66	1.08	12.75	0.41	5.71	2.03	0.59	19.5	**$ 243.40**
27TNIRCLSP2501473	**7.3**	**10" (250mm)**	25.57	1.35	14	0.43	7.15	1.65	0.59	19.5	**$ 374.60**
27TNIRCLSP3151673	**7.3**	**12" (315mm)**	37.15	1.7	16	0.49	9	1.31	0.59	19.5	**$ 489.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ALL-PRO BFX2 SIMULTANEOUS BUTT WELD PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 11
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø2" to ø12"
Packaging: Straight length 19.5 ft
Note: not weldable on pipes shorter than 6 feet
Welding system:



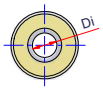
SDR 11

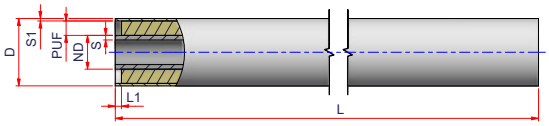
Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L	Price per ft
27TNIRCLSP63411	11	2" (63mm)	2.22	0.23	4.5	0.24	2.02	0.77	0.59	19.5	$ 44.80
27TNIRCLSP75611	11	2½" (75mm)	3.85	0.27	6.63	0.28	2.42	1.55	0.59	19.5	$ 50.30
27TNIRCLSP90611	11	3" (90mm)	4.20	0.32	6.63	0.28	2.9	1.26	0.59	19.5	$ 60.50
27TNIRCLSP110811	11	3½" (110mm)	6.49	0.39	8.63	0.32	3.54	1.82	0.59	19.5	$ 75.70
27TNIRCLSP125811	11	4" (125mm)	7.00	0.45	8.63	0.32	4.02	1.53	0.59	19.5	$ 90.80
27TNIRCLSP1601011	11	6" (160mm)	10.56	0.57	10.75	0.37	5.15	1.86	0.59	19.5	$ 123.50
27TNIRCLSP2001211	11	8" (200mm)	14.97	0.72	12.75	0.41	6.44	2.03	0.59	19.5	$ 182.40
27TNIRCLSP2501411	11	10" (250mm)	19.91	0.89	14	0.43	8.06	1.65	0.59	19.5	$ 285.30
27TNIRCLSP3151611	11	12" (315mm)	28.02	1.13	16	0.49	10.15	1.31	0.59	19.5	$ 326.70

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ALL-PRO BFX2 SIMULTANEOUS BUTT WELD PIPE

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 17
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø 8" to ø12"
Packaging: Straight length 19.5 ft
Note: not weldable on pipes shorter than 6 feet
Welding system:





SDR 17

Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L	Price per ft
27TNIRCLSP2001217	**17**	**8" (200mm)**	12.83	0.47	12.75	0.41	6.93	2.03	0.59	19.5	**$ 164.60**
27TNIRCLSP2501417	**17**	**10" (250mm)**	16.37	0.58	14	0.43	8.68	1.65	0.59	19.5	**$ 257.40**
27TNIRCLSP3151617	**17**	**12" (315mm)**	22.81	0.74	16	0.49	10.92	1.31	0.59	19.5	**$ 268.20**

All measures are in inches unless otherwise mentioned.
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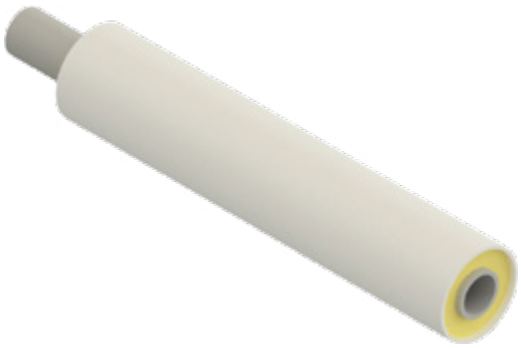
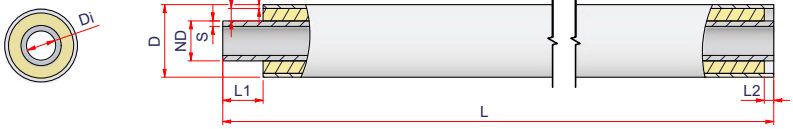


ALL-PRO HYBRID PREINSULATED PIPE
WITH EXTENDED CARRIER PIPE END AND BFX2 END

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 7.3
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø2" to ø 12"
Packaging: Straight length 19.5 ft
Welding system **SIDE 1:** EF EFX2 BF **SIDE2:** BFX2

Note: **BFX2** not weldable on pipes shorter than 6 feet

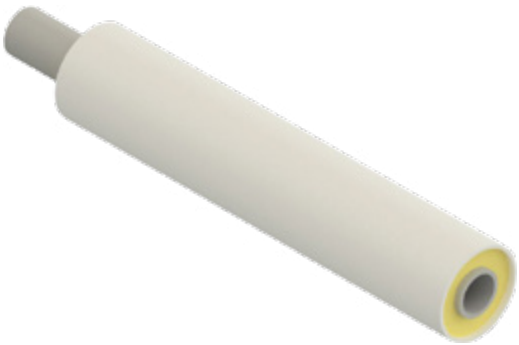


SIDE 1 SIDE 2

SDR 7.3

Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L2	L	Price per ft
27TNIRCLHY63473	**7.3**	**2" (63mm)**	2.27	0.34	4.5	0.24	1.80	0.77	2.5	0.59	19.5	**$ 58.60**
27TNIRCLHY75673	**7.3**	**2½" (75mm)**	4.04	0.41	6.63	0.28	2.14	1.56	3	0.59	19.5	**$ 69.20**
27TNIRCLHY90673	**7.3**	**3" (90mm)**	4.33	0.48	6.63	0.28	2.57	1.26	3	0.59	19.5	**$ 85.20**
27TNIRCLHY110873	**7.3**	**3½" (110mm)**	6.73	0.59	8.63	0.32	3.14	1.83	4	0.59	19.5	**$ 108.50**
27TNIRCLHY125873	**7.3**	**4" (125mm)**	7.20	0.67	8.63	0.32	3.47	1.53	4	0.59	19.5	**$ 127.90**
27TNIRCLHY1601073	**7.3**	**6" (160mm)**	10.88	0.86	10.75	0.37	4.57	1.86	4.5	0.59	19.5	**$ 178.40**
27TNIRCLHY2001273	**7.3**	**8" (200mm)**	15.48	1.08	12.75	0.41	5.71	2.03	5	0.59	19.5	**$ 267.60**
27TNIRCLHY2501473	**7.3**	**10" (250mm)**	19.96	1.35	14.00	0.43	8.06	1.65	5.5	0.59	19.5	**$ 412.10**
27TNIRCLHY3151673	**7.3**	**12" (315mm)**	28.37	1.70	16.00	0.49	10.15	1.31	5	0.59	19.5	**$ 538.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

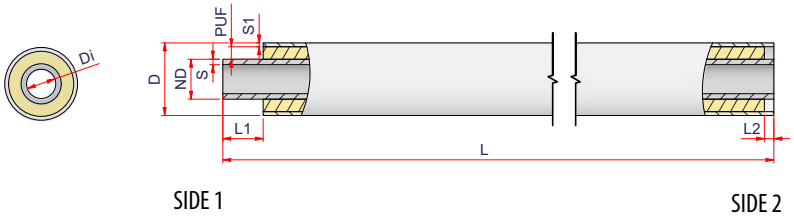


ALL-PRO HYBRID PREINSULATED PIPE

WITH EXTENDED CARRIER PIPE END AND BFX2 END

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 11
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø2" to ø 12"
Packaging: Straight length 19.5 ft
Welding system **SIDE 1:** EF EFX2 BF **SIDE2:** BFX2

Note: **BFX2** not weldable on pipes shorter than 6 feet

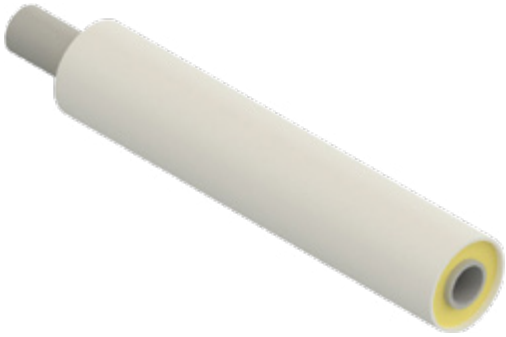


SIDE 1 SIDE 2

SDR 11

Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L2	L	Price per ft
27TNIRCLHY63411	**11**	**2" (63mm)**	2.27	0.23	4.5	0.24	2.02	0.77	2.5	0.59	19.5	**$ 49.30**
27TNIRCLHY75611	**11**	**2½" (75mm)**	4.04	0.27	6.63	0.28	2.42	1.55	3	0.59	19.5	**$ 55.30**
27TNIRCLHY90611	**11**	**3" (90mm)**	4.33	0.32	6.63	0.28	2.90	1.26	3	0.59	19.5	**$ 66.60**
27TNIRCLHY110811	**11**	**3½" (110mm)**	6.73	0.39	8.63	0.32	3.54	1.82	4	0.59	19.5	**$ 83.20**
27TNIRCLHY125811	**11**	**4" (125mm)**	7.20	0.45	8.63	0.32	4.02	1.53	4	0.59	19.5	**$ 99.90**
27TNIRCLHY1601011	**11**	**6" (160mm)**	10.88	0.57	10.75	0.37	5.15	1.86	4	0.59	19.5	**$ 135.80**
27TNIRCLHY2001211	**11**	**8" (200mm)**	15.48	0.72	12.75	0.41	6.44	2.03	4.5	0.59	19.5	**$ 201.00**
27TNIRCLHY2501411	**11**	**10" (250mm)**	19.96	0.89	14	0.43	8.06	1.65	5	0.59	19.5	**$ 314.20**
27TNIRCLHY3151611	**11**	**12" (315mm)**	28.37	1.13	16	0.49	10.15	1.31	6	0.59	19.5	**$ 359.40**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

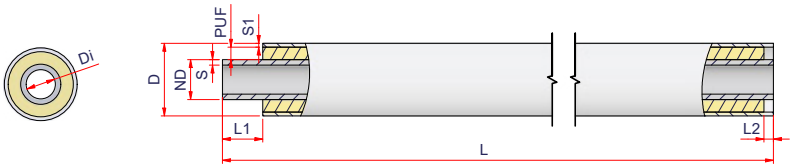


ALL-PRO HYBRID PREINSULATED PIPE

WITH EXTENDED CARRIER PIPE END AND BFX2 END

Pipe structure: Multilayer pipe
Material: PP-RCT + Fiber glass + PUF + PPR jacket
Pipe series: SDR 17
Color: Grey (carrier pipe) + Grey with white outer layer (jacket pipe)
Range: From ø 8" to ø 12"
Packaging: Straight length 19.5 ft
Welding system **SIDE 1:** EF EF X2 BF **SIDE2:** BF X2

Note: **BFX2** not weldable on pipes shorter than 6 feet



SIDE 1 SIDE 2

SDR 17

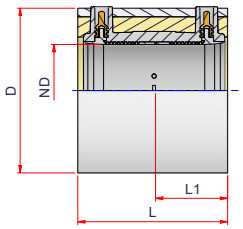
Code	SDR	Ø ND	Weight lb/ft	S	D	S1	Di	PUF	L1	L2	L	Price per ft
27TNIRCLHY2001217	**17**	**8" (200mm)**	12.83	0.47	12.75	0.41	6.93	2.03	4.5	0.59	19.5	**$ 181.10**
27TNIRCLHY2501417	**17**	**10" (250mm)**	16.37	0.58	14	0.43	8.68	1.65	5	0.59	19.5	**$ 283.50**
27TNIRCLHY3151617	**17**	**12" (315mm)**	22.81	0.74	16	0.49	10.92	1.31	6	0.59	19.5	**$ 295.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

2. FITTINGS

ELECTROFUSION PREINSULATED COUPLING

Range: From ø1" to ø12"
Fitting structure: Electrofusion coupler + PUF + PPR Jacket
Material: PP-RCT + PUF + PP-R
Color: Grey carrier + White jacket
Welding system:



SDR 7.3

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	L1	L	Price Each
27NMEAP3273	7.3 / 11 / 17	1" (32mm)	0.630	0.0289	3.5	2	4.08	$ 84.70
27NMEAP4073	7.3 / 11 / 17	1¼" (40mm)	0.650	0.0289	3.5	2	4.08	$ 84.70
27NMEAP5073	7.3 / 11 / 17	1½" (50mm)	1.204	0.0569	4.4	2.5	5.08	$ 84.70
27NMEAP6373	7.3 / 11 / 17	2" (63mm)	1.184	0.0569	4.4	2.5	5.08	$ 96.80
27NMEAP7573	7.3 / 11 / 17	2½" (75mm)	2.742	0.1542	6.62	3	6.08	$ 116.20
27NMEAP9073	7.3 / 11 / 17	3" (90mm)	2.698	0.1542	6.62	3	6.08	$ 229.90
27NMEAP11073	7.3 / 11 / 17	3½" (110mm)	5.690	0.3474	8.62	4	8.08	$ 271.10
27NMEAP12573	7.3 / 11 / 17	4" (125mm)	5.981	0.3474	8.62	4	8.08	$ 338.80
27NMEAP16073	7.3 / 11 / 17	6" (160mm)	10.798	0.5963	10.7	4.5	9.0	$ 653.40
27NMEAP20073	7.3 / 11 / 17	8" (200mm)	16.457	0.9188	12.6	5.0	10.0	$ 847.00
27NMEAP25073	7.3 / 11 / 17	10" (250mm)	21.914	1.2477	14.0	5.5	11.0	$ 1,331.00
27NMEAP31573	7.3 / 11 / 17	12" (315mm)	31.385	1.4264	15.7	5.0	10.0	$ 1,694.00

SDR 11

27NMEAP9011	11 / 17	3" (90mm)	2.723	0.1542	6.62	3	6.08	$ 152.50
27NMEAP11011	11 / 17	3½" (110mm)	5.388	0.3474	8.62	4	8.08	$ 199.70
27NMEAP12511	11 / 17	4" (125mm)	5.58	0.3474	8.62	4	8.08	$ 266.20
27NMEAP16011	11 / 17	6" (160mm)	8.684	0.5353	10.7	4	8.08	$ 338.80
27NMEAP20011	11 / 17	8" (200mm)	12.515	0.8542	12.75	4.5	9.08	$ 665.50
27NMEAP25011	11 / 17	10" (250mm)	17.97	1.1433	14.0	5	10.08	$ 955.90
27NMEAP31511	11 / 17	12" (315mm)	28.512	1.7231	15.7	6	12.08	$ 1,240.30

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

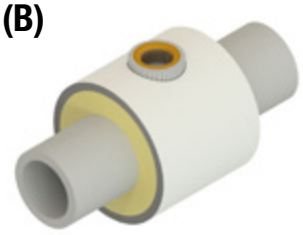
(A)

PREINSULATED COUPLER WITH ½" AND ¾" FEMALE THREADED OUTLET

Range: From ø1" to ø12"
Fitting structure: Electrofusion coupler + PUF + PPR Jacket
Material: PP-RCT + PUF + PP-R + Brass
Color: Grey carrier + White jacket

Welding system: **TYPE A** EF EF X2 **TYPE B** EF BF

(B)



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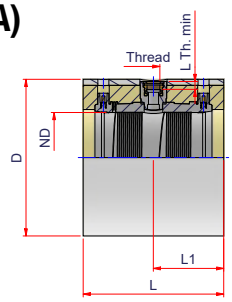

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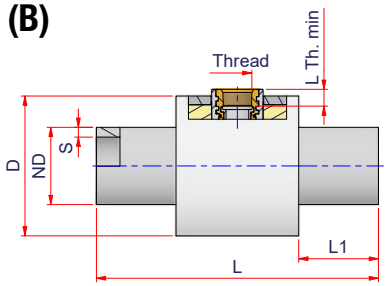

Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	Thread	L Th. min	L1	L	S	Price Each
27NGSFAP123273	B	7.3	1" (32mm)	0.614	0.0567	3.5	½"	0.45	2.00	8	8	$ 100.00
27NGSFAP124073	B	7.3	1¼" (40mm)	0.691	0.0567	3.5	½"	0.45	2.00	8	8	$ 100.00
27NGSFAP125073	B	7.3	1½" (50mm)	1.126	0.1055	4.5	½"	0.45	2.50	9	9	$ 100.00
27NGSFAP126373	B	7.3	2" (63mm)	1.353	0.1055	4.5	½"	0.45	2.50	9	9	$ 116.00
27NGSFAP127573	B	7.3	2½" (75mm)	2.375	0.279	6.62	½"	0.45	3.00	11	11	$ 136.00
27NGSFAP129073	B	7.3	3" (90mm)	2.82	0.279	6.62	½"	0.45	3.00	11	11	$ 270.00
27NGSFAP1211073	B	7.3	3½" (110mm)	4.371	0.559	8.62	½"	0.45	4.00	13	13	$ 330.00
27NGSFAP1212573	A	7.3	4" (125mm)	6.022	0.5375	8.62	½"	0.45	4.00	12.5	-	$ 400.00
27NGSFAP1216073	A	7.3	6" (160mm)	11.025	0.836	10.75	½"	0.45	4.50	12.5	-	$ 750.00
27NGSFAP1220073	A	7.3	8" (200mm)	16.684	1.27	12.75	½"	0.45	5.00	13.5	-	$ 1,100.00
27NGSFAP343273	B	7.3	1" (32mm)	0.657	0.0567	3.5	¾"	0.52	2.00	8	8	$ 100.00
27NGSFAP344073	B	7.3	1¼" (40mm)	0.734	0.0567	3.5	¾"	0.52	2.00	8	8	$ 100.00
27NGSFAP345073	B	7.3	1½" (50mm)	1.169	0.1055	4.5	¾"	0.52	2.50	9	9	$ 100.00
27NGSFAP346373	B	7.3	2" (63mm)	1.393	0.1055	4.5	¾"	0.52	2.50	9	9	$ 116.00
27NGSFAP347573	B	7.3	2½" (75mm)	2.415	0.279	6.62	¾"	0.52	3.00	11	11	$ 136.00
27NGSFAP349073	B	7.3	3" (90mm)	2.877	0.279	6.62	¾"	0.52	3.00	11	11	$ 270.00
27NGSFAP3411073	B	7.3	3½" (110mm)	4.428	0.559	8.62	¾"	0.52	4.00	13	13	$ 330.00
27NGSFAP3412573	A	7.3	4" (125mm)	6.258	0.5375	8.62	¾"	0.52	4.00	12.5	-	$ 400.00
27NGSFAP3416073	A	7.3	6" (160mm)	11.066	0.836	10.75	¾"	0.52	4.50	12.5	-	$ 750.00
27NGSFAP3420073	A	7.3	8" (200mm)	16.684	1.27	12.75	¾"	0.52	5.00	13.5	-	$ 1,100.00

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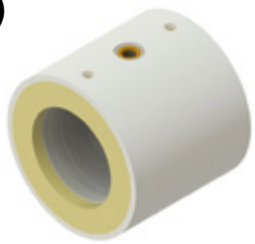
(A)

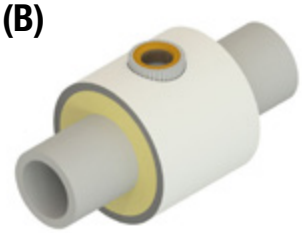


PREINSULATED COUPLER WITH ½" AND ¾" FEMALE THREADED OUTLET

Range: From ø1" to ø12"
Fitting structure: Electrofusion coupler + PUF + PPR Jacket
Material: PP-RCT + PUF + PP-R + Brass
Color: Grey carrier + White jacket

Welding system: **TYPE A** EF EF X2 **TYPE B** EF BF

(B)



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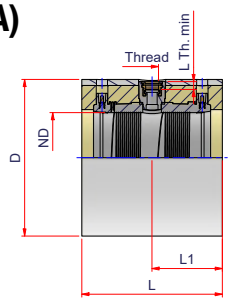

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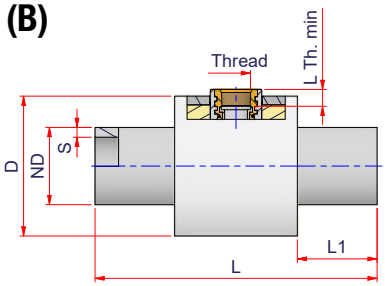
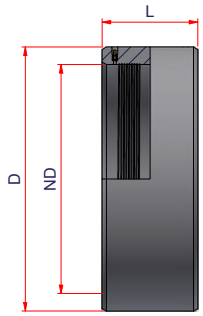


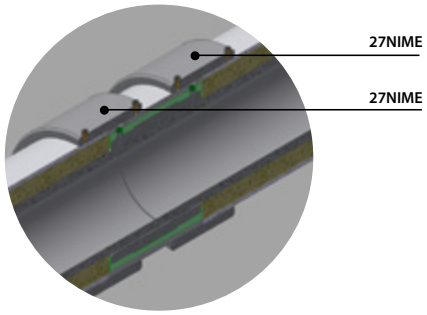
Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	Thread	L Th. min	L1	L	S	Price Each
27NGSFAP1212511	A	11	4" (125mm)	5.8	0.5375	8.62	½"	0.45	4.00	12.5	-	$ 400.00
27NGSFAP1216011	A	11	6" (160mm)	8.911	0.836	10.75	½"	0.45	4.00	12.5	-	$ 750.00
27NGSFAP1220011	A	11	8" (200mm)	12.742	1.27	12.75	½"	0.45	4.50	13.5	-	$ 1,000.00
27NGSFAP1225011	A	11	10" (250mm)	18.19	1.7014	14	½"	0.45	5.00	15.00	-	$ 1,450.00
27NGSFAP1231511	A	11	12" (315mm)	28.732	2.6667	16	½"	0.45	6.00	18.00	-	$ 1,450.00
27NGSFAP3412511	A	11	4" (125mm)	5.857	0.5375	8.62	¾"	0.52	4.00	12.5	-	$ 400.00
27NGSFAP3416011	A	11	6" (160mm)	8.952	0.836	10.75	¾"	0.52	4.00	12.5	-	$ 750.00
27NGSFAP3420011	A	11	8" (200mm)	12.783	1.27	12.75	¾"	0.52	4.50	13.5	-	$ 1,000.00
27NGSFAP3425011	A	11	10" (250mm)	18.247	1.7014	14	¾"	0.52	5.00	15.00	-	$ 1,200.00
27NGSFAP3431511	A	11	12" (315mm)	28.789	2.6667	16	¾"	0.52	6.00	18.00	-	$ 1,450.00
27NGSFAP1212517	A	17	4" (125mm)	5.8	0.448	7.87	½"	0.45	4.00	12.5	-	$ 400.00
27NGSFAP1216017	A	17	6" (160mm)	8.911	0.7004	9.84	½"	0.45	4.00	12.5	-	$ 750.00
27NGSFAP1220017	A	17	8" (200mm)	12.742	0.9488	11.02	½"	0.45	4.50	13.5	-	$ 1,000.00
27NGSFAP1225017	A	17	10" (250mm)	18.19	1.6941	13.97	½"	0.45	5.00	15.00	-	$ 1,450.00
27NGSFAP1231517	A	17	12" (315mm)	28.732	2.584	15.75	½"	0.45	6.00	18.00	-	$ 1,450.00
27NGSFAP3412517	A	17	4" (125mm)	5.857	0.448	7.87	¾"	0.52	4.00	12.5	-	$ 400.00
27NGSFAP3416017	A	17	6" (160mm)	8.952	0.7004	9.84	¾"	0.52	4.00	12.5	-	$ 750.00
27NGSFAP3420017	A	17	8" (200mm)	12.783	0.9488	11.02	¾"	0.52	4.50	13.5	-	$ 1,000.00
27NGSFAP3425017	A	17	10" (250mm)	18.247	1.6941	13.97	¾"	0.52	5.00	15.00	-	$ 1,200.00
27NGSFAP3431517	A	17	12" (315mm)	28.789	2.584	15.75	¾"	0.52	6.00	18.00	-	$ 1,450.00

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

EFX2 SECONDARY ELECTROFUSION COUPLING FOR *EXTENDED* FITTINGS

Range: From ø3″ to ø16″
Material: PP-RCT
Color: Grey
Note: item supplied with special cap for double electrofusion process



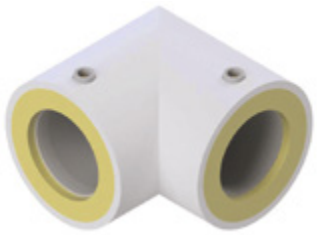


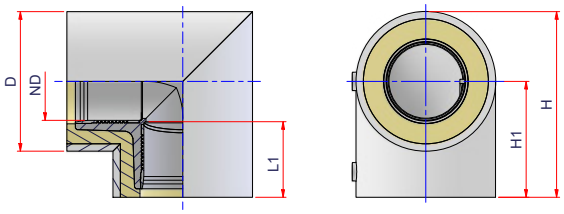
Code	SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	ND	D	L	Price Each
27NIME0317	**17**	**3″ (90mm)**	-	0.104	4.5	5.52	5.9	**$ 76.30**
27NIME0417	**17**	**3½″ (110mm)**	1.547	0.1111	4.5	5.52	6.30	**$ 99.90**
27NIME0617	**17**	**4″ (125mm)**	-	0.2622	6.62	8	7.08	**$ 169.40**
27NIME0833	**33**	**6″ (160mm)**	3.887	0.2926	8.66	10.35	4.72	**$ 272.30**
27NIME1033	**33**	**8″ (200mm)**	5.585	0.4998	10.83	12.52	5.51	**$ 544.50**
27NIME1233	**33**	**12″ (315mm)**	5.926	0.6345	12.77	14.37	5.31	**$ 726.00**
27NIME1433	**33**	**14″ (355mm)**	11.105	1.0085	14	16.14	6.69	**$ 1,512.50**
27NIME1633	**33**	**16″ (400mm)**	14.365	1.325	16.04	18.50	6.69	**$ 1,996.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° ELECTROFUSION PREINSULATED ELBOW

Range: From ø1" to ø 8"
Fitting structure: Electrofusion 90° Elbow + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:





SDR 11

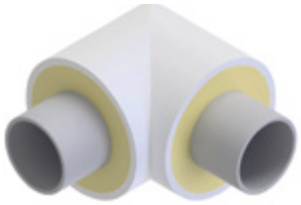
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	L1	H1	H	Price Each
27NGEAP32	**9**	**1" (32mm)**	-	0.0429	3.5	2	2.85	4.6	**$ 186.40**
27NGEAP40	**11**	**1¼" (40mm)**	-	0.0432	3.5	2	2.87	4.62	**$ 186.40**
27NGEAP50	**11**	**1½" (50mm)**	-	0.0861	4.5	2.5	3.5	5.75	**$ 186.40**
27NGEAP63	**11 / 17**	**2" (63mm)**	-	0.0922	4.5	2.5	3.7	5.95	**$ 213.00**
27NGEAP75	**11 / 17**	**2½" (75mm)**	-	0.226	6.62	3	4.37	7.68	**$ 255.40**
27NGEAP90	**11 / 17**	**3" (90mm)**	-	0.2526	6.62	3	4.81	8.12	**$ 335.20**
27NGEAP110	**11 / 17**	**3½" (110mm)**	-	0.5552	8.62	4	6.24	10.55	**$ 439.30**
27NGEAP125	**11 / 17**	**4" (125mm)**	-	0.5786	8.62	4	6.46	10.77	**$ 585.70**
27NGEAP160	**11 / 17**	**6" (160mm)**	-	0.9806	10.75	4	7.18	12.56	**$ 745.40**
27NGEAP200	**11 / 17**	**8" (200mm)**	-	1.6991	12.75	4.5	8.8	15.18	**$ 1,464.10**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED STANDARD BEND

Range: From ø1″ to ø 12″
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF

(A)



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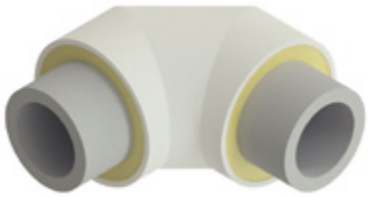
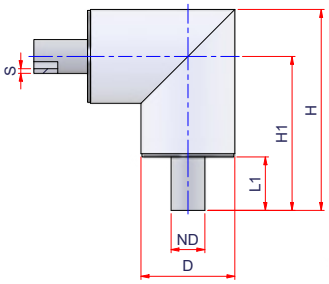


(A)



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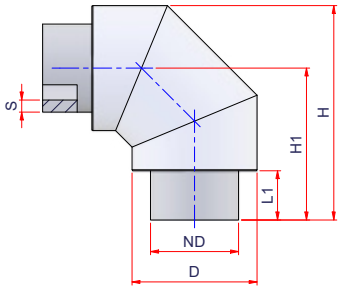


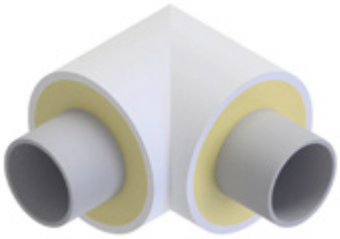
SDR 7.3

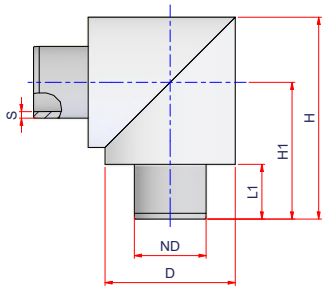
Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP3273MM	A	7.3	1″ (32mm)	0.924	0.1139	3.5	0.17	2	5.75	7.5	$ 223.90
27NGAP4073MM	A	7.3	1¼″ (40mm)	1.091	0.1139	3.5	0.22	2	5.75	7.5	$ 223.90
27NGAP5073MM	A	7.3	1½″ (50mm)	1.986	0.2109	4.5	0.27	2.5	6.75	9	$ 223.90
27NGAP6373MM	A	7.3	2″ (63mm)	2.482	0.2109	4.5	0.34	2.5	6.75	9	$ 256.00
27NGAP7573MM	A	7.3	2½″ (75mm)	5.073	0.535	6.63	0.4	3	8.5	11.81	$ 306.80
27NGAP9073MM	A	7.3	3″ (90mm)	6.303	0.535	6.63	0.49	3	8.5	11.81	$ 402.40
27NGAP11073MM	A	7.3	3½″ (110mm)	12.006	1.0951	8.63	0.59	4	10.5	14.81	$ 527.60
27NGAP12573MM	A	7.3	4″ (125mm)	14.184	1.0951	8.63	0.67	4	10.5	14.81	$ 703.10
27NGAP16073MM	A	7.3	6″ (160mm)	22.006	1.8781	10.75	0.86	4.5	12	17.38	$ 895.40
27NGAP20073MM	A	7.3	8″ (200mm)	40.034	2.9146	12.75	1.08	5	13.5	19.88	$ 1,754.50
27NGAP25073MM	B	7.3	10″ (250mm)	23.672	4.6667	14	1.35	5.5	17	24	$ 2,208.30
27NGAP31573MM	B	7.3	12″ (315mm)	37.149	6.5023	16	1.7	5	18.5	26.5	$ 3,630.00

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED STANDARD BEND

Range: From ø1" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF

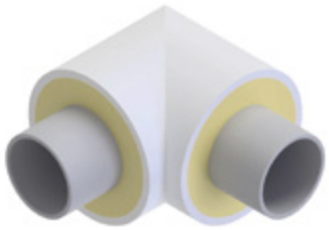




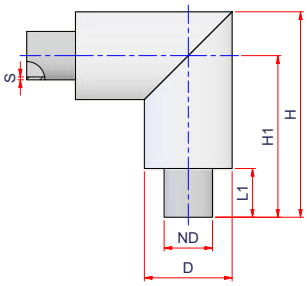
SDR 9 - 11

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP329MM	9	1" (32mm)	0.902	0.1139	3.5	0.14	2	5.75	7.5	$ 186.40
27NGAP4011MM	11	1¼" (40mm)	1.012	0.1139	3.5	0.15	2	5.75	7.5	$ 186.40
27NGAP5011MM	11	1½" (50mm)	2.176	0.2109	4.5	0.18	2.5	6.75	9	$ 186.40
27NGAP6311MM	11	2" (63mm)	2.266	0.2109	4.5	0.23	2.5	6.75	9	$ 213.00
27NGAP7511MM	11	2½" (75mm)	4.658	0.535	6.63	0.27	3	8.5	11.81	$ 255.40
27NGAP9011MM	11	3" (90mm)	5.745	0.535	6.63	0.32	3	8.5	11.81	$ 335.20
27NGAP11011MM	11	3½" (110mm)	10.867	1.0951	8.63	0.39	4	10.5	14.81	$ 439.30
27NGAP12511MM	11	4" (125mm)	12.873	1.0951	8.63	0.45	4	10.5	14.81	$ 585.70
27NGAP16011MM	11	6" (160mm)	19.295	1.7715	10.75	0.57	4	11.5	16.88	$ 745.40
27NGAP20011MM	11	8" (200mm)	37.297	2.7698	12.75	0.72	4.5	13	19.38	$ 1,464.10
27NGAP25011MM	11	10" (250mm)	48.224	3.5729	14	0.89	5	14	21	$ 1,839.20
27NGAP31511MM	11	12" (315mm)	85.533	5.3333	16	1.13	6	16	24	$ 3,025.00

90° PREINSULATED STANDARD BEND



Range: From ø 2" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF



SDR 17

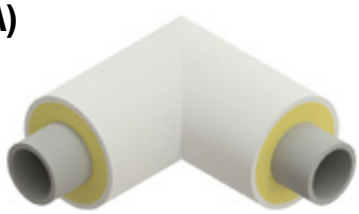
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP6317MM	17	2" (63mm)	1.721	0.2109	4.5	0.15	2.5	6.75	9	$ 191.90
27NGAP7517MM	17	2½" (75mm)	4.616	0.5356	6.63	0.18	3	8.5	11.82	$ 229.90
27NGAP9017MM	17	3" (90mm)	4.251	0.5356	6.63	0.21	3	8.5	11.82	$ 302.50
27NGAP11017MM	17	3½" (110mm)	8.624	0.7323	6.63	0.26	4	10.5	13.82	$ 395.70
27NGAP12517MM	17	4" (125mm)	8.731	0.7323	6.63	0.29	4	10.5	13.82	$ 527.20
27NGAP16017MM	14	6" (160mm)	26.969	1.8781	10.75	0.37	4	12	17.38	$ 671.00
27NGAP20017MM	17	8" (200mm)	29.407	2.9146	12.75	0.47	4.5	13.5	19.88	$ 1,318.90
27NGAP25017MM	17	10" (250mm)	39.666	3.7451	14	0.58	5	14.5	21.5	$ 1,655.30
27NGAP31517MM	17	12" (315mm)	64.135	5.3333	16	0.74	6	16	24	$ 2,722.50

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED *EXTENDED* BEND

Range: From ø1" to ø 12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EFX2 BF

(A)



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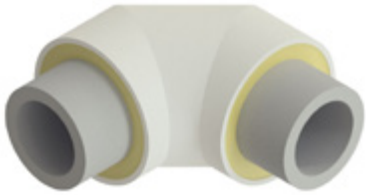

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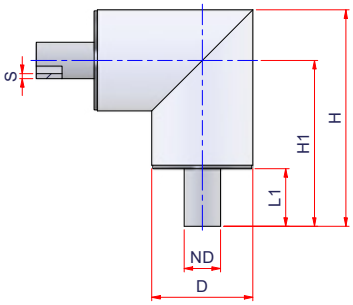

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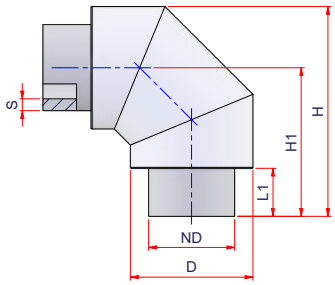


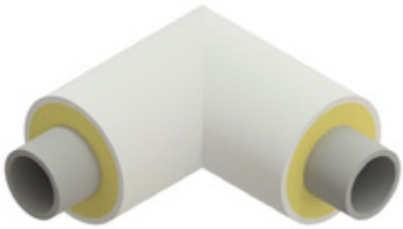
SDR 7.3

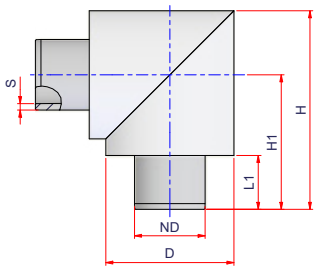
Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP3273MML	A	7.3	1" (32mm)	2.242	0.397	3.5	0.17	2	11.5	13.25	$ 284.40
27NGAP4073MML	A	7.3	1¼" (40mm)	2.522	0.397	3.5	0.22	2	12.5	14.25	$ 284.40
27NGAP5073MML	A	7.3	1½" (50mm)	4.129	0.6257	4.5	0.27	2.5	12.5	14.75	$ 284.40
27NGAP6373MML	A	7.3	2" (63mm)	4.918	0.6257	4.5	0.34	2.5	12.5	14.75	$ 320.70
27NGAP7573MML	A	7.3	2½" (75mm)	10.434	1.2857	6.63	0.4	3	16	19.31	$ 387.20
27NGAP9073MML	A	7.3	3" (90mm)	12.293	1.2857	6.63	0.49	3	16	19.31	$ 514.30
27NGAP11073MML	A	7.3	4" (110mm)	20.644	2.2672	8.63	0.59	4	18	22.31	$ 659.50
27NGAP12573MML	A	7.3	5" (125mm)	23.684	2.2672	8.63	0.67	4	18	22.31	$ 883.30
27NGAP16073MML	A	7.3	6" (160mm)	37.586	3.5461	10.75	0.86	4.5	20	25.38	$ 1,119.30
27NGAP20073MML	A	7.3	8" (200mm)	-	5.1328	12.75	1.08	5	22	28.38	$ 2,202.20
27NGAP25073MML	B	7.3	10" (250mm)	-	7.5367	14	1.35	5.5	23.5	30.50	$ 2,758.80
27NGAP31573MML	B	7.3	12" (315mm)	-	10.0833	16	1.7	5	25	33.00	$ 4,537.50

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED *EXTENDED* BEND

Range: From ø1" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF X2 BF





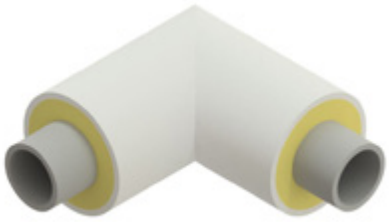
SDR 9 - 11

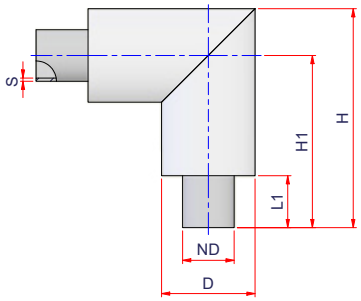
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP329MML	**9**	**1" (32mm)**	2.185	0.397	3.5	0.14	2	12.25	14	**$ 236.00**
27NGAP4011MML	**11**	**1¼" (40mm)**	2.326	0.397	3.5	0.15	2	12.25	14	**$ 236.00**
27NGAP5011MML	**11**	**1½" (50mm)**	3.803	0.6257	4.5	0.18	2.5	13.25	15.5	**$ 236.00**
27NGAP6311MML	**11**	**2" (63mm)**	4.431	0.6257	4.5	0.23	2.5	13.25	15.5	**$ 266.20**
27NGAP7511MML	**11**	**2½" (75mm)**	9.498	1.2857	6.625	0.27	3	15	18.31	**$ 320.70**
27NGAP9011MML	**11**	**3" (90mm)**	11.006	1.2857	6.625	0.32	3	15	18.31	**$ 423.50**
27NGAP11011MML	**11**	**3½" (110mm)**	18.459	2.2672	8.625	0.39	4	17	21.31	**$ 550.60**
27NGAP12511MML	**11**	**4" (125mm)**	21.049	2.2672	8.625	0.45	4	17	21.31	**$ 732.10**
27NGAP16011MML	**11**	**6" (160mm)**	32.512	3.3991	10.75	0.57	4	18	23.38	**$ 931.70**
27NGAP20011MML	**11**	**8" (200mm)**	50.625	4.94	12.75	0.72	4.5	19.5	25.88	**$ 1,839.20**
27NGAP25011MML	**11**	**10" (250mm)**	65.868	6.127	14	0.89	5	20.5	27.5	**$ 2,299.00**
27NGAP31511MML	**11**	**12" (315mm)**	103.084	8.6134	16	1.13	6	22.5	30.5	**$ 3,787.30**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED *EXTENDED* BEND

Range: From ø 2" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:





SDR 17

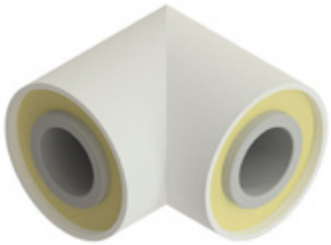
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGAP6317MML	**17**	**2" (63mm)**	3.671	0.5666	4.5	0.15	2.5	12.5	14.75	**$ 240.80**
27NGAP7517MML	**17**	**2½" (75mm)**	8.296	1.4299	6.63	0.18	3	16	19.31	**$ 288.00**
27NGAP9017MML	**17**	**3" (90mm)**	8.962	1.4299	6.63	0.21	3	16	19.31	**$ 377.60**
27NGAP11017MML	**17**	**3½" (110mm)**	15.459	2.4849	8.63	0.26	4	18	22.31	**$ 496.10**
27NGAP12517MML	**17**	**4" (125mm)**	15.884	2.4849	8.63	0.29	4	18	22.31	**$ 659.50**
27NGAP16017MML	**17**	**6" (160mm)**	28.142	4.0057	10.75	0.37	4	20	25.38	**$ 839.80**
27NGAP20017MML	**17**	**8" (200mm)**	43.365	5.9407	12.75	0.47	4.5	22	28.38	**$ 1,651.70**
27NGAP25017MML	**17**	**10" (250mm)**	54.221	6.8137	14	0.58	5	22	29	**$ 2,069.10**
27NGAP31517MML	**17**	**12" (315mm)**	78.291	9.4815	16	0.74	6	24	32	**$ 3,406.20**

90° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING

Range: From ø 2" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)



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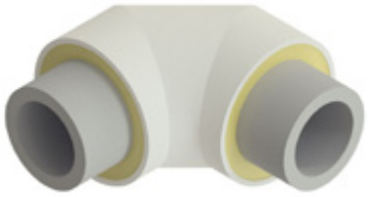

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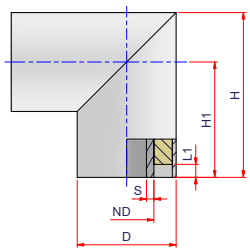

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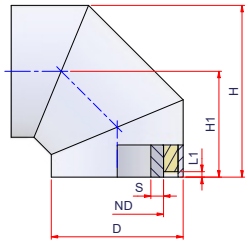


SDR 7.3

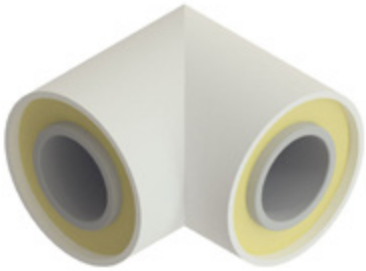
Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGSP6373MM	**A**	**7.3**	**2" (63mm)**	3.443	0.1465	4.5	0.34	0.59	5.25	7.5	**$ 282.00**
27NGSP7573MM	**A**	**7.3**	**2½" (75mm)**	7.825	0.4077	6.63	0.4	0.59	7	10.31	**$ 337.60**
27NGSP9073MM	**A**	**7.3**	**3" (90mm)**	8.575	0.4077	6.63	0.49	0.59	7	10.31	**$ 442.90**
27NGSP11073MM	**A**	**7.3**	**3½" (110mm)**	18.874	0.7567	8.63	0.59	0.59	8	12.31	**$ 580.80**
27NGSP12573MM	**A**	**7.3**	**4" (125mm)**	20.264	0.7567	8.63	0.67	0.59	8	12.31	**$ 774.40**
27NGSP16073MM	**A**	**7.3**	**6" (160mm)**	38.086	1.2855	10.75	0.86	0.59	9	14.38	**$ 985.00**
27NGSP20073MM	**A**	**7.3**	**8" (200mm)**	62.957	1.9785	12.75	1.08	0.59	10	16.38	**$ 1,936.00**
27NGSP25073MM	**B**	**7.3**	**10" (250mm)**	85.129	3.0807	14	1.35	0.59	12.5	19.5	**$ 2,432.10**
27NGSP31573MM	**B**	**7.3**	**12" (315mm)**	130.619	4.8981	16	1.70	0.59	15	23.0	**$ 3,993.00**

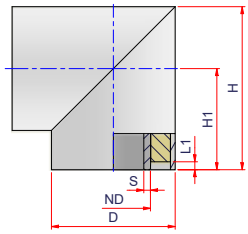
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING

Range: From ø 2" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



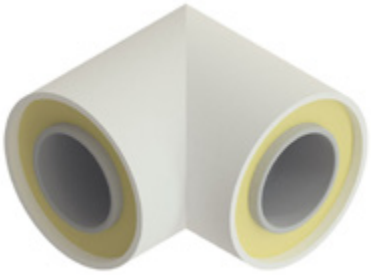


SDR 11

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGSP6311MM	**11**	**2" (63mm)**	3.27	0.1465	4.5	0.23	0.59	5.25	7.5	**$ 234.80**
27NGSP7511MM	**11**	**2½" (75mm)**	7.583	0.4077	6.63	0.27	0.59	7	10.31	**$ 280.80**
27NGSP9011MM	**11**	**3" (90mm)**	7.202	0.4077	6.63	0.32	0.59	7	10.31	**$ 369.10**
27NGSP11011MM	**11**	**3½" (110mm)**	18.104	0.7567	8.63	0.39	0.59	8	12.31	**$ 484.00**
27NGSP12511MM	**11**	**4" (125mm)**	17.314	0.7567	8.63	0.45	0.59	8	12.31	**$ 644.40**
27NGSP16011MM	**11**	**6" (160mm)**	36.019	1.2855	10.75	0.58	0.59	9	14.38	**$ 819.20**
27NGSP20011MM	**11**	**8" (200mm)**	59.029	1.9785	12.75	0.72	0.59	10	16.38	**$ 1,610.60**
27NGSP25011MM	**11**	**10" (250mm)**	77.729	2.4812	14	0.89	0.59	10.5	17.5	**$ 2,023.20**
27NGSP31511MM	**11**	**12" (315mm)**	116.265	3.7037	16	1.13	0.59	12	20	**$ 3,327.50**

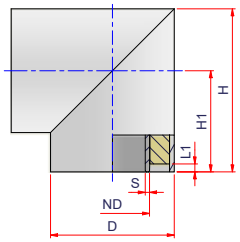
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

90° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING



Range: From ø8″ to ø12″
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



SDR 17

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	H1	H	Price Each
27NGSP20017MM	**17**	**8″ (200mm)**	55.905	1.9785	12.75	0.46	0.59	10	16.38	**$ 1,448.70**
27NGSP25017MM	**17**	**10″ (250mm)**	72.24	2.625	14	0.58	0.59	11	18	**$ 1,821.10**
27NGSP31517MM	**17**	**12″ (315mm)**	105.182	3.7037	16	0.73	0.59	12	20	**$ 2,994.80**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

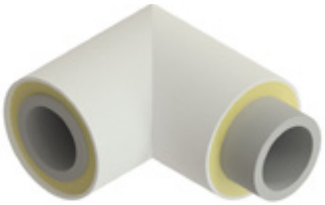
90° PREINSULATED *HYBRID* BEND

Range: From ø2″ to ø 12″
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket

Welding system **SIDE 1:** **SIDE2:**

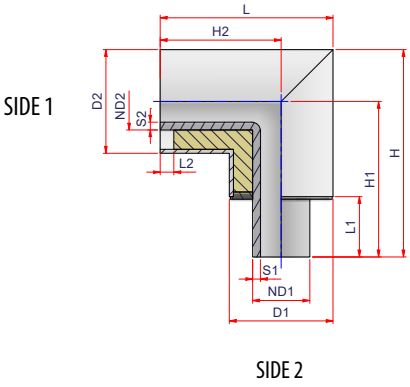
Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)



(B)

(A)



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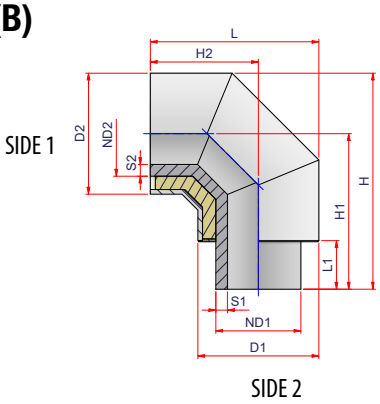


SDR 7.3

Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NGHY6373MM	**A**	**7.3**	**2″ (63mm)**	-	0.1758	4.5	4.5	0.34	0.34	2.5	0.59	7.5	6.75	5.25	9	**$ 310.10**
27NGHY7573MM	**A**	**7.3**	**2½″ (75mm)**	-	0.4594	6.62	6.62	0.4	0.4	3	0.59	10.31	8.5	7	11.63	**$ 371.50**
27NGHY9073MM	**A**	**7.3**	**3″ (90mm)**	-	0.4594	6.62	6.62	0.49	0.49	3	0.59	10.31	8.5	7	11.63	**$ 490.10**
27NGHY11073MM	**A**	**7.3**	**3½″ (110mm)**	-	0.8984	8.62	8.62	0.59	0.59	4	0.59	12.31	10.5	8	14.63	**$ 638.00**
27NGHY12573MM	**A**	**7.3**	**4″ (125mm)**	-	0.8984	8.62	8.62	0.67	0.67	4	0.59	12.31	10.5	8	14.63	**$ 851.90**
27NGHY16073MM	**A**	**7.3**	**6″ (160mm)**	-	1.5432	10.75	10.75	0.86	0.86	4.5	0.59	14.38	12	9	17.25	**$ 1,084.20**
27NGHY20073MM	**A**	**7.3**	**8″ (200mm)**	-	2.387	12.75	12.75	1.08	1.08	5	0.59	16.38	13.5	10	19.75	**$ 2,123.60**
27NGHY25073MM	**B**	**7.3**	**10″ (250mm)**	-	3.9497	14	14	1.35	1.35	5.5	0.59	19.5	14.5	12.5	25	**$ 2,674.10**
27NGHY31573MM	**B**	**7.3**	**12″ (315mm)**	-	5.963	16	16	1.7	1.7	5	0.59	23	16	15	28	**$ 4,392.30**

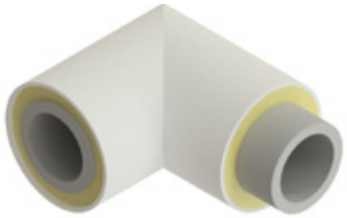
90° PREINSULATED *HYBRID* BEND

Range: From ø2″ to ø12″
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket

Welding system **SIDE 1:** BFX2 **SIDE2:** EF EFX2 BF

Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)



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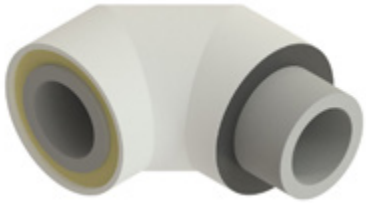
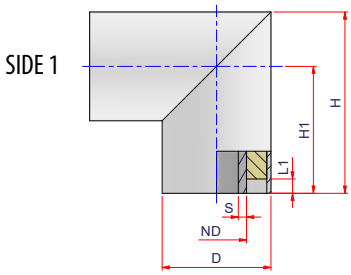
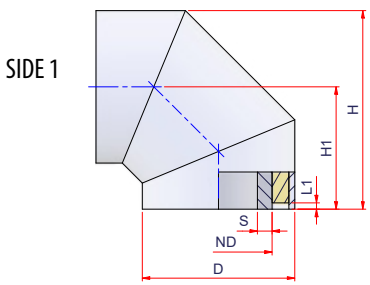


(A)



SIDE 2

(B)



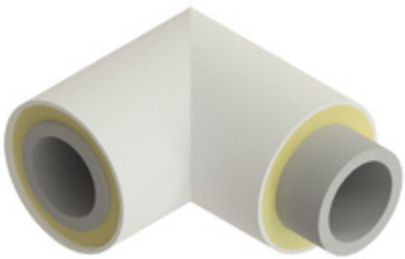
SIDE 2

SDR 11

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NGHY6311MM	**11**	**2″ (63mm)**	-	0.1758	4.5	4.5	0.23	0.23	2.5	0.59	7.5	6.75	5.25	9	**$ 260.20**
27NGHY7511MM	**11**	**2½″ (75mm)**	-	0.4594	6.62	6.62	0.27	0.27	3	0.59	10.31	8.5	7	11.63	**$ 308.60**
27NGHY9011MM	**11**	**3″ (90mm)**	-	0.4594	6.62	6.62	0.32	0.32	3	0.59	10.31	8.5	7	11.63	**$ 411.40**
27NGHY11011MM	**11**	**3½″ (110mm)**	-	0.8984	8.62	8.62	0.39	0.39	4	0.59	12.31	10.5	8	14.63	**$ 532.40**
27NGHY12511MM	**11**	**4″ (125mm)**	-	0.8984	8.62	8.62	0.45	0.45	4	0.59	12.31	10.5	8	14.63	**$ 346.10**
27NGHY16011MM	**11**	**6″ (160mm)**	-	1.4984	10.75	10.75	0.57	0.57	4	0.59	14.38	12	9	16.75	**$ 901.50**
27NGHY20011MM	**11**	**8″ (200mm)**	-	2.3265	12.75	12.75	0.72	0.72	4.5	0.59	16.38	13.5	10	19.25	**$ 1,772.70**
27NGHY25011MM	**11**	**10″ (250mm)**	-	3.3177	14	14	0.89	0.89	5	0.59	19.5	14.5	12.5	21	**$ 2,226.40**
27NGHY31511MM	**11**	**12″ (315mm)**	-	5.1111	16	16	1.13	1.13	6	0.59	23	16	15	24	**$ 3,659.70**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

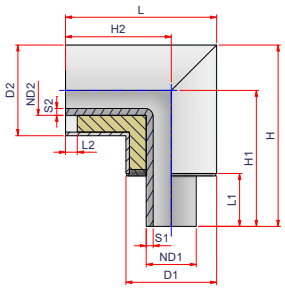
90° PREINSULATED *HYBRID* BEND



Range: From ø 8" to ø12"
Fitting structure: 90° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system **SIDE 1:** **SIDE2:**

Note: **BFX2** not weldable on pipes shorter than 6 feet

SIDE 1



SIDE 2

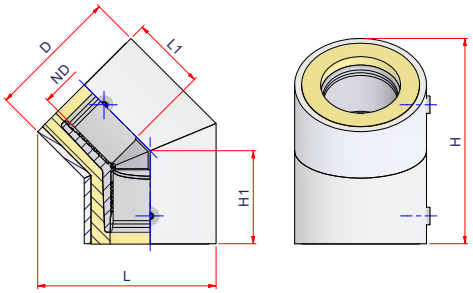
SDR 17

Code	Weldable SDR	Ø (ND1 - ND2)	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NGHY20017MM	**17**	**8" (200mm)**	-	2.3265	12.75	12.75	0.47	0.47	4.5	0.59	16.38	13.5	10	19.25	**$ 1,594.80**
27NGHY25017MM	**17**	**10" (250mm)**	-	3.3177	14	14	0.58	0.58	5	0.59	19.5	14.5	12.5	21	**$ 2,002.60**
27NGHY31517MM	**17**	**12" (315mm)**	-	5.1111	16	16	0.74	0.74	6	0.59	23	16	15	24	**$ 3,293.70**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° ELECTROFUSION PREINSULATED ELBOW

Range: From ø1″ to ø 8″
Fitting structure: Electrofusion 45° Elbow + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:



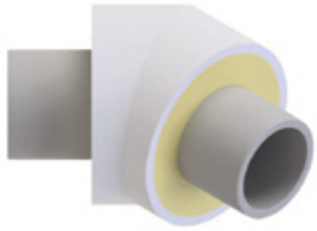
SDR 11

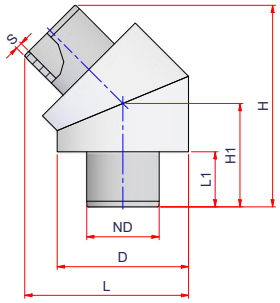
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	L1	L	H1	H	Price Each
27NCEAP32	**9**	**1″ (32mm)**	-	0.0505	3.5	2	4.67	2.42	5.34	**$ 186.40**
27NCEAP40	**11**	**1¼″ (40mm)**	-	0.0505	3.5	2	4.67	2.42	5.34	**$ 186.40**
27NCEAP50	**11**	**1½″ (50mm)**	-	0.1005	4.5	2.5	5.88	2.93	6.56	**$ 186.40**
27NCEAP63	**11 / 17**	**2″ (63mm)**	-	0.1003	4.5	2.5	5.88	2.92	6.55	**$ 213.00**
27NCEAP75	**11 / 17**	**2½″ (75mm)**	-	0.2756	6.62	3	8.27	3.74	8.7	**$ 255.40**
27NCEAP90	**11 / 17**	**3″ (90mm)**	3.717	0.2979	6.62	3	8.47	4.02	9.18	**$ 335.20**
27NCEAP110	**11 / 17**	**3½″ (110mm)**	6.120	0.6346	8.62	4	10.91	5.06	11.66	**$ 439.30**
27NCEAP125	**11 / 17**	**4″ (125mm)**	8.362	0.6346	8.62	4	10.91	5.06	11.66	**$ 585.70**
27NCEAP160	**11 / 17**	**6″ (160mm)**	12.024	1.0970	10.75	4	13.14	5.65	13.42	**$ 745.20**
27NCEAP200	**11 / 17**	**8″ (200mm)**	22.964	1.9107	12.75	4.5	15.79	6.98	16.4	**$ 1,464.10**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED STANDARD BEND

Range: From ø1″ to ø 12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF





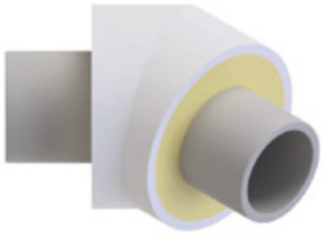
SDR 7.3

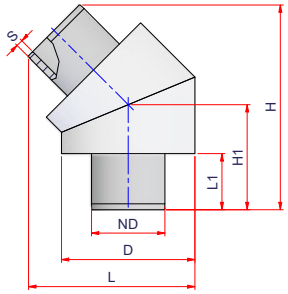
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP3273MM	**7.3**	**1″ (32mm)**	0.688	0.1071	3.5	0.17	2	5.02	4	7.27	**$ 223.90**
27NC45AP4073MM	**7.3**	**1¼″ (40mm)**	0.813	0.1103	3.5	0.22	2	5.13	4	7.38	**$ 223.90**
27NC45AP5073MM	**7.3**	**1½″ (50mm)**	1.497	0.2219	4.5	0.27	2.5	6.48	5	9.23	**$ 223.90**
27NC45AP6373MM	**7.3**	**2″ (63mm)**	1.867	0.2306	4.5	0.34	2.5	6.66	5	9.41	**$ 256.00**
27NC45AP7573MM	**7.3**	**2½″ (75mm)**	3.712	0.4887	6.63	0.4	3	8.6	6	11.29	**$ 306.80**
27NC45AP9073MM	**7.3**	**3″ (90mm)**	4.574	0.5062	6.63	0.49	3	8.81	6	11.49	**$ 402.40**
27NC45AP11073MM	**7.3**	**3½″ (110mm)**	8.893	1.1517	8.63	0.59	4	11.5	8	15.19	**$ 527.60**
27NC45AP12573MM	**7.3**	**4″ (125mm)**	10.377	1.1837	8.63	0.67	4	11.71	8	15.4	**$ 703.10**
27NC45AP16073MM	**7.3**	**6″ (160mm)**	17.101	2.1154	10.75	0.86	4.5	14.32	9.5	18.44	**$ 895.40**
27NC45AP20073MM	**7.3**	**8″ (200mm)**	-	3.7055	12.75	1.08	5	17.29	11.5	22.41	**$ 1,754.50**
27NC45AP25073MM	**7.3**	**10″ (250mm)**	-	5.3387	14	1.35	5.5	19.67	13	25.67	**$ 2,208.30**
27NC45AP31573MM	**7.3**	**12″ (315mm)**	-	7.4052	16	1.7	5	22.28	14	28.28	**$ 3,630.00**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED STANDARD BEND

Range: From ø1″ to ø12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF





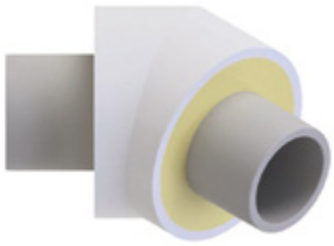
SDR 9 - 11

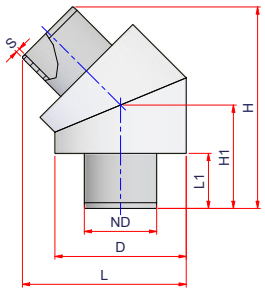
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP329MM	9	1″ (32mm)	0.668	0.1071	3.5	0.14	2	5.02	4	7.27	$ 186.40
27NC45AP4011MM	11	1¼″ (40mm)	0.745	0.1103	3.5	0.14	2	5.13	4	7.38	$ 186.40
27NC45AP5011MM	11	1½″ (50mm)	1.369	0.2219	4.5	0.18	2.5	6.48	5	9.23	$ 186.40
27NC45AP6311MM	11	2″ (63mm)	1.675	0.2306	4.5	0.23	2.5	6.66	5	9.41	$ 213.00
27NC45AP7511MM	11	2½″ (75mm)	3.404	0.4887	6.63	0.27	3	8.6	6	11.29	$ 255.40
27NC45AP9011MM	11	3″ (90mm)	4.138	0.5062	6.63	0.32	3	8.81	6	11.49	$ 335.20
27NC45AP11011MM	11	3½″ (110mm)	7.936	1.1517	8.63	0.29	4	11.5	8	15.19	$ 439.30
27NC45AP12511MM	11	4″ (125mm)	9.195	1.1837	8.63	0.45	4	11.71	8	15.4	$ 585.70
27NC45AP16011MM	11	6″ (160mm)	13.635	2.1154	10.75	0.58	4	14.32	9,5	18.44	$ 745.40
27NC45AP20011MM	11	8″ (200mm)	24.189	3.7055	12.75	0.72	4.5	17.29	11,5	22.41	$ 1464.10
27NC45AP25011MM	11	10″ (250mm)	36.387	5.3387	14	0.89	5	19.67	13	25.67	$ 1,839.20
27NC45AP31511MM	11	12″ (315mm)	58.74	7.4052	16	1.13	6	22.28	14	28.28	$ 3,025.00

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED STANDARD BEND

Range: From ø 2 ″ to ø12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF





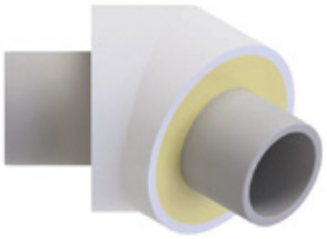
SDR 17

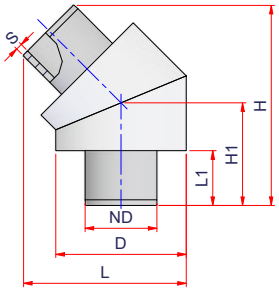
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP6317MM	17	2″ (63mm)	1.276	0.2306	4.5	0.15	2.5	6.66	5	9.41	$ 191.90
27NC45AP7517MM	17	2½″ (75mm)	2.623	0.4887	6.63	0.17	3	8.6	6	11.29	$ 229.90
27NC45AP9017MM	17	3″ (90mm)	2.925	0.5062	6.63	0.21	3	8.81	6	11.49	$ 302.50
27NC45AP11017MM	17	3½″ (110mm)	5.778	1.1517	8.63	0.26	4	11.5	8	15.19	$ 395.70
27NC45AP12517MM	17	4″ (125mm)	6.27	1.1837	8.63	0.29	4	11.71	8	15.4	$ 526.40
27NC45AP16017MM	17	6″ (160mm)	12.015	2.1154	10.75	0.37	4	14.32	9.5	18.44	$ 671.00
27NC45AP20017MM	17	8″ (200mm)	20.249	3.7055	12.75	0.47	4.5	17.29	11.5	22.41	$ 1317.70
27NC45AP25017MM	17	10″ (250mm)	29.579	5.3387	14	0.58	5	19.67	13	25.67	$ 1,655.30
27NC45AP31517MM	17	12″ (315mm)	50.667	7.4052	16	0.74	6	22.28	14	28.28	$ 2,722.50

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED *EXTENDED* BEND

Range: From ø1" to ø 12"
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF





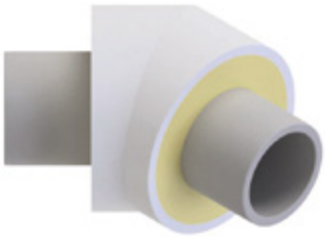
SDR 7.3

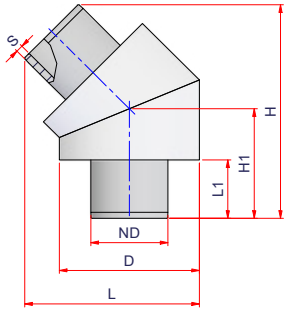
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP3273MML	**7.3**	**1" (32mm)**	2.688	0.7821	3.5	0.17	2	10.15	11.25	19.65	**$ 284.40**
27NC45AP4073MML	**7.3**	**1¼" (40mm)**	2.813	0.7909	3.5	0.22	2	10.26	11.25	19.76	**$ 284.40**
27NC45AP5073MML	**7.3**	**1½" (50mm)**	4.897	1.2639	4.5	0.27	2.5	11.78	12.5	22.03	**$ 284.40**
27NC45AP6373MML	**7.3**	**2" (63mm)**	4.067	1.2788	4.5	0.34	2.5	11.97	12.5	22.16	**$ 319.50**
27NC45AP7573MML	**7.3**	**2½" (75mm)**	13.712	3.0836	6.625	0.4	3	15.67	16	28.36	**$ 387.20**
27NC45AP9073MML	**7.3**	**3" (90mm)**	14.574	3.1294	6.625	0.49	3	15.88	16	28.57	**$ 508.20**
27NC45AP11073MML	**7.3**	**3½" (110mm)**	23.893	5.1945	8.625	0.59	4	18.57	18	32.26	**$ 659.50**
27NC45AP12573MML	**7.3**	**4" (125mm)**	25.377	5.2624	8.625	0.67	4	18.78	18	32.47	**$ 883.30**
27NC45AP16073MML	**7.3**	**6" (160mm)**	41.101	8.2291	10.75	0.86	4.5	21.75	20	36.37	**$ 1,119.30**
27NC45AP20073MML	**7.3**	**8" (200mm)**	57.131	12.0071	12.75	1.08	5	24.72	22	40.34	**$ 2,202.20**
27NC45AP25073MML	**7.3**	**10" (250mm)**	60.241	13.6458	14.00	1.35	5.5	26.04	22	41.04	**$ 2758.80**
27NC45AP31573MML	**7.3**	**12" (315mm)**	67.512	19.0512	16.00	1.70	5	29.36	24	45.36	**$ 4,537.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED *EXTENDED* BEND

Range: From ø1" to ø12"
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EFX2 BF





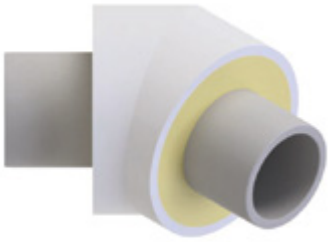
SDR 9 - 11

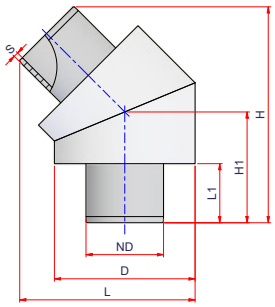
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP329MML	**9**	**1" (32mm)**	2.668	1.0055	4.5	0.14	2	10.15	11.25	19.65	**$ 236.00**
27NC45AP4011MML	**11**	**1¼" (40mm)**	2.745	1.0168	4.5	0.14	2	10.26	11.25	19.76	**$ 236.00**
27NC45AP5011MML	**11**	**1½" (50mm)**	4.569	1.2639	4.5	0.18	2,5	11.78	12.5	22.03	**$ 236.00**
27NC45AP6311MML	**11**	**2" (63mm)**	4.775	1.2788	4.5	0.23	2,5	11.97	12.5	22.16	**$ 266.20**
27NC45AP7511MML	**11**	**2½" (75mm)**	13.904	3.0836	6.63	0.27	3	15.67	16	28.36	**$ 320.70**
27NC45AP9011MML	**11**	**3" (90mm)**	14.138	3.1294	6.63	0.32	3	15.88	16	28.57	**$ 423.50**
27NC45AP11011MML	**11**	**3½" (110mm)**	23.836	5.1945	8.63	0.39	4	18.57	18	32.26	**$ 550.60**
27NC45AP12511MML	**11**	**4" (125mm)**	24.195	5.2624	8.63	0.45	4	18.78	18	32.47	**$ 732.10**
27NC45AP16011MML	**11**	**6" (160mm)**	35.635	8.2291	10.75	0.58	4	21.75	20	36.37	**$ 931.70**
27NC45AP20011MML	**11**	**8" (200mm)**	54.189	12.0071	12.75	0.72	4.5	21.72	22	40.34	**$ 1,839.20**
27NC45AP25011MML	**11**	**10" (250mm)**	66.387	13.6392	14	0.89	5	26.04	22	41.03	**$ 2,299.00**
27NC45AP31511MML	**11**	**12" (315mm)**	98.741	19.0512	16	1.13	6	29.36	24	45.36	**$ 3,787.30**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED *EXTENDED* BEND

Range: From ø 2″ to ø12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EFX2 BF





SDR 17

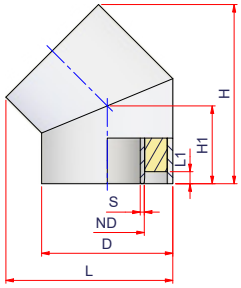
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45AP6317MML	**17**	**2″ (63mm)**	4.276	1.2858	4.5	0.15	2.5	11.97	12.5	22.22	**$ 240.80**
27NC45AP7517MML	**17**	**2½″ (75mm)**	12.263	3.0836	6.63	0.17	3	15.67	16	28.36	**$ 288.00**
27NC45AP9017MML	**17**	**3″ (90mm)**	12.925	3.1294	6.63	0.21	3	15.88	16	28.57	**$ 377.60**
27NC45AP11017MML	**17**	**3½″ (110mm)**	19.778	5.1945	8.63	0.26	4	18.57	18	32.26	**$ 494.90**
27NC45AP12517MML	**17**	**4″ (125mm)**	20.27	5.2624	8.63	0.29	4	18.78	18	32.47	**$ 659.50**
27NC45AP16017MML	**17**	**6″ (160mm)**	34.015	8.2291	10.75	0.37	4	21.75	20	36.37	**$ 839.80**
27NC45AP20017MML	**17**	**8″ (200mm)**	55.249	12.0071	12.75	0.47	4.5	24.72	22	40.34	**$ 1,651.70**
27NC45AP25017MML	**17**	**10″ (250mm)**	58.249	13.6431	14	0.58	5	26.04	22	41.04	**$ 2,069.10**
27NC45AP31517MML	**17**	**12″ (315mm)**	69.579	19.0512	16	0.74	6	29.36	24	45.36	**$ 3,412.20**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING

Range: From ø2″ to ø12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



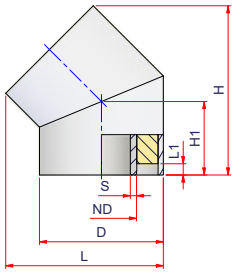
SDR 7.3

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45SP6373MM	**7.3**	**2″ (63mm)**	-	0.204	4.5	0.34	0.59	6.85	4.25	8.85	**$ 282.00**
27NC45SP7573MM	**7.3**	**2½″ (75mm)**	-	0.4542	6.63	0.41	0.59	9.19	5	10.88	**$ 337.60**
27NC45SP9073MM	**7.3**	**3″ (90mm)**	-	0.4542	6.63	0.48	0.59	9.19	5	10.88	**$ 442.90**
27NC45SP11073MM	**7.3**	**3½″ (110mm)**	-	0.7729	8.63	0.59	0.59	11.25	5.5	12.44	**$ 580.80**
27NC45SP12573MM	**7.3**	**4″ (125mm)**	-	0.7729	8.63	0.67	0.59	11.25	5.5	12.44	**$ 774.40**
27NC45SP16073MM	**7.3**	**6″ (160mm)**	-	1.2263	10.75	0.86	0.59	13.42	6	14.04	**$ 984.50**
27NC45SP20073MM	**7.3**	**8″ (200mm)**	-	1.7956	12.75	1.08	0.59	15.48	6.5	15.6	**$ 1,936.00**
27NC45SP25073MM	**7.3**	**10″ (250mm)**	-	2.5526	14	1.35	0.59	17.25	7.5	17.75	**$ 2,432.10**
27NC45SP31573MM	**7.3**	**12″ (315mm)**	-	4.0911	16	1.7	0.59	20.02	9	21.02	**$ 3,993.00**

45° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING

Range: From ø2" to ø12"
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



SDR 11

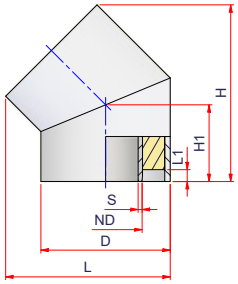
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45SP6311MM	**11**	**2" (63mm)**	-	0.204	4.5	0.23	0.59	6.85	4.25	8.85	**$ 234.80**
27NC45SP7511MM	**11**	**2½" (75mm)**	-	0.4542	6.63	0.27	0.59	9.19	5	10.88	**$ 280.90**
27NC45SP9011MM	**11**	**3" (90mm)**	-	0.4542	6.63	0.32	0.59	9.19	5	10.88	**$ 368.80**
27NC45SP11011MM	**11**	**3½" (110mm)**	-	0.7729	8.63	0.39	0.59	11.25	5.5	12.44	**$ 484.00**
27NC45SP12511MM	**11**	**4" (125mm)**	-	0.7729	8.63	0.45	0.59	11.25	5.5	12.44	**$ 644.40**
27NC45SP16011MM	**11**	**6" (160mm)**	-	1.2263	10.75	0.57	0.59	13.42	6	14.04	**$ 820.10**
27NC45SP20011MM	**11**	**8" (200mm)**	-	1.7956	12.75	0.72	0.59	15.48	6.5	15.6	**$ 1,610.60**
27NC45SP25011MM	**11**	**10" (250mm)**	-	2.5526	14	0.89	0.59	17.25	7.5	17.75	**$ 2,023.20**
27NC45SP31511MM	**11**	**12" (315mm)**	-	4.0911	16	1.13	0.59	20.02	9	21.02	**$ 3,327.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

45° PREINSULATED BEND FOR SIMULTANEOUS BUTT WELDING

Range: From ø8″ to ø12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

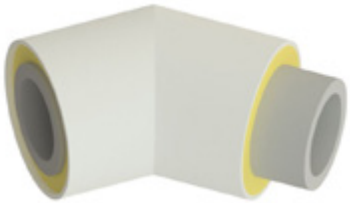
Note: **BFX2** not weldable on pipes shorter than 6 feet



SDR 17

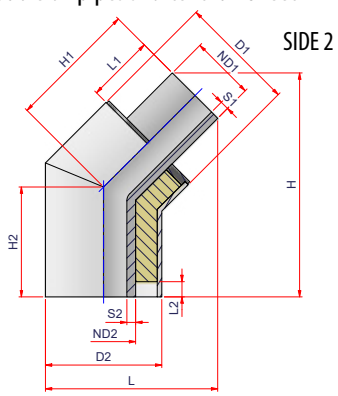
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NC45SP20017MM	**17**	**8″ (200mm)**	-	1.7956	12.75	0.47	0.59	15.48	6.5	15.6	**$ 1,448.70**
27NC45SP25017MM	**17**	**10″ (250mm)**	-	2.5526	14	0.58	0.59	17.25	7.5	17.75	**$ 1,820.90**
27NC45SP31517MM	**17**	**12″ (315mm)**	-	4.0911	16	0.74	0.59	20.02	9	21.02	**$ 2,994.80**

PREINSULATED 45° *HYBRID* BEND



Range: From ø2″ to ø 12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacke
Welding system **SIDE 1:** **SIDE2:**

Note: **BFX2** not weldable on pipes shorter than 6 feet



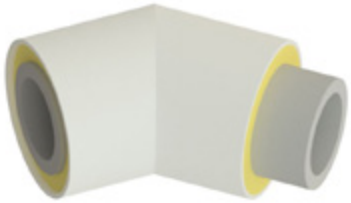
SIDE 1

SDR 7.3

Code	Weldable SDR	Ø ND1 - ND2	Weight lbs/pc	Volume ft^3/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NC45HY6373MM	**7.3**	**2″ (63mm)**	-	0.1502	4.5	4.5	0.34	0.34	2.5	0.59	6.66	5	4.25	8.66	**$ 311.00**
27NC45HY7573MM	**7.3**	**2½″ (75mm)**	-	0.3395	6.63	6.63	0.4	0.4	3	0.59	8.6	6	5	10.29	**$ 371.50**
27NC45HY9073MM	**7.3**	**3″ (90mm)**	-	0.3549	6.63	6.63	0.49	0.49	3	0.59	8.81	6	5	10.5	**$ 487.70**
27NC45HY11073MM	**7.3**	**3½″ (110mm)**	-	0.7288	8.63	8.63	0.59	0.59	4	0.59	11.5	8	5.5	12.69	**$ 638.90**
27NC45HY12573MM	**7.3**	**4″ (125mm)**	-	0.7544	8.63	8.63	0.67	0.67	4	0.59	11.71	8	5.5	12.9	**$ 853.10**
27NC45HY16073MM	**7.3**	**6″ (160mm)**	-	1.3318	10.75	10.75	0.86	0.86	4.5	0.59	14.32	9.5	6	14.95	**$ 1,084.20**
27NC45HY20073MM	**7.3**	**8″ (200mm)**	-	2.2223	12.75	12.75	1.08	1.08	5	0.59	17.29	11.5	6.5	17.42	**$ 2,123.60**
27NC45HY25073MM	**7.3**	**10″ (250mm)**	-	3.2144	14	14	1.35	1.35	5.5	0.59	19.67	13	7.5	20.17	**$ 2,674.10**
27NC45HY31573MM	**7.3**	**12″ (315mm)**	-	4.8026	16	16	1.7	1.7	5	0.59	22.28	14	9	23.28	**$ 4,392.30**

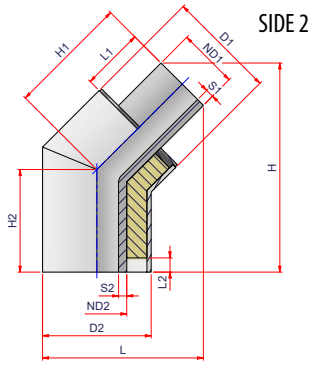
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED 45° *HYBRID* BEND



Range: From ø2″ to ø 12″
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system **SIDE 1:** **SIDE2:**

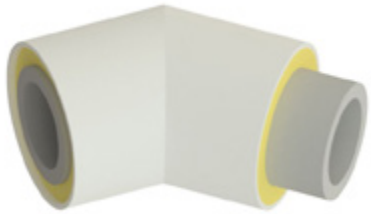
Note: **BFX2** not weldable on pipes shorter than 6 feet



SIDE 1

SDR 11

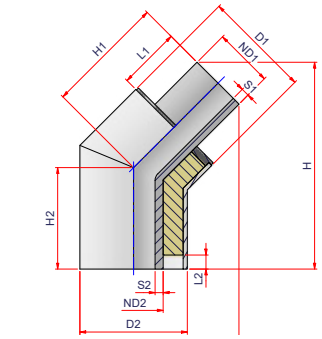
Code	Weldable SDR	Ø ND1 - ND2	Weight lbs/pc	Volume ft^3/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NC45HY6311MM	**11**	**2″ (63mm)**	-	0.1502	4.5	4.5	0.23	0.23	2.5	0.59	6.66	5	4.25	8.66	**$ 260.20**
27NC45HY7511MM	**11**	**2½″ (75mm)**	-	0.3395	6.63	6.63	0.27	0.27	3	0.59	8.6	6	5	10.29	**$ 314.60**
27NC45HY9011MM	**11**	**3″ (90mm)**	-	0.3549	6.63	6.63	0.32	0.32	3	0.59	8.81	6	5	10.5	**$ 405.40**
27NC45HY11011MM	**11**	**3½″ (110mm)**	-	0.7288	8.63	8.63	0.39	0.39	4	0.59	11.5	8	5.5	12.69	**$ 532.40**
27NC45HY12511MM	**11**	**4″ (125mm)**	-	0.7544	8.63	8.63	0.45	0.45	4	0.59	11.71	8	5.5	12.9	**$ 709.10**
27NC45HY16011MM	**11**	**6″ (160mm)**	-	1.3318	10.75	10.75	0.57	0.57	4	0.59	14.32	9.5	6	14.95	**$ 901.50**
27NC45HY20011MM	**11**	**8″ (200mm)**	-	2.2223	12.75	12.75	0.72	0.72	4.5	0.59	17.29	11.5	6.5	17.42	**$ 1,772.70**
27NC45HY25011MM	**11**	**10″ (250mm)**	-	3.2144	14	14	0.89	0.89	5	0.59	19.67	13	7.5	20.17	**$ 2,226.40**
27NC45HY31511MM	**11**	**12″ (315mm)**	-	4.8026	16	16	1.13	1.13	6	0.59	22.28	14	9	23.28	**$ 3,660.30**



PREINSULATED 45° *HYBRID* BEND

Range: From ø 8" to ø 12"
Fitting structure: 45° Elbow - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system **SIDE 1:** BFX2 **SIDE2:** EF EFX2 BF

Note: **BFX2** not weldable on pipes shorter than 6 feet



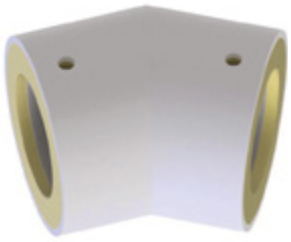
SDR 17

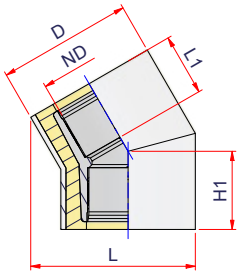
Code	Weldable SDR	Ø ND1 - ND2	Weight lbs/pc	Volume ft^3/pc	D1	D2	S1	S2	L1	L2	L	H1	H2	H	Price Each
27NC45HY12517MM	**17**	**8" (200mm)**	-	2.2223	12.75	12.75	0.47	0.47	4.5	0.59	17.29	11.5	6.5	17.42	**$ 1,449.80**
27NC45HY16017MM	**17**	**10" (250mm)**	-	3.2144	14	14	0.58	0.58	6	0.59	19.67	13	7.5	20.17	**$ 1,820.50**
27NC45HY20017MM	**17**	**12" (315mm)**	-	4.8026	16	16	0.74	0.74	5	0.59	22.28	14	9	23.28	**$ 1,594.80**

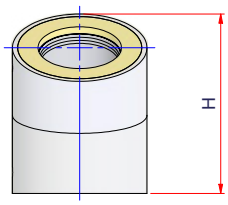
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

30° ELECTROFUSION PREINSULATED ELBOW

Range: From ø3" to ø6"
Fitting structure: Electrofusion 30° Elbow + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:







SDR 11

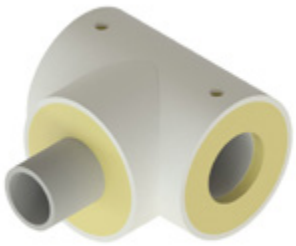
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	L1	L	H1	H	Price Each
27NCEAP3090	**11**	**3" (90mm)**	3.717	0.1727	6.62	3	7.33	3.93	6.15	**$ 369.10**
27NCEAP30110	**11**	**3½" (110mm)**	6.12	0.3049	8.62	4	9.19	4.94	6.65	**$ 484.00**
27NCEAP30125	**11**	**4" (125mm)**	8.362	0.3611	8.62	4	9.45	5.02	7.66	**$ 645.00**
27NCEAP30160	**11**	**6" (160mm)**	12.024	0.5793	10.75	4	11.44	5.46	8.14	**$ 820.40**

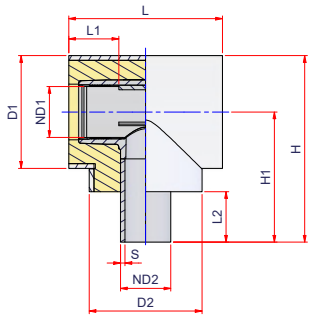
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

ELECTROFUSION PREINSULATED TEE

Range: From ø1" to ø 6"
Fitting structure: Electrofusion Tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket

Welding system **SIDE 1 - 2:** EF **SIDE 3:** EF BF





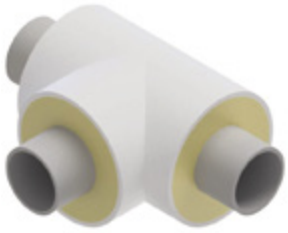
SDR 11

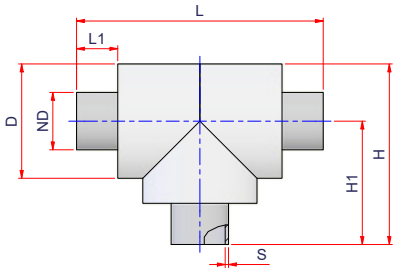
Code	Weldable SDR	Ø ND1 - ND2	Weight lbs/pc	Volume ft³/pc	D1	L1	S	D2	L2	L	H1	H	Price Each
27NTCEAP32	**9**	**1" (32mm)**	1.010	0.0947	3.5	2	0.11	3.5	2	5.5	6.75	8.5	**$ 279.60**
27NTCEAP40	**11**	**1¼" (40mm)**	1.133	0.1033	3.5	2	0.14	3.5	2	6	6.75	8.5	**$ 279.60**
27NTCEAP50	**11**	**1½" (50mm)**	1.790	0.1953	4.5	2.5	0.18	4.5	2.5	7.5	7.75	10	**$ 279.60**
27NTCEAP63	**11 / 17**	**2" (63mm)**	2.348	0.2018	4.5	2.5	0.23	4.5	2.5	7.75	7.75	10	**$ 319.50**
27NTCEAP75	**11 / 17**	**2½" (75mm)**	3.728	0.4844	6.62	3	0.27	6.62	3	9.5	10	13.31	**$ 383.10**
27NTCEAP90	**11 / 17**	**3" (90mm)**	4.784	0.5354	6.62	3	0.32	6.62	3	10.5	10	13.31	**$ 502.90**
27NTCEAP110	**11 / 17**	**3½" (110mm)**	7.954	1.0374	8.62	4	0.39	8.62	4	12.75	12	16.31	**$ 658.90**
27NTCEAP125	**11 / 17**	**4" (125mm)**	9.621	1.0984	8.62	4	0.45	8.62	4	13.5	12	16.31	**$ 878.50**
27NTCEAP160	**11 / 17**	**6" (160mm)**	13.373	1.5146	10.75	4	0.57	10.75	4	13.25	13	18.38	**$ 1,118.10**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD TEE

Range: From ø1″ to ø12″
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF





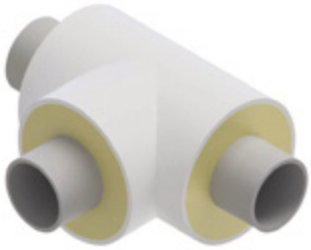
SDR 7.3

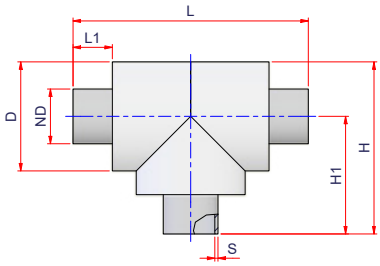
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP3273MM	7.3	1″ (32mm)	1.199	0.2324	3.5	0.17	2	13.5	6.75	8.5	$ 335.90
27NTAP4073MM	7.3	1¼″ (40mm)	1.404	0.2324	3.5	0.22	2	13.5	6.75	8.5	$ 335.90
27NTAP5073MM	7.3	1½″ (50mm)	2.562	0.4036	4.50	0.27	2.5	15.5	7.75	10	$ 335.90
27NTAP6373MM	7.3	2″ (63mm)	3.221	0.4036	4.50	0.34	2.5	15.5	7.75	10	$ 383.60
27NTAP7573MM	7.3	2½″ (75mm)	6.479	1.0198	6.62	0.41	3	20	10	13.31	$ 459.80
27NTAP9073MM	7.3	3″ (90mm)	8.044	1.0198	6.62	0.48	3	20	10	13.31	$ 603.80
27NTAP11073MM	7.3	3½″ (110mm)	15.379	1.9527	8.62	0.59	4	24	12	16.31	$ 790.80
27NTAP12573MM	7.3	4″ (125mm)	18.256	1.9527	8.62	0.67	4	24	12	16.31	$ 1,054.60
27NTAP16073MM	7.3	6″ (160mm)	30.001	3.1704	10.75	0.86	4.5	27	13.5	18.88	$ 1,341.90
27NTAP20073MM	7.3	8″ (200mm)	48.014	4.7314	12.75	1.08	5	30	15	21.38	$ 2,631.80
27NTAP25073MM	7.3	10″ (250mm)	76.937	5.963	14.00	1.35	5.5	32	16	23	$ 3,315.40
27NTAP31573MM	7.3	12″ (315mm)	142.467	7.8704	16.00	1.70	5	34	17	25	$ 5,445.00

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD TEE

Range: From ø1" to ø12"
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF BF





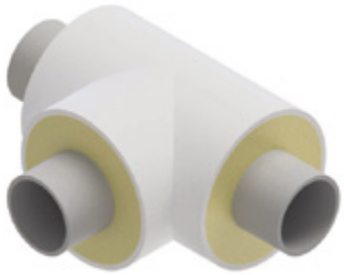
SDR 9 - 11

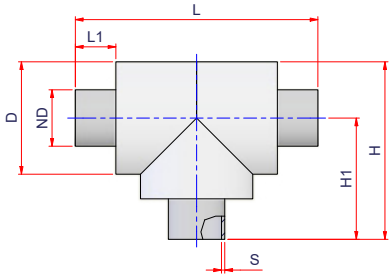
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP329MM	9	1" (32mm)	1.166	0.2324	3.5	0.14	2	13.5	6.75	8.5	$ 279.60
27NTAP4011MM	11	1¼" (40mm)	1.287	0.2324	3.5	0.14	2	13.5	6.75	8.5	$ 279.60
27NTAP5011MM	11	1½" (50mm)	2.334	0.4036	4.50	0.18	2.5	15.5	7.75	10	$ 279.60
27NTAP6311MM	11	2" (63mm)	2.897	0.4036	4.50	0.23	2.5	15.5	7.75	10	$ 319.50
27NTAP7511MM	11	2½" (75mm)	5.855	1.0198	6.62	0.27	3	20	10	13.31	$ 383.10
27NTAP9011MM	11	3" (90mm)	7.209	1.0198	6.62	0.32	3	20	10	13.31	$ 502.90
27NTAP11011MM	11	3½" (110mm)	13.664	1.9527	8.62	0.39	4	24	12	16.31	$ 658.90
27NTAP12511MM	11	4" (125mm)	16.29	1.9527	8.62	0.45	4	24	12	16.31	$ 878.50
27NTAP16011MM	11	6" (160mm)	24.797	3.1704	10.75	0.57	4	27	13.5	18.88	$ 1,118.10
27NTAP20011MM	11	8" (200mm)	40.785	4.7314	12.75	0.72	4.5	30	15	21.38	$ 2,196.20
27NTAP25011MM	11	10" (250mm)	61.833	5.651	14.00	0.89	5	31	15.5	22.5	$ 2,758.80
27NTAP31511MM	11	12" (315mm)	113.725	8.6667	16.00	1.13	6	36	18	26	$ 4,537.50

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD TEE

Range: From ø 2" to ø12"
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF





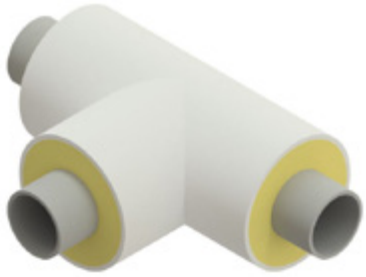
SDR 17

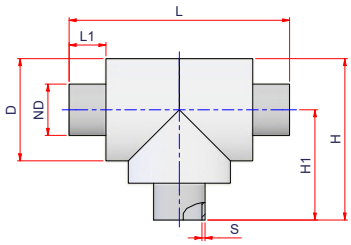
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP6317MM	**17**	**2" (63mm)**	2.187	0.4036	4.50	0.15	2.5	15.5	7.75	10	**$ 288.00**
27NTAP7517MM	**17**	**2½" (75mm)**	4.753	1.0198	6.62	0.17	3	20	10	13.31	**$ 344.90**
27NTAP9017MM	**17**	**3" (90mm)**	5.227	1.0198	6.62	0.21	3	20	10	13.31	**$ 452.60**
27NTAP11017MM	**17**	**3½" (110mm)**	10.63	1.9527	8.62	0.25	4	24	12	16.31	**$ 593.60**
27NTAP12517MM	**17**	**4" (125mm)**	11.08	1.9527	8.62	0.29	4	24	12	16.31	**$ 790.80**
27NTAP16017MM	**17**	**6" (160mm)**	20.95	3.1704	10.75	0.37	4	27	13.5	18.88	**$ 1,006.80**
27NTAP20017MM	**17**	**8" (200mm)**	34.112	4.7314	12.75	0.46	4.5	30	15	21.38	**$ 1,977.20**
27NTAP25017MM	**17**	**10" (250mm)**	48.729	5.651	14.00	0.58	5	31	15.5	22.5	**$ 2,483.00**
27NTAP31517MM	**17**	**12" (315mm)**	90.762	8.6667	16.00	0.73	6	36	18	26	**$ 4,083.80**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED *EXTENDED* TEE

Range: From ø1″ to ø 12″
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF





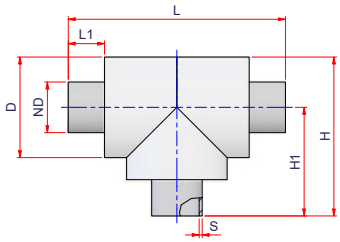
SDR 7.3

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP3273MML	7.3	1″ (32mm)	1.436	0.8051	3.5	0.17	2	26.5	13.25	15	$ 423.50
27NTAP4073MML	7.3	1¼″ (40mm)	3.58	0.8051	3.5	0.22	2	26.5	13.25	15	$ 423.50
27NTAP5073MML	7.3	1½″ (50mm)	5.791	1.2246	4.50	0.27	2.5	28.5	14.25	16.5	$ 423.50
27NTAP6373MML	7.3	2″ (63mm)	6.134	1.2246	4.50	0.34	2.5	28.5	14.25	16.5	$ 478.00
27NTAP7573MML	7.3	2½″ (75mm)	14.539	2.5045	6.62	0.41	3	33	16.5	19.81	$ 574.80
27NTAP9073MML	7.3	3″ (90mm)	17.152	2.5045	6.62	0.48	3	33	16.5	19.81	$ 755.10
27NTAP11073MML	7.3	3½″ (110mm)	28.605	4.2101	8.62	0.59	4	37	18.5	22.81	$ 1,000.70
27NTAP12573MML	7.3	4″ (125mm)	31.872	4.2101	8.62	0.67	4	37	18.5	22.81	$ 1,318.90
27NTAP16073MML	7.3	6″ (160mm)	38.111	6.3144	10.75	0.86	4.5	40	20	25.38	$ 1,677.10
27NTAP20073MML	7.3	8″ (200mm)	58.147	8.844	12.75	1.08	5	43	21.5	27.88	$ 3,291.20
27NTAP25073MML	7.3	10″ (250mm)	71.778	10.7552	14.00	1.35	5.5	45	22.5	29.5	$ 4,144.30
27NTAP31573MML	7.3	12″ (315mm)	108.849	13.7083	16.00	1.70	5	47	23.5	31.5	$ 6,806.30

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED *EXTENDED* TEE

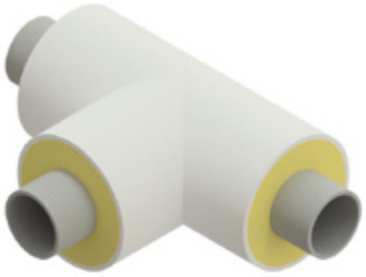
Range: From ø1" to ø12"
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF



SDR 9 - 11

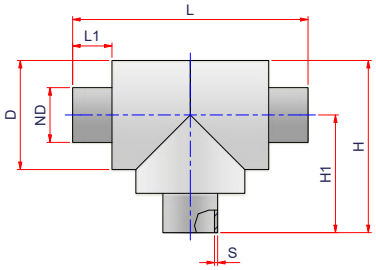
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP329MML	**9**	**1" (32mm)**	3.049	0.8051	3.5	0.14	2	26.5	13.25	15	**$ 349.70**
27NTAP4011MML	**11**	**1¼" (40mm)**	3.283	0.8051	3.5	0.15	2	26.5	13.25	15	**$ 349.70**
27NTAP5011MML	**11**	**1½" (50mm)**	5.301	1.2246	4.5	0.18	2.5	28.5	14.25	16.5	**$ 349.70**
27NTAP6311MML	**11**	**2" (63mm)**	6.151	1.2246	4.5	0.23	2.5	28.5	14.25	16.5	**$ 399.30**
27NTAP7511MML	**11**	**2½" (75mm)**	13.129	2.5045	6.62	0.27	3	33	16.5	19.81	**$ 478.00**
27NTAP9011MML	**11**	**3" (90mm)**	15.185	2.5045	6.62	0.32	3	33	16.5	19.81	**$ 629.20**
27NTAP11011MML	**11**	**3½" (110mm)**	25.249	4.2101	8.62	0.39	4	37	18.5	22.81	**$ 658.90**
27NTAP12511MML	**11**	**4" (125mm)**	28.689	4.2101	8.62	0.45	4	37	18.5	22.81	**$ 878.50**
27NTAP16011MML	**11**	**6" (160mm)**	44.621	6.3144	10.75	0.57	4	40	20	25.38	**$ 1,118.10**
27NTAP20011MML	**11**	**8" (200mm)**	68.967	8.844	12.75	0.72	4.5	43	21.5	27.88	**$ 2,196.20**
27NTAP25011MML	**11**	**10" (250mm)**	88.381	10.338	14	0.89	5	44	22	29	**$ 2,758.80**
27NTAP31511MML	**11**	**12" (315mm)**	136.515	14.7454	16	1.13	6	49	24.5	32.5	**$ 4,537.50**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.



PREINSULATED *EXTENDED* TEE

Range: From ø2" to ø 12"
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF EF X2 BF



SDR 17

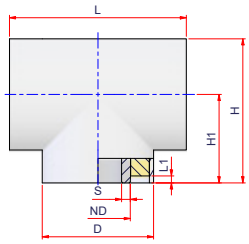
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTAP6317MML	**17**	**2" (63mm)**	5.135	1.2246	4.50	0.15	2.5	28.5	14.25	16.5	**$ 360.60**
27NTAP7517MML	**17**	**2½" (75mm)**	11.431	2.5045	6.62	0.18	3	33	16.5	19.81	**$ 430.80**
27NTAP9017MML	**17**	**3" (90mm)**	12.324	2.5045	6.62	0.21	3	33	16.5	19.81	**$ 565.10**
27NTAP11017MML	**17**	**3½" (110mm)**	20.834	4.2101	8.62	0.26	4	37	18.5	22.81	**$ 743.00**
27NTAP12517MML	**17**	**4" (125mm)**	21.872	4.2101	8.62	0.29	4	37	18.5	22.81	**$ 988.60**
27NTAP16017MML	**17**	**6" (160mm)**	37.997	6.3144	10.75	0.37	4	40	20	25.38	**$ 1,258.40**
27NTAP20017MML	**17**	**8" (200mm)**	63.612	8.844	12.75	0.47	4.5	43	21.5	27.88	**$ 2,471.50**
27NTAP25017MML	**17**	**10" (250mm)**	71.709	10.338	14.00	0.58	5	44	22	29	**$ 3,103.70**
27NTAP31517MML	**17**	**12" (315mm)**	108.353	14.7454	16.00	0.74	6	49	24.5	32.5	**$ 5,103.80**

All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED TEE FOR SIMULTANEOUS BUTT WELDING

Range: From ø2″ to ø 12″
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



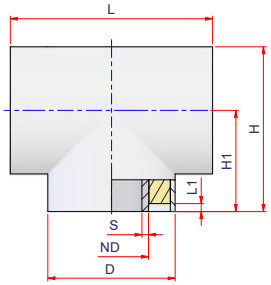
SDR 7.3

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTSP6373MM	**7.3**	**2″ (63mm)**	-	0.2051	4.5	0.34	0.59	10.5	5.25	7.5	**$ 422.30**
27NTSP7573MM	**7.3**	**2½″ (75mm)**	-	0.5431	6.62	0.4	0.59	13.75	7	10.31	**$ 505.80**
27NTSP9073MM	**7.3**	**3″ (90mm)**	-	0.5431	6.62	0.49	0.59	13.75	7	10.31	**$ 664.30**
27NTSP11073MM	**7.3**	**3½″ (110mm)**	-	0.9672	8.62	0.59	0.59	15.75	8	12.31	**$ 868.80**
27NTSP12573MM	**7.3**	**4″ (125mm)**	-	0.9672	8.62	0.67	0.59	15.75	8	12.31	**$ 1,159.20**
27NTSP16073MM	**7.3**	**6″ (160mm)**	-	1.5873	10.75	0.86	0.59	17.75	9	14.38	**$ 1,476.20**
27NTSP20073MM	**7.3**	**8″ (200mm)**	-	2.3862	12.75	1.08	0.59	19.75	10	16.38	**$ 2,904.00**
27NTSP25073MM	**7.3**	**10″ (250mm)**	-	2.9774	14	1.35	0.59	21	10.5	17.5	**$ 3,648.20**
27NTSP31573MM	**7.3**	**12″ (315mm)**	-	4.4444	16	1.7	0.59	24	12	20	**$ 5,989.50**

PREINSULATED TEE FOR SIMULTANEOUS BUTT WELDING

Range: From ø2″ to ø12″
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet

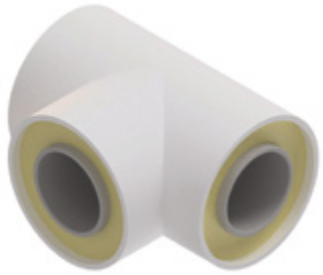


SDR 11

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTSP6311MM	**11**	**2″ (63mm)**	-	0.2051	4.5	0.23	0.59	10.5	5.25	7.5	**$ 351.60**
27NTSP7511MM	**11**	**2½″ (75mm)**	-	0.5431	6.62	0.27	0.59	13.75	7	10.31	**$ 421.30**
27NTSP9011MM	**11**	**3″ (90mm)**	-	0.5431	6.62	0.32	0.59	13.75	7	10.31	**$ 553.00**
27NTSP11011MM	**11**	**3½″ (110mm)**	-	0.9672	8.62	0.39	0.59	15.75	8	12.31	**$ 724.80**
27NTSP12511MM	**11**	**4″ (125mm)**	-	0.9672	8.62	0.45	0.59	15.75	8	12.31	**$ 966.30**
27NTSP16011MM	**11**	**6″ (160mm)**	-	1.5873	10.75	0.57	0.59	17.75	9	14.38	**$ 1,229.40**
27NTSP20011MM	**11**	**8″ (200mm)**	-	2.3862	12.75	0.72	0.59	19.75	10	16.38	**$ 2,415.90**
27NTSP25011MM	**11**	**10″ (250mm)**	-	2.9774	14	0.89	0.59	21	10.5	17.5	**$ 3,034.70**
27NTSP31511MM	**11**	**12″ (315mm)**	-	4.4444	16	1.13	0.59	24	12	20	**$ 4,991.30**

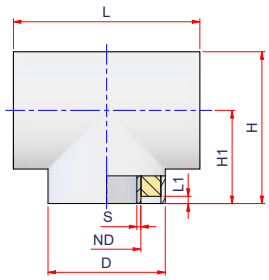
All measures are in inches unless otherwise mentioned.
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED TEE FOR SIMULTANEOUS BUTT WELDING



Range: From ø8″ to ø12″
Fitting structure: 90° Tee - Long Spigot + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:

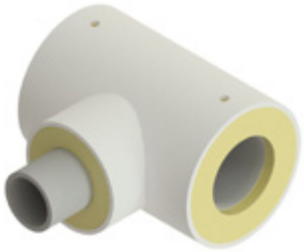
Note: **BFX2** not weldable on pipes shorter than 6 feet



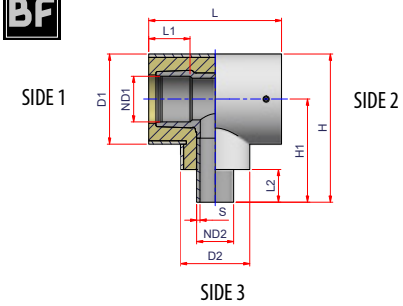
SDR 17

Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	S	L1	L	H1	H	Price Each
27NTSP20017MM	**17**	**8″ (200mm)**	-	2.3862	12.75	0.47	0.59	19.75	10	16.38	**$ 2,174.40**
27NTSP25017MM	**17**	**10″ (250mm)**	-	2.9774	14	0.58	0.59	21	10.5	17.5	**$ 2,731.00**
27NTSP31517MM	**17**	**12″ (315mm)**	-	4.4444	16	0.74	0.59	24	12	20	**$ 4,491.60**

ELECTROFUSION PREINSULATED REDUCING TEE



Range: From ø 3″ x 1″ to ø 6″x 4″
Fitting structure: Electrofusion Reducing Tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system **SIDE 1 - 2:** EF **SIDE 3:** EF BF



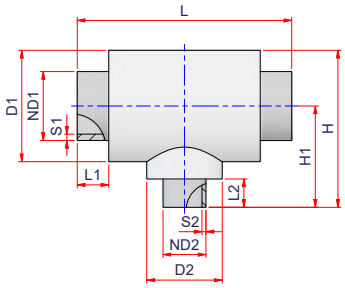
SDR 11

Code	Weldable SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S	L1	L2	L	H1	H	Price Each
27NTERAP9032	11/17	3″x 1″ (90x32mm)	3.353	0.4751	6.62	3.5	0.12	3	2	10.5	8.5	11.81	
27NTERAP9040	11/17	3″x 1¼″ (90X40mm)	-	0.4751	6.62	3.5	0.14	3	2	10.5	8.5	11.81	
27NTERAP9050	11/17	3″x 1½″ (90X50mm)	-	0.4952	6.62	4.5	0.18	3	2.5	10.5	9	12.31	
27NTERAP9063	11/17	3″x 2″ (90X63mm)	-	0.4952	6.62	4.5	0.23	3	2.5	10.5	9	12.31	
27NTERAP9075	11/17	3″x 2½″ (90X75mm)	-	0.5354	6.62	6.62	0.27	3	3	10.5	10	13.31	
27NTERAP1132	11/17	3½″x 1″ (110x32mm)	8.787	0.9102	8.62	3.5	0.14	4	2	12.75	10	14.31	
27NTERAP1140	11/17	3½″x 1¼″ (110X40mm)	-	0.9102	8.62	3.5	0.14	4	2	12.75	10	14.31	
27NTERAP1150	11/17	3½″x 1½″ (110X50mm)	-	0.942	8.62	4.5	0.18	4	2.5	12.75	10.5	14.81	
27NTERAP1163	11/17	3½″x 2″ (110x63mm)	6.984	0.942	8.62	4.5	0.23	4	2.5	12.75	10.5	14.81	$ 658.90
27NTERAP1175	11/17	3½″x 2½″ (110x75mm)	-	0.9738	8.62	6.62	0.27	4	3	12.75	11	15.31	
27NTERAP1190	11/17	3½″x 3″ (110x90mm)	-	0.9738	8.62	6.62	0.32	4	3	12.75	11	15.31	$ 658.90
27NTERAP1232	11/17	4″x 1″ (125x32mm)	-	0.9637	8.62	3.5	0.12	4	2	13.5	10	14.31	
27NTERAP1240	11/17	4″x 1¼″ (125x40mm)	-	0.9637	8.62	3.5	0.14	4	2	13.5	10	14.31	
27NTERAP1250	11/17	4″x 1½″ (125x50mm)	-	0.9974	8.62	4.5	0.18	4	2.5	13.5	10.5	14.81	
27NTERAP1263	11/17	4″x 2″ (125x63mm)	-	0.9974	8.62	4.5	0.23	4	2.5	13.5	10.5	14.81	$ 878.50
27NTERAP1275	11/17	4″x 2½″ (125x75mm)	-	1.031	8.62	6.62	0.27	4	3	13.5	11	15.31	
27NTERAP1290	11/17	4″x 3″ (125x70mm)	8.745	1.031	8.62	6.62	0.32	4	3	13.5	11	15.31	$ 878.50
27NTERAP1211	11/17	4″x 3½″ (125x110mm)	-	1.0984	8.62	8.62	0.39	4	4	13.5	12	16.31	$ 878.50
27NTERAP1632	11/17	6″x 1″ (160x32mm)	14.2	1.3498	10.75	3.5	0.14	4	2	13.25	11	16.375	
27NTERAP1640	11/17	6″x 1¼″ (160x40mm)	13.893	1.3498	10.75	3.5	0.14	4	2	13.25	11	16.375	
27NTERAP1650	11/17	6″x 1½″ (160x50mm)	-	1.391	10.75	4.5	0.18	4	2.5	13.25	11.5	16.875	
27NTERAP1663	11/17	6″x 2″ (160x63mm)	-	1.391	10.75	4.5	0.23	4	2.5	13.25	11.5	16.875	$ 1,118.10
27NTERAP1675	11/17	6″x 2½″ (160x75mm)	-	1.4322	10.75	6.62	0.27	4	3	13.25	12	17.375	
27NTERAP1690	11/17	6″x 3″ (160x70mm)	-	1.4322	10.75	6.62	0.32	4	3	13.25	12	17.375	$ 1,118.10
27NTERAP1611	11/17	6″x 3½″ (160x110mm)	15.794	1.5146	10.75	8.62	0.39	4	4	13.25	13	18.375	$ 1,118.10
27NTERAP1612	11/17	6″x 4″ (160x125mm)	-	1.5146	10.75	8.62	0.45	4	4	13.25	13	18.375	$ 1,118.10

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD REDUCING TEE

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



SDR 7.3

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP40324073MM	7.3	1¼" x 1" (40x32mm)	1.376	0.1367	3.5	3.5	0.22	0.17	2	2	10	5	6.75	$ 335.90
27NTRAP50325073MM	7.3	1½" x 1" (50x32mm)	2.247	0.2767	4.5	3.5	0.27	0.17	2.5	2	12.5	6.25	8.5	$ 335.90
27NTRAP50405073MM	7.3	1½" x 1¼" (50x40mm)	2.427	0.2767	4.5	3.5	0.27	0.22	2.5	2	12.5	6.25	8.5	$ 335.90
27NTRAP63326373MM	7.3	2" x 1" (63x32mm)	2.679	0.2767	4.5	3.5	0.34	0.17	2.5	2	12.5	6.25	8.5	$ 383.60
27NTRAP63406373MM	7.3	2" x 1¼" (63x40mm)	2.432	0.2767	4.5	3.5	0.34	0.22	2.5	2	12.5	6.25	8.5	$ 383.60
27NTRAP63506373MM	7.3	2" x 1½" (63x50mm)	3.053	0.2767	4.5	4.5	0.34	0.27	2.5	2.5	12.5	6.25	8.5	$ 383.60
27NTRAP75327573MM	7.3	2½" x 1" (75x32mm)	5.216	0.6933	6.62	3.5	0.41	0.17	3	2	16	8	11.31	$ 459.80
27NTRAP75407573MM	7.3	2½" x 1¼" (75x40mm)	5.741	0.6933	6.62	3.5	0.41	0.22	3	2	16	8	11.31	$ 459.80
27NTRAP75507573MM	7.3	2½" x 1½" (75x50mm)	5.939	0.6933	6.62	4.5	0.41	0.27	3	2.5	16	8	11.31	$ 459.80
27NTRAP75637573MM	7.3	2½" x 2" (75x63mm)	5.536	0.6933	6.62	4.5	0.41	0.34	3	2.5	16	8	11.31	$ 459.80
27NTRAP90639073MM	7.3	3" x 2" (90x63mm)	7.322	0.6933	6.62	4.5	0.48	0.34	3	2.5	16	8	11.31	$ 603.80
27NTRAP90759073MM	7.3	3" x 2½" (90x75mm)	7.851	0.6933	6.62	6.62	0.48	0.41	3	3	16	8	11.31	$ 603.80
27NTRAP1106311073MM	7.3	3½" x 2" (110x63mm)	13.386	1.5515	8.62	4.5	0.59	0.34	4	2.5	21	10.5	14.81	$ 790.80
27NTRAP1107511073MM	7.3	3½" x 2½" (110x75mm)	14.041	1.5515	8.62	6.62	0.59	0.41	4	3	21	10.5	14.81	$ 790.80
27NTRAP1109011073MM	7.3	3½" x 3" (110x90mm)	14.429	1.5515	8.62	6.62	0.59	0.48	4	3	21	10.5	14.81	$ 790.80
27NTRAP1257512573MM	7.3	4" x 2½" (125x75mm)	16.319	1.5515	8.62	6.62	0.67	0.41	4	3	21	10.5	14.81	$ 1054.60
27NTRAP1259012573MM	7.3	4" x 3" (125x90mm)	16.607	1.5515	8.62	6.62	0.67	0.48	4	3	21	10.5	14.81	$ 1,054.60
27NTRAP12511012573MM	7.3	4" x 3½" (125x110mm)	17.802	1.5515	8.62	8.62	0.67	0.59	4	4	21	10.5	14.81	$ 1054.60
27NTRAP1606316073MM	7.3	6" x 2" (160x63mm)	22.692	2.5942	10.75	4.5	0.86	0.34	4.5	2.5	24	12	17.375	$ 1,341.90
27NTRAP1607516073MM	7.3	6" x 2½" (160x75mm)	23.671	2.5942	10.75	6.62	0.86	0.41	4.5	3	24	12	17.375	$ 1,341.90

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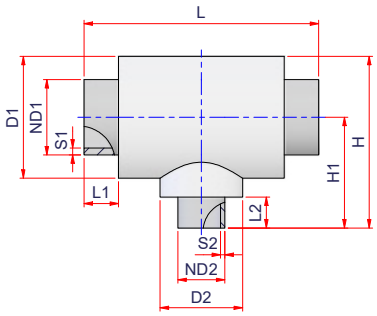
PREINSULATED STANDARD REDUCING TEE

Range: From ø1¼" x1" to ø 12"x10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



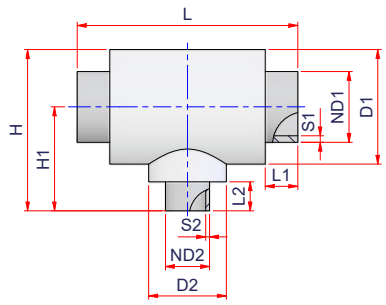
SDR 7.3

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP1609016073MM	7.3	6" x 3" (160x90mm)	24.284	2.5942	10.75	6.62	0.86	0.48	4.5	3	24	12	17.375	$ 1,341.90
27NTRAP16011016073MM	7.3	6" x 3½" (160x110mm)	25.212	2.5942	10.75	8.62	0.86	0.59	4.5	4	24	12	17.375	$ 1,341.90
27NTRAP16012516073MM	7.3	6" x 4" (160x125mm)	25.860	2.5942	10.75	8.62	0.86	0.67	4.5	4	24	12	17.375	$ 1,341.90
27NTRAP2006320073MM	7.3	8" x 2" (200x63mm)	37.805	4.3598	12.75	4.5	1.08	0.34	5	2.5	29	14	20.375	$ 2,631.80
27NTRAP2007520073MM	7.3	8" x 2½" (200x75mm)	38.407	4.3598	12.75	6.62	1.08	0.41	5	3	29	14	20.375	$ 2,631.80
27NTRAP2009020073MM	7.3	8" x 3" (200x90mm)	39.278	4.3598	12.75	6.62	1.08	0.48	5	3	29	14	20.375	$ 2,631.80
27NTRAP20011020073MM	7.3	8" x 3½" (200x110mm)	41.511	4.3598	12.75	8.62	1.08	0.59	5	4	29	14	20.375	$ 2,631.80
27NTRAP20012520073MM	7.3	8" x 4" (200x125mm)	42.188	4.3598	12.75	8.62	1.08	0.67	5	4	29	14	20.375	$ 2,631.80
27NTRAP20016020073MM	7.3	8" x 6" (200x160mm)	48.782	4.3598	12.75	10.75	1.08	0.86	5	4.5	29	14	20.375	$ 2,631.80
27NTRAP2509025073MM	7.3	10" x 3" (250x90mm)	61.006	6.122	14	6.62	1.35	0.48	5.5	3	32.5	16.25	23.25	$ 3,315.40
27NTRAP25011025073MM	7.3	10" x 3½" (250x110mm)	63.449	6.122	14	8.62	1.35	0.59	5.5	4	32.5	16.25	23.25	$ 3,315.40
27NTRAP25012525073MM	7.3	10" x 4" (250x125mm)	64.223	6.122	14	8.62	1.35	0.67	5.5	4	32.5	16.25	23.25	$ 3,315.40
27NTRAP25016025073MM	7.3	10" x 6" (250x160mm)	65.92	6.122	14	10.75	1.35	0.86	5.5	4.5	32.5	16.25	23.25	$ 3,315.40
27NTRAP25020025073MM	7.3	10" x 8" (250x200mm)	70.484	6.122	14	12.75	1.35	1.08	5.5	5	32.5	16.25	23.25	$ 3,315.40
27NTRAP3159031573MM	7.3	12" x 3" (315x90mm)	71.434	6.15	16	6.62	1.7	0.48	5	3	27.56	16.1	24.1	$ 5,445.00
27NTRAP31516031573MM	7.3	12" x 6" (315x160mm)	77.367	6.6067	16	10.75	1.7	0.86	5	4.5	27.56	17.89	25.89	$ 5,445.00
27NTRAP31520031573MM	7.3	12" x 8" (315x200mm)	118.953	10.3704	16	12.75	1.7	1.08	5	5	40	20	28	$ 5,445.00
27NTRAP31525031573MM	7.3	12" x 10" (315x250mm)	124.019	10.3704	16	14	1.7	1.35	5	5.5	40	20	28	$ 5,445.00

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD REDUCING TEE

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



SDR 11

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP40324011MM	11	1¼" x 1" (40x32mm)	1.281	0.1367	3.5	3.5	0.14	0.11	2	2	10	5	6.75	$ 279.60
27NTRAP50325011MM	11	1½" x 1" (50x32mm)	2.086	0.2767	4.5	3.5	0.18	0.11	2.5	2	12.5	6.25	8.5	$ 279.60
27NTRAP63326311MM	11	2" x 1" (63x32mm)	2.438	0.2767	4.5	3.5	0.23	0.11	2.5	2	12.5	6.25	8.5	$ 319.50
27NTRAP63406311MM	11	2" x 1¼" (63x40mm)	2.431	0.2767	4.5	3.5	0.23	0.14	2.5	2	12.5	6.25	8.5	$ 319.50
27NTRAP63506311MM	11	2" x 1½" (63x50mm)	2.762	0.2767	4.5	4.5	0.23	0.18	2.5	2.5	12.5	6.25	8.5	$ 319.50
27NTRAP75327511MM	11	2½" x 1" (75x32mm)	5.229	0.6933	6.62	3.5	0.27	0.11	3	2	16	8	11.31	$ 383.10
27NTRAP75407511MM	11	2½" x 1¼" (75x40mm)	5.289	0.6933	6.62	3.5	0.27	0.14	3	2	16	8	11.31	$ 383.10
27NTRAP75507511MM	11	2½" x 1½" (75x50mm)	5.428	0.6933	6.62	4.5	0.27	0.18	3	2.5	16	8	11.31	$ 383.10
27NTRAP75637511MM	11	2½" x 2" (75x63mm)	5.533	0.6933	6.62	4.5	0.27	0.23	3	2.5	16	8	11.31	$ 383.10
27NTRAP90639011MM	11	3" x 2" (90x63mm)	6.576	0.6933	6.62	4.5	0.32	0.23	3	2.5	16	8	11.31	$ 502.90
27NTRAP90759011MM	11	3" x 2½" (90x75mm)	7.092	0.6933	6.62	6.62	0.32	0.27	3	3	16	8	11.31	$ 502.90
27NTRAP1106311011MM	11	3½" x 2" (110x63mm)	12.068	1.5515	8.62	4.5	0.39	0.23	4	2.5	21	10.5	14.81	$ 658.90
27NTRAP1107511011MM	11	3½" x 2½" (110x75mm)	12.639	1.5515	8.62	6.62	0.39	0.27	4	3	21	10.5	14.81	$ 658.90
27NTRAP1109011011MM	11	3½" x 3" (110x90mm)	12.914	1.5515	8.62	6.62	0.39	0.32	4	3	21	10.5	14.81	$ 658.90
27NTRAP1257512511MM	11	4" x 2½" (125x75mm)	14.691	1.5515	8.62	6.62	0.45	0.27	4	3	21	10.5	14.81	$ 878.50
27NTRAP1259012511MM	11	4" x 3" (125x90mm)	15.022	1.5515	8.62	6.62	0.45	0.32	4	3	21	10.5	14.81	$ 878.50
27NTRAP12511012511MM	11	4" x 3½" (125x110mm)	15.794	1.5515	8.62	8.62	0.45	0.39	4	4	21	10.5	14.81	$ 878.50
27NTRAP1606316011MM	11	6" x 2" (160x63mm)	20.102	2.5942	10.75	4.5	0.57	0.23	4	2.5	24	12	17.375	$ 1,118.10
27NTRAP1607516011MM	11	6" x 2½" (160x75mm)	20.529	2.5942	10.75	6.62	0.57	0.27	4	3	24	12	17.375	$ 1,118.10
27NTRAP1609016011MM	11	6" x 3" (160x90mm)	20.829	2.5942	10.75	6.62	0.57	0.32	4	3	24	12	17.375	$ 1,118.10

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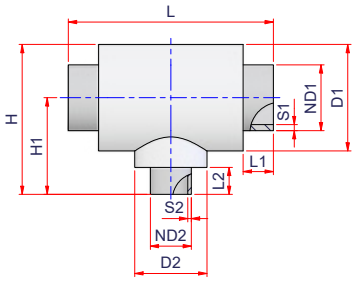
PREINSULATED STANDARD REDUCING TEE

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



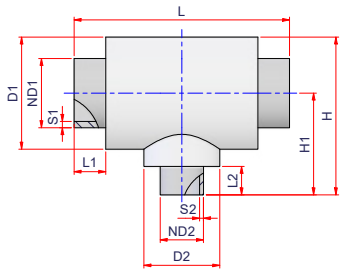
SDR 11

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP16011016011MM	11	6" x 3½" (160x110mm)	21.616	2.5942	10.75	8.62	0.57	0.39	4	4	24	12	17.375	$ 1,118.10
27NTRAP16012516011MM	11	6" x 4" (160x125mm)	21.976	2.5942	10.75	8.62	0.57	0.45	4	4	24	12	17.375	$ 1,118.10
27NTRAP2006320011MM	11	8" x 2" (200x63mm)	33.788	4.2094	12.75	4.5	0.72	0.23	4.5	2.5	28	14	20.375	$ 2,196.20
27NTRAP2007520011MM	11	8" x 2½" (200x75mm)	34.412	4.2094	12.75	6.62	0.72	0.27	4.5	3	28	14	20.375	$ 2,196.20
27NTRAP2009020011MM	11	8" x 3" (200x90mm)	34.676	4.2094	12.75	6.62	0.72	0.32	4.5	3	28	14	20.375	$ 2,196.20
27NTRAP20011020011MM	11	8" x 3½" (200x110mm)	35.633	4.2094	12.75	8.62	0.72	0.39	4.5	4	28	14	20.375	$ 2,196.20
27NTRAP20012520011MM	11	8" x 4" (200x125mm)	35.96	4.2094	12.75	8.62	0.72	0.45	4.5	4	28	14	20.375	$ 2,196.20
27NTRAP20016020011MM	11	8" x 3" (200x160mm)	38.118	4.2094	12.75	10.75	0.72	0.57	4.5	4	28	14	20.375	$ 2,196.20
27NTRAP2509025011MM	11	10" x 3" (250x90mm)	51.839	6.122	14	6.62	0.89	0.32	5	3	32.5	16.25	23.25	$ 2,758.80
27NTRAP25011025011MM	11	10" x 3½" (250x110mm)	52.986	6.122	14	8.62	0.89	0.39	5	4	32.5	16.25	23.25	$ 2,758.80
27NTRAP25012525011MM	11	10" x 4" (250x125mm)	53.405	6.122	14	8.62	0.89	0.45	5	4	32.5	16.25	23.25	$ 2,758.80
27NTRAP25016025011MM	11	10" x 6" (250x160mm)	55.781	6.122	14	10.75	0.89	0.57	5	4	32.5	16.25	23.25	$ 2,758.80
27NTRAP25020025011MM	11	10" x 8" (250x200mm)	58.44	6.122	14	12.75	0.89	0.72	5	4.5	32.5	16.25	23.25	$ 2,758.80
27NTRAP31520031511MM	11	12" x 8" (315x200mm)	91.675	10.3704	16	12.75	1.13	0.72	6	4.5	40	20	28	$ 4,537.50
27NTRAP31525031511MM	11	12" x 10" (315x250mm)	97.12	10.3704	16	14.00	1.13	0.89	6	5	40	20	28	$ 4,537.50

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED STANDARD REDUCING TEE

Range: From ø3″ x 2″ to ø12″ x 10″
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



SDR 17

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP90639017MM	17	3″ x 2″ (90x63mm)	5.017	0.6933	6.62	4.5	0.21	0.15	3	2.5	16	8	11.31	$ 452.60
27NTRAP90759017MM	17	3″ x 2½″ (90x75mm)	5.366	0.6933	6.62	6.62	0.21	0.17	3	3	16	8	11.31	$ 452.60
27NTRAP1106311017MM	17	3½″ x 2″ (110x63mm)	9.508	1.5515	8.62	4.5	0.25	0.15	4	2.5	21	10.5	14.81	$ 592.90
27NTRAP1107511017MM	17	3½″ x 2½″ (110x75mm)	10.017	1.5515	8.62	6.62	0.25	0.17	4	3	21	10.5	14.81	$ 592.90
27NTRAP1109011017MM	17	3½″ x 3″ (110x90mm)	10.181	1.5515	8.62	6.62	0.25	0.21	4	3	21	10.5	14.81	$ 592.90
27NTRAP1257512517MM	17	5″ x 2½″ (125x75mm)	10.362	1.5515	8.62	6.62	0.29	0.17	4	3	21	10.5	14.81	$ 790.80
27NTRAP1259012517MM	17	5″ x 3″ (125x90mm)	10.478	1.5515	8.62	6.62	0.29	0.21	4	3	21	10.5	14.81	$ 790.80
27NTRAP12511012517MM	17	5″ x 3½″ (125x110mm)	10.948	1.5515	8.62	8.62	0.29	0.25	4	4	21	10.5	14.81	$ 790.80
27NTRAP1606316017MM	17	6″ x 2″ (160x63mm)	16.967	2.5942	10.75	4.5	0.37	0.15	4	2.5	24	12	17.38	$ 1,006.80
27NTRAP1607516017MM	17	6″ x 2½″ (160x75mm)	17.377	2.5942	10.75	6.62	0.37	0.17	4	3	24	12	17.38	$ 1,006.80
27NTRAP1609016017MM	17	6″ x 3″ (160x90mm)	17.553	2.5942	10.75	6.62	0.37	0.21	4	3	24	12	17.38	$ 1,006.80
27NTRAP16011016017MM	17	6″ x 3½″ (160x110mm)	18.171	2.5942	10.75	8.62	0.37	0.25	4	4	24	12	17.38	$ 1,006.80
27NTRAP16012516017MM	17	6″ x 4″ (160x125mm)	18.362	2.5942	10.75	8.62	0.37	0.29	4	4	24	12	17.38	$ 1,006.80
27NTRAP2006320017MM	17	8″ x 2″ (200x63mm)	28.058	4.2094	12.75	4.5	0.46	0.15	4.5	2.5	28	14	20.38	$ 1,976.60
27NTRAP2007520017MM	17	8″ x 2½″ (200x75mm)	28.720	4.2094	12.75	6.62	0.46	0.17	4.5	3	28	14	20.38	$ 1,976.60
27NTRAP2009020017MM	17	8″ x 3″ (200x90mm)	28.660	4.2094	12.75	6.62	0.46	0.21	4.5	3	28	14	20.38	$ 1,976.60
27NTRAP20011020017MM	17	8″ x 3½″ (200x110mm)	29.637	4.2094	12.75	8.62	0.46	0.25	4.5	4	28	14	20.38	$ 1,976.60
27NTRAP20012520017MM	17	8″ x 4″ (200x125mm)	29.811	4.2094	12.75	8.62	0.46	0.29	4.5	4	28	14	20.38	$ 1,976.60
27NTRAP20016020017MM	17	8″ x 3″ (200x160mm)	31.361	4.2094	12.75	10.75	0.46	0.37	4.5	4	28	14	20.38	$ 1,976.60
27NTRAP2509025017MM	17	10″ x 3″ (250x90mm)	41.059	6.122	14	6.62	0.58	0.21	5	3	32.5	16.25	23.25	$ 2,483.00

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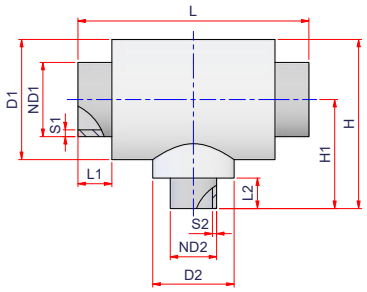
PREINSULATED STANDARD REDUCING TEE

Range: From ø3″ x 2″ to ø12″ x 10″
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF BF



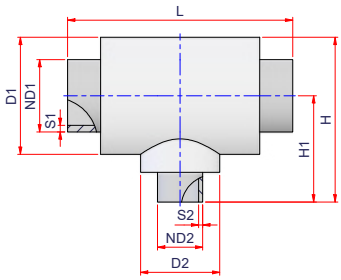
SDR 17

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP25011025017MM	**17**	**10″ x 3½″ (250x110mm)**	41.903	6.122	14	8.62	0.58	0.25	5	4	32.5	16.25	23.25	**$ 2,483.00**
27NTRAP25012525017MM	**17**	**10″ x 4″ (250x125mm)**	46.725	6.122	14	8.62	0.58	0.29	5	4	32.5	16.25	23.25	**$ 2,483.00**
27NTRAP25016025017MM	**17**	**10″ x 6″ (250x160mm)**	44.443	6.122	14	10.75	0.58	0.37	5	4	32.5	16.25	23.25	**$ 2,483.00**
27NTRAP25020025017MM	**17**	**10″ x 8″ (250x200mm)**	46.464	6.122	14	12.75	0.58	0.46	5	4.5	32.5	16.25	23.25	**$ 2,483.00**
27NTRAP31520031517MM	**17**	**12″ x 8″ (315x200mm)**	73.784	10.3704	16	12.75	0.73	0.46	6	4.5	40	20	28	**$ 4,083.80**
27NTRAP31525031517MM	**17**	**12″ x 10″ (315x250mm)**	78.107	10.3704	16	14	0.73	0.58	6	5	40	20	28	**$ 4,083.80**

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF | EF X2 | BF



SDR 7.3

Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP40324073MML	7.3	1¼" x 1" (40x32mm)	4.826	0.5924	3.5	3.5	0.22	0.17	2	2	22.5	11.25	13	$ 419.70
27NTRAP50325073MML	7.3	1½" x 1" (50x32mm)	6.797	0.9603	4.5	3.5	0.27	0.17	2.5	2	25	12.5	14.75	$ 419.70
27NTRAP50405073MML	7.3	1½" x 1¼" (50x40mm)	6.927	0.9603	4.5	3,5	0.27	0.22	2.5	2	25	12.5	14.75	$ 419.70
27NTRAP63326373MML	7.3	2" x 1" (63x32mm)	7.129	0.9603	4.5	3.5	0.34	0.17	2.5	2	25	12.5	14.75	$ 479.90
27NTRAP63406373MML	7.3	2" x 1¼" (63x40mm)	6.832	0.9603	4.5	3.5	0.34	0.22	2.5	2	25	12.5	14.75	$ 479.90
27NTRAP63506373MML	7.3	2" x 1½" (63x50mm)	12.703	0.9603	4.5	4.5	0.34	0.27	2.5	2.5	25	12.5	14.75	$ 479.90
27NTRAP75327573MML	7.3	2½" x 1" (75x32mm)	18.536	2.3673	6.62	3.5	0.4	0.17	3	2	32	16	19.31	$ 574.80
27NTRAP75407573MML	7.3	2½" x 1¼" (75x40mm)	18.971	2.3673	6.62	3.5	0.4	0.22	3	2	32	16	19.31	$ 574.80
27NTRAP75507573MML	7.3	2½" x 1½" (75x50mm)	20.439	2.3673	6.62	4.5	0.4	0.27	3	2.5	32	16	19.31	$ 574.80
27NTRAP75637573MML	7.3	2½" x 2" (75x63mm)	20.536	2.3673	6.62	4.5	0.4	0.34	3	2.5	32	16	19.31	$ 574.80
27NTRAP90639073MML	7.3	3" x 2" (90x63mm)	22.322	2.3673	6.62	4.5	0.49	0.34	3	2.5	32	16	19.31	$ 754.90
27NTRAP90759073MML	7.3	3" x 2½" (90x75mm)	25.851	2.3673	6.62	6.62	0.49	0.4	3	3	32	16	19.31	$ 754.90
27NTRAP1106311073MML	7.3	3½" x 2" (110x63mm)	29.186	4.0065	8.62	4.5	0.59	0.34	4	2.5	36	18	22.31	$ 988.50
27NTRAP1107511073MML	7.3	3½" x 2½" (110x75mm)	34.541	4.0065	8.62	6.62	0.59	0.4	4	3	36	18	22.31	$ 988.50
27NTRAP1109011073MML	7.3	3½" x 3" (110x90mm)	34.929	4.0065	8.62	6.62	0.59	0.49	4	3	36	18	22.31	$ 988.50
27NTRAP1257512573MML	7.3	4" x 2½" (125x75mm)	36.319	4.0065	8.62	6.62	0.67	0.4	4	3	36	18	22.31	$ 1,318.90
27NTRAP1259012573MML	7.3	4" x 3" (125x90mm)	36.607	4.0065	8.62	6.62	0.67	0.49	4	3	36	18	22.31	$ 1,318.90
27NTRAP12511012573MML	7.3	4" x 3½" (125x110mm)	38.102	4.0065	8.62	8.62	0.67	0.59	4	4	36	18	22.31	$ 1,318.90
27NTRAP1606316073MML	7.3	6" x 2" (160x63mm)	44.242	6.3144	10.75	4.50	0.86	0.34	4.5	2.5	40	20	25.38	$ 1,677.80
27NTRAP1607516073MML	7.3	6" x 2½" (160x75mm)	50.757	6.3144	10.75	6.62	0.86	0.4	4.5	3	40	20	25.38	$ 1,677.80

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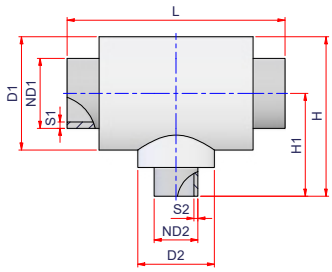
PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF EF X2 BF



SDR 7.3

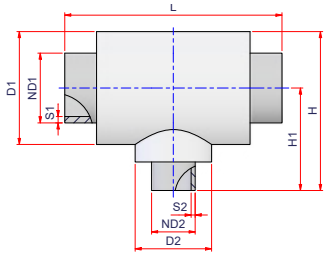
Code	SDR	Ø ND1 X ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP1609016073MML	7.3	6" x 3" (160x90mm)	53.862	6.3144	10.75	6.62	0.86	0.49	4.5	3	40	20	25.38	$ 1,677.80
27NTRAP16011016073MML	7.3	6" x 3½" (160x110mm)	57.180	6.3144	10.75	8.62	0.86	0.59	4.5	4	40	20	25.38	$ 1,677.80
27NTRAP16012516073MML	7.3	6" x 4" (160x125mm)	67.305	6.3144	10.75	8.62	0.86	0.67	4.5	4	40	20	25.38	$ 1,677.80
27NTRAP2006320073MML	7.3	8" x 2" (200x63mm)	72.768	9.2120	12.75	4.50	1.08	0.34	5	2.5	44	22	28.38	$ 3,289.70
27NTRAP2009020073MML	7.3	8" x 3" (200x90mm)	74.941	9.2120	12.75	6.62	1.08	0.49	5	3	44	22	28.38	$ 3,289.70
27NTRAP20011020073MML	7.3	8" x 3½" (200x110mm)	81.098	9.2120	12.75	8.62	1.08	0.59	5	4	44	22	28.38	$ 3,289.70
27NTRAP20012520073MML	7.3	8" x 4" (200x125mm)	87.122	9.2120	12.75	8.62	1.08	0.67	5	4	44	22	28.38	$ 3,289.70
27NTRAP20016020073MML	7.3	8" x 3" (200x160mm)	94.676	9.2120	12.75	10.75	1.08	0.86	5	4.5	44	22	28.38	$ 3,289.70
27NTRAP2509025073MML	7.3	10" x 3" (250x90mm)	92.849	10.3380	14	6.62	1.35	0.49	5.5	3	44	22	29	$ 4,144.30
27NTRAP2511025073MML	7.3	10" x 3½" (250x110mm)	95.653	10.3380	14	8.62	1.35	0.59	5	4	44	22	29	$ 3,767.50
27NTRAP25012525073MML	7.3	10" x 4" (250x125mm)	97.370	10.3380	14	8.62	1.35	0.67	5.5	4	44	22	29	$ 4,144.30
27NTRAP25016025073MML	7.3	10" x 6" (250x160mm)	106.404	10.3380	14	10.75	1.35	0.86	5.5	4.5	44	22	29	$ 4,144.30
27NTRAP25020025073MML	7.3	10" x 8" (250x200mm)	118.587	10.3380	14	12.75	1.35	1.08	5.5	5	44	22	29	$ 4,144.30
27NTRAP31520031573MML	7.3	12" x 8" (315x200mm)	149.573	14.2222	16	12.75	1.70	1.08	5	5	48	24	32	$ 6,806.30
27NTRAP31525031573MML	7.3	12" x 10" (315x250mm)	156.159	14.2222	16	14.00	1.70	1.35	5	5	48	24	32	$ 6,806.30

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

SP

PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø 1¼" x 1" to ø12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF EF X2 BF



SDR 11

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP40324011MML	11	1¼" x 1" (40x32mm)	4.62	0.5924	3.5	3.5	0.14	0.11	2	2	22.5	11.25	13	$ 349.70
27NTRAP50325011MML	11	1½" x 1" (50x32mm)	6.48	0.9603	4.5	3.5	0.18	0.11	2.5	2	25	12.5	14.75	$ 349.70
27NTRAP50405011MML	11	1½" x 1¼" (50x40mm)	6.604	0.9603	4.5	3.5	0.18	0.14	2.5	2	25	12.5	14.75	$ 349.70
27NTRAP63326311MML	11	2" x 1" (63x32mm)	6.62	0.9603	4.5	3.5	0.23	0.11	2.5	2	25	12.5	14.75	$ 399.30
27NTRAP63406311MML	11	2" x 1¼" (63x40mm)	6.82	0.9603	4.5	3.5	0.23	0.14	2.5	2	25	12.5	14.75	$ 399.30
27NTRAP63506311MML	11	2" x 1½" (63x50mm)	8.17	0.9603	4.5	4.5	0.23	0.18	2.5	2.5	25	12.5	14.75	$ 399.30
27NTRAP75327511MML	11	2½" x 1" (75x32mm)	15.2	2.3673	6.62	3.5	0.27	0.11	3	2	32	16	19.31	$ 478.70
27NTRAP75407511MML	11	2½" x 1¼" (75x40mm)	15.45	2.3673	6.62	3.5	0.27	0.14	3	2	32	16	19.31	$ 478.70
27NTRAP75507511MML	11	2½" x 1½" (75x50mm)	16.69	2.3673	6.62	4.5	0.27	0.18	3	2.5	32	16	19.31	$ 478.70
27NTRAP75637511MML	11	2½" x 2" (75x63mm)	16.89	2.3673	6.62	4.5	0.27	0.23	3	2.5	32	16	19.31	$ 478.70
27NTRAP90639011MML	11	3" x 2" (90x63mm)	17.01	2.3673	6.62	4.5	0.32	0.23	3	2.5	32	16	19.31	$ 629.20
27NTRAP90759011MML	11	3" x 2½" (90x75mm)	21.93	2.3673	6.62	6.62	0.32	0.27	3	3	32	16	19.31	$ 629.20
27NTRAP1106311011MML	11	3½" x 2" (110x63mm)	28.07	4.0065	8.62	4.5	0.39	0.23	4	2.5	36	18	22.31	$ 823.60
27NTRAP1107511011MML	11	3½" x 2½" (110x75mm)	33.14	4.0065	8.62	6.62	0.39	0.27	4	3	36	18	22.31	$ 823.60
27NTRAP1109011011MML	11	3½" x 3" (110x90mm)	33.91	4.0065	8.62	6.62	0.39	0.32	4	3	36	18	22.31	$ 823.60
27NTRAP1257512511MML	11	4" x 2½" (125x75mm)	34.69	4.0065	8.62	6.62	0.45	0.27	4	3	36	18	22.31	$ 1098.20
27NTRAP1259012511MML	11	4" x 3" (125x90mm)	34.92	4.0065	8.62	6.62	0.45	0.32	4	3	36	18	22.31	$ 1098.20
27NTRAP12511012511MML	11	4" x 3½" (125x110mm)	40.29	4.0065	8.62	8.62	0.45	0.39	4	4	36	18	22.31	$ 1,098.20
27NTRAP1606316011MML	11	6" x 2" (160x63mm)	41.25	6.3144	10.75	4.50	0.57	0.23	4	2.5	40	20	25.38	$ 1,397.60
27NTRAP1607516011MML	11	6" x 2½" (160x75mm)	46.08	6.3144	10.75	6.62	0.57	0.27	4	3	40	20	25.38	$ 1,397.60

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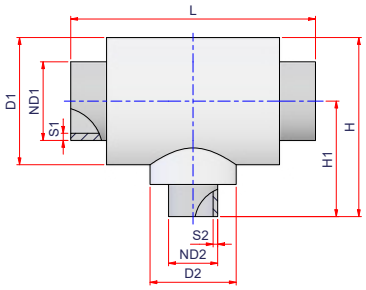
PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø 1¼" x 1" to ø12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF | EF X2 | BF



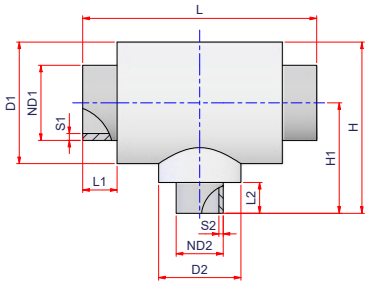
SDR 11

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP1609016011MML	11	6" x 3" (160x90mm)	46.88	6.3144	10.75	6.62	0.57	0.32	4	3	40	20	25.38	$ 1,397.60
27NTRAP16011016011MML	11	6" x 3½" (160x110mm)	51.86	6.3144	10.75	8.62	0.57	0.39	4	4	40	20	25.38	$ 1,397.60
27NTRAP16012516011MML	11	6" x 4" (160x125mm)	52.53	6.3144	10.75	8.62	0.57	0.45	4	4	40	20	25.38	$ 1,397.60
27NTRAP2006320011MML	11	8" x 2" (200x63mm)	61.39	9.212	12.75	4.50	0.72	0.23	4.5	2.5	44	22	28.38	$ 2,744.30
27NTRAP2009020011MML	11	8" x 3" (200x90mm)	66.2	9.212	12.75	6.62	0.72	0.32	4.5	3	44	22	28.38	$ 2,744.30
27NTRAP20011020011MML	11	8" x 3½" (200x110mm)	72.34	9.212	12.75	8.62	0.72	0.39	4.5	4	44	22	28.38	$ 2,744.30
27NTRAP20012520011MML	11	8" x 4" (200x125mm)	72.96	9.212	12.75	8.62	0.72	0.45	4.5	4	44	22	28.38	$ 2,744.30
27NTRAP20016020011MML	11	8" x 3" (200x160mm)	73.27	9.212	12.75	10.75	0.72	0.57	4.5	4	44	22	28.38	$ 2,744.30
27NTRAP2509025011MML	11	10" x 3" (250x90mm)	73.34	10.338	14	6.62	0.89	0.32	5	3	44	22	29	$ 3,448.50
27NTRAP25011025011MML	11	10" x 3½" (250x110mm)	77.98	10.338	14	8.62	0.89	0.39	5	4	44	22	29	$ 3,448.50
27NTRAP25012525011MML	11	10" x 4" (250x125mm)	78.41	10.338	14	8.62	0.89	0.45	5	4	44	22	29	$ 3,448.50
27NTRAP25016025011MML	11	10" x 6" (250x160mm)	84.28	10.338	14	10.75	0.89	0.57	5	4	44	22	29	$ 3,448.50
27NTRAP25020025011MML	11	10" x 8" (250x200mm)	89.94	10.338	14	12.75	0.89	0.72	5	4.5	44	22	29	$ 3,448.50
27NTRAP31520031511MML	11	12" x 8" (315x200mm)	119.12	14.2222	16	12.75	1.13	0.72	6	4.5	48	24	32	$ 5,672.00
27NTRAP31525031511MML	11	12" x 10" (315x250mm)	125.52	14.2222	16	14.00	1.13	0.89	6	5	48	24	32	$ 5,672.00

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø3″ x 2″ to ø12″ x 10″
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF | EF X2 | BF



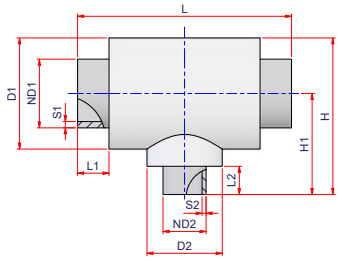
SDR 17

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP90639017MML	17	3″x 2″ (90x63mm)	15.047	2.3673	6.62	4.5	0.21	0.15	3	2.5	32	16	19.31	$ 565.80
27NTRAP90759017MML	17	3″x 2½″ (90x75mm)	19.746	2.3673	6.62	6.62	0.21	0.17	3	3	32	16	19.31	$ 565.80
27NTRAP1106311017MML	17	3½″ x 2″ (110x63mm)	24.008	4.0065	8.62	4.5	0.25	0.15	4	2.5	36	18	22.31	$ 741.20
27NTRAP1107511017MML	17	3½″ x 2½″ (110x75mm)	28.517	4.0065	8.62	6.62	0.25	0.17	4	3	36	18	22.31	$ 741.20
27NTRAP1109011017MML	17	3½″ x 3″ (110x90mm)	28.881	4.0065	8.62	6.62	0.25	0.21	4	3	36	18	22.31	$ 741.20
27NTRAP1257512517MML	17	4″ x 2½″ (125x75mm)	29.162	4.0065	8.62	6.62	0.29	0.17	4	3	36	18	22.31	$ 988.50
27NTRAP1259012517MML	17	4″ x 3″ (125x90mm)	30.748	4.0065	8.62	6.62	0.29	0.21	4	3	36	18	22.31	$ 988.50
27NTRAP12511012517MML	17	4″ x 3½″ (125x110mm)	33.248	4.0065	8.62	8.62	0.29	0.25	4	4	36	18	22.31	$ 988.50
27NTRAP1606316017MML	17	6″ x 2″ (160x63mm)	37.067	6.3144	10.75	4.5	0.37	0.15	4	2.5	40	20	25.38	$ 1,258.40
27NTRAP1607516017MML	17	6″ x 2½″ (160x75mm)	41.827	6.3144	10.75	6.62	0.37	0.17	4	3	40	20	25.38	$ 1,258.40
27NTRAP1609016017MML	17	6″ x 3″ (160x90mm)	42.403	6.3144	10.75	6.62	0.37	0.21	4	3	40	20	25.38	$ 1,258.40
27NTRAP16011016017MML	17	6″ x 3½″ (160x110mm)	46.921	6.3144	10.75	8.62	0.37	0.25	4	4	40	20	25.38	$ 1,258.40
27NTRAP16012516017MML	17	6″ x 4″ (160x125mm)	47.322	6.3144	10.75	8.62	0.37	0.29	4	4	40	20	25.38	$ 1,258.40
27NTRAP2006320017MML	17	8″ x 2″ (200x63mm)	54.068	9.212	12.75	4.5	0.46	0.15	4.5	2.5	44	22	28.38	$ 2,470.60
27NTRAP2007520017MML	17	8″ x 2½″ (200x75mm)	59.08	9.212	12.75	6.62	0.46	0.17	4.5	3	44	22	28.38	$ 2,470.60
27NTRAP2009020017MML	17	8″ x 3″ (200x90mm)	60.42	9.212	12.75	6.62	0.46	0.21	4.5	3	44	22	28.38	$ 2,470.60
27NTRAP20011020017MML	17	8″ x 3½″ (200x110mm)	64.297	9.212	12.75	8.62	0.46	0.25	4.5	4	44	22	28.38	$ 2,470.60
27NTRAP20012520017MML	17	8″ x 4″ (200x125mm)	65.681	9.212	12.75	8.62	0.46	0.29	4.5	4	44	22	28.38	$ 2,470.60
27NTRAP20016020017MML	17	8″ x 3″ (200x160mm)	67.171	9.212	12.75	10.75	0.46	0.37	4.5	4	44	22	28.38	$ 2,470.60
27NTRAP2509025017MML	17	10″ x 3″ (250x90mm)	69.159	10.338	14	6.62	0.58	0.21	5	3	44	22	29.00	$ 3,103.70

... follow

PREINSULATED *EXTENDED* REDUCING TEE

Range: From ø3″ x 2″ to ø12″ x 10″
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system: EF EF X2 BF



SDR 17

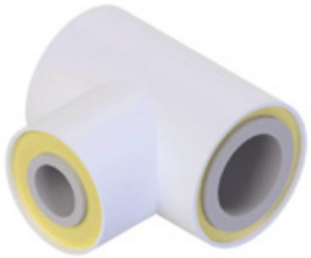
Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRAP25011025017MML	**17**	**10″ x 3½″ (250x110mm)**	70.903	10.338	14	8.62	0.58	0.25	5	4	44	22	29	**$ 3,103.70**
27NTRAP25012525017MML	**17**	**10″ x 4″ (250x125mm)**	72.225	10.338	14	8.62	0.58	0.29	5	4	44	22	29	**$ 3,103.70**
27NTRAP25016025017MML	**17**	**10″ x 6″ (250x160mm)**	74.443	10.338	14	10.75	0.58	0.37	5	4	44	22	29	**$ 3,103.70**
27NTRAP25020025017MML	**17**	**10″ x 8″ (250x200mm)**	81.124	10.338	14	12.75	0.58	0.46	5	4.5	44	22	29	**$ 3,103.70**
27NTRAP31520031517MML	**17**	**12″ x 8″ (315x200mm)**	99.414	14.2222	16	12.75	0.73	0.46	6	4.5	48	24	32	**$ 5,346.70**
27NTRAP31525031517MML	**17**	**12″ x 10″ (315x250mm)**	103.727	14.2222	16	14	0.73	0.58	6	5	48	24	32	**$ 5,346.00**

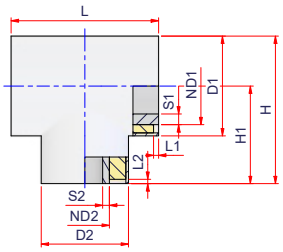
All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED REDUCING TEE FOR SIMULTANEOUS BUTT WELDING

Range: From ø2½" x 2" to ø 12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet





SDR 7.3

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRSP75637573MM	7.3	2½" x2"(75x63mm)	-	0.395	6.62	4.5	0.40	0.34	0.59	0.59	10.5	6.5	9.81	$ 506.00
27NTRSP90639073MM	7.3	3" x 2" (90x63mm)	-	0.395	6.62	4.5	0.49	0.34	0.59	0.59	10.5	6.5	9.81	$ 663.90
27NTRSP90759073MM	7.3	3" x 2½" (90x75mm)	-	0.543	6.62	6.62	0.49	0.40	0.59	0.59	13.75	7	10.31	$ 663.90
27NTRSP1106311073MM	7.3	3½" x 2" (110x63mm)	-	0.619	8.62	4.50	0.59	0.49	0.59	0.59	10.5	7.5	11.81	$ 870.00
27NTRSP1107511073MM	7.3	3½" x 2½" (110x75mm)	-	0.844	8.62	6.62	0.59	0.40	0.59	0.59	13.75	8	12.31	$ 870.00
27NTRSP1109011073MM	7.3	3½" x 3" (110x90mm)	-	0.844	8.62	6.62	0.59	0.49	0.59	0.59	13.75	8	12.31	$ 870.00
27NTRSP1257512573MM	7.3	4" x 2½" (125x75mm)	-	0.844	8.62	6.62	0.67	0.40	0.59	0.59	13.75	8	12.31	$ 1,159.20
27NTRSP1259012573MM	7.3	4" x 3" (125x90mm)	-	0.844	8.62	6.62	0.67	0.49	0.59	0.59	13.75	8	12.31	$ 1,159.20
27NTRSP12511012573MM	7.3	4" x 3½" (125x110mm)	-	0.967	8.62	8.62	0.67	0.49	0.59	0.59	15.75	8	12.31	$ 1,159.20
27NTRSP1606316073MM	7.3	6" x 2" (160x63mm)	-	0.906	10.75	4.50	0.86	0.34	0.59	0.59	10.5	8.5	13.88	$ 1,476.20
27NTRSP1607516073MM	7.3	6" x 2½" (160x75mm)	-	1.230	10.75	6.62	0.86	0.40	0.59	0.59	13.75	9	14.38	$ 1,476.20
27NTRSP1609016073MM	7.3	6" x 3" (160x90mm)	-	1.230	10.75	6.62	0.86	0.49	0.59	0.59	13.75	9	14.38	$ 1,476.20
27NTRSP16011016073MM	7.3	6" x 3½" (160x110mm)	-	1.408	10.75	8.62	0.86	0.59	0.59	0.59	15.75	9	14.38	$ 1,476.20
27NTRSP16012516073MM	7.3	6" x 4" (160x125mm)	-	1.408	10.75	8.62	0.86	0.67	0.59	0.59	15.75	9	14.38	$ 1,476.20
27NTRSP2006320073MM	7.3	8" x 2" (200x63mm)	-	1.230	12.75	4.50	1.08	0.34	0.59	0.59	10.5	9.5	15.88	$ 2,904.00
27NTRSP2009020073MM	7.3	8" x 3" (200x90mm)	-	1.661	12.75	6.62	1.08	0.49	0.59	0.59	13.75	10	16.38	$ 2,904.00
27NTRSP20011020073MM	7.3	8" x 3½" (200x110mm)	-	1.903	12.75	8.62	1.08	0.59	0.59	0.59	15.75	10	16.38	$ 2,904.00
27NTRSP20012520073MM	7.3	8" x 4" (200x125mm)	-	1.903	12.75	8.62	1.08	0.67	0.59	0.59	15.75	10	16.38	$ 2,904.00
27NTRSP20016020073MM	7.3	8" x 6" (200x160mm)	-	2.145	12.75	10.75	1.08	0.86	0.59	0.59	17.75	10	16.38	$ 3,648.20
27NTRSP25009025073MM	7.3	10" x 3" (250x90mm)	-	1.950	14.00	6.62	1.35	0.49	0.59	0.59	13.75	10.5	17.50	$ 3,648.20
27NTRSP25011025073MM	7.3	10" x 3½" (250x110mm)	-	2.233	14.00	8.62	1.35	0.59	0.59	0.59	15.75	10.5	17.50	$ 3,648.20

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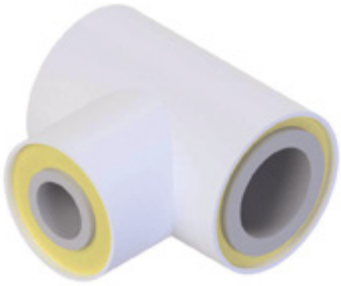
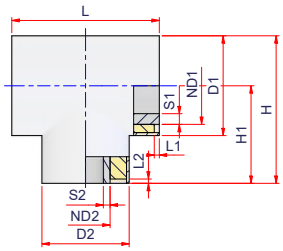
PREINSULATED REDUCING TEE FOR SIMULTANEOUS BUTT WELDING

Range: From ø2½" x 2" to ø 12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet





SDR 7.3

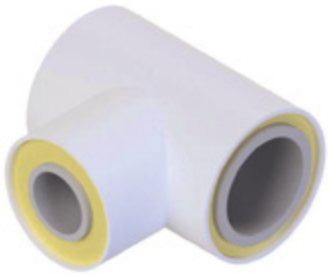
Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRSP25012525073MM	**7.3**	**10" x 4" (250x125mm)**	-	2.233	14.00	8.62	1.35	0.67	0.59	0.59	15.75	10.5	17.5	**$ 3,648.20**
27NTRSP25016025073MM	**7.3**	**10" x 6" (250x160mm)**	-	2.517	14.00	10.75	1.35	0.86	0.59	0.59	17.75	10.5	17.5	**$ 3,648.20**
27NTRSP25020025073MM	**7.3**	**10" x 8" (250x200mm)**	-	2.800	14.00	12.75	1.35	1.08	0.59	0.59	19.75	10.5	17.5	**$ 3,648.20**
27NTRSP31520031573MM	**7.3**	**12" x 8" (315x200mm)**	-	3.566	16.00	12.75	1.70	1.08	0.59	0.59	19.75	11.5	19.5	**$ 5,989.50**
27NTRSP31525031573MM	**7.3**	**12" x 10" (315x250mm)**	-	3.792	16.00	14.00	1.70	1.35	0.59	0.59	21	11.5	19.5	**$ 5,989.50**

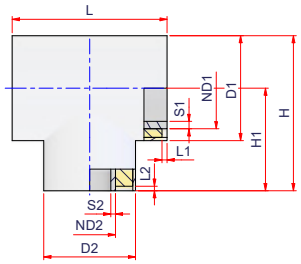
All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED REDUCING TEE FOR SIMULTANEOUS BUTT WELDING

Range: From 2½" x 2" to ø12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet





SDR 11

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRSP75637511MM	11	2½" x2"(75x63mm)	-	0.3946	6.62	4.5	0.27	0.23	0.59	0.59	10.5	6.5	9.81	$ 421.90
27NTRSP90639011MM	11	3" x 2" (90x63mm)	-	0.3946	6.62	4.5	0.32	0.23	0.59	0.59	10.5	6.5	9.81	$ 553.00
27NTRSP90759011MM	11	3" x 2½" (90x75mm)	-	0.5431	6.62	6.62	0.32	0.27	0.59	0.59	13.75	7	10.31	$ 553.00
27NTRSP1106311011MM	11	3½" x 2" (110x63mm)	-	0.6186	8.62	4.50	0.39	0.23	0.59	0.59	10.5	7.5	11.81	$ 726.00
27NTRSP1107511011MM	11	3½" x 2½" (110x75mm)	-	0.8444	8.62	6.62	0.39	0.27	0.59	0.59	13.75	8	12.31	$ 726.00
27NTRSP1109011011MM	11	3½" x 3" (110x90mm)	-	0.8444	8.62	6.62	0.39	0.32	0.59	0.59	13.75	8	12.31	$ 726.00
27NTRSP1257512511MM	11	4" x 2½" (125x75mm)	-	0.8444	8.62	6.62	0.45	0.27	0.59	0.59	13.75	8	12.31	$ 966.30
27NTRSP1259012511MM	11	4" x 3" (125x90mm)	-	0.8444	8.62	6.62	0.45	0.32	0.59	0.59	13.75	8	12.31	$ 966.30
27NTRSP12511012511MM	11	4" x 3½" (125x110mm)	-	0.9672	8.62	8.62	0.45	0.39	0.59	0.59	15.75	8	12.31	$ 966.30
27NTRSP1606316011MM	11	6" x 2" (160x63mm)	-	0.9063	10.75	4.50	0.57	0.23	0.59	0.59	10.5	8.5	13.88	$ 1,230.10
27NTRSP1607516011MM	11	6" x 2½" (160x75mm)	-	1.2296	10.75	6.62	0.57	0.27	0.59	0.59	13.75	9	14.38	$ 1,230.10
27NTRSP1609016011MM	11	6" x 3" (160x90mm)	-	1.2296	10.75	6.62	0.57	0.32	0.59	0.59	13.75	9	14.38	$ 1,230.10
27NTRSP16011016011MM	11	6" x 3½" (160x110mm)	-	1.4085	10.75	8.62	0.57	0.39	0.59	0.59	15.75	9	14.38	$ 1,230.10
27NTRSP16012516011MM	11	6" x 4" (160x125mm)	-	1.4085	10.75	8.62	0.57	0.45	0.59	0.59	15.75	9	14.38	$ 1,230.10
27NTRSP2006320011MM	11	8" x 2" (200x63mm)	-	1.2299	12.75	4.50	0.72	0.23	0.59	0.59	10.5	9.5	15.88	$ 2,415.90
27NTRSP2009020011MM	11	8" x 3" (200x90mm)	-	1.6613	12.75	6.62	0.72	0.32	0.59	0.59	13.75	10	16.38	$ 2,196.20
27NTRSP20011020011MM	11	8" x 3½" (200x110mm)	-	1.903	12.75	8.62	0.72	0.39	0.59	0.59	15.75	10	16.38	$ 2,415.90
27NTRSP20012520011MM	11	8" x 4" (200x125mm)	-	1.903	12.75	8.62	0.72	0.45	0.59	0.59	15.75	10	16.38	$ 2,415.90
27NTRSP20016020011MM	11	8" x 6" (200x160mm)	-	2.1446	12.75	10.75	0.72	0.57	0.59	0.59	17.75	10	16.38	$ 2,415.90
27NTRSP2509025011MM	11	10" x 3" (250x90mm)	-	1.9495	14.00	6.62	0.89	0.32	0.59	0.59	13.75	10.5	17.5	$ 3,034.70

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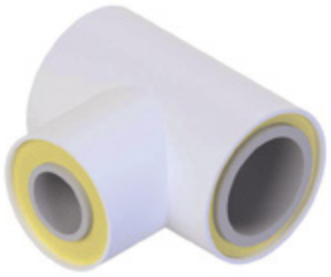
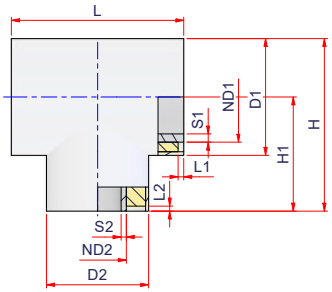
PREINSULATED REDUCING TEE FOR SIMULTANEOUS BUTT WELDING



Range: From 2½" x 2" to ø12" x 10"
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



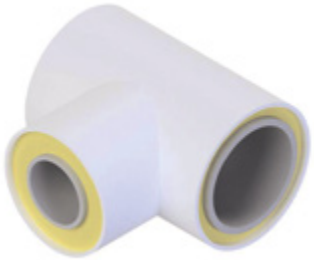
SDR 11

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRSP25011025011MM	**11**	**10" x 3½" (250x110mm)**	-	2.2331	14.00	8.62	0.89	0.39	0.59	0.59	15.75	10.5	17.5	**$ 3,034.70**
27NTRSP25012525011MM	**11**	**10" x 4" (250x125mm)**	-	2.2331	14.00	8.62	0.89	0.45	0.59	0.59	15.75	10.5	17.5	**$ 3,034.70**
27NTRSP25016025011MM	**11**	**10" x 6" (250x160mm)**	-	2.5166	14.00	10.75	0.89	0.57	0.59	0.59	17.75	10.5	17.5	**$ 3,034.70**
27NTRSP25020025011MM	**11**	**10" x 8" (250x200mm)**	-	2.8002	14.00	12.75	0.89	0.72	0.59	0.59	19.75	10.5	17.5	**$ 3,034.70**
27NTRSP31520031511MM	**11**	**12" x 8" (315x200mm)**	-	3.566	16.00	12.75	1.13	0.72	0.59	0.59	19.75	11.5	19.5	**$ 4,991.30**
27NTRSP31525031511MM	**11**	**12" x 10" (315x250mm)**	-	3.7917	16.00	14.00	1.13	0.89	0.59	0.59	21	11.5	19.5	**$ 4,991.30**

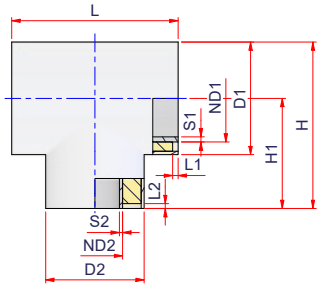
All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED REDUCING TEE FOR SIMULTANEOUS BUTT WELDING

Range: From ø 10″ x 8″ to ø12″ x 10″
Fitting structure: 90° Reducing tee + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey + External White
Welding system:



Note: **BFX2** not weldable on pipes shorter than 6 feet



SDR 17

Code	SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	H1	H	Price Each
27NTRSP25020025017MM	**17**	**10″ x 8″ (250x200mm)**	-	2.8002	14.00	12.75	0.58	0.47	0.59	0.59	19.75	10.5	17.5	**$ 2,731.00**
27NTRSP31520031517MM	**17**	**12″ x 8″ (315x200mm)**	-	3.566	16.00	12.75	0.74	0.47	0.59	0.59	19.75	11.5	19.5	**$ 4,492.10**
27NTRSP31525031517MM	**17**	**12″ x 10″ (315x250mm)**	-	3.7917	16.00	14.00	0.74	0.58	0.59	0.59	21	11.5	19.5	**$ 4,492.10**

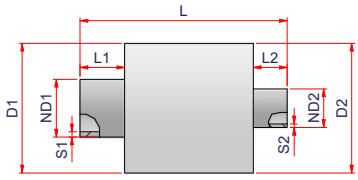
PREINSULATED STANDARD CONCENTRIC REDUCER

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF x2 | BF

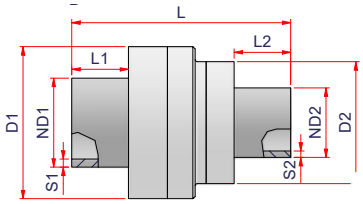
(A)

(B)

(A)



(B)



SDR 7.3

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP403273MM	A	7.3	1¼" x 1" (40x32mm)	0.654	0.0496	3.5	3.5	0.22	0.17	2	2	7	$ 84.70
27NRAP503273MM	B	7.3	1½" x 1" (50x32mm)	0.98	0.0926	4.5	3.5	0.27	0.17	2.5	2	7.9	$ 84.70
27NRAP504073MM	B	7.3	1½" x 1¼" (50x40mm)	0.997	0.0902	4.5	3.5	0.27	0.22	2.5	2	7.7	$ 84.70
27NRAP633273MM	B	7.3	2" x 1" (63x32mm)	1.664	0.109	4.5	3.5	0.34	0.17	2.5	2	9.3	$ 96.80
27NRAP634073MM	B	7.3	2" x 1¼" (63x40mm)	1.152	0.0938	4.5	3.5	0.34	0.22	2.5	2	8	$ 96.80
27NRAP635073MM	A	7.3	2" x 1½" (63x50mm)	1.432	0.1008	4.5	4.5	0.34	0.27	2.5	2.5	8.6	$ 96.80
27NRAP753273MM	B	7.3	2½" x 1" (75x32mm)	3.055	0.2692	6.625	3.5	0.4	0.17	3	2	10.6	$ 116.20
27NRAP754073MM	B	7.3	2½" x 1¼" (75x40mm)	3.108	0.2692	6.625	3.5	0.4	0.22	3	2	10.6	$ 116.20
27NRAP755073MM	B	7.3	2½" x 1½" (75x50mm)	2.498	0.2464	6.625	4.5	0.4	0.27	3	2.5	9.7	$ 116.20
27NRAP756373MM	B	7.3	2½" x 2" (75x63mm)	2.619	0.2464	6.625	4.5	0.4	0.34	3	2.5	9.7	$ 116.20
27NRAP906373MM	B	7.3	3" x 2" (90x63mm)	3.028	0.2515	6.625	4.5	0.49	0.34	3	2.5	9.9	$ 229.90
27NRAP907573MM	A	7.3	3" x 2½" (90x75mm)	3.413	0.2642	6.625	6.625	0.49	0.4	3	3	10.4	$ 229.90
27NRAP1106373MM	B	7.3	3½" x 2" (110x63mm)	7.667	0.5805	8.62	4.5	0.59	0.34	4	2.5	13.5	$ 271.10
27NRAP1107573MM	B	7.3	3½" x 2½" (110x75mm)	5.722	0.5203	8.62	6.625	0.59	0.40	4	3	12.1	$ 271.10
27NRAP1109073MM	B	7.3	3½" x 3" (110x90mm)	6.129	0.5332	8.62	6.625	0.59	0.49	4	3	12.4	$ 271.10
27NRAP1256373MM	B	7.3	4" x 2" (125x63mm)	7.559	0.5891	8.62	4.5	0.67	0.34	4	2.5	13.7	$ 338.80
27NRAP1259073MM	B	7.3	4" x 3" (125x90mm)	8.116	0.5504	8.62	6.625	0.67	0.49	4	3	12.8	$ 338.80
27NRAP12511073MM	A	7.3	4" x 3½" (125x110mm)	8.096	0.5934	8.62	8.625	0.67	0.59	4	4	13.8	$ 338.80
27NRAP1609073MM	B	7.3	6" x 3" (160x90mm)	11.515	1.0299	10.75	6.625	0.86	0.49	4.5	3	15.4	$ 653.40
27NRAP16011073MM	B	7.3	6" x 3½" (160x110mm)	12.139	1.0968	10.75	8.62	0.86	0.59	4.5	4	16.4	$ 653.40
27NRAP16012573MM	B	7.3	6" x 4" (160X125mm)	12.514	1.0968	10.75	8.62	0.86	0.67	4.5	4	16.4	$ 653.40

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All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

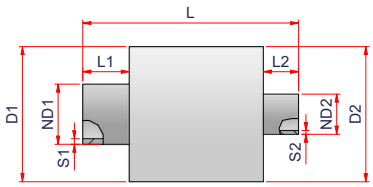
PREINSULATED STANDARD CONCENTRIC REDUCER

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF EF X2 BF

(A)

(B)

(A)



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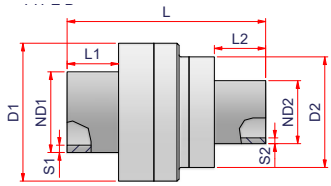


SDR 7.3

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP20016073MM	B	7.3	8" x 6" (200x160mm)	19.411	1.6369	12.75	10.75	1.08	0.86	5	4.5	17.4	$ 653.40
27NRAP25016073MM	B	7.3	10" x 6" (250x160mm)	26.442	2.0757	14.00	10.75	1.35	0.86	5.5	4.5	18.3	$ 1,331.00
27NRAP25020073MM	B	7.3	10" x 8" (250x200mm)	28.319	2.1324	14.00	12.75	1.35	1.08	5.5	5	18.8	$ 1,331.00
27NRAP31516073MM	B	7.3	12" x 6" (315x160mm)	38.64	2.6963	16.00	10.75	1.70	0.86	5	4.50	18.2	$ 1,694.00
27NRAP31520073MM	B	7.3	12" x 8" (315x200mm)	48.145	3.3185	16.00	12.75	1.70	1.08	5	5	22.4	$ 1,694.00
27NRAP31525073MM	B	7.3	12" x 10" (315x250mm)	52.011	3.437	16.00	14.00	1.70	1.35	5	5.50	23.2	$ 1,694.00

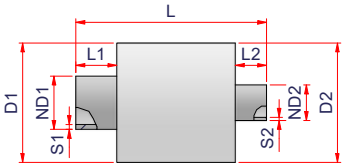
PREINSULATED STANDARD CONCENTRIC REDUCER

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF x2 | BF

(A)

(B)

(A)



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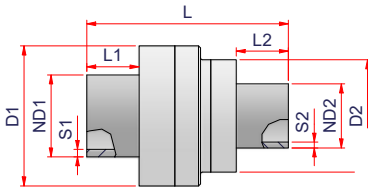


SDR 11

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP403211MM	A	11	1¼" x 1" (40x32mm)	0.613	0.0496	3.5	3.5	0.22	0.17	2	2	7	$ 84.70
27NRAP503211MM	B	11	1½" x 1" (50x32mm)	0.913	0.0926	4.5	3.5	0.27	0.17	2.5	2	7.9	$ 84.70
27NRAP504011MM	B	11	1½" x 1¼" (50x40mm)	0.906	0.0902	4.5	3.5	0.27	0.22	2.5	2	7.7	$ 84.70
27NRAP633211MM	B	11	2" x 1" (63x32mm)	1.563	0.109	4.5	3.5	0.34	0.17	2.5	2	9.3	$ 96.80
27NRAP634011MM	B	11	2" x 1¼" (63x40mm)	1.166	0.0938	4.5	3.5	0.34	0.22	2.5	2	8	$ 96.80
27NRAP635011MM	A	11	2" x 1½" (63x50mm)	1.283	0.1008	4.5	4.5	0.34	0.27	2.5	2.5	8.6	$ 96.80
27NRAP753211MM	B	11	2½" x 1" (75x32mm)	2.881	0.2692	6.63	3.5	0.4	0.17	3	2	10.6	$ 116.20
27NRAP754011MM	B	11	2½" x 1¼" (75x40mm)	2.903	0.2692	6.63	3.5	0.4	0.22	3	2	10.6	$ 116.20
27NRAP755011MM	B	11	2½" x 1½" (75x50mm)	2.273	0.2464	6.63	4.5	0.4	0.27	3	2.5	9.7	$ 116.20
27NRAP756311MM	B	11	2½" x 2" (75x63mm)	2.357	0.2464	6.63	4.5	0.4	0.34	3	2.5	9.7	$ 116.20
27NRAP906311MM	B	11	3" x 2" (90x63mm)	2.813	0.2515	6.63	4.5	0.49	0.34	3	2.5	9.9	$ 152.50
27NRAP907511MM	A	11	3" x 2½" (90x75mm)	3.014	0.2642	6.63	6.63	0.49	0.4	3	3	10.4	$ 152.50
27NRAP1106311MM	B	11	3½" x 2" (110x63mm)	7.103	0.5805	8.62	4.5	0.59	0.34	4	2.5	13.5	$ 152.50
27NRAP1107511MM	B	11	3½" x 2½" (110x75mm)	5.095	0.5203	8.62	6.63	0.59	0.4	4	3	12.1	$ 152.50
27NRAP1109011MM	B	11	3½" x 3" (110x90mm)	5.417	0.5332	8.62	6.63	0.59	0.49	4	3	12.4	$ 152.50
27NRAP1259011MM	A	11	4" x 3" (125x90mm)	6.5	0.5504	8.62	6.63	0.67	0.49	4	3	12.8	$ 266.20
27NRAP12511011MM	B	11	4" x 3½" (125x110mm)	7.026	0.5934	8.62	8.63	0.67	0.59	4	4	13.8	$ 266.20
27NRAP1609011MM	B	11	6" x 3" (160x90mm)	9.735	0.9965	10.75	6.63	0.86	0.49	4.5	3	14.9	$ 338.80
27NRAP16011011MM	B	11	6" x 3½" (160x110mm)	10.05	1.0633	10.75	8.62	0.86	0.59	4.5	4	15.9	$ 338.80

... follow

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

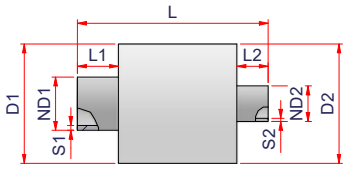
PREINSULATED STANDARD CONCENTRIC REDUCER

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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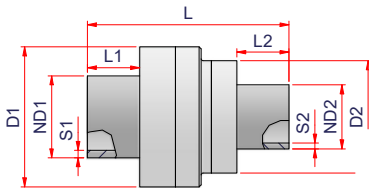


SDR 11

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP16012511MM	**B**	**11**	**6" x 4" (160x125mm)**	10.644	1.0633	10.75	8.62	0.86	0.67	4.5	4	15.9	**$ 338.80**
27NRAP20016011MM	**B**	**11**	**8" x 6" (200x160mm)**	15.589	1.5899	12.75	10.75	1.08	0.86	5	4.5	16.9	**$ 665.50**
27NRAP25016011MM	**B**	**11**	**10" x 6" (250x160mm)**	20.692	2.019	14	10.75	1.35	0.86	5.5	4.5	17.8	**$ 955.90**
27NRAP25020011MM	**B**	**11**	**10" x 8" (250x200mm)**	22.192	2.0757	14	12.75	1.35	1.08	5.5	5	18.3	**$ 955.90**
27NRAP31516011MM	**B**	**11**	**12" x 6" (315x160mm)**	32.017	2.8444	16	10.75	1.7	0.86	5	4.5	19.2	**$ 1,240.30**
27NRAP31520011MM	**B**	**11**	**12" x 8" (315x200mm)**	38.276	3.4667	16	12.75	1.7	1.08	5	5	23.4	**$ 1,240.30**
27NRAP31525011MM	**B**	**11**	**12" x 10" (315x250mm)**	42.005	3.5852	16	14	1.7	1.35	5	5.5	24.2	**$ 1,240.30**

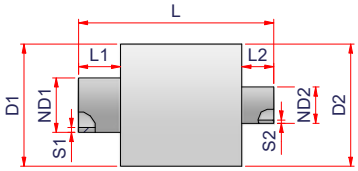
PREINSULATED STANDARD CONCENTRIC REDUCER

Range: From ø2½" x 2" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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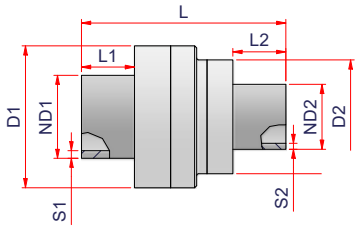


SDR 17

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP756317MM	B	17	2½" x 2" (75x63mm)	2.162	0.2464	6.63	4.5	0.17	0.15	3	2.5	9.7	$ 116.20
27NRAP906317MM	B	17	3" x 2" (90x63mm)	2.564	0.2515	6.63	4.5	0.21	0.15	3	2.5	9.9	$ 152.50
27NRAP907517MM	A	17	3" x 2½" (90x75mm)	2.716	0.2642	6.63	6.63	0.21	0.17	3	3	10.4	$ 152.50
27NRAP1106317MM	B	17	3½" x 2" (110x63mm)	6.686	0.5805	8.62	4.5	0.25	0.15	4	2.5	13.5	$ 199.70
27NRAP1107517MM	B	17	3½" x 2½" (110x75mm)	4.636	0.5203	8.62	6.63	0.25	0.17	4	3	12.1	$ 199.70
27NRAP1109017MM	B	17	3½" x 3" (110x90mm)	4.9	0.5332	8.62	6.63	0.25	0.21	4	3	12.4	$ 199.70
27NRAP1259017MM	B	17	4" x 3" (125x90mm)	5.844	0.5504	8.62	6.63	0.29	0.21	4	3	12.8	$ 266.20
27NRAP12511017MM	A	17	4" x 3½" (125x110mm)	6.217	0.5934	8.62	8.63	0.29	0.25	4	4	13.8	$ 266.20
27NRAP1609017MM	B	17	6" x 3" (160x90mm)	8.3	0.9965	10.75	6.63	0.37	0.21	4	3	14.9	$ 338.80
27NRAP16011017MM	B	17	6" x 3½" (160x110mm)	8.708	1.0633	10.75	8.62	0.37	0.25	4	4	15.9	$ 338.80
27NRAP16012517MM	B	17	6" x 4" (160x125mm)	9.427	1.0633	10.75	8.62	0.37	0.29	4	4	15.9	$ 338.80
27NRAP20016017MM	B	17	8" x 6" (200x160mm)	13.443	1.5899	12.75	10.75	0.46	0.37	4.5	4	16.9	$ 665.50
27NRAP25016017MM	B	17	10" x 6" (250x160mm)	17.701	2.019	14	10.75	0.58	0.37	5	4	17.8	$ 955.90
27NRAP25020017MM	B	17	10" x 8" (250x200mm)	18.719	2.0757	14	12.75	0.58	0.46	5	4.5	18.3	$ 955.90
27NRAP31516017MM	B	17	12" x 6" (315x160mm)	27.461	2.8444	16	10.75	0.73	0.37	6	4	19.2	$ 1,240.30
27NRAP31520017MM	B	17	12" x 8" (315x200mm)	31.246	3.4667	16	12.75	0.73	0.46	6	4.5	23.4	$ 1,240.30
27NRAP31525017MM	B	17	12" x 10" (315x250mm)	33.424	3.5852	16	14	0.73	0.58	6	5	24.2	$ 1,240.30

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

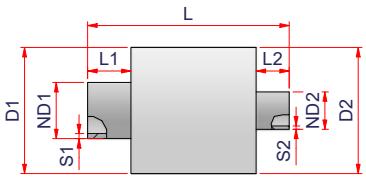
PREINSULATED *EXTENDED* CONCENTRIC REDUCER

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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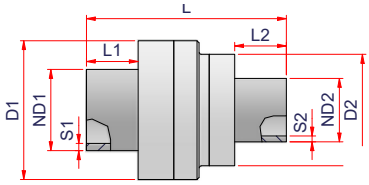

SDR 7.3

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP403273MML	A	7.3	1¼" x 1" (40x32mm)	1.654	0.0744	3.5	3.5	0.22	0.17	2	2	10.5	$ 106.00
27NRAP503273MML	B	7.3	1½" x 1" (50x32mm)	2.08	0.1348	4.5	3.5	0.27	0.17	2.5	2	11.5	$ 106.00
27NRAP504073MML	B	7.3	1½" x 1¼" (50x40mm)	2.197	0.1348	4.5	3.5	0.27	0.22	2.5	2	11.5	$ 106.00
27NRAP633273MML	B	7.3	2" x 1" (63x32mm)	3.052	0.1465	4.5	3.5	0.34	0.17	2.5	2	12.5	$ 121.00
27NRAP634073MML	B	7.3	2" x 1¼" (63x40mm)	3.352	0.1465	4.5	3.5	0.34	0.22	2.5	2	12.5	$ 121.00
27NRAP635073MML	A	7.3	2" x 1½" (63x50mm)	4.33	0.1523	4.5	4.5	0.34	0.27	2.5	2.5	13	$ 121.00
27NRAP753273MML	B	7.3	2½" x 1" (75x32mm)	6.035	0.3429	6.63	3.5	0.4	0.17	3	2	13.5	$ 145.20
27NRAP754073MML	B	7.3	2½" x 1¼" (75x40mm)	6.088	0.3429	6.63	3.5	0.4	0.22	3	2	13.5	$ 145.20
27NRAP755073MML	B	7.3	2½" x 1½" (75x50mm)	6.958	0.3556	6.63	4.5	0.4	0.27	3	2.5	14	$ 145.20
27NRAP756373MML	B	7.3	2½" x 2" (75x63mm)	7.079	0.3556	6.63	4.5	0.4	0.34	3	2.5	14	$ 145.20
27NRAP906373MML	B	7.3	3" x 2" (90x63mm)	7.828	0.3556	6.63	4.5	0.49	0.34	3	2.5	14	$ 287.50
27NRAP907573MML	A	7.3	3" x 2½" (90x75mm)	8.213	0.3683	6.63	6.63	0.49	0.4	3	3	14.5	$ 287.50
27NRAP1106373MML	B	7.3	3½" x 2" (110x63mm)	12.517	0.7095	8.62	4.5	0.59	0.34	4	2.5	16.5	$ 338.80
27NRAP1107573MML	B	7.3	3½" x 2½" (110x75mm)	13.122	0.731	8.62	6.63	0.59	0.4	4	3	17	$ 338.80
27NRAP1109073MML	B	7.3	3½" x 3" (110x90mm)	13.329	0.731	8.62	6.63	0.59	0.49	4	3	17	$ 338.80
27NRAP1256373MML	B	7.3	4" x 2" (125x63mm)	14.059	0.7095	8.62	6.63	0.67	0.34	4	2.5	16.5	$ 423.50
27NRAP1259073MML	B	7.3	4" x 3" (125x90mm)	14.816	0.731	8.62	6.63	0.67	0.49	4	3	17	$ 423.50
27NRAP12511073MML	A	7.3	4" x 3½" (125x110mm)	14.896	0.774	8.62	8.63	0.67	0.59	4	4	18	$ 423.50
27NRAP1609073MML	B	7.3	6" x 3" (160x90mm)	18.718	1.2038	10.75	6.63	0.67	0.49	4	3	18	$ 816.80
27NRAP16011073MML	B	7.3	6" x 3½" (160x110mm)	19.339	1.3041	10.75	8.62	0.86	0.59	4.5	4	19.5	$ 816.80
27NRAP16012573MML	B	7.3	6" x 4" (160X125mm)	22.314	1.3041	10.75	8.62	0.86	0.67	4.5	4	19.5	$ 816.80

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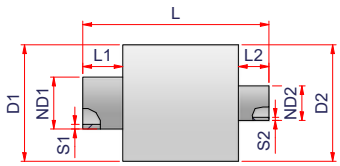
PREINSULATED *EXTENDED* CONCENTRIC REDUCER

Range: From ø 1¼" x 1" to ø 12"x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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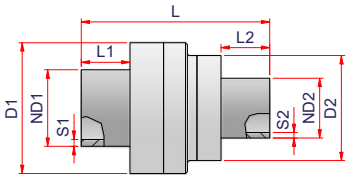

SDR 7.3

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP20016073MML	**B**	**7.3**	**8" x 6" (200x160mm)**	30.311	1.9285	12.75	10.75	0.86	0.86	5	4.5	20.5	**$ 1058.80**
27NRAP25016073MML	**B**	**7.3**	**10" x 6" (250x160mm)**	37.842	2.4954	14	10.75	1.08	0.86	5.5	4.5	22	**$ 1,663.80**
27NRAP25020073MML	**B**	**7.3**	**10" x 8" (250x200mm)**	39.719	2.5521	14	12.75	1.35	1.08	5.5	5	22.5	**$ 1,663.80**
27NRAP31516073MML	**B**	**7.3**	**12" x 6" (315x160mm)**	62.64	3.6296	16	10.75	1.7	0.86	5	4.5	24.5	**$ 2,117.50**
27NRAP31520073MML	**B**	**7.3**	**12" x 8" (315x200mm)**	63.645	3.7037	16	12.75	1.7	1.08	5	5	25	**$ 2,117.50**
27NRAP31525073MML	**B**	**7.3**	**12" x 10" (315x250mm)**	64.011	3.7778	16	14	1.7	1.35	5	5.5	25.5	**$ 2,117.50**

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
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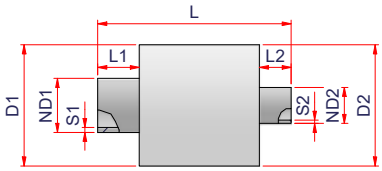
PREINSULATED *EXTENDED* CONCENTRIC REDUCER

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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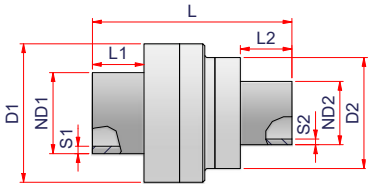


SDR 11

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP403211MML	A	11	1¼" x 1" (40x32mm)	1.513	0.0744	3.5	3.5	0.22	0.17	2	2	10.5	$ 106.00
27NRAP503211MML	B	11	1½" x 1" (50x32mm)	1.813	0.1348	4.5	3.5	0.27	0.17	2.5	2	11.5	$ 106.00
27NRAP504011MML	B	11	1½" x 1¼" (50x40mm)	1.856	0.1348	4.5	3.5	0.27	0.22	2.5	2	11.5	$ 106.00
27NRAP633211MML	B	11	2" x 1" (63x32mm)	2.363	0.1465	4.5	3.5	0.34	0.17	2.5	2	12.5	$ 121.00
27NRAP634011MML	B	11	2" x 1¼" (63x40mm)	2.866	0.1465	4.5	3.5	0.34	0.22	2.5	2	12.5	$ 121.00
27NRAP635011MML	A	11	2" x 1½" (63x50mm)	3.883	0.1523	4.5	4.5	0.34	0.27	2.5	2.5	13	$ 121.00
27NRAP753211MML	B	11	2½" x 1" (75x32mm)	5.581	0.3429	6.63	3.5	0.4	0.17	3	2	13.5	$ 145.20
27NRAP754011MML	B	11	2½" x 1¼" (75x40mm)	5.603	0.3429	6.63	3.5	0.4	0.22	3	2	13.5	$ 145.20
27NRAP755011MML	B	11	2½" x 1½" (75x50mm)	6.273	0.3556	6.63	4.5	0.4	0.27	3	2.5	14	$ 145.20
27NRAP756311MML	B	11	2½" x 2" (75x63mm)	6.357	0.3556	6.63	4.5	0.4	0.34	3	2.5	14	$ 145.20
27NRAP906311MML	B	11	3" x 2" (90x63mm)	6.513	0.3556	6.63	4.5	0.49	0.34	3	2.5	14	$ 190.70
27NRAP907511MML	A	11	3" x 2½" (90x75mm)	6.714	0.3683	6.63	6.625	0.49	0.4	3	3	14.5	$ 190.70
27NRAP1106311MML	B	11	3½" x 2" (110x63mm)	9.503	0.7095	8.62	4.5	0.59	0.34	4	2.5	16.5	$ 249.30
27NRAP1107511MML	B	11	3½" x 2½" (110x75mm)	9.705	0.731	8.62	6.625	0.59	0.40	4	3	17	$ 249.30
27NRAP1109011MML	B	11	3½" x 3" (110x90mm)	10.017	0.731	8.62	6.625	0.59	0.49	4	3	17	$ 249.30
27NRAP1259011MML	A	11	4" x 3" (125x90mm)	12.5	0.731	8.62	6.625	0.67	0.49	4	3	17	$ 332.80
27NRAP12511011MML	B	11	4" x 3½" (125x110mm)	13.026	0.774	8.62	8.625	0.67	0.59	4	4	18	$ 332.80
27NRAP1609011MML	B	11	6" x 3" (160x90mm)	15.35	1.2038	10.75	6.625	0.86	0.49	4.5	3	18	$ 423.50
27NRAP16011011MML	B	11	6" x 3½" (160x110mm)	16.85	1.2707	10.75	8.62	0.86	0.59	4.5	4	19	$ 423.50

... follow

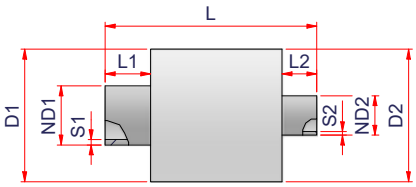
PREINSULATED *EXTENDED* CONCENTRIC REDUCER

Range: From ø1¼" x 1" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B)

(A)



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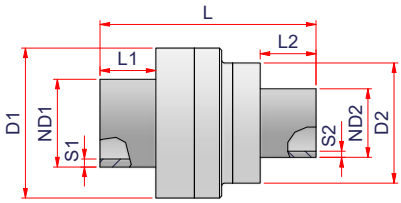


SDR 11

Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP16012511MML	**B**	**11**	**6" x 4" (160x125mm)**	17.444	1.2707	10.75	8.62	0.86	0.67	4.5	4	19	**$ 423.50**
27NRAP20016011MML	**B**	**11**	**8" x 6" (200x160mm)**	24.789	1.8815	12.75	10.75	1.08	0.86	5	4	20	**$ 832.50**
27NRAP25016011MML	**B**	**11**	**10" x 6" (250x160mm)**	30.492	2.4387	14	10.75	1.35	0.86	5.5	4	21.5	**$ 1,195.50**
27NRAP25020011MML	**B**	**11**	**10" x 8" (250x200mm)**	31.992	2.4954	14	12.75	1.35	1.08	5.5	4.5	22	**$ 1,195.50**
27NRAP31516011MML	**B**	**11**	**12" x 6" (315x160mm)**	52.017	3.7778	16	10.75	1.70	0.86	5	4	25.5	**$ 1,548.80**
27NRAP31520011MML	**B**	**11**	**12" x 8" (315x200mm)**	58.276	3.8519	16	12.75	1.70	1.08	5	4.5	26	**$ 1,548.80**
27NRAP31525011MML	**B**	**11**	**12" x 10" (315x250mm)**	60.505	3.9259	16	14.00	1.70	1.35	5	5	26.5	**$ 1,548.80**

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

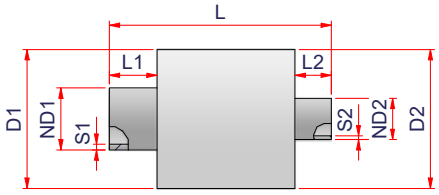
PREINSULATED *EXTENDED* CONCENTRIC REDUCER

Range: From ø 2½" x 2" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system: EF | EF X2 | BF

(A)

(B

(A)



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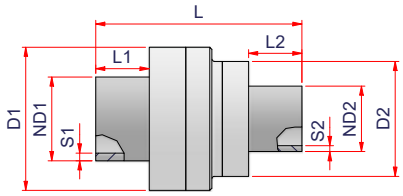


SDR 17

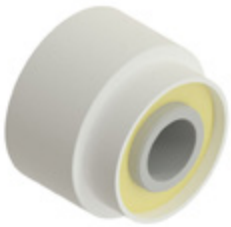
Code	Type	Weldable SDR	Ø ND1 x ND2	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRAP756317MML	B	17	2½" x 2" (75x63mm)	6.162	0.3556	6.63	4.5	0.17	0.15	3	2.5	14	$ 145.20
27NRAP906317MML	B	17	3" x 2" (90x63mm)	6.364	0.3556	6.63	4.5	0.21	0.15	3	2.5	14	$ 190.70
27NRAP907517MML	A	17	3" x 2½" (90x75mm)	6.616	0.3683	6.63	6.63	0.21	0.17	3	3	14.5	$ 190.70
27NRAP1106317MML	B	17	3½" x 2" (110x63mm)	9.186	0.7095	8.62	4.5	0.25	0.15	4	2.5	16.5	$ 249.30
27NRAP1107517MML	B	17	3½" x 2½" (110x75mm)	9.636	0.731	8.62	6.63	0.25	0.17	4	3	17	$ 249.30
27NRAP1109017MML	B	17	3½" x 3" (110x90mm)	9.401	0.731	8.62	6.63	0.25	0.21	4	3	17	$ 249.30
27NRAP1259017MML	B	17	4" x 3" (125x90mm)	12.544	0.731	8.62	6.63	0.29	0.21	4	3	17	$ 332.80
27NRAP12511017MML	A	17	4" x 3½" (125x110mm)	13.017	0.774	8.62	8.63	0.29	0.25	4	4	18	$ 332.80
27NRAP1609017MML	B	17	6" x 3" (160x90mm)	14.821	1.2038	10.75	6.63	0.37	0.21	4	4	18	$ 423.50
27NRAP16011017MML	B	17	6" x 3½" (160x110mm)	15.208	1.2707	10.75	8.62	0.37	0.25	4	4	19	$ 423.50
27NRAP16012517MML	B	17	6" x 4" (160x125mm)	15.902	1.2707	10.75	8.62	0.37	0.29	4	4	19	$ 423.50
27NRAP20016017MML	B	17	8" x 6" (200x160mm)	22.133	1.8815	12.75	10.75	0.46	0.37	4.5	4	20	$ 832.50
27NRAP25016017MML	B	17	10" x 6" (250x160mm)	29.201	2.4387	14	10.75	0.58	0.37	5	4	21.5	$ 1,195.50
27NRAP25020017MML	B	17	10" x 8" (250x200mm)	30.219	2.4954	14	12.75	0.58	0.46	5	4.5	22	$ 1,195.50
27NRAP31516017MML	B	17	12" x 6" (315x160mm)	38.461	3.7778	16	10.75	0.73	0.37	6	4	25.5	$ 1,548.80
27NRAP31520017MML	B	17	12" x 8" (315x200mm)	39.446	3.8519	16	12.75	0.73	0.46	6	5	26	$ 1,548.80
27NRAP31525017MML	B	17	12" x 10" (315x250mm)	40.424	3.9259	16	14	0.73	0.58	6	5	26.5	$ 1,548.80

PREINSULATED CONCENTRIC REDUCER FOR SIMULTNEOUS BUTT WELDING

Range: From ø 2½" x 2" to ø 12"x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)



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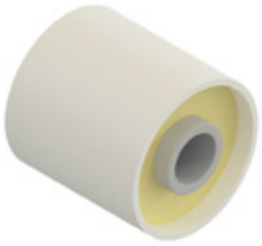

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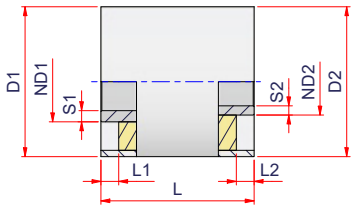

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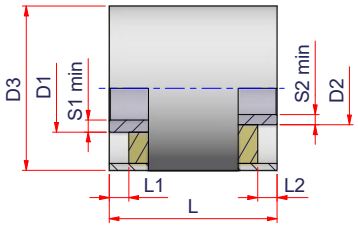


SDR 7.3

Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRSP756373MM	A	7.3	2½" x2"(75x63mm)	2.032	0.1067	6.63	4.5	0.4	0.34	0.59	0.59	4.2	$ 127.90
27NRSP906373MM	A	7.3	3" x 2" (90x63mm)	2.388	0.1118	6.63	4.5	0.49	0.34	0.59	0.59	4.4	$ 254.10
27NRSP907573MM	B	7.3	3" x 2½" (90x75mm)	2.773	0.1118	6.63	6.63	0.49	0.4	0.59	0.59	4.4	$ 254.10
27NRSP1106373MM	A	7.3	3½" x 2" (110x63mm)	6.973	0.301	8.62	4.5	0.59	0.34	0.59	0.59	7	$ 298.40
27NRSP1107573MM	A	7.3	3½" x 2½" (110x75mm)	4.975	0.2193	8.62	6.63	0.59	0.4	0.59	0.59	5.1	$ 298.40
27NRSP1109073MM	A	7.3	3½" x 3" (110x90mm)	5.382	0.2322	8.62	6.63	0.59	0.49	0.59	0.59	5.4	$ 298.40
27NRSP1256373MM	A	7.3	4" x 2" (125x63mm)	6.865	0.3096	8.62	4.5	0.67	0.34	0.59	0.59	7.2	$ 372.70
27NRSP1259073MM	A	7.3	4" x 3" (125x90mm)	7.369	0.2494	8.62	6.63	0.67	0.49	0.59	0.59	5.8	$ 372.70
27NRSP12511073MM	B	7.3	4" x 3½" (125x110mm)	7.242	0.2494	8.62	8.63	0.67	0.59	0.59	0.59	5.8	$ 372.70
27NRSP1609073MM	A	7.3	6" x 3" (160x90mm)	10.715	0.5283	10.75	6.63	0.86	0.49	0.59	0.59	7.9	$ 720.00
27NRSP16011073MM	A	7.3	6" x 3½" (160x110mm)	11.169	0.5283	10.75	8.62	0.86	0.59	0.59	0.59	7.9	$ 720.00
27NRSP16012573MM	A	7.3	6" x 4" (160x125mm)	11.544	0.5283	10.75	8.62	0.86	0.67	0.59	0.59	7.9	$ 720.00
27NRSP20016073MM	B	7.3	8" x 6" (200x160mm)	18.398	0.7432	12.75	10.75	1.08	0.86	0.59	0.59	7.9	$ 847.00
27NRSP25016073MM	B	7.3	10" x 6" (250x160mm)	25.375	0.9414	14	10.75	1.35	0.86	0.59	0.59	8.3	$ 1,331.00
27NRSP25020073MM	B	7.3	10" x 8" (250x200mm)	27.199	0.9414	14	12.75	1.35	1.08	0.59	0.59	8.3	$ 1,331.00
27NRSP31516073MM	B	7.3	12" x 6" (315x160mm)	37.627	1.2889	16	10.75	1.70	0.86	0.59	0.59	8.7	$1,694.00
27NRSP31520073MM	B	7.3	12" x 8" (315x200mm)	47.079	1.837	16	12.75	1.70	1.08	0.59	0.59	12.4	$1,694.00
27NRSP31525073MM	B	7.3	12" x 10" (315x250mm)	50.891	1.8815	16	14	1.70	1.35	0.59	0.59	12.7	$1,694.00

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

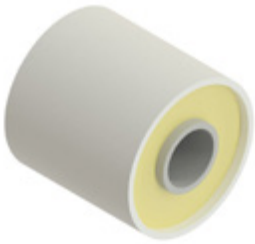
PREINSULATED CONCENTRIC REDUCER FOR SIMULTNEOUS BUTT WELDING

Range: From ø2½" x 2" to ø 12" x 10"
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)

(B)



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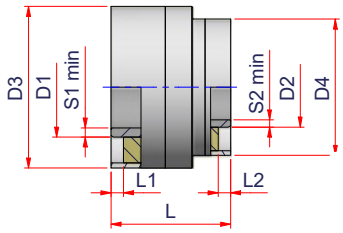

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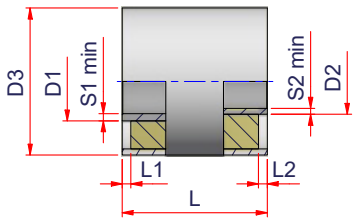


SDR 11

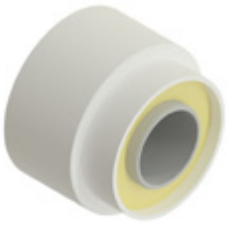
Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRSP756311MM	**A**	**11**	**2½" x2"(75x63mm)**	2.007	0.1067	6.63	4.5	0.27	0.23	0.59	0.59	4.2	**$ 127.90**
27NRSP906311MM	**A**	**11**	**3" x 2" (90x63mm)**	2.358	0.1118	6.63	4.5	0.32	0.23	0.59	0.59	4.4	**$ 254.10**
27NRSP907511MM	**B**	**11**	**3" x 2½" (90x75mm)**	2.459	0.1118	6.63	6.63	0.32	0.27	0.59	0.59	4.4	**$ 254.10**
27NRSP1106311MM	**A**	**11**	**3½" x 2" (110x63mm)**	6.463	0.301	8.62	4.5	0.39	0.23	0.59	0.59	7	**$ 298.40**
27NRSP1107511MM	**A**	**11**	**3½" x 2½" (110x75mm)**	4.222	0.2193	8.62	6.63	0.39	0.27	0.59	0.59	5.1	**$ 298.40**
27NRSP1109011MM	**A**	**11**	**3½" x 3" (110x90mm)**	4.185	0.2322	8.62	6.63	0.39	0.32	0.59	0.59	5.4	**$ 298.40**
27NRSP1259011MM	**A**	**11**	**4" x 3" (125x90mm)**	5.349	0.2494	8.62	6.63	0.45	0.32	0.59	0.59	5.8	**$ 372.70**
27NRSP12511011MM	**B**	**11**	**4" x 3½" (125x110mm)**	5.557	0.2494	8.62	8.63	0.45	0.39	0.59	0.59	5.8	**$ 372.70**
27NRSP1609011MM	**A**	**11**	**6" x 3" (160x90mm)**	7.884	0.5283	10.75	6.63	0.57	0.32	0.59	0.59	7.9	**$ 720.00**
27NRSP16011011MM	**A**	**11**	**6" x 3½" (160x110mm)**	7.881	0.5283	10.75	8.62	0.57	0.39	0.59	0.59	7.9	**$ 720.00**
27NRSP16012511MM	**A**	**11**	**6" x 4" (160x125mm)**	8.286	0.5283	10.75	8.62	0.57	0.45	0.59	0.59	7.9	**$ 720.00**
27NRSP20016011MM	**A**	**11**	**8" x 6" (200x160mm)**	11.412	0.7432	12.75	10.75	0.73	0.57	0.59	0.59	7.9	**$ 958.40**
27NRSP25016011MM	**A**	**11**	**10" x 6" (250x160mm)**	14.62	0.9414	14	10.75	0.89	0.57	0.59	0.59	8.3	**$ 1,131.40**
27NRSP25020011MM	**A**	**11**	**10" x 8" (250x200mm)**	15.001	0.9414	14	12.75	0.89	0.73	0.59	0.59	8.3	**$ 1,131.40**
27NRSP31516011MM	**A**	**11**	**12" x 6" (315x160mm)**	23.932	1.2889	16	10.75	1.13	0.57	0.59	0.59	8.7	**$ 1,490.80**
27NRSP31520011MM	**A**	**11**	**12" x 8" (315x200mm)**	29.252	1.837	16	12.75	1.13	0.73	0.59	0.59	12.4	**$ 1,490.80**
27NRSP31525011MM	**A**	**11**	**12" x 10" (315x250mm)**	30.906	1.8815	16	14	1.13	0.89	0.59	0.59	12.7	**$ 1,490.80**

PREINSULATED CONCENTRIC REDUCER FOR SIMULTANEOUS BUTT WELDING

Range: From ø 3½ ″x 3″ to ø 12″x 10″
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet

(A)



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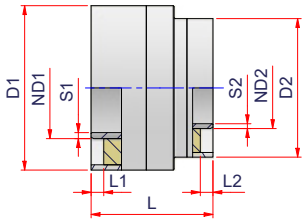

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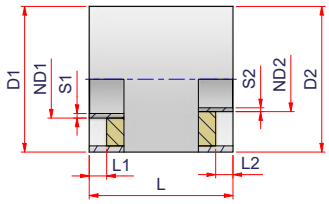
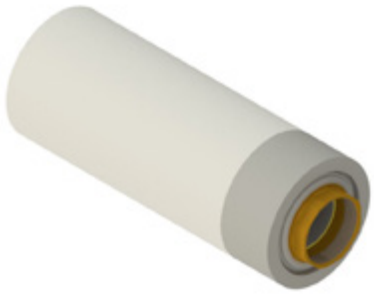


SDR 17

Code	Type	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D2	S1	S2	L1	L2	L	Price Each
27NRSP1109017MM	**A**	**17**	**3½″ x 3″ (110x90mm)**	5.068	0.2322	8.62	6.63	0.25	0.21	0.59	0.59	5.4	**$ 298.40**
27NRSP1259017MM	**A**	**17**	**4″ x 3″ (125x90mm)**	5.223	0.2494	8.62	6.63	0.29	0.21	0.59	0.59	5.8	**$ 372.70**
27NRSP12511017MM	**B**	**17**	**4″ x 3½″ (125x110mm)**	7.165	0.2494	8.62	8.63	0.29	0.25	0.59	0.59	5.8	**$ 372.70**
27NRSP1609017MM	**A**	**17**	**6″ x 3″ (160x90mm)**	7.355	0.5283	10.75	6.63	0.37	0.21	0.59	0.59	7.9	**$ 718.80**
27NRSP16011017MM	**A**	**17**	**6″ x 3½″ (160x110mm)**	7.954	0.5283	10.75	8.62	0.37	0.25	0.59	0.59	7.9	**$ 718.80**
27NRSP16012517MM	**A**	**17**	**6″ x 4″ (160x125mm)**	10.914	0.5283	10.75	8.62	0.37	0.29	0.59	0.59	7.9	**$ 718.80**
27NRSP20016017MM	**A**	**17**	**8″ x 6″ (200x160mm)**	13.999	0.7432	12.75	10.75	0.46	0.37	0.59	0.59	7.9	**$ 958.40**
27NRSP25016017MM	**A**	**17**	**10″ x 6″ (250x160mm)**	14.32	0.9414	14.00	10.75	0.58	0.37	0.59	0.59	8.3	**$ 1,131.40**
27NRSP25020017MM	**A**	**17**	**10″ x 8″ (250x200mm)**	21.223	0.9414	14.00	12.75	0.58	0.46	0.59	0.59	8.3	**$ 1,131.40**
27NRSP31516017MM	**A**	**17**	**12″ x 6″ (315x160mm)**	24.311	1.2889	16.00	10.75	0.73	0.37	0.59	0.59	8.7	**$ 1,490.80**
27NRSP31520017MM	**A**	**17**	**12″ x 8″ (315x200mm)**	25.316	1.837	16.00	12.75	0.73	0.46	0.59	0.59	12.4	**$ 1,490.80**
27NRSP31525017MM	**A**	**17**	**12″ x 10″ (315x250mm)**	28.455	1.8815	16.00	14.00	0.73	0.58	0.59	0.59	12.7	**$ 1,490.80**

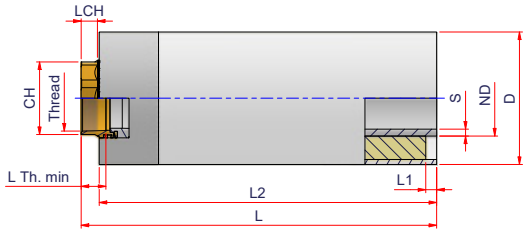
All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.



PREINSULATED FEMALE THREADED LONG SPIGOT ADAPTER

Range: From ø2 ″x 1″½″ to ø 4″x 4″
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT Brass + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet



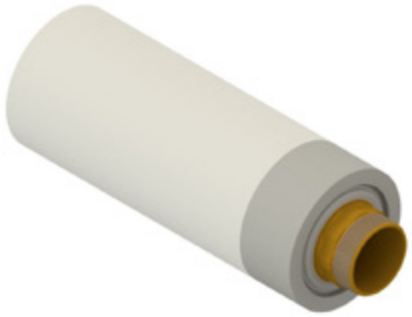
SDR 11

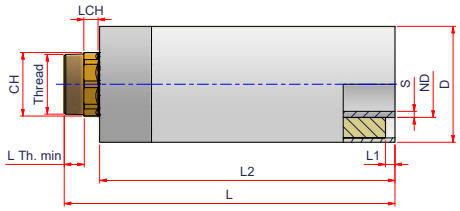
Code	Weldable SDR	Ø ND x Thr.	Weight lbs/pc	Volume ft³/pc	D	S	Thread	L Th. min	L1	L2	L	CH	LCH	Price Each
27NSPRFF1163112NPT	**11**	**2″(63mm) x 1″½npt**	9.170	0.2377	4.5	0.23	1 ½″ NPT	0.68	0.59	19.69	20.28	2.16	0.59	**$ 459.80**
27NSPRFF11632NPT	**11**	**2″(63mm) x 2npt**	10.88	0.2399	4.5	0.23	2" NPT	0.93	0.59	19.69	20.47	2.56	0.79	**$ 471.90**
27NSPRFF1175212NPT	**11**	**2″½ (75mm) x 2″½npt**	22.96	0.5242	6.62	0.27	2 ½″ NPT	1.13	0.59	19.69	20.67	3.15	0.98	**$ 810.70**
27NSPRFF11903NPT	**11**	**3″ (90mm) x 3npt**	22.59	0.5232	6.62	0.32	3" NPT	1.31	0.59	19.69	20.63	3.74	0.94	**$ 931.70**
27NSPRFF111104NPT	**11**	**4″ (110mm) x 4npt**	37.64	0.8974	8.62	0.39	4" NPT	1.55	0.59	19.69	20.87	4.72	1.18	**$ 1,101.10**

PREINSULATED MALE THREADED LONG SPIGOT ADAPTER

Range: From ø2 ″x 1″½″ to ø 4″x 4″
Fitting structure: Reducer + PUF + PPR Jacket
Material: PP-RCT Brass + PUF + PPR
Color: Grey carrier + White jacket
Welding system:

Note: **BFX2** not weldable on pipes shorter than 6 feet





SDR 11

Code	Weldable SDR	Ø ND x Thr.	Weight lbs/pc	Volume ft³/pc	D	S	Thread	L Th. min	L1	L2	L	CH	LCH	Price Each
27NSPRFM1163112NPT	**11**	**2″(63mm) x 1″½npt**	9.292	0.248	4.5	0.23	1½″ NPT	0.75	0.59	19.69	21.16	1.97	0.59	**$ 459.80**
27NSPRFM11632NPT	**11**	**2″(63mm) x 2npt**	10.952	0.2515	4.5	0.23	2" NPT	0.92	0.59	19.69	21.46	2.36	0.71	**$ 471.90**
27NSPRFM1175212NPT	**11**	**2″½ (75mm) x 2″½npt**	23.771	0.5496	6.62	0.27	2½″ NPT	1.05	0.59	19.69	21.67	3.15	0.79	**$ 810.70**
27NSPRFM11903NPT	**11**	**3″ (90mm) x 3npt**	23.556	0.5531	6.62	0.32	3" NPT	1.17	0.59	19.69	21.81	3.54	0.91	**$ 931.70**
27NSPRFM111104NPT	**11**	**4″ (110mm) x 4npt**	39.721	0.9598	8.62	0.39	4" NPT	1.41	0.59	19.69	22.32	4.53	1.18	**$ 1,101.10**

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We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

PREINSULATED LONG SPIGOT BALL VALVE

Range: From ø1″ to ø3½″

Fitting structure: 90° Redu + PUF + PPR Jacket

Material: PP-RCT + PUF + PPR

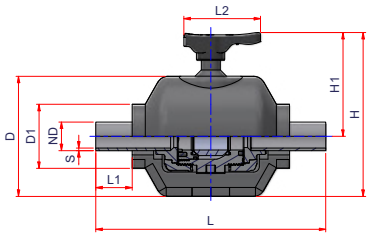
Color: Grey + External Black

Welding system: EF BF

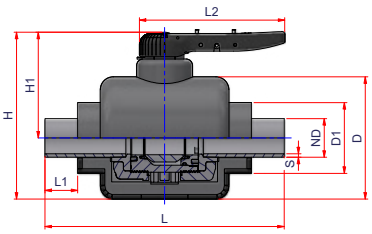
(A)

(B)

(A)



(B)



SDR 11

Code	Type	Body Type	Ø ND	Weight lbs/pc	Volume ft³/pc	D1	D	S	L1	L2	L	H1	H	Price Each
27NRSPPRCTSAP32	**A**	**1″**	**1″ (32mm)**	1.138	0.2238	3.5	5.12	0.14	2	3.64	10.85	4.28	6.96	**$ 215.40**
27NRSPPRCTSAP40	**A**	**1″**	**1¼″ (40mm)**	1.209	0.2238	3.5	5.12	0.15	2	3.64	10.85	4.28	6.96	**$ 267.50**
27NRSPPRCTSAP50	**A**	**2″**	**1½″ (50mm)**	3.821	0.8508	4.5	8.27	0.18	2.5	5.28	15.83	7.1	11.23	**$ 305.60**
27NRSPPRCTSAP63	**A**	**2″**	**2″ (63mm)**	4.048	0.8508	4.5	8.27	0.23	2.5	5.28	15.83	7.1	11.23	**$ 372.20**
27NRSPPRCTSAP75	**A**	**2½″**	**2½″ (75mm)**	4.235	1.2272	6.62	11.22	0.27	3	5.28	16.83	7.1	11.23	**$ 884.00**
27NRSPPRCTSAP90	**B**	**3″**	**3″ (90mm)**	14.255	2.2889	6.62	11.22	0.32	3	13.35	21.95	10.45	16.06	**$ 1,125.30**
27NRSPPRCTSAP110	**B**	**3½″**	**3½″ (110mm)**	14.513	2.542	8.62	11.42	0.39	4	13.35	23.95	10.45	16.06	**$ 1,909.40**

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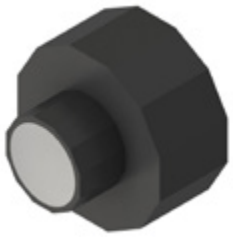
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

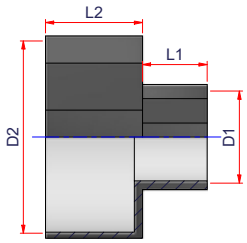
3. CLOSING SYSTEMS



WATER SEAL FOR WATERPROOFING OF PIPE ENDS

It needs to be heat shrank onto the pipe

Range: From ø1" to ø12"



Code	Internal Ø ND PP-RCT Pipe	External ø Pipe	D1 max	D1 min	D2 max	D2 min	L1	L2	Price Each
27NWS3290	**1" (32mm)**	3"IPS	1.77	0.98	4.13	2.95	1.57	2.36	**$ 77.00**
27NWS40110	**1¼" (40mm)**	3"IPS	1.77	0.98	4.13	2.95	1.57	2.36	**$ 77.00**
27NWS50110	**1½" (50mm)**	4"IPS	2.56	0.98	4.92	2.95	1.57	2.36	**$ 77.00**
27NWS63125	**2" (63mm)**	5"IPS	2.56	0.98	4.92	2.95	1.57	2.36	**$ 88.00**
27NWS90160	**2½-3" (75/90mm)**	6"IPS	4.13	1.65	7.01	4.92	1.97	3.15	**$ 121.00**
27NWS125225	**3½-4" (110/125mm)**	8"IPS	5.04	3.03	8.66	5.51	1.97	3.15	**$ 187.00**
27NWS200315	**6-8" (160/200mm)**	10"-12"IPS	9.29	3.54	13.19	6.30	1.97	3.15	**$ 225.50**
27NWS250355	**10" (250mm)**	14"IPS	11.42	7.87	16.54	12.40	1.97	3.15	**$ 319.00**
27NWS315400	**12" (315mm)**	16"IPS	11.42	7.87	16.54	12.40	1.97	3.15	**$ 330.00**

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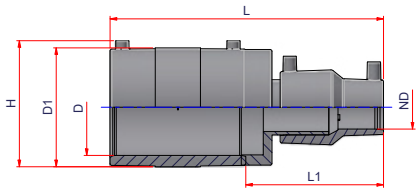
TERMINATION FITTING

Range: From ø1″ to ø12″
Material: PP-RCT
Color: Grey



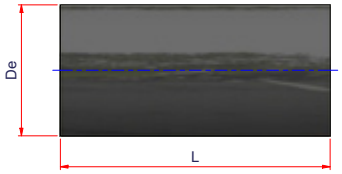
Code	Weldable SDR	Ø ND	Weight lbs/pc	Volume ft³/pc	D	D1	L1	L	H	Price Each
27NRTFAP32	**11**	**1″ (32mm)**	1.838	0.1576	3.5	4.45	6.2	11.95	5.12	**$ 242.00**
27NRTFAP40	**11**	**1¼″ (40mm)**	1.855	0.1578	3.5	4.45	6.2	11.97	5.12	**$ 242.00**
27NRTFAP50	**11**	**1½″ (50mm)**	2.489	0.2159	4.5	5.35	6.2	12.30	5.67	**$ 242.00**
27NRTFAP63	**11**	**2″ (63mm)**	2.773	0.2315	4.5	5.35	7.1	13.19	5.67	**$ 302.50**
27NRTFAP75	**11**	**2½-3″ (75/90mm)**	5.054	0.4988	6.63	7.48	7.64	14.53	7.93	**$ 363.00**
27NRTFAP90	**11**	**3½-4″ (110/125mm)**	5.443	0.507	6.63	7.48	7.9	14.77	7.93	**$ 423.50**
27NRTFAP110	**11**	**6-8″ (160/200mm)**	8.706	0.808	8.63	9.13	8.7	15.98	9.57	**$ 484.00**
27NRTFAP125	**11**	**10″ (250mm)**	8.997	0.7858	8.63	9.13	8.26	15.54	9.57	**$ 726.00**
27NRTFAP160	**11**	**6″ (160mm)**	27.212	2.1701	10.75	11.93	16.6	26.26	11.97	**$ 847.00**
27NRTFAP200	**11**	**8″ (200mm)**	33.377	2.8646	12.75	15	12	22	15	**$ 968.00**
27NRTFAP250	**11**	**10″ (250mm)**	57.778	4.5486	14	17.71	12.5	25.06	17.71	**$ 1,815.00**
27NRTFAP315	**11**	**12″ (315mm)**	63.026	5.1681	16	19.29	12.7	24	19.29	**$ 2,299.00**

DEBEADER EXTERNAL

Code	Size Ø ND	Price Each
00DEBEADER	6" ÷ 16"	POA

PES -SHRINKABLE SLEEVE

Range: ø1" ÷ ø12" mm



Code	De max	L	ND1	ND2	Price Each
00NPTR324090	3.50	8.9	1.00 /1.25	3.50	$ 42.00
00NPTR5063110	4.50	8.9	1.50 /2.00	4.50	$ 42.00
00NPTR7590160	6.62	11.9	2.50 /3.00	6.62	$ 73.00
00NPTR110125200	8.62	17.8	4.00 /5.00	8.62	$ 115.50
00NPTR200280	10.75	17.8	6.00	10.75	$ 160.00
00NPTR250315400	16.00	17.8	8.00 /10.00/12.00	12.75/14.00/16.00	$ 210.00

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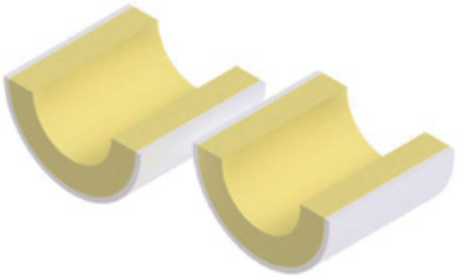
SELF AMALGAMATING BLACK TAPE TO PROTECT WELDING BEAD FROM UV

Range: 2″ and ø4″

Code	Length (inches)	Width	Notes	Price Each
00TAPE02	75 ft	2″	White color	$ 206.25
00TAPE04	50 ft	4″	Black Color	$ 275.00

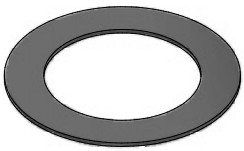


SINGLE SEALING JOINT KIT INCLUDING 2 PUF RIGID FOAM HALF SHELLS AND HEAT-SHRINKING OVERCASING

Range: From ø1″ to ø12″

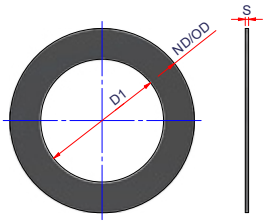
Code	Ø ND	Length (inches)	Price Each
27NKITBFAP32	1″ (32mm)	5.08	$ 49.50
27NKITBFAP40	1¼″ (40mm)	5.08	$ 49.50
27NKITBFAP50	1½″ (50mm)	6.35	$ 49.50
27NKITBFAP63	2″ (63mm)	6.35	$ 55.00
27NKITBFAP75	2½″ (75mm)	7.62	$ 63.80
27NKITBFAP90	3″(90mm)	7.62	$ 71.50
27NKITBFAP110	4″ (110mm)	10.16	$ 90.20
27NKITBFAP125	5″ (125mm)	10.16	$ 121.00
27NKITBFAP160	6″ (160mm)	10.16	$ 154.00
27NKITBFAP200	8″ (200mm)	11.43	$ 247.50
27NKITBFAP250	10″ (250mm)	12.70	$ 374.00
27NKITBFAP315	12″ (315mm)	15.24	$ 467.50

4. EQUIPMENT



GAP INSULATOR FILLER DISK

Range: From ø1" to ø12"
Color: Grey
Packaging: Multiples of 10



Code	Ø ND	Weight lbs/pc	Volume ft³/pc	OD	D1	S	Price Each
27NDISKAP32	**3"IPS**	0.001	0.0011	3.43	1.29	0.16	**$ 1.10**
27NDISKAP40	**3"IPS**	0.001	0.0011	3.43	1.61	0.16	**$ 1.10**
27NDISKAP50	**4"IPS**	0.001	0.0018	4.43	2.01	0.16	**$ 1.10**
27NDISKAP63	**4"IPS**	0.001	0.0018	4.43	2.52	0.16	**$ 1.10**
27NDISKAP75	**6"IPS**	0.003	0.004	6.56	2.99	0.16	**$ 1.10**
27NDISKAP90	**6"IPS**	0.002	0.004	6.56	3.58	0.16	**$ 2.20**
27NDISKAP110	**8"IPS**	0.004	0.0068	8.56	4.37	0.16	**$ 2.20**
27NDISKAP125	**8"IPS**	0.004	0.0068	8.56	4.98	0.16	**$ 2.20**
27NDISKAP160	**10"IPS**	0.006	0.0104	10.6	6.36	0.16	**$ 3.30**
27NDISKAP200	**12"IPS**	0.008	0.0149	12.68	7.93	0.16	**$ 3.30**
27NDISKAP250	**14"IPS**	0.007	0.0179	13.9	9.92	0.16	**$ 4.40**
27NDISKAP315	**16"IPS**	0.008	0.0234	15.91	12.48	0.16	**$ 4.40**

PAIR OF PINS WITH EXTENDED LENGTH

Code	Nominal Size	Pack		Price Each
00CONN44L	4 mm Female Long	1+1	Adapters for preinsulated fittings	**$ 106.00**

All measures are in inches unless otherwise mentioned; (Values in parenthesis are in mm x mm)
We reserve the right to vary dimensions without notice; check the web site for the updated dimensions.

AUTOMATIC MULTIFUNCTION WELDING UNIT WITH BARCODE SCANNER

TECHNICAL CHARACTERISTICS:

Conforms with CE requirements
Conforms with UNI 10566 – MULTIFUNCTION type
Barcode reader conforming with ISO 13950 and manual setting of time and voltage.
Illuminated display with 4 lines, 20 characters each
Memory for 10.000 welding cycles
8 Memories with 500 parameters each for pressure tests
Fitting working range up to 100 Amp. maximum peak
Ambient temperature sensor
Power supply: 230V -115V - 50Hz/60Hz
Maximum power: 2500 VA
Output voltage: from 5 to 42 V
Power cable: L= 13.1 ft
Welding cable: L= 13.1 ft
Connectors - ø 4mm (art. 00S8305) with adaptors for ø4.7 mm (00S8203)
Dimensions: 13"x 18"x 8"H
Weight: 55.44 lb
Degree of protection: IP 54
Working temperature: from 0°F to + 131°F

BASIC EQUIPMENT SUPPLIED WITH THE WELDING UNIT

- User's handbook on hardware support and quick guide on paper
- USB key (4GB) for data download (welding report and pressure test)
- Shipping box
- Scanner for barcode input
- Adapters with ø4,7 mm pins

ADDITIONAL EQUIPMENT

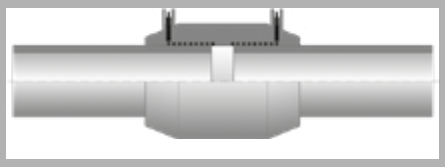
- 00GPS: Global Positioning System
- 00SENS: Pressure test unit

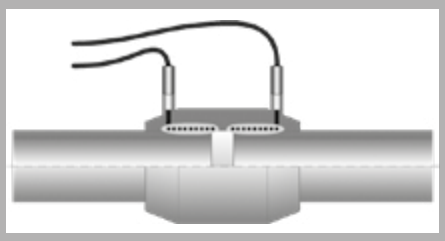
Code	Voltage	Nominal Size (Service line) IPS	Pack.	Weight lb./p.	Volume ft³/p.	Price Each
00E9001/110	110V	**½"÷ 24"**	1	55.44	0.1872	**$ 5,750.00**
00E9001/230	230V	**½"÷ 24"**	1	55.44	0.1872	**$ 5,750.00**

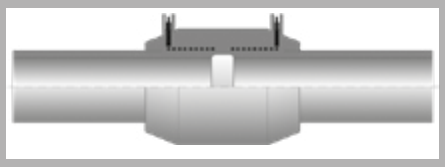

AllPro™
NIRON Clima

NIRON PREINSULATED PIPING SYSTEM

WELDING SYSTEMS INSTRUCTIONS







WELDING BARCODE (in conformity with standard ISO13956)

Scan the barcode with the barcode scanner or manually enter the welding parameters of time and voltage reported on the barcode. The welding procedure may be carried out by using the multifunction welding unit in automatic mode (with barcode scanner) or in manual mode. When performing automatic welding, always check time and voltage parameters on the display after scanning the barcode. In case of manual welding, use time and voltage parameters indicated on the barcode. If the welding unit selected is not a Nupi Americas unit, and does not perform welding time compensation according to ambient temperature, use the parameters on the bag label.

EF

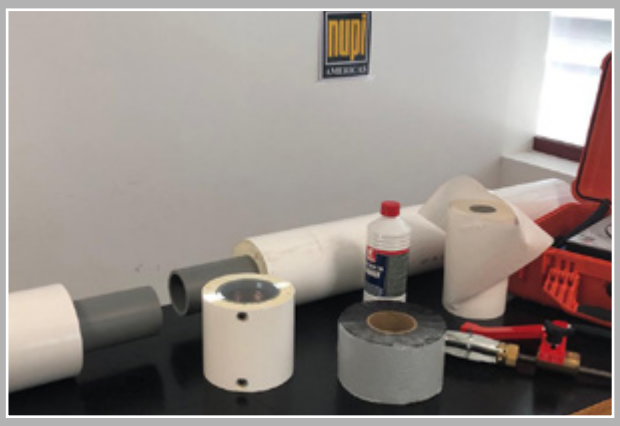
ELECTROFUSION WELDING

Electrofusion fittings and couplings are manufactured with a molded-in-place resistance wire which can be connected to suitable welding machines by means of a set of connecting wire leads.

When voltage is applied and electrical energy is circulated, this creates resistance which generates the heat needed to melt the PP-RCT material.

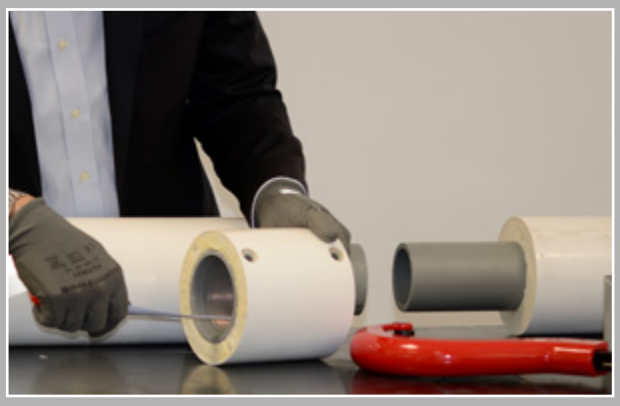
Energy is directly transmitted to the contact surface between the fitting and the pipe causing heat welding of the parts.

The main features of NIRON electrofusion fittings are the high quality, repeatability and the reliability of the joints. After a joint is completed and is allowed to cool, the joint is homogeneous, strong, safe and reliable.

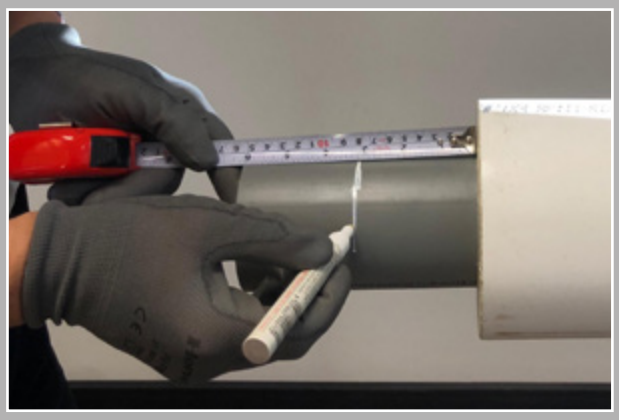


Use NIRON welding units (when possible) and follow the instructions below to obtain a reliable weld.

Needed material: meter, pipe cutter, scraper, Isopropyl detergent, white wipe cloth, pen, welding unit for electrofusion fitting, filler disk.



Measure the insertion length of the pipe inside the fitting.

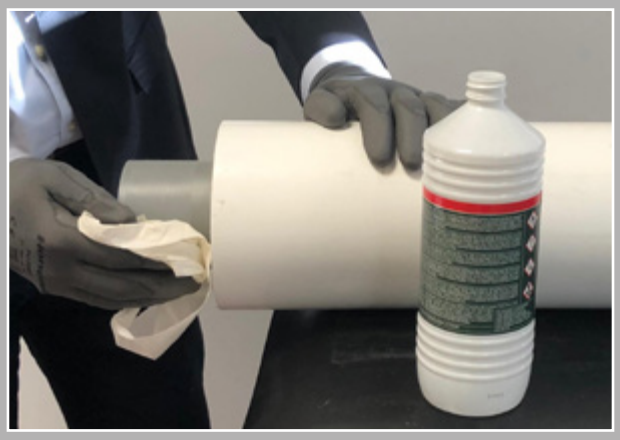


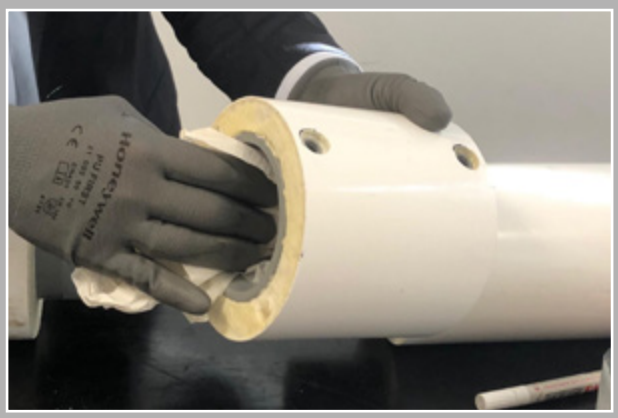
Mark the welding insertion depth on the pipe (equal to the length of the electrofusion fitting socket) using a sharpie. Note that unlike the marking step required for scraping. this mark should be exactly the length required for insertion and welding. The scraped marks should extend at least 3/8 inches past this mark.

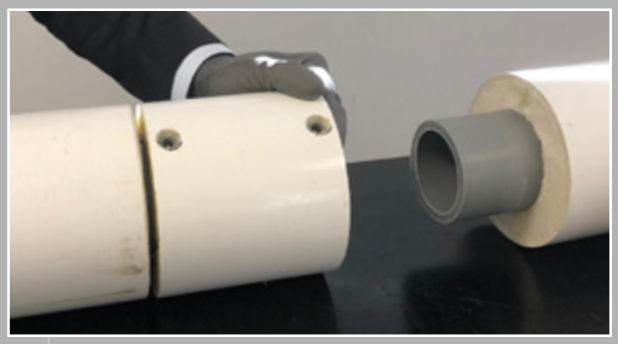
Cut the pipes at right angles with a pipe cutter.

ATTENTION!

Note that the cutting of Niron PP-RCT pipes to result in a square cut is a critical step in the process of electrofusion.







Scrape the pipe or fitting spigot surface uniformly with the appropriate pipe scraper. Scrape at least 3/8" (1 cm) beyond the insertion length of the fitting to comple-telyremove the oxidized polypropylene layer. The pipe or fitting spigot surface must be marked with a sharpie prior to scraping and the mark must be removed by scraping (The depth of insertion mark will be reapplied after cleaning). The pipe/spigot surface must be scraped to a minimum depth of 0.2mm (0.0079 inch) in order to be considered properly scraped. If the pipe/ spigot fits too tightly into thesocket, the scraping step should be repeated until a light press fit is obtained.

Niron mechanical scrapers are highly recommended. Hand scrapers can be used only if proper technique is followed to result in a minimum of 0.2 mm (0.0079 inches) removed.

ATTENTION!

The pipe/spigot surface must be scraped to a minimum depth of 0.2mm (0.0079 inch) in order to be considered properly scraped.Additional scraping can be performed, if necessary, in order to achieve a light press fit of the pipe/ spigotinto the socket.

Remove any mud, dust, grease or other traces of dirt from the pipe or spigot ends of fittings to be welded and the welding area of the interior of the fitting or coupling. Use only isopropanol (Isopropyl Alcohol) and a soft clean wiping cotton cloth (note that for best results, use the PUF form of Isopropyl Alcohol available, preferably 99% grade where available). Wait until the cleaned parts are completely dry.

Insert the pipe or spigot ends into the fitting up to the marked insertion length. In the case of welding parts that must be forced into alignment, or are substantially unsupported (including vertical risers), use an Niron alignment tool in order to maintain the position. Be sure to avoid any mechanical stress during the welding procedure and cooling time.

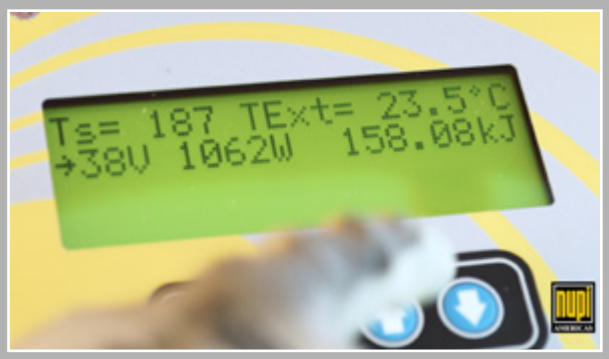
SUPPLEMENTAL PROCEDURE FOR COLD TEMPERATURE SERVICE:

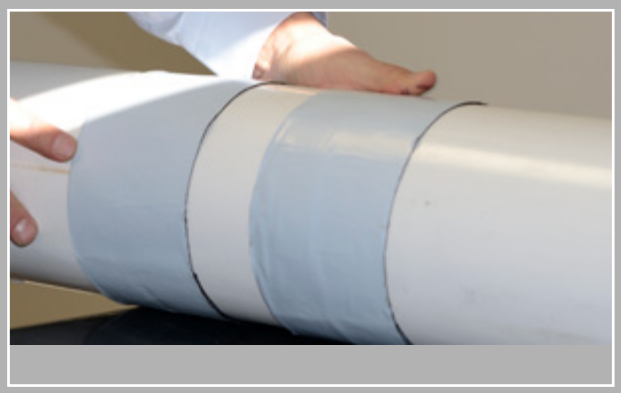
For applications involving chilled water secondary glycol cooling or any cold temperature applications. it is necessary to use a gap insulator to minimize the possibility of air space. A gap insulator will eliminate the majority of trapped air space, thus eliminating the presence of air, which in turn minimizes any possibility of condensation.

Position the donut-shaped gap insulators as shown in the accompanying photograph. The gap insulator is made from a closed cell polyethylene foam, and can be compressed as needed to eliminate any air gap and insure a tight fit.

A close-up of the resulting assembly on side of the coupling shows the position of the gap insulator when properly positioned at a coupling or other fitting.

After the gap on both sides of the coupling is fitted with the gap insulator. welding can proceed as described in the previous pages. Scan the barcode (not shown) and proceed with the normal welding procedure for a Niron PP-RCT carrier coupling.





ATTENTION!

AVOID ANY MECHANICAL STRESS ON THE WELDING AREA DURING THE WELDING PROCEDURE AND THE COOLING TIME.

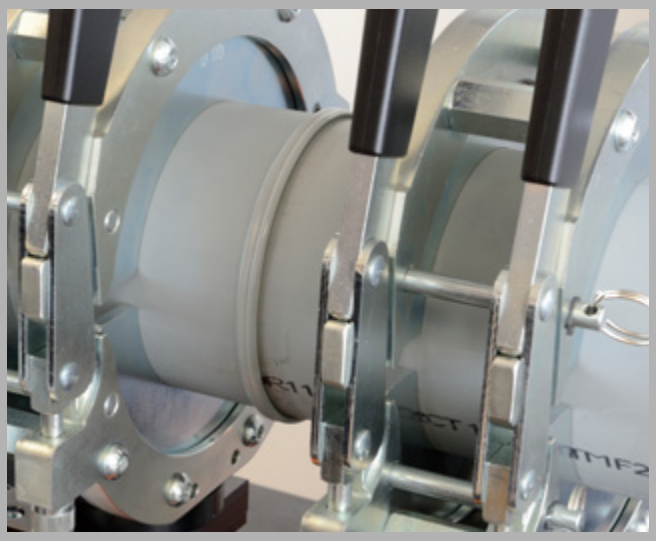
IMPORTANT

Please refer to the user's manual of the welding machine for its correct use.

After the weld cycle is successfully completed, note the weld number and the last three digits of the serial number of the Niron welding unit onto the coupling or fitting. The wires can be disconnected and the machine may be immediately put into use to weld another coupling or fitting.

After the cooling cycle is completed, and the syste has been successfully tested. the joint seams can be covered with the Niron Clima All-Pro white colored tape. Peel the backing from the tape and apply the tape around the entire circumferential seams. Care should be taken to apply the tape so that it is evenly place over the seams.

Upon completion, the joint areas will appear as shown on the left. Note that there are no longer any signs of the circumferential seams which remain visible after proper application. For extreme temperature services, the seams may be covered using Niron electrofusion couplings in lieu of the tape. This is especially important to consider in underground systems where the system design temperature of the carrier pipe exceeds 140°F.



BF

BUTT FUSION WELDING

INTRODUCTION

The butt welding process consists of the joining of two components (pipes and/or fittings) of equal diameter and thickness in which the surfaces to be welded are heated until melting by contact with a heating element and then, after its removal, are axially (butt) joined by welding with an applied force. Like Polyfusion and Electrofusion, with butt fusion welding there is no additional contribution or use of filler materials (i.e. welding rod or flux) required to complete the weld.

The instructions below are for guidance only. Unlike socket fusion, butt fusion welding implies that the operators are suitably trained on the use of specific welding machines to be used and have a thorough knowledge of the procedures to be performed. Training is machine-specific, as many details will vary based on specific machine used.

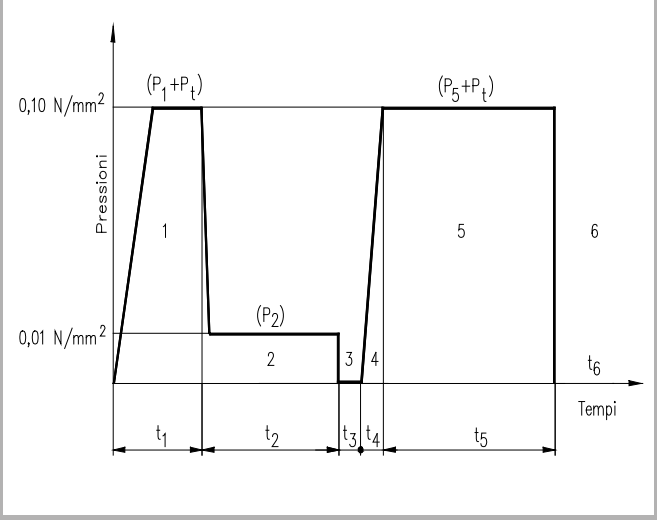
RECOMMENDATIONS AND WARNINGS

To perform a proper fusion procedure and ensure a reliable joint. it is necessary to remember the following steps:

- The working temperature of the heating element shall be checked using a calibrated contact thermometer. This measurement shall be done after about 10 minutes after the nominal temperature is reached. allowing the heating element to heat up evenly over the entire section.
- Check the surface of the heating element (integrity of the non-stick layer) and properly clean it by using soft paper or cloth. free of fibers.
- Check for the proper functioning of the welding machine.
- Check the clamp supports of the welding machine to make sure that the pieces to be welded are properly aligned and the surfaces touching each other are parrallel.
- Check the drag force of the movable bed to be sure that it is free to move and that it can handle the load required to weld the pipes and/ or fi ttings.
- Check the efficiency of the measuring equipment (pressure gauge and timer).
- Check that the pipes and/or fittings to be welded are of the same diameter and the same thickness (SDR).
- The planing tool provided with the welding machine shall plane and align the pipes and fittings to be welded and also absorb the pressures developed during the welding process without damaging the pipe and fitting ends.
- The welding machine should be prepared for use according to the manufacturer's instructions.

ATTENTION!

Each manufacturer of BUTT FUSION WELDING equipment publish his/ her own reference literature based on the working parameters of the equipment produced. The user SHALL REFER to this specific literature for every detail not expressly stated and for any reference information regarding the equipment.



WELDING PHASES

Phase 1: Approaching and preheating (t_1)
Phase 2: Heating (t_2)
Phase 3: Removing the heating element (t_3)
Phase 4: Reaching the welding pressure (t_4)
Phase 5: Welding (t_5)
Phase 6: Cooling (t_6)

NOTE!
Prior to welding the proper steps must be followed to clean and plane the pipe ends and to ensure proper match-up.

Phase 1: Approaching and preheating

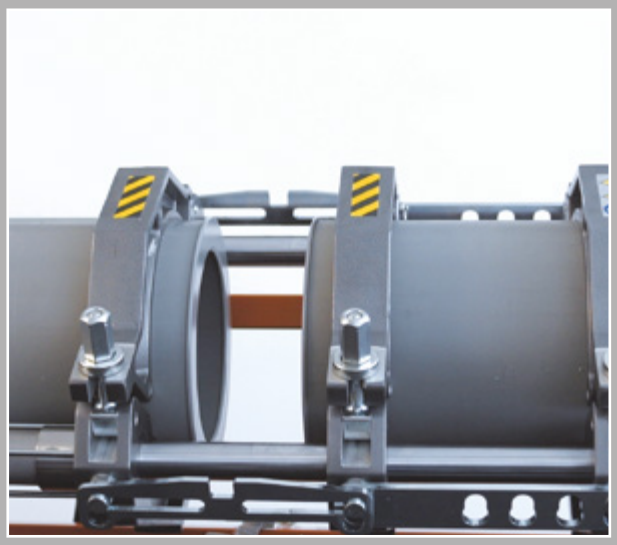
Place the heating element on the welding machine, taking care to insert it properly in order to ensure its stability on the supports of the machine base.
Place the edges close to the heating element and apply the initial welding force pressure (P1 + Pt) for a time t_1 and wait until the bead has reached height (h) on both welding edges, as shown in the Table 7.

Phase 2: Heating

Once the bead has reached height (h), the contact pressure between the edges and the heating element is reduced to a low enough pressure just to insure contact with the heating element during the heating phase. Keep the parts in contact with the heating element for the time t_2 (Table 7).

Phase 3: Removing the heating element

Remove the heating element, making sure not to damage the edges of the two parts to be welded. The removal must be rapid to avoid excessive cooling of the heated edges. The changeover time t_3, is reported in seconds, is the amount of time from the removal of the heating element to the contact with the edges (phase 4). The maximum allowable changeover time varies according to wall thickness as shown in Table 7.



Phase 4: Reaching the welding pressure

Once the heating element has been removed, bring the edges into contact. Gradually increase pressure until the value (P5 + Pt) (phase 5) is reached so as to prevent excessive leakage of melted material from the edges in contact. Reaching the final welding force [welding pressure (P5 + Pt)] must take the amount of time t_4 shown in Table 7.

Phase 5: Welding

Keep the edges in contact under pressure (P_5 + Pt) for a time t_5, expressed in minutes, as shown in table 7, unless the welding is performed in-line (e.g. on a pipe rack, on pipe hangers, performed on a vertical line, etc.) in which case the full welding time t_6 must be observed while the pipes are clamped.

Phase 6: Cooling

Once the welding time is over (phase 5), the welded joint can be removed from the welding machine, without being subjected to significant stress. Allow the welded joint to completely cool to ambient temperature.

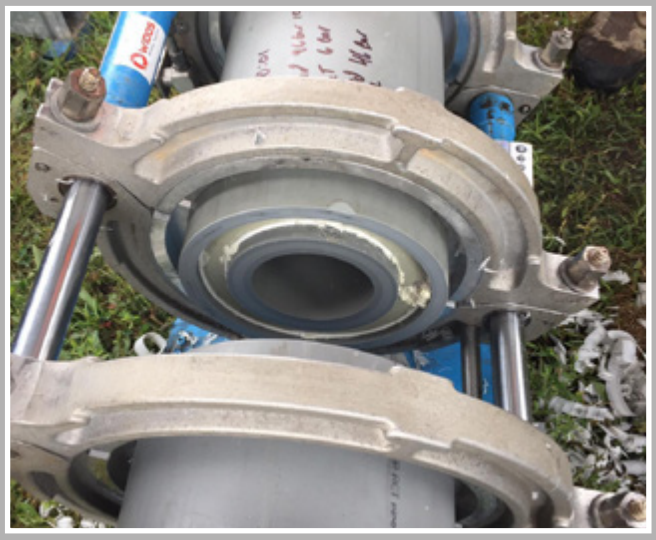
TABLE 7: BUTT WELDING PARAMETERS FOR NIRON PP-RCT PIPING

SIZE OF PIPE	SDR	INITIAL WELDING FORCE LBS (*)	INITIAL BEAD SIZE INCHES h	HEAT SOAK TIME t2 (s)	MAX CHANGE OVER TIME t3 (s)	REACH FULL WELD PRESSURE t4 (s)	WELDING FORCE LBS (*)	NORMAL COOLING TIME MINUTES t5	IN-LINE COOLING TIME MINUTES (<60°F/61-80°F/>81°F)
2" (63mm)	7.3	33	1/32	99	5	6	33	3.5	7.1/9.0/11.5
2½" (75mm)	7.3	47	1/32	116	6	7	47	4.5	8.3/10.4/13.4
3" (90mm)	7.3	68	1/32	138	7	11	68	5	9.7/12.3/15.9
4" (110mm)	7.3	101	1/32	166	8	9	101	6.5	11.5/14.6/19.2
5" (125mm)	7.3	130	1/32	187	9	16	130	7.5	12.8/16.4/21.7
6" (160mm)	7.3	214	1/16	233	10	19	214	9.5	16.1/20.5/27.3
8" (200mm)	7.3	334	1/16 - 3/32	282	11	23	334	12	20.0/25.3/33.7
10" (250mm)	7.3	522	1/16 - 3/32	339	13	27	522	15	25.0/31.5.44.0
12" (315mm)	7.3	828	3/32	403	16	37	828	18	31.3/39.7/52.6
2" (63mm)	11	23	1/64	66	5	6	23	2.5	5.0/5.7/8.0
2½" (75mm)	11	33	1/64	79	6	7	33	3	6.0/7.3/9.3
3" (90mm)	11	47	1/32	94	6	8	47	3	6.8/8.6/10.9
4" (110mm)	11	71	1/32	114	7	9	71	4	8.1/10.2/13.1
5" (125mm)	11	92	1/32	128	7	11	92	5	9.0/11.4/14.7
6" (160mm)	11	149	1/32	160	8	13	149	6	11.1/14.2/18.6
8" (200mm)	11	233	1/32	198	9	17	233	7	13.5/17.3/23.0
10" (250mm)	11	365	1/16	240	10	19	365	9	16.7/21.2/28.3
12" (315mm)	11	579	1/16 - 3/32	300	11	24	579	12	21.0/26.5/35.0
2" (63mm)	17	16	1/64	45	5	6	16	1.5	4.0/5.0/6.5
2½" (75mm)	17	22	1/64	54	5	6	22	2	4.0/5.0/6.5
3" (90mm)	17	32	1/64	60	5	6	32	2	4.6/5.8/7.5
4" (110mm)	17	47	1/64	75	6	7	47	2.5	5.6/7.0/9.0
5" (125mm)	17	59	1/32	85	6	7	59	3	6.2/8.0/10.0
6" (160mm)	17	100	1/32	108	6	8	100	4	7.7/9.7/12.4
8" (200mm)	17	156	1/32	132	7	11	156	5	9.3/11.8/15.2
10" (250mm)	17	244	1/32	165	8	13	244	6	11.2/14.3/18.79
12" (315mm)	17	388	1/32	200	9	17	388	8	13.7/17.6/23.4

(*) For pipe with "FG" layer the pressure must be increased of 0,85 ± 0,06 pound/inch.

Note:

1. Butt Welding of Niron PP-RCT is to be performed at a heating element temp of 410°F ± 18°F.
2. Cooling time represents the time the pipe and/or fittings must be held clamped in the machine under pressure after joining.
3. When welding is performed in a stationary setting (i.e. "bench setting), normal cooling times can be observed. When welding is performed in place (e.g. up in the air or on pipe racks, then the full cooling time shown in the last column titled "In-Line Cooling" must be used.
4. Inline refers to welding pipe while it is on hangers, on a pipe rack, or in a vertical position.
5. In all cases, substantial pressure or bending stress must be avoided on the welded assembly until the full cooling time in the last column is observed.
6. The information in the chart above is for manual butt fusion machines. When using a hydraulic machine, the welding pressure to be used (in place of the welding force) will depend on the specific machine used and the drag force required. This will vary by specific hydraulic machine type. Note that "pounds force" in "lbs" is not the same thing as hydraulic pressure in "psi".



SMARTWELD SIMULTANEOUS BUTT FUSION

INTRODUCTION

All-Pro may be joined by means of the SmartWeld simultaneous butt fusion procedure. **This method involves the joining of pipe and fitting ends that are prepared such that they end in parrallel fashion** (i.e. the carrier pipe does not extend past the secondary jacket, and instead terminates in the same plane as the the jacket so the ends are even with each other).

The inner carrier pipes are heated and welded simultaneously and result in pressure-rated connections for the carrier and jacket pipes.

There are multiple advantages to the use of this method. Typically it is best applied whenever the application involves long straight runs of pipe. However, any configuration can be installed using this method, including fitting intensive areas.

One obvious advantage gained by the use of the method is that the secondary jacket piping and the insulating of the joint areas are completed at the same time that the carrier pipe is welded, which saves enormous labor.

Another advantage is that the outer jacket is sealed in a pressure tight manner, which eliminates the possibility of future water intrusion. The method also produces a structure where the carrier pipe, jacket and insulation can all be maintained relative to each other, which allows for the possibility to install lengths of this pipe by means of the directional bore method.

The following pages present a step by step overview to installation using the SmartWeld simultaneous welding method. Please note that actual instructions will vary depending on the specific butt fusion tool to be used.

PREPARATION

Inserting, clamping and aligning.

The first step in simultaneous butt fusion is to prepare the ends of the pipes so that they are planed in a parrallel manner. One item that is important to note is that the outer jacketing of All-Pro piping is IPS sized o.d.
For this reason, the butt fusion machine to be used must be equipped with IPS clamp inserts to properly accommodate the jacket piping.

It is always best to use factory prepared ends of full sticks whenever possible when performing simultaneous butt welding. However, if the ends are not factory ends, be sure to cut through both jacket pipes so that they are as squarely cut as possible and cut in the same plane.

For field cuts, the insulation must be removed from the ends of the pipe by a half of an inch so that a half of an inch of void space is created at the end of the pipe.

Position the pipes into the machine and clamp them so enough room exists to allow the planer to be inserted and rotated and also so that the heating element can eventually be positioned.

Facing the pipe ends Position the planer into the machine and face both ends of the pipes simultaneously. Be sure to stop the planer as needed in order to remove the shavings. Otherwise the shavings will accumulate and prevent the ends from being properly planed. When both the carrier pipe and secondary jacketing have full circumferential shavings produced from the ends on both sides, the planing should be complete.

Removing the facing ribbons or shavings

Remove the shavings and bring the ends of the pipe together to check that there are no gaps anywhere around the circumference of the jacketing. If gaps still exist, then continue to plane again as needed.

Checking alignment

Check the alignment a final time to insure that there are no gaps and that the pipes are ready to proceed to the preheating step. For machines that are hydraulic, the required drag force for the machine should be established at this time. The drag force must be added to the recommended initial and final welding pressure in order to establish the actual welding pressure to be used based on the machine and the weight of the material to be brought together by the hydraulic unit. Note that the carrier pipe must be aligned with the opposing pipe to within 20% of the wall thickness. If it exceeds this amount, then consider should be given to using the traditional method whereby the carrier pipe is butt-fused only and the secondary containment pipe and insulation are sealed using clamshell kits.

Cleaning pipe ends with alcohol

When planing is complete, clean the ends of the pipes with isopropyl alcohol and a clean cloth.

If isopropyl alcohol is unavailable, deionized water can be used. However if deionized water is used, it is important to be sure that it is throughly dried with a clean cloth prior to proceeding to the heating step.

Heater plate insertion

The heating element must be set to 410°F (+/- 18°F) for welding PP pipes. Once the heating element reaches the correct temperature temperature, the heater plate can be brought into position between the two pipes.

Check heater plate termperature

The heating element should be checked once again for the correct set temperature prior to starting the heating step (410°F +/- 18°F) for welding PP pipes.

It is recommended to have a secondary infrared thermometer to manually check the temperature, in case that the indicator light on the heating element is not functioning properly.

FUSION BEAD FORMATION

Bead-Up Period (initial heat soak)

Bring the two pipes together against the heating plate to the initial welding pressure. Depending on the machine to be used, it may be required to establish the drag pressure, which must be added to the specific welding pressure to determine a combined initial welding pressure. Allow the pipes to remain against the heater plate until an initial bead forms at all points around the circumference of the jacket pipe on both sides.

Heat Soak

Once a bead forms around the entire circumference of the jacket pipe on both sides, reduce the weld pressure to the pressure required during the heat soak and begin the timing for the heat soak. Note that this pressure is always 1/10th that of the pressure required during the bead-up (initial heat soak) process.

Removing heater and visually check fusion surfaces

Once the heat soak time is completed, move the carriage of the machine so that the pipes are removed from contacting the heating element and remove the heating element. Be sure to position the heating element in its stand as a safety measure. For each size there is a recommended changeover time period in which the pipes must come together after being removed from the heating element. During this time, the molten ends of the pipes can be carefully inspected prior to bringing the ends together in order to insure that they have been properly heated. This must be done within a few seconds so as to keep the total changeover time within the proper recommended time.

Join the pipe ends within the recommended changeover time

The pipes must be inspected and brought together after the removal of the heating element within the proper changeover time. The pipes should be brought together up to the proper final welding pressure within that period of time. Note that the final recommended welding pressure is always the same as the initial welding pressure. For hydraulic machines, the total pressure has to consider the drag force required which should have been established prior to the actual welding step.

Allow the joint to cool in the fusion machine

Once the pipe is brought together up to the final welding pressure, allow the pipes to be held in the butt fusion machine under pressure for the duration of the cooling time indicated in the chart for the size being welded.

Once the colling time is complete, be careful to release the pressure before removing/moving the clamps and removing the welded pipes.

SIMULTANEOUS BUTT WELD PARAMETERS FOR NIRON CLIMA ALL-PRO PIPING

TABLE 8: SIMULTANEOUS BUTT WELDING PARAMETERS FOR SDR 11 CARRIER PIPING

Size Inner Pipe (in)	Size Inner Pipe (in)	Wall Thickness Inner Pipe (in)	Size Outer CoolPro Jacket (in)	Wall Thickness Outer Jacket Pipe (in)	Insulation Thickness PUF (in)	Welding Force (lbs)	Heat Soak Time (sec)	Normal Cooling Time (min)	Similar Welding Parameters to:
1¼	1.57	0.14	4.5	0.237	1.98	55.4	70	3.5	3" SDR 11
1½	1.98	0.18	4.5	0.237	1.97	60.9	60	3.75	5" SDR 17
2	2.48	0.23	4.5	0.237	1.96	69.2	70	4.25	4" SDR 11
2	2.48	0.23	5.563	0.258	2.47	85.5	76	4.5	4" SDR 9
2½	2.95	0.27	5.563	0.280	2.44	100.2	82	5	4" SDR 7.3
3	3.54	0.32	6.625	0.280	2.96	128.2	93	5.5	5" SDR 7.3
4	4.33	0.39	8.625	0.322	3.91	192.5	112	6.5	6" SDR 9
5	4.92	0.45	8.625	0.322	3.89	213.0	129	7	6" SDR 7.3
5	4.92	0.45	10.75	0.365	4.91	263.9	129	7.5	8" SDR 9
6	6.30	0.57	10.75	0.365	4.89	322.2	160	8.5	8" SDR 7.3
8	7.87	0.72	12.75	0.406	5.81	461.9	199	10	10" SDR 9
10	9.84	0.89	14	0.424	6.38	627.3	239	12	16" SDR 17
12	12.40	1.13	16	0.485	7.27	922.0	298	14.5	16" SDR 11

TABLE 9: SIMULTANEOUS BUTT WELDING PARAMETERS FOR SDR 17 CARRIER PIPING

Size Inner Pipe (in)	Size Inner Pipe (in)	Wall Thickness Inner Pipe (in)	Size Outer CoolPro Jacket (in)	Wall Thickness Outer Jacket Pipe (in)	Insulation Thickness PUF (in)	Welding Force (lbs)	Heat Soak Time (sec)	Normal Cooling Time (min)	Similar Welding Parameters to:
2	2.48	0.15	4.5	0.237	1.96	61.6	70	3.5	5" SDR 17
2	2.48	0.15	5.563	0.258	2.47	77.9	76	3.75	4" SDR 9
2½	2.95	0.17	5.563	0.280	2.44	89.4	82	4	5" SDR 11
3	3.54	0.21	6.625	0.280	2.96	112.6	82	4.5	5" SDR 9
4	4.33	0.25	8.625	0.322	3.91	169.2	94	5.25	6" SDR 9
5	4.92	0.29	8.625	0.322	3.89	182.9	94	5.51	6" SDR 9
5	4.92	0.29	10.75	0.365	4.91	233.8	106	6	8" SDR 11
6	6.30	0.37	10.75	0.365	4.89	272.8	107	6.75	8" SDR 9
8	7.87	0.46	12.75	0.406	5.81	384.8	132	8	12" SDR 17
10	9.84	0.58	14	0.424	6.38	506.9	163	9	14" SDR 17
12	12.40	0.73	16	0.485	7.27	730.8	201	11	14" SDR 11

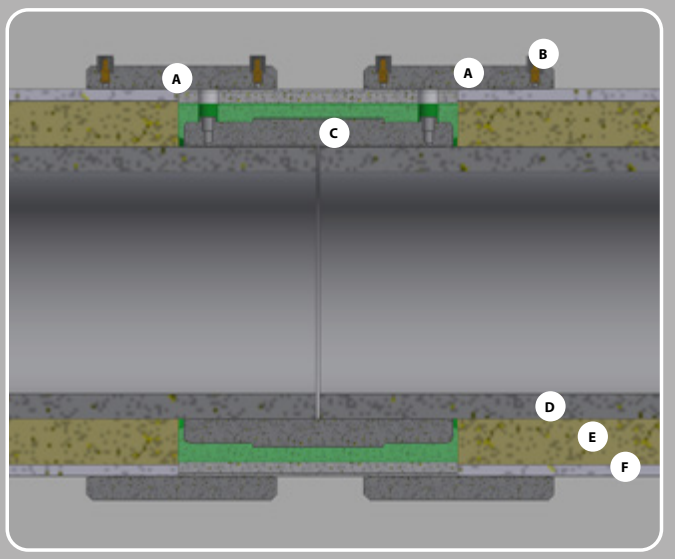
SIMULTANEOUS BUTT WELD PARAMETERS FOR NIRON CLIMA ALL-PRO PIPING

TABLE 10: SIMULTANEOUS BUTT WELDING PARAMETERS FOR SDR 9 CARRIER PIPING

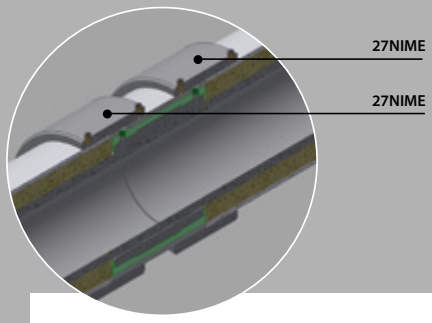
Size Inner Pipe (in)	Size Inner Pipe (in)	Wall Thickness Inner Pipe (in)	Size Outer CoolPro Jacket (in)	Wall Thickness Outer Jacket Pipe (in)	Insulation Thickness PUF (in)	Welding Force (lbs)	Heat Soak Time (sec)	Normal Cooling Time (min)	Similar Welding Parameters to:
1	1.26	0.14	3.5	0.216	1.51	39.5	64	3.25	2½" SDR 9
1¼	1.57	0.17	4.5	0.237	1.98	57.2	70	3.5	3" SDR 9
1½	1.98	0.22	4.5	0.237	1.97	63.8	70	3.75	3" SDR 7.3
2	2.48	0.28	4.5	0.237	1.96	73.7	82	4.25	4" SDR 11
2	2.48	0.28	5.563	0.258	2.47	90.1	82	4.5	5" SDR 11
2½	2.95	0.33	5.563	0.280	2.44	106.7	96	5	5" SDR 9
3	3.54	0.39	6.625	0.280	2.96	137.5	112	5.5	6" SDR 11
4	4.33	0.48	8.625	0.322	3.91	206.2	137	6.5	6" SDR 7.3
5	4.92	0.55	8.625	0.322	3.89	230.8	155	7	8" SDR 11
5	4.92	0.55	10.75	0.365	4.91	281.7	155	7.5	8" SDR 9
6	6.30	0.70	10.75	0.365	4.89	351.3	194	8.5	10" SDR 11
8	7.87	0.87	12.75	0.406	5.81	507.4	235	10	10" SDR 7.3
10	9.84	1.09	14	0.424	6.38	698.5	285	12	12" SDR 9
12	12.40	1.38	16	0.485	7.27	1035.0	346	14.5	14" SDR 7.3

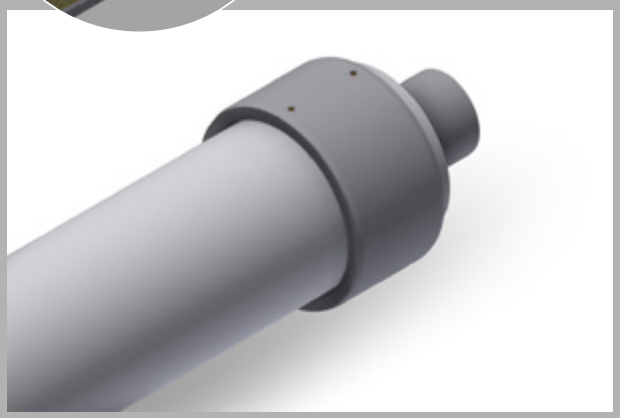
TABLE 11: SIMULTANEOUS BUTT WELDING PARAMETERS FOR SDR 7.3 CARRIER PIPING

Size Inner Pipe (in)	Size Inner Pipe (in)	Wall Thickness Inner Pipe (in)	Size Outer CoolPro Jacket (in)	Wall Thickness Outer Jacket Pipe (in)	Insulation Thickness PUF (in)	Welding Force (lbs)	Heat Soak Time (sec)	Normal Cooling Time (min)	Similar Welding Parameters to:
1	1.26	0.17	3.5	0.216	1.51	40.9	64	3.5	2½" SDR 9
1¼	1.57	0.22	4.5	0.237	1.98	59.4	70	4.25	5" SDR 17
1½	1.98	0.27	4.5	0.237	1.97	67.3	79	4.75	3" SDR 7.3
2	2.48	0.34	4.5	0.237	1.96	79.2	99	5.25	4" SDR 9
2	2.48	0.34	5.563	0.258	2.47	95.5	99	5.5	5" SDR 11
2½	2.95	0.40	5.563	0.280	2.44	114.4	115	6.25	5" SDR 9
3	3.54	0.49	6.625	0.280	2.96	148.6	140	7	6" SDR 11
4	4.33	0.59	8.625	0.322	3.91	222.9	165	8.25	8" SDR 11
5	4.92	0.67	8.625	0.322	3.89	252.3	186	9	10" SDR 17
5	4.92	0.67	10.75	0.365	4.91	303.2	186	9.5	8" SDR 7.3
6	6.30	0.86	10.75	0.365	4.89	386.5	232	11	12" SDR 17
8	7.87	1.08	12.75	0.406	5.81	562.4	283	13.5	12" SDR 11
10	9.84	1.35	14	0.424	6.38	784.4	340	16	18" SDR 17
12	12.40	1.70	16	0.485	7.27	1171.4	404	20	18" SDR 11



A ELECTROFUSION COUPLER FOR EXTENDED FITTINGS (item code 27NIME...)
B SPECIAL END CAP FOR ELCTROFUSION PREINSULATED COUPLER
C ELCTROFUSION PREINSULATED COUPLER (27NMEAP...)
D PP-RCT PIPE
E PUF
F EXTERNAL PPR COVER





DUAL ELECTROFUSION WELDING

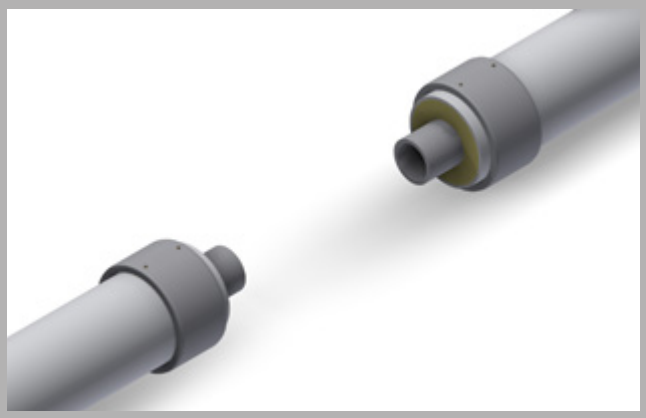
All-Pro EFX2 is a two step electrofusion welding procedure involving the welding of the carrier parts with standard All-Pro EF parts and using the standard All-Pro EF procedure.

Once the EF parts are welding, the circumferential seams can then be welded (instead of being sealed by means of tape) **using EFX2 secondary couplings on both circumferential seams to result in a totally sealed secondary jacket.**

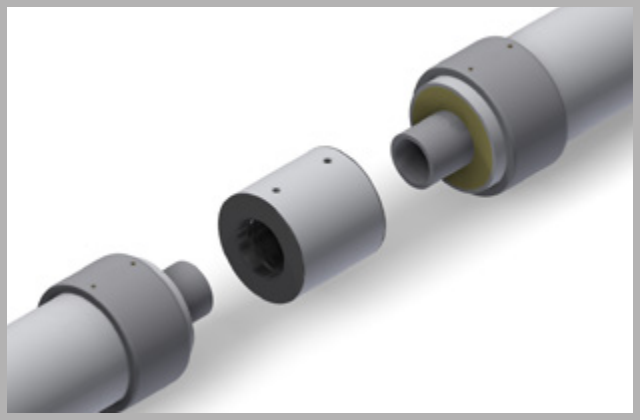
This procedure requires the use of two couplings to seal every carrier coupling and elbow. For tees, additional couplings are required (ranging from four to six couplings, depending on the configuration of the tee).

INSTALLATION PROCEDURE

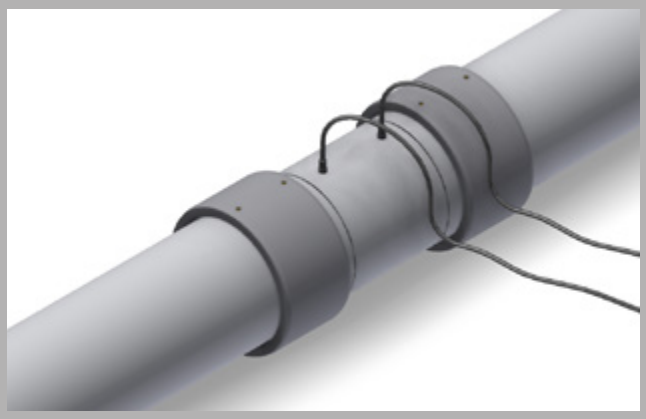
1. Prior to inserting the EFX2 Secondary Coupling onto the outer jacket, the outer jacket must first be prescraped and cleaned. Once the secondary containment jacket is prescraped and cleaned, slide the coupling (Model 27NIME ...) on one of the two ends of the secondary pipe.



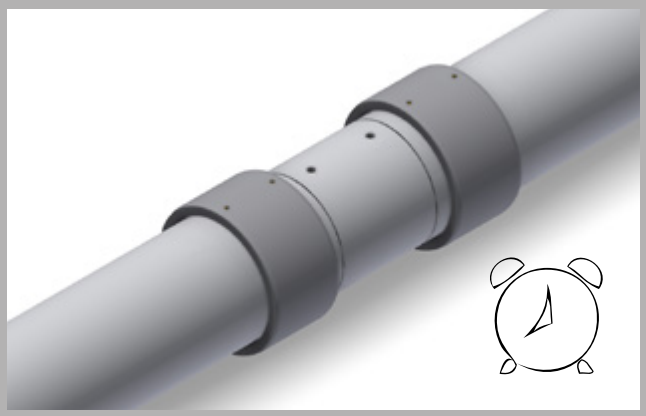
2. Perform the same operation on the other end of the pipe by pre-scraping the outer white PPR jacket pipe and then inserting another EFX2 coupling (Model 27NIME ...).



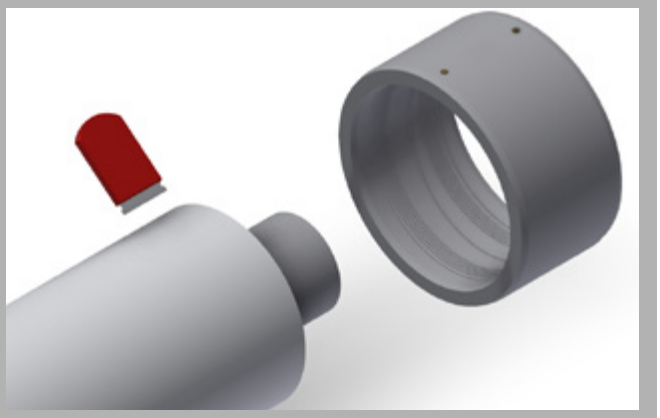
3. To weld the pre-insulated pipes, use the pre-insulated coupling (Model 27NMEAP…) following the instructions on pages 106-110 for standard EF couplings (except do not install tape on the circumferential seams).



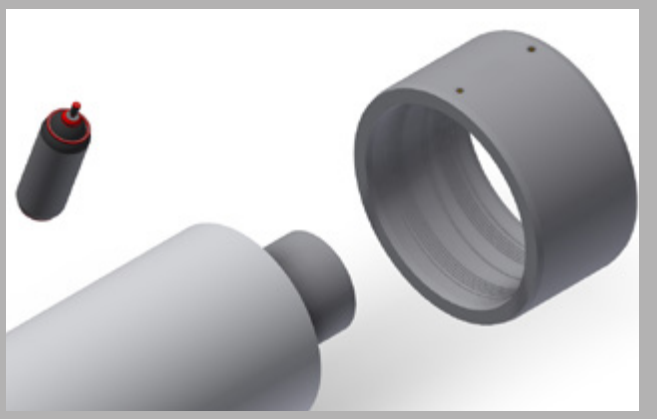
4. Scan the barcode and proceed with the normal welding procedure for a standard All-Pro EF carrier coupling.



5. At the end of the welding procedure and after the cooling time has elapsed, it is possible to then proceed with the welding of the EFX2 Secondary couplings (Model 27NIME ...). The issue of preparing the secondary jacket and pre-telescoping the EFX2 Secondary Couplings was discussed briefly on page 123. However, we will review the required procedure in more detail on the following pages.



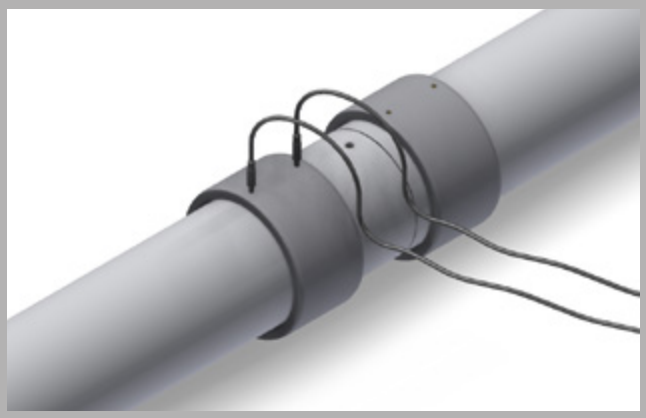
6. Prior to positioning and welding the carrier couplings (Model 27NIME…), the jacket piping and outer surface of the coupling or fitting to be welded must be scraped using an exterior mounted scraping tool and then cleaned.



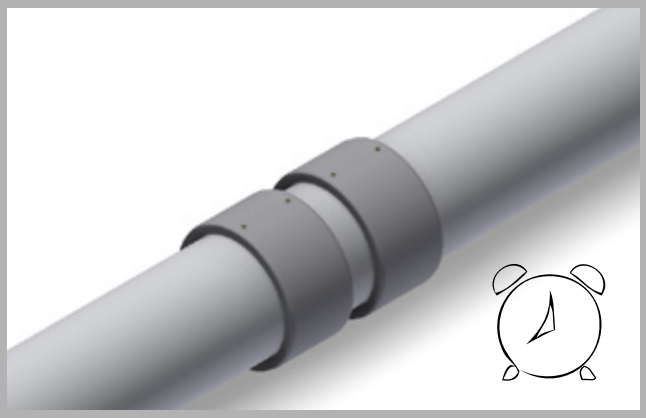
7. After scraping, the EFX2 couplings (Model 27NIME…) must be prepositioned in place outside of the joint area (the jacket must be scraped far enough back to allow the coupling to be telescoped back over a scraped and cleaned secondary jacket).

The EFX2 couplings shall be telescoped back over the scraped and cleaned area so that the couplings are prepositioned in place.

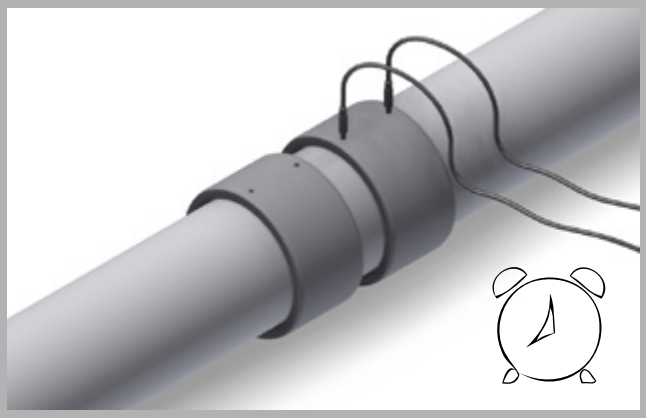
If the welding of the EFX2 couplings will not occur immediately following the welding of the carrier couplings, the entire scraped and cleaned joint area shall be covered to keep it clean and protected from oxidation until the welding step is performed.



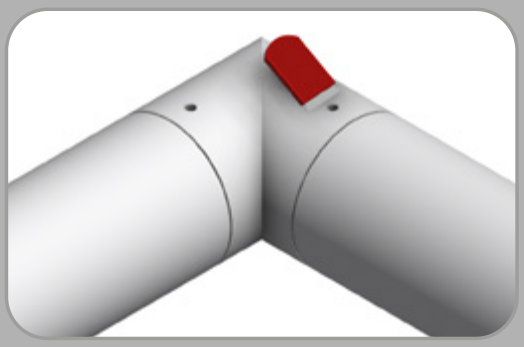
8. The actual welding step to be carried out on the EFX2 couplings is the same as scanning and welding any other Niron or All-Pro electrofusion coupling.

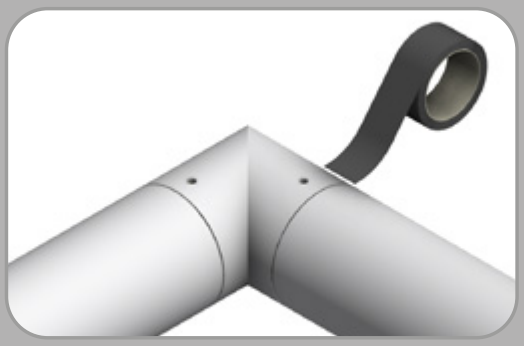


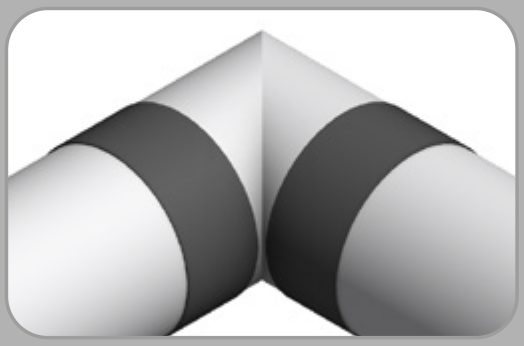
9. After welding the first coupling, wait for the cooling time to elapse and proceed with welding the second coupling following the same indications.



SELF AMALGAMATING WHITE TAPE TO PROTECT WELDING BEAD FROM UV







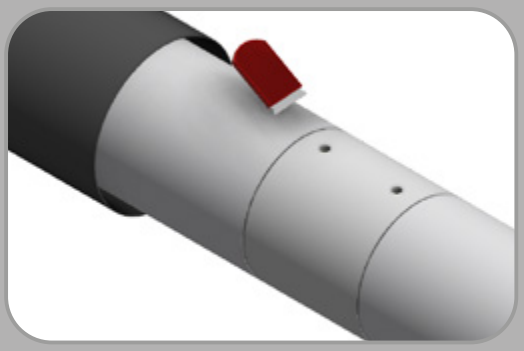
After the cooling cycle is completed, and the system has been successfully tested, the joint seams can be covered with the white colored tape

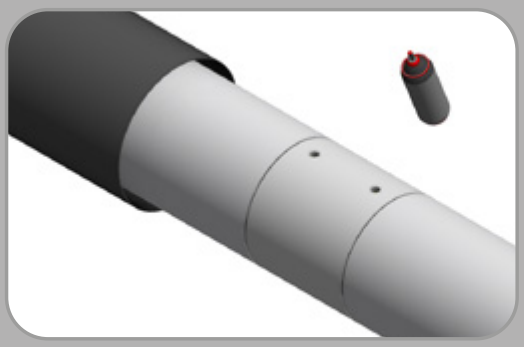
1. Roughen the external surface of the casing by scraping it with the appropriate equipment.

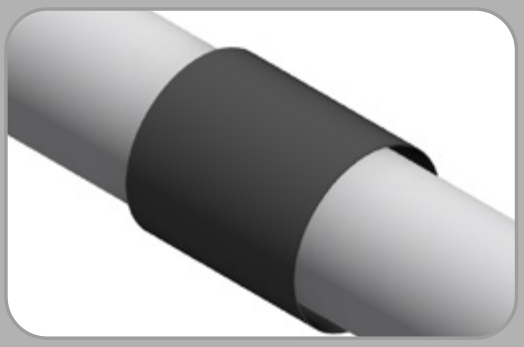
2. Clean the area removing any dust and grease.

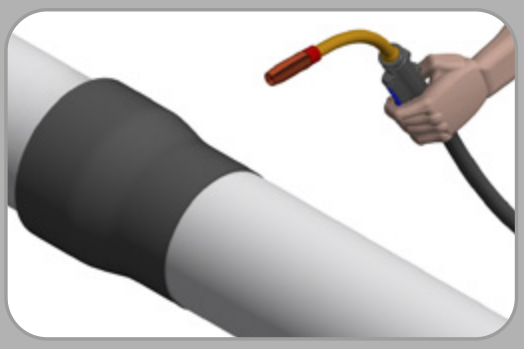
3. Apply the tape around the entire circumference seams. Care should be taken to apply the tape so that it is evenly place over the seams.

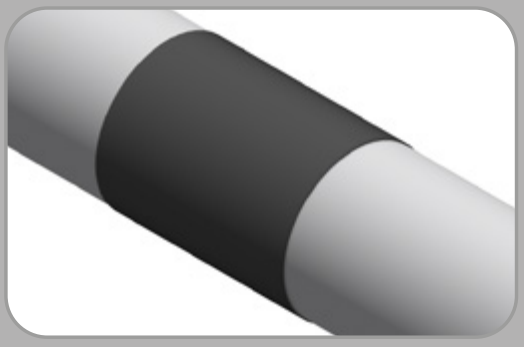
4. Stick the tape along the entire circunference, covering the exposed grey PP-RCT area.











HEAT SHRINKABLE SLEEVE INSTALLATION

The heat shrinkable sleeve must be positioned on the piping before electrofusion welding fitting.

1. Roughen the external surface of the casing by scraping it with the appropriate equipment.

2. Clean the scraped area with the appropriate isopropyl alcohol in order to remove traces of grease, oil or other contaminants.

3. Slide the sheath to the center of the joint making sure to exactly cover the area involved in the restoration.
   Remove the inner sheath protection completely.

4. Use a flame with moderate intensity and heat the sheath with a circumferential movement.
   Proceed with the heat shrinking of the sheath, starting to heat the center with large movements, proceeding towards the ends until complete adherence to the pipe is observed.

5. Make sure that at the end of the procedure there are no air bubbles under the surface of the sheath.
   Wait for the band to cool completely before proceeding with the burial.

RECOMMENDED BURIAL PRACTICES FOR ALL-PRO PREINSULATED PIPING SYSTEMS

TRENCHING AND TRENCH DESIGN

During trenching excavation take all necessary precautions to insure that the trench walls are stable under all working conditions. Provide sloped walls when necessary due to depth and soil conditions. Provide trench wall supports whenever there is a question of safety or when required due to safety regulations. The safety requirements of all local, state and federal requirements for safety.

The width of the trench required depends on the method of installation of the pipe. If the pipe is to be joined in the bottom of the trench, the width of the trench must be wide enough to accommodate the equipment and the men necessary to perform the joining operations. If the pipe is to be joined on the surface and lowered into the trench, the trench width can be much narrower, although in all cases the pipe should have a minimum of six (6) inches on each side to allow for the proper minimum bedding required as shown in the detail below.

When installing the pipe using electrofusion, the width of the trench shall be no less than 12-in. greater than the pipe being installed in the trench. In other words, if a 6 in. pipe is to be installed in the trench, the minimum trench width shall be no less than 18-in. wide. When using other methods, the joining method typically requires that a larger trench should be used (the actual width of the trench needed is highly dependent on the specific joining tool or tools to be used.

The bottom of the trench should be relatively smooth, free of rocks and provide uniform support of the piping. The pipe can be temporarily supported by blocking prior to the placement of the sand bedding. A minimum of 6 in. of fine granular sand is required as a cushion between the pipe and the trench bottom as shown in the illustration details. The sand bedding must be compacted either by hand or, preferably, by mechanical tamper.

PIPE EMBEDMENT

The pipe embedment materials shall be stable, sufficiently granular to be readily worked under the sides of the pipe to provide satisfactory haunching, and readily compactable to achieve soil densities specified by contract documents. These qualities are available in the following materials: Gravels and sands classified as Soil Types GC, GM, GP, GW, SC, SM, SW, and SP, or by a dual soil classification beginning with one of these symbols, in accordance with Test Method D2487.

If the project specifications limit the bedding materials to one or more of the above mentioned gravel and sand classifications (e.g. "sand only"), then the limitations imposed by the project specifications shall govern. The final decision as to acceptable bedding materials is always according to the engineering company of record.

FINAL BACKFILL

The final backfill must be placed and spread in approximately uniform layers in such a manner as to fill the trench completely. There must be no unfilled spaces under or about rocks or lumps of earth in the backfill. Large rocks, stones, frozen clods, and other debris greater than 3 in. (76 mm) in diameter should not be used. The final backfill is then required to be compacted to a minimum soil modulus (E') of 2,000 psi. using rolling equipment or heavy tampers. Initial backfill materials shall be placed in compacted layers of 6 in. A minimum of 12 to 18 in. of cover is required where light traffic is expected. A minimum cover of 36 inches is recommended for locations with heavy traffic.

If the project specifications specify the backfill materials, then the limitations imposed by the project specifications shall govern, as long as the backfill materials allow for the pipe to be compacted properly as described above. The final decision as to acceptable backfill materials shall be according to the engineering company of record.

All-Pro BFX2 pipe (pipe that is simultaneously welded) may also be installed using trenchless applications by directional boring. Consult Nupi's technical department for allowable pulling forces and bending of Niron pipe and other questions related to installation by directional bore.

THRUST RESTRAINT AND EXPANSION/CONTRACTION CONTROL

Niron pipe joints are heat fused which causes the pipe to become one solid piece of pipe. Thrust restraints/anchors are not required when installing Niron pipe in a direct buried application, except for situations where there is unstable soil or high water tables (above the level of the pipe depth). Thrust restraints/anchors are sometimes used as a conservative measure at certain locations to ensure no movement of the pipe, such as lateral movement where the pipe enters a building foundation.

Niron pipe is strong enough to absorb the stresses and strains of expansion and contraction in underground (direct-bury) application if the pipe is provided with the proper bedding and the final backfill outlined in this section of the manual. While the pipe remains robust to resist internal pressure and soil loads, the pipe will not develop sufficient forces to overcome the resistance of the compacted soil as will may other piping materials, provided the installation is done in accordance with Niron instructions provided here. Therefore, expansion controls are not necessary when installing the pipe underground. The friction of the soil acting on the pipe will be sufficient to restrain the pipe when the pipe is buried using the guidelines described above and shown in the accompanying illustration details. The end loads developed by the pipe are not significant and when soil is sufficiently compacted (as recommended in this document) the pipe will not move, even at high temperatures, as long as the soil remains compacted. If there is a high water table present and the soil is compromised, this will not be true and additional restraint by means of thrust restraint/anchors must be provided if a high water condition exists.

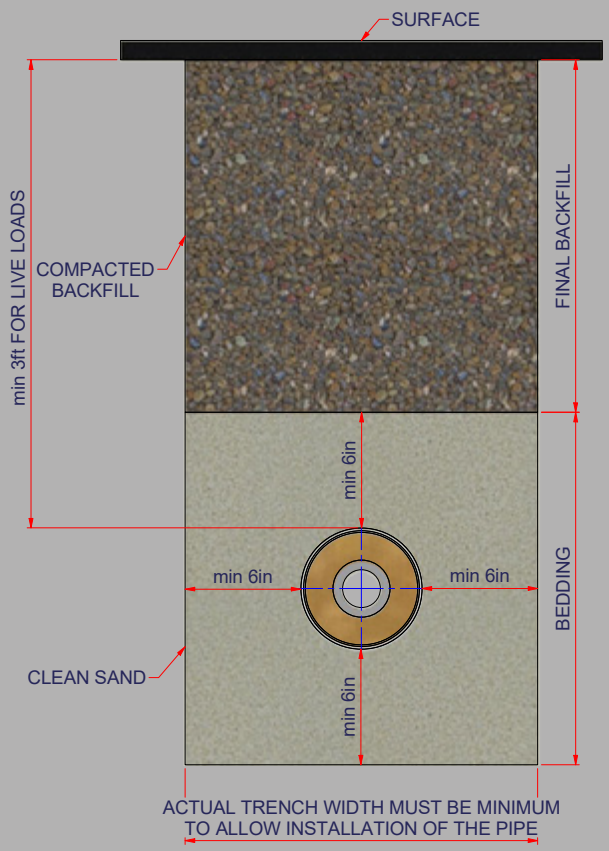
At changes of direction and branch locations, movements of the pipe due to the momentum of the moving fluid must also be considered. This is especially important when running high velocities of fluid through Niron pipes. The larger the diameter of the pipe, the more important of a factor this issue becomes. Generally, when pipes are installed with a high degree of compaction, the combined effects of thermal expansion and contraction and pressure thrust will not cause movements of Niron pipe within compacted soil. When high velocities are used (e.g. > 10ft/s), the addition of thrust restraint anchors should be considered at changes of direction and branch connections. The technical department of Nupi Americas should be consulted in applications where high velocities of fluids are being considered in larger diameter.

LOCATING INSTALLED NIRON PIPE AFTER INSTALLATION

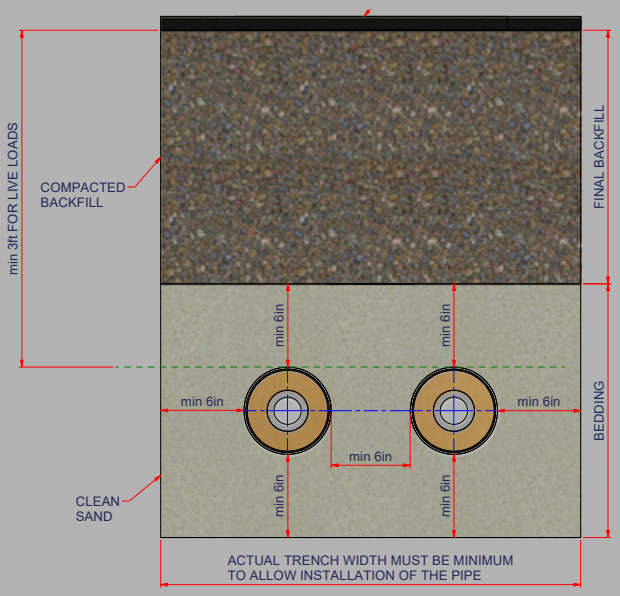
To allow location of the pipe is the future, an electrically conductive wire should be installed with the piping to facilitate locating it with an electronic pipe locator. Other suitable material or means for accomplishing this purpose may be employed. Questions regarding the suitability of these materials/products with Niron pipe should be directed to Niron engineering. If the underground piping is installed using Niron electrofusion using the Niron Smart welding machines, the machines will record the general location of the couplings using GPS (although the depth is not recorded, just the approximate physical location). This can also be helpful towards locating the piping together with the use of a locating wire.

Effects of ground freezing and the subsequent arching effects of the soil shall be considered when pipe is installed at depths subject to frost penetration. Niron piping is not intended to be installed in areas where it will be subjected to repeated freeze/thaw cycles.

BURIAL DETAIL FOR ALL-PRO FOR SINGLE PIPE



BURIAL DETAIL FOR ALL-PRO FOR MULTIPLE PIPES



STANDARD TERMS AND CONDITIONS

FREIGHT CONDITIONS: All-Pro orders are shipped F.O.B. Shipping Point. Once the material leaves our dock it becomes the property and responsibility of the consignee. If freight is lost, or damaged, all freight claims must be filed by the consignee. When shipping to a job site, freight will be third party billed. CUSTOMERS WILL HAVE ONE WEEK FROM THE DATE OF RECEIPT OF AN ORDER TO REPORT LOST, MISSING OR DAMAGED MATERIALS FROM THE SHIPMENT.

FULL FREIGHT ALLOWANCE: To meet the full freight allowance, All-Pro orders must be for immediate complete shipment to one location within the contiguous United States or

Canada. Each shipment for a project will be subject to the freight term stated below based on the amount of the follow-up order (i.e. the amount is not cumulative if follow-up orders are placed for the same project). Shipments to Alaska, Puerto Rico, Hawaii or for export are not freight allowed, except for the mainland portion of the freight. For shipments to Alaska, Hawaii, Puerto Rico or for export, the freight allowances shown below, for qualified items, are for shipment to East Coast, Gulf Coast or West Coast Ports only. Orders greater than $50,000 net, involving pipe, will be freight allowed.

The above freight terms do not apply to air freight shipments or expedited shipments. Air freight shipments and expedited forms of delivery will be negotiated and agreed to in each circumstance. Customers may alternatively arrange for their own transportation, or may arrange for the freight to be billed to a third party account by specifying this on the purchase order. Next day air orders must be received by 2:00 p.m. EST to be accepted for next day service.

The minimum accepted net order amount shall be $100 in all circumstances. For orders placed that are less than $100, the net value of the order shall be increased by an amount so that the total order will be billed at $100 plus the applicable amount for shipping percentage based on $100 net order value. The customer will have 24 hours after notice of order confirmation to increase the amount or type of parts being ordered to be greater than or equal to $100 to avoid the paying the surcharge.

PAYMENT TERMS: All invoices are due net 30 days from the date of the invoice, with all Past Due accounts subject to a service charge of 1.5% per month.

RETURN POLICY: All orders are non-returnable and non-cancellable.

ORDER ACCEPTANCE: No price list, literature, catalogue, website or other material describing our products is to be construed as an offer to sell same. Orders are subject to acceptance by us at our offices in Early Branch, SC. Your order, when shipped by us, shall be the complete contract between us, subject to, and incorporating therein, the terms and conditions, herein set forth, and any provisions or terms contained in the order submitted to us that are not consistent with our terms and conditions shall not be valid. Prices and discounts contained in any of our price lists or posted on our website are subject to change without notice.

LIMITED WARRANTY: Nupi Americas warrants that products sold by it which are included in

its All-Pro Piping System shall be of good materials and workmanship and free from functional defects for a period of thirty (30) years from the date of sale, excepting valves, gaskets and o-rings; products other than pipes and fittings shall be of good materials and workmanship and free from functional defects for a period of one (1) year from the date of sale; provided that such products are properly installed in accordance with the specifications and published instructions of Nupi Americas by qualified installers who have been trained and certified by Nupi Americas or its authorized representatives. These respective warranties shall become immediately null and void if the products to which they apply due to any of the following: (i) are employed in applications not recommended by Nupi Americas; (ii) are installed by anyone other than an installer trained and certified by Nupi Americas or its authorized representatives; (iii) were installed in a manner which fails to comply with written installation instructions of Nupi Americas; (iv) were installed in a manner that does not comply with common installation or use practices and existing building and plumbing codes and legal requirements; (v) was not at all times used in a manner consistent with its intended use; (vi) was not at all times used in installations and environments acceptable to its material and design specifications; (vii) was modified, altered or repaired by anyone other than the Seller; (viii) was not properly subjected to and passed common testing methods (including pressure the testing recommendations of Nupi Americas and the authority having local jurisdiction) immediately after the product's installation and before the product is put into service. In the event of a system malfunction or leak caused by defective Nupi Americas' warranted materials (and not by incorrect installation, incorrect handling procedures or by jobsite or installation damage), a reasonable amount will be allowed for repair materials and repair labor as long as the amount is pre-approved by Nupi Americas. In order to qualify for a warranty remedy described in the previous sentence, you must contact Nupi Americas in advance and receive a written authorization for this remedy from an authorized Nupi Americas' representative. Repair materials, repair labor and freight expenses not authorized in writing in advance by Nupi Americas in this way will not be compensated. Note that Nupi Americas limits its warranty to its piping, valves and

accessories, fittings, insulation, jacketing and field connections that are properly made in accordance with the written instructions of Nupi Americas by an installer who is trained and certified by Nupi Americas or its authorized representatives, subject to the other limitations described above.

Evidence of tampering, mishandling, misuse or abuse, neglect, accidental damage, freeze damage or unauthorized repairs that cause damage to Nupi Americas' warranted products will void any warranty coverage for those particular products.

Nupi Americas provides a complete preinsulated pipe system offering so that it is possible to complete an installation with Nupi Americas' products. However, it is possible that other

manufacturers' will be interconnected to the All-Pro preinsulated pipe system in any given installation. The All-Pro product in the given installation will continue to be covered under this warranty. In a combined system, Nupi Americas will be responsible only for proven defects in material or workmanship in the Nupi Americas products. Products manufactured by another company should be reported to that manufacturer for its warranty response.

These limited warranties are in lieu of all other warranties, express or implied, including, without limitation, those concerning merchantability or fitness for a particular purpose. These limited warranties are also in lieu of any other possible liabilities of Nupi Americas, whether alleged to have arisen by agreement or by operation of law, respecting the sale, installation, use or function of Nupi Americas' products, including, without limitation, claims of negligence, gross negligence, strict liability or any other tort.

LIMITATION OF LIABILITY: If a claim arises as the result of a product defect, Nupi Americas shall cover losses caused to third parties for property damages and bodily injury or incidental damages in those situations where Nupi America's Liability Insurance Policy provides coverage for such losses, up to the coverage amounts provided in such policy and subject to all of the terms, conditions and exclusions of such policy (Policy ITCANY05134 Issued by ACE European Group, Ltd., A Chubb Company).

No person is authorized by Nupi Americas to accept for it any other liability of any kind in connection with the sale or use of products sold and/or marketed by it.

All requests and notices under this Warranty shall be directed to: Nupi Americas, Attn: Customer Service 314 Commerce Parkway, Early Branch, SC 29916; Tel: 803-398-3579, Fax: 803-398-3639

SHIPPING DATES – DELAYS – SHORTAGE CLAIMS: Promises of shipping dates are estimates, and as such, cannot be guaranteed. Nupi Americas will not be liable for any delay in a delivery. Any claims for shipping errors, shortages or defects must be made to Nupi Americas within 24 hours of receipt of the goods. Buyer shall be required to make timely payment to seller of any amount which is undisputed, or not subject to such claims.

TAXES: Any sales or manufacturers' taxes are to be paid by the buyer, including those imposed under any future statutes.

Nupi Americas, Inc.

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