



PLASTICA ALFA
INNOVATION & WATER TECHNOLOGIES



ALFAIDRO

FASER PIPE AND FITTINGS FOR SPRINKLER SYSTEMS

Nofire

CATALOGUE



ALFAIDRO

FASER PIPE AND FITTINGS FOR SPRINKLER SYSTEMS

Nofire

DESCRIPTION AND FIELDS OF EMPLOYMENT	2
ADVANTAGES ANC CHARACTERISTICS	2
QUALITY ASSURANCE	3
REFERENCE STANDARDS	3
APPROVAL CERTIFICATES FOR SPRINKLER SYSEM INSTALLATIONS	3
JOINTING METHODS	4
SYSTEM INSPECTION	9
NSTRUCTIONS AND WARNINGS	10
SYSTEM COMPONENTS	
PIPE	11
FITTINGS	13
ACCESSORIES	18

1 DESCRIPTION AND FIELDS OF EMPLOYMENT

ALFAIDRO NOFIRE is a system of faser pipes, made of PP-RCT reinforced by an intermediate layer of special glass fibers, and PP-RCT fittings designed for use in fire sprinkler systems. It is designed for applications with particular requirements of fire resistance such as public buildings, hotels, ships, caravans, stores, hospitals, schools, museums and private buildings like one or two family dwellings.

The raw material used is PPR SIGMA 125 (also known as PP-RCT), a new generation of polymer characterized by a very high resistance to long-term temperature.

The installation by socket welding is simple and quick and does not require the use of sealants or adhesives.

ALFAIDRO NOFIRE has passed all fire tests according to **DIN 4102-1**, building material **CLASS B1**, and has obtained the **AbP certificate** (Allgemeines bauaufsichtliches Prüfzeugnis) as flame-retardant building material.

Minimum duration in minutes of water supply for sprinkler systems

WATER SUPPLY	Low Risk Areas	Medium Risk Areas	High Risk Areas	Hydrants
Duration according to UNI	30 minutes	60 minutes	90 minutes	Excluded
Duration according to NFPA	30- 60 minutes	60-90 minutes	90-120 minutes	

ALFAIDRO NOFIRE SYSTEM ensures the water supply at the sprinkler system for the temperatures and durations shown above.

As the fire protection requirements and standards for the design and construction of fire sprinkler systems vary by country, Plastica Alfa offers all the necessary support to define and coordinate the implementation of the **ALFAIDRO NOFIRE** system with the local authorities.

Further international certifications are in process.

ALFAIDRO NOFIRE is the only system for fire protection made of plastic material completely non-toxic and suitable to contact with potable water in accordance with DM [Health] April 6th, 2004 No. 174, DM 23/04/2009, EU Regulation No. 10/ 2011 and with the regulations and laws in France, Germany, Russia, USA, Portugal, etc.



2 ADVANTAGES AND CHARACTERISTICS

Unlike metal fire alarm systems, nofire is characterized by:

- High resistance to corrosion
- No accumulation of corrosion products and no clogging of sprinkler, longer life and reduced maintenance of the system.
- High resistance to chemicals.
- Reduced weight.
- High soundproofing and thermal insulation
- Low roughness factor and high abrasion resistance, consequently reducing pressure losses
- Perfect hydraulic tightness of pipe and fitting connections, thanks to the fusion welding technique and to the threaded fittings with metal insert
- High impact resistance
- Easy handling and working
- Reduced installation time and cost
- No sealants, adhesives or gaskets are required
- Complete range of pipes, fittings and accessories for fire sprinkler system installations for free that for concealed installations
- Environmentally friendly and compliance with LEED standards, Plastica Alfa is able to define which LEED credits the series products **NOFIRE** can help and is able to respond adequately to the demands of the parties involved in a project LEED (clients, designers, businesses)





3 QUALITY ASSURANCE

The production of pipes and fittings is subjected to strict quality controls and features advanced machines for injection molding and extrusion, availing specialist knowledge.

Plastica Alfa has certified Quality and Environmental Management System according to the standards UNI EN ISO 9001:2008 e UNI EN ISO 14001:2004.

Plastica Alfa laboratory is equipped with advanced instruments and run by skilled staff testing raw materials and products for mechanical, thermal and physical characteristics.

4 REFERENCE STANDARDS

Alfaidro NOFIRE pipes and fittings are manufactured in compliance with the following standards:

UNI EN ISO 15874-1, -2, -5, -7 Plastics piping systems for hot and cold water installations (PP);

UNI EN ISO 21003: Multilayer piping systems for hot and cold water installations inside buildings.

DIN 8077-78: Polypropylene (PP) pipes – PP-H, PP-B, PP-R, PPRCT.

DIN 16962: Pipe fittings and joint assemblies for polypropylene pressure pipes.

DIN 16837: Multilayer pipes - Plastics-Multilayer pipes - General quality requirements and testing.

BS 4991: Specification for propylene copolymer pressure pipe.

ASTM F238: Standard specification for pressure rated polypropylene (PP) piping systems.

The welding reference standards for Alfaidro NOFIRE system are:

DVS 2207: Welding of Thermoplastics

DVS 2208: Machines and Equipment for Welding Thermoplastics



Impact resistance



EXOVA Fire Test - Frankfurt



Tensile module determination



Melt flow index determination

Alfaidro NOFIRE system is suitable for firefighting installations according to the following standards:

DIN 4102: Fire behaviour of building materials and elements – Part 1: Classification of building materials - Requirements and testing

NFPA 13: Installation of Fire Sprinkler Systems for requirements on the use of plastic fire sprinkler piping.

FM 1635: Approval Standard for Plastic Pipe and Fittings for Automatic Sprinkler Systems

UL 1821: Standard for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service

VdS 2344: Procedure for the testing, approval, certification and conformity assessment of products and systems for fire protection and security technologies

LPS 1260: Issue 3.1- Plastic pipe and fittings for use in automatic sprinkler systems

5 APPROVAL CERTIFICATES

Alfaidro NoFire has passed all fire tests according to the standard DIN 4102 -1, building material CLASS B1, at the accredited laboratory of Exova Warringtonfire Frankfurt. In a fire situation the material drips and it is self-extinguishing, not contributing to the spread of fire. Moreover the smoke produced is not toxic and not dangerous to people or animals.

Alfaidro NoFire has obtained **Russian GOST Approva** and the **AbP certificate** (Allgemeines bauaufsichtliches Prüfzeugnis), it is a German approval certificate authorizing the use as flame retardant building materials.

According to our experience until now gained, the following countries authorize the use of plastic pipes and fittings in sprinkler system installation and fire fighting installation:

USA, Australia, New Zealand, Germany, Great Britain, Sweden, Austria, Russia, Poland, Ukraine, Czech Republic, Iceland, Croatia, Turkey, Norway, Hong Kong, Philippines, Spain.

In any case, as the fire protection requirements and standards for the design and construction of fire sprinkler systems vary by country, Plastica Alfa offers all the necessary support to define and coordinate the implementation of the Alfaidro **NoFire** system with the local authorities.

Certifications with American and European rules are in progress.



6 JOINTING METHODS

6.1 SOCKET WELDING



Figure 6.1



Figure 6.2

This technique is simple, quick and safe, it is carried out by heating the outside pipe surface and the inside fitting surface simultaneously on the matrix of an heating element: the welding machine. When the welding temperature is reached, the two pieces are moved away from the heating source and inserted one into the other up to the predetermined depth. A watertight assembling is done, with a double thickness of material in correspondence of the junction, making doubly sure a point that, in the traditional metal systems, is the critical point.

Instructions to carry out a correct welding will follow. Reference is made to the draft standard issued by UNI about the welding methods and to the guidelines of DVS 2208.

There are two kinds of welding machines:

- **manual welding machine**, it is recommended to obtain welding up to dn 125 mm with the minimum physical strain and the maximum security.
- **bench-type welding machine**, it is recommended to obtain welding up to dn 125 mm with the minimum physical strain and the maximum security.

Preliminary operations

1. Using the shear (cod. 00TTS40) or the pipe cutter (00TAT), cut the pipe perpendicularly to its axis (fig. 6.1);
2. Mark the inserting depth on the pipe, as shown in table 6.1, using a suitable pen which does not nick the pipe surface (Fig. 6.2);
3. Fix the proper tool on the welding machine and wait for the welding temperature to be reached. The optimum temperature is 260 ± 10 °C. Follow operating instructions carefully.
4. Use alcohol and a clean paper towel to thoroughly clean the outside and inside surface of the pipe and fitting to remove dust and dirt.

Table 6.1 - Inserting depth

Pipe diameter d_n (mm)	Inserting depth l_i (mm)
20	14
25	15
32	17
40	18
50	20
63	26
75	29
90	32
110	35

Table 6.2 - Heating, welding and cooling times

Pipe diameter d_n (mm)	Heating time t_1 (sec)	Removing and inserting time t_2 (sec)	Welding time t_3 (sec)	Cooling time t_4 (min)
20	5	4	6	2
25	7		10	
32	8		20	
40	12	6	30	4
50	18			
63	24	8	40	6
75	30			
90	40			
110	50	10	50	8



■ 6.1.1 Welding by manual welding machine

Phase 1: after checking that the heating elements have reached the required temperature ($260\text{ °C} \pm 10\text{ °C}$), simultaneously push the pipe into the female tool up to the mark and the fitting into the male tool up to the beat avoiding rotating them (fig.6.3)

Hold the two elements firmly on the tool for all the heating time long, t_1 , as shown in table 6.2;

Phase 2: after the heating and within the recommended time t_2 , extract the two elements from the heating tool and joint gradually the pipe to the fitting avoiding rotating them and respecting the insertion depth (6.3);

Phase 3: hold the two elements firmly all the welding time long, t_3 , as shown in table 6.2;

Phase 4: let the welded elements cool at ambient temperature all the cooling time long, t_4 (never plunge into water or forcedly cool them).

The welded joint can be mechanically stressed only after the cooling time.

After each welding operation, thoroughly clean the tool.

Following the above steps it will get a uniform and inseparable connection, it will last for all the service life of the pipeline (fig. 6.5)

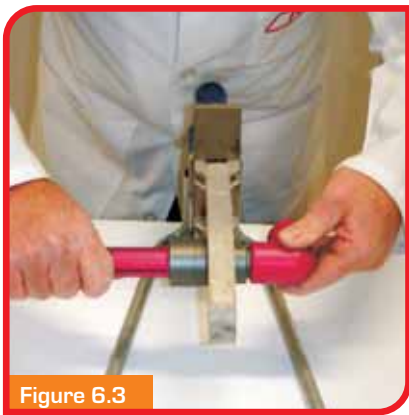


Figure 6.3

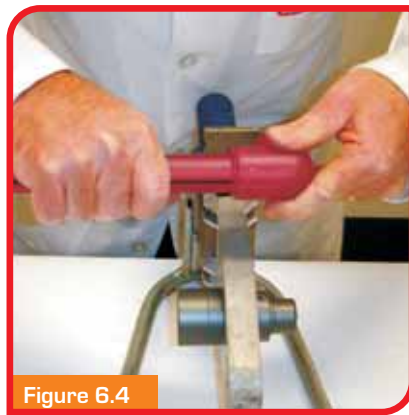


Figure 6.4

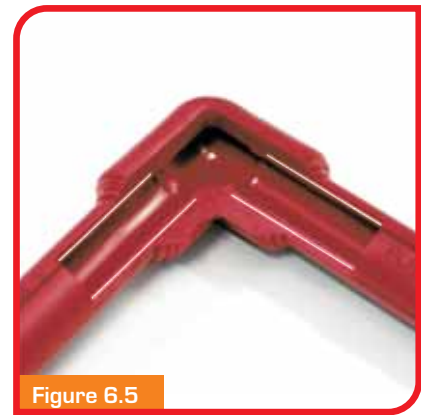


Figure 6.5

■ 6.1.2 Welding by bench-type welding machine

Phase 1: fix the elements to weld into the machine cheeks and adjust the inserting depth.(fig. 6.6). After reaching the welding temperature ($260\text{ °C} \pm 10\text{ °C}$), insert the pipe into the female matrix and the fitting into the male one (fig. 6.7). Hold the two elements firmly in this position all the heating time long, t_1 , as shown in table 6.2.

Phase 2: after the heating time, move away the heating element and gradually insert the pipe into the fitting, within the time t_2 (fig. 6.8).

Phase 3: hold the two elements firmly all the welding time long, t_3 , as shown in table 6.2

Phase 4: after the welding, release the cheeks, remove the welded elements and let them cool at ambient temperature all the cooling time long, t_4 . The welded joint can be mechanically stressed only after the cooling time.

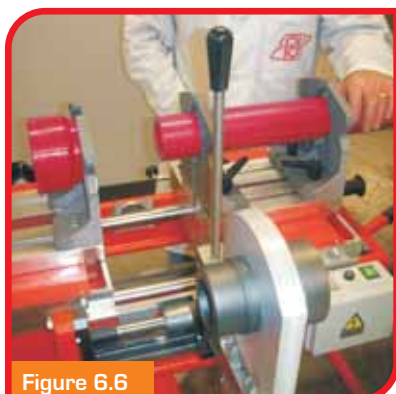


Figure 6.6



Figure 6.7



Figure 6.8

■ 6.1.3 Saddle welding

These fittings are an easy and reliable alternative to reducing tees, they can be installed directly on the outside of the pipe, making the installation more flexible and simple.

The saddles are used for:

- branch connections in existing installations
- branch connections in risers
- sensor wells and other instruments

1. Drill the pipe with the specific cutter (art. 00FRS) - fig. 6.9
2. After reaching the welding temperature ($260\text{ °C} \pm 10\text{ °C}$), insert the concave part of the heating tool into the drilled hole, until the tool is completely in contact with the external wall of the pipe and simultaneously insert the weld saddle into the convex part of the tool (fig. 6.10). Hold the two elements firmly in this position for 30 seconds.
3. Move away the heating element and gradually insert the saddle into the heated hole of the pipe (fig. 6.11).
4. Hold the saddle firmly, avoiding rotating it.
5. Let the weld elements cool at ambient temperature for 10 minutes. The weld joint can be mechanically stressed only after the cooling time.
6. Fit the appropriate branch pipe into the sleeve of the weld saddle using conventional fusion technology.

■ 6.1.4 Welding check

Once the welding operation is complete, the joint has to be subjected to a visual check in order to make sure that it has the following characteristics:

- the bead has to be visible and homogeneous along the external surface;
- the pipe and the fitting have to be perfectly in line;
- the joint surface should not present weldless parts;
- the insertion of the pipe into the fitting has to be up to the marking line.

If irregularities are noticed, it is necessary to weld two new elements.

■ 6.1.5 Precautions for fusion welding

- Never heat the pieces twice
- Make the welding at an ambient temperature between $+5\text{ °C}$ and $+40\text{ °C}$.
- Protect the welding area from rain, wind, damp, strong solar radiation, etc.
- During the insertion, do not exceed the fitting beat in order to avoid the reduction of the pipe section.
- It is essential to let the welded elements cool at ambient temperature: a forced cooling, for example by water, might cause internal stresses compromising the welding resistance.





Figure 6.12

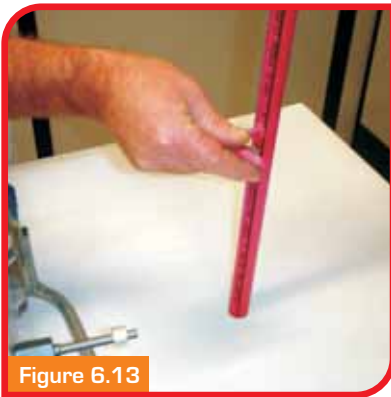


Figure 6.13

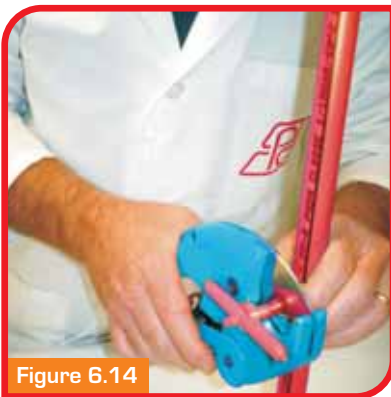


Figure 6.14

6.1.6 Hole repair

If an **Alfaidro**, **Alfaidro FASER** or **Alfaidro Aluminium** pipe is accidentally perforated, it is possible to repair it using a special tool to be fixed on the welding tool and a special repairing patch supplied with the tool. Operate as follows:

- thoroughly clean the surfaces to repair;
- adjust the clamping screw according to the pipe thickness and avoid the male die touching the opposite side of the pipe;
- simultaneously insert the male tool into the hole to repair and the patch into the female tool (fig. 6.12);
- after the heating time (5 seconds), remove the two elements from the tool and insert the patch into the hole (fig. 6.13);
- let the welding cool and cut the patch part protruding out of the pipe (fig. 6.14).

N.B. If the pipe hole is larger than the heating tool or it passes through one side to the other, cut the damaged length and repair the pipe using a common fitting or an electric sleeve.

Plastica Alfa cannot be held responsible for damages due to operations carried out disregarding the instructions or due to the use of not suitable tools.



6.2 JOINTING BY THREADED FITTINGS

The **Alfaidro NOFIRE** includes fittings with conic threaded insert (UNI ISO 10226-1, -2 – ex ISO 7/1) that can be assembled to the metal parts possibly present in the system. Make sure that the thread size to be joined to our fitting complies with the above mentioned standard.

In order to grant a correct seal, teflon or liquid dopes can be used; do not use hemp because the increased thickness can damage the thread.

Teflon is to be wrapped around the male thread clockwise, whereas the liquid dope has to be uniformly distributed on the thread.



6.3 JOINTING BY FLANGES

The **Alfaidro NOFIRE** range includes also flanged fittings that allow a direct connection to systems and devices, such as pumps, generally supplied with flanged connections. **Flanged joints** are recommended for plastic piping systems that require periodic dismantling.

Insert the flange into the flange neck, then weld the flange neck to the pipe and join the other flange as follows:

- make sure that all the bolt holes of the flanges match up and insert all bolts.
- make sure that the faces of the flanges are not separated by excessive distance prior to bolting down the flanges.
- tighten the bolts by pulling down the nuts diametrically opposite each other using a torque wrench so as to apply uniform stress across the flange.



6.4 JOINTING BY GROOVED FITTINGS

The **Alfaidro NOFIRE** is unique because the range includes the **Alfarapid** grooved joints and fittings. They are characterised by a special seal and can be assembled to grooved pipelines. The assembly is extremely easy: you need only to position the special seal between the elements to join, insert the clamp and screw the bolts.





7 SYSTEM INSPECTION

Once the system is installed, it is necessary to test it as prescribed by the standards existing in each countries (UNI 9182, EN 806-4, ENV 12108, DIN 1988,...).

The system test includes inspections to be carried out during the pipe laying on the parts that will become inaccessible and final tests and inspections once the system is installed.

7.1 HYDROSTATIC PRESSURE TESTING

Below is the method of the standard UNIENV 120108.

The system should be filled slowly with drinking water to ensure the complete elimination of air pockets, thus preventing pressure surges.

For hydrostatic pressure testing, pressure gauges and the recording apparatus shall have an accuracy of 0,02 MPa (0,2 bar) and shall be fitted at the lowest point in the system. The pressure gauge has a range of 0 MPa to 1,6 MPa (0 bar to 16 bar).

When required, the system test pressure may be increased to comply with regulations.

A complete record of the details of the test (complete test procedure diagram) shall be made and preserved.

As a result of their material properties, plastics pipes expand for a limited period when pressurized, this influences the test result: a change in the temperature of the pipe system can result in a pressure change. For this reason the pressure tests should be done at an as much as possible constant test medium temperature. Alternative hydrostatic pressure tests for installed pipework systems and commissioning of such systems are given follow: procedure A and B respectively.

Test procedure A

- a) Open the venting system;
- b) purge the system with water to expel all air that can be removed thereby. Stop the flow and close the venting system;
- c) apply the selected hydrostatic test pressure equal to 1,5 times the design pressure by pumping according to Figure 7.1 during the first 30 min, during which time an inspection should be carried out to identify any obvious leaks with the system under test;
- d) reduce the pressure by rapidly bleeding water from the system to 0,5 times design pressure according to Figure 12;
- e) close the valve. The recovery of a constant pressure, which is higher than 0,5 times the design pressure, is indicative of a sound system. Monitor the situation for 90 min. Visually check for leaks. If there is a pressure loss, the system shall be maintained at the test pressure until the obvious leaks within the system are identified.
- f) the test result should be recorded.

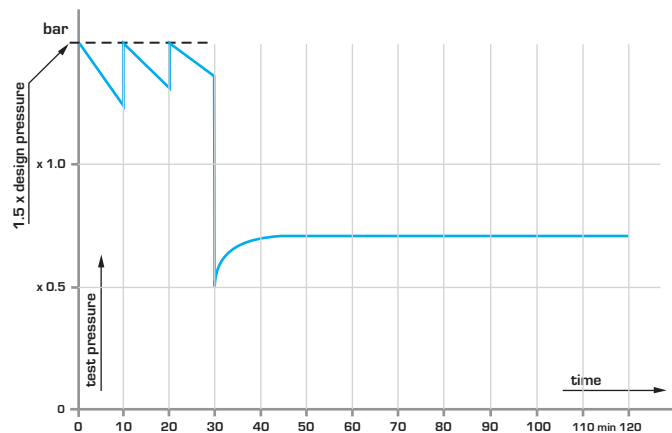
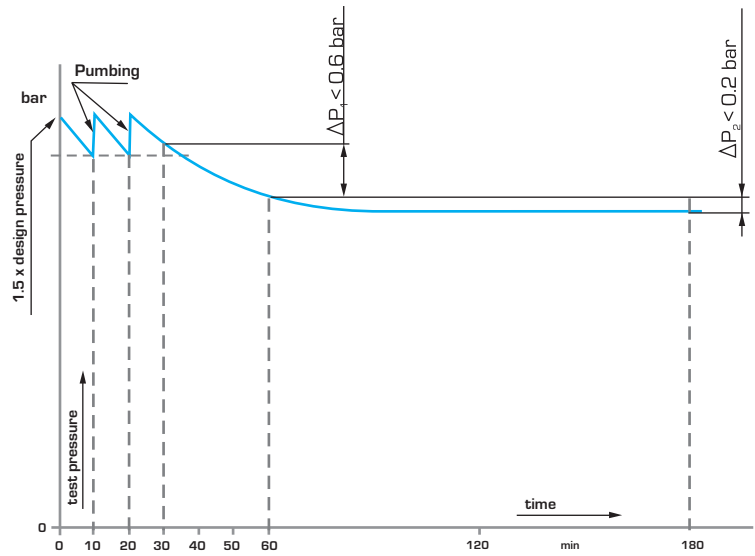


Fig. 7.1 Testing for water tightness - Test procedure A

■ Test procedure B

- a) Open the venting system;
- b) purge the system with water to expel all air that can be removed thereby. Stop the flow and close the venting system;
- c) apply the selected test pressure equal to 1,5 times the design pressure by pumping according to Figure 7.2 during the first 30 min;
- d) read the pressure when the first 30 min have elapsed;



7.2 Testing for water tightness - Test procedure B

- e) read the pressure after another 30 min and visually check for leaks. If the pressure has dropped by less than 0,6 bar conclude the system has no obvious leakage and continue the test without further pumping;
- f) visually check for leaks and if during the next 2 h, the pressure drops by more than 0,2 bar this indicates a leak within the system;
- g) the test result should be recorded.

For smaller sections of an installation the test Procedure B may be reduced to only stages a) to e) and g).

8 INSTRUCTIONS AND WARNINGS

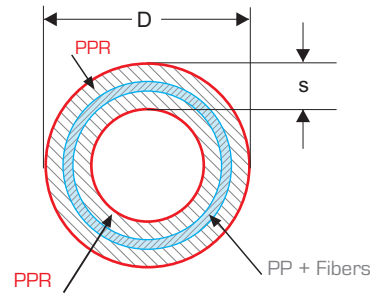
Following are given some suggestions to use **Alfaidro** pipes and fittings at their best.

- **Transportation, storage and installation.** Try not to subject pipes and fittings to violent impacts, especially if the working temperature is below 0 °C since at low temperatures the material is more rigid and this reduces the resistance to external stresses. Store the pipes in piles at the most 1.5 mt height. The contact with sharp objects (like brick scabbling) must be avoided. In any case, discharge the damaged pipe length.
- **Exposure to UV radiation.** It is recommended not to install or store the pipes in the direct UV rays since they trigger chemical reactions in PPR causing a premature ageing; it follows a worsening of the material physical, mechanical and chemical properties.
- **Exposure to low temperatures.** It is recommended to drain the line when the water is expected to freeze, since the increase in volume might break the pipe.
- **Bridging curves.** In case of pipe overlap use the bridging curves provided for **Alfaidro**.
- **Bending.** Cold bending may be used when the bending radius is at least 8 times the pipe diameter, while for smaller bends it is necessary to heat the section using a blower of hot air. **NEVER USE THE FLAME.**
- **Threaded joints.** Do not use fittings having tapered thread with fittings having cylindrical thread. To assure a good seal, wrap up with teflon or liquid dope, never use hemp.
- **Operating conditions.** It is essential not to exceed the extreme operating conditions of Alfaidro pipes and fittings, otherwise the system life might be compromised. For this purpose, it is recommended to read the section 5.1. of this catalogue "Operating conditions".

Plastica Alfa declines any liability for damages caused by the non-observance of the instruction given above.

ALFAIDRO NoFire - SDR 7.4 - S 3.2 - 20 °C 20 Bar

NFTA



MARKING

PLASTICA ALFA TUBI ALFAIDRO FASER NOFIRE \varnothing __ x __ - A - PP-RCT-PPGF-PP-RCT - SDR 7.4 - AUTO-ESTINGUENTE/SELFEXTINGUISHING - DIN 4102-1 B1 - UNI EN 13501-1 - UNI EN ISO 15874 - UNI EN ISO 21003-2 - DIN 8077/78 - DIN 16837 LINEA __ - data(giorno, mese e anno) e ora di produzione - MADE IN ITALY



Outside diameter (D)	Rod	Pack	Nominal Wall Thickness (s)	Internal diameters	Water Content	Weight	DN	Codice Code	Euro/mt
mm	mt	mt	mm	mm	l/m	Kg/m			
20	4	120	2.8	14.4	0.163	0.151	15	-200	
25	4	80	3.5	18.0	0.254	0.236	20	-250	
32	4	48	4.4	23.2	0.423	0.379	25	-320	
40	4	32	5.5	29.0	0.660	0.589	32	-400	
50	4	24	6.9	36.2	1.029	0.917	40	-500	
63	4	12	8.6	45.8	1.647	1.442	40	-630	
75	4	12	10.3	54.4	2.323	2.052	50	-750	
90	4	8	12.3	65.4	3.358	2.939	65	-900	
110	4	8	15.1	79.8	4.999	4.401	80	-1110	
125	4	4	17.1	90.8	6.472	5.662	80	-1125	
160	4	4	21.9	116.2	10.599	9.255	100	-1160	

Dimensional characteristics of ALFAIDRO NOFIRE fittings

FEMALE FITTINGS FOR SOCKET WELDING

Nominal diameter d_n (mm)	Mean inside diameter at the mouth (mm)	Maximum out-of-roundness (mm)	Minimum wall thickness (mm)		Minimum heated socket length (mm)
			SDR 6 20 °C 20 bar	SDR 5 20 °C 25 bar	
20	19.35 ± 0.15	0.4	-	4.1	14.5
25	24.35 ± 0.15	0.4	-	5.1	16.0
32	31.3 ± 0.2	0.5	-	6.5	18.1
40	39.2 ± 0.20	0.5	-	8.1	20.5
50	49.15 ± 0.25	0.6	-	10.1	23.5
63	62.2 ± 0.30	0.6	-	12.7	27.4
75 ¹	73.9 ± 0.30	1.0	-	15.1	31.0
90 ¹	88.9 ± 0.30	1.0	-	18.1	35.5
110 ¹	108.7 ± 0.30	1.0	18.3	22.1	41.5
125 ¹	123.65 ± 0.30	1.0	20.8	22.1	46.0

¹Type B socket

MALE FITTINGS FOR SOCKET AND BUTT WELDING

Nominal diameter d_n (mm)	Mean inside diameter at the mouth (mm)	Maximum out-of-roundness (mm)	Minimum wall thickness (mm)	Minimum wall thickness (mm)	Minimum heated socket length (mm)
			SDR 6 20 °C - 25 Bar	SDR 5 20 °C - 25 Bar	
20	20.15 ± 0.15	1.2	-	4.1	14.5
25	25.15 ± 0.15	1.2	-	5.1	16.0
32	32.15 ± 0.15	1.3	-	6.5	18.1
40	40.20 ± 0.20	1.4	-	8.1	20.5
50	50.25 ± 0.25	1.4	-	10.1	23.5
63	63.30 ± 0.30	1.6	-	12.7	27.4
75	75.35 ± 0.35	1.6	-	15.1	31.0
90	90.45 ± 0.45	1.8	-	18.1	35.5
110	110.50 ± 0.50	2.2	-	22.1	41.5
160	160.75 ± 0.75	3.2	26,6	-	-

* SDR 7,4 Saldatura testa a testa/Butt welding

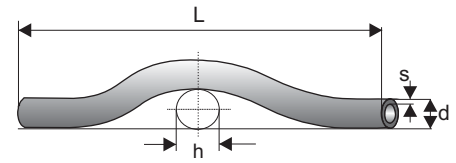
**SDR 6



NFOOSO

SDR 6 swan neck

Tubo di sorpasso
Courbe de dépassement SDR 6
Salvatubos SDR 6

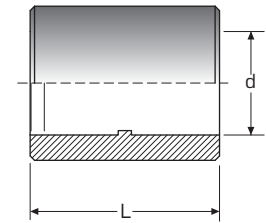


Code	Size	d	s	h	L	Weight (gr)	Bag	Box	Euro Price
-200	20	20	3.5	20.5	6.3	35	150	150	
-250	25	25	4.0	25.0	7.1	65	100	100	
-320	32	32	5.5	32.5	8.0	80	60	60	

NF13MA

Socket

Manicotto
Manchon
Manguito

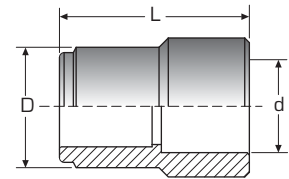


Code	Size	d	L	Weight (gr)	Bag	Box	Euro Price
-200	20	20	39	12,5	10	600	
-250	25	25	43.5	19	10	400	
-320	32	32	48.5	34,5	5	230	
-400	40	40	49.5	50	5	150	
-500	50	50	56.5	88		90	
-630	63	63	65	165		50	
-750	75	75	76.5	283		36	
-900	90	90	90	380		20	
-1110	110	110	113.5	849		12	
-1125**	125	125	-	600		-	
-1160BW**	160	160	-	-		-	

NF13RM

M-F reducing bush

Riduzione M-F
Reduction M-F
Reducción M-H



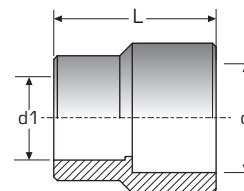
Code	Size	D-d	L	Weight (gr)	Bag	Box	Euro Price
-2520	25/20	25-20	41.0	12,5	10	700	
-3225	32/25	32-25	53.5	25	10	400	
-4032	40/32	40-32	51.0	35	5	220	
-5032	50/32	50-32	60.0	39	2	150	
-5040	50/40	50-40	52.0	63		150	
-6320	63/20	63-20	63.5	70		100	
-6350	63/50	63-50	58.0	98		70	
-7550	75/50	75-50	61.0	120		50	
-7563	75/63	75-63	66.0	161		30	
-9063	90/63	90-63	84.5	278		30	
-9075	90/75	90-75	84.5	330		20	
-11063	110/63	110-63	-	-		-	
-11075	110/75	110-75	-	-		-	
-11090	110/90	110-90	101.5	545		-	
-12590	125/90	125-90	108.0	660		-	
-125110	125/110	125-110	114.0	700		-	
-160110BW	160/110	160-110	-	-		-	
-160125BW	160/125	160-125	118.5	820		-	

NF13RF
F-F reducing bush

Riduzione F-F

Réduction F-F

Reducción H-H



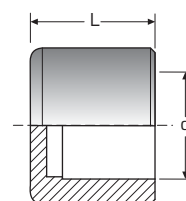
Code	Size	d - d1	L	Weight (gr)	Bag	Box	Euro Price
-2520	25/20	25-20	38,5	-	10	400	
-3220	32/20	32-20	48,5	-	10	350	
-3225	32/25	32-25	52,5	-	10	300	
-4020	40/20	40-20	38,5	-	5	250	
-4025	40/25	40-25	43	-	5	250	
-4032	40/32	40-32	48	-	5	180	
-5032	50/32	50-32	61	-	-	100	
-5040	50/40	50-40	55	-	-	90	
-6320	63/20	63-20	58	-	-	50	
-6325	63/25	63-25	64	-	-	50	
-6332	63/32	63-32	66	-	-	50	
-6340	63/40	63-40	59,5	-	-	50	
-6350	63/50	63-50	60	135	-	50	
-7550	75/50	75-50	76	-	-	60	
-7563	75/63	75-63	76	260	-	30	
-9050	90/50	90-50	80	-	-	30	
-9063	90/63	90-63	84,5	-	-	20	
-9075	90/75	90-75	84,5	395	-	20	
-11075	110/75	110-75	101,5	-	-	12	
-11090	110/90	110-90	101,5	-	-	12	
-12590**	125/90	125-90	115	-	-	-	
-125110**	125/110	125-110	118,5	-	-	-	

NF16CA
End Cap

Calotta

Bouchon

Tapón final



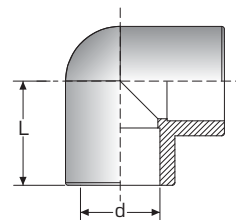
Code	Size	d	L	Weight (gr)	Bag	Box	Euro Price
-20	20	20	24	9	20	900	
-25	25	25	29,5	15	10	600	
-32	32	32	32	26	10	350	
-40	40	40	30,5	32	5	200	
-50	50	50	38	77	-	100	
-63	63	63	43,5	144	-	60	
-75	75	75	48	209	-	50	
-90	90	90	54	356	-	30	
-110	110	110	60	687	-	20	
-125	125	125	68	820	-	-	
*-160BW	160	160	-	-	-	-	

NF16GO
90° F-F elbow

Gomito a 90° F-F

Coude à 90° F-F

Codo 90° H-H



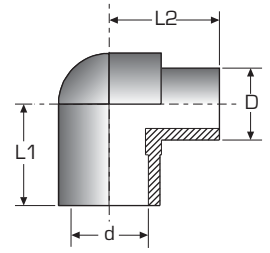
Code	Size	d	L	Peso Weight (gr)	Bag	Box	Euro Price
-200	20	20	29,5	19	10	400	
-250	25	25	35	31	10	250	
-320	32	32	40	62	5	150	
-400	40	40	45	77	5	90	
-500	50	50	50	163	-	60	
-630	63	63	60	260	-	30	
-750	75	75	73	431	-	18	
-900	90	90	93	750	-	12	
-1110	110	110	110	1492	-	6	
-1125**	125	125	141,5	2080	-	-	
*-1160BW	160	160	145	2296	-	-	



NF16GP

90° M-F elbow

Gomito a 90° M-F
Coude à 90° M-F
Codo 90° M-H

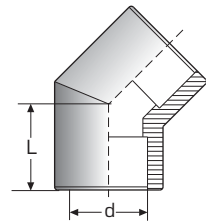


Code	Size	d	D	L1	L2	Peso Weight (gr)	Busta Bag	Scatola Box	Euro Price
-200	20	20	20	29	32.5	19	10	500	
-250	25	25	25	35	38	31	10	250	
-320	32	32	32	40	43	62	5	150	
-400	40	40	-	-	-	75	-	-	

NF16GM5

45° elbow

Gomito a 45°
Coude 45°
Codo 45°



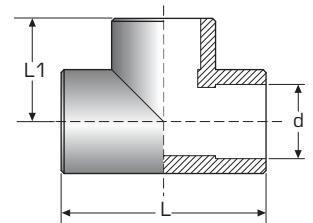
Code	Size	d	L	Weight (gr)	Bag	Box	Euro Price
-20	20	20	23	17	10	500	
-25	25	25	30	39	10	300	
-32	32	32	34	36	5	200	
-40	40	40	37	56	5	100	
-50	50	50	39	105		70	
-63	63	63	50	224		34	
-75	75	75	51	298		25	
-90	90	90	64	570		14	
-110	110	110	72.5	949		8	
-125	125	125	78.5	1257			
*-160BW	160	160	97	1540			

* SDR 7,4 Saldatura testa a testa/Butt welding
**SDR 6

NF14TE

90° tee

Derivazione a T 90°
Té à 90°
Te 90°



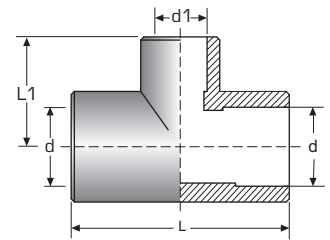
Code	Size	d	L	L1	Weight (gr)	Bag	Box	Euro Price
-200	20	20	59	29.5	28	10	300	
-250	25	25	70	35	42	10	180	
-320	32	32	79	39.5	61	5	120	
-400	40	40	89	44.5	89	5	70	
-500	50	50	101	50.5	185		34	
-630	63	63	122	61	331		20	
-750	75	75	145	72.5	581		16	
-900	90	90	190	94	1163		8	
-1110	110	110	220	110	2006		4	
-1125**	125	125	282	141	2851		-	
*1160BW	160	160	290	145	3494		-	

* SDR 7,4 Saldatura testa a testa/Butt welding

**SDR 6

NF14TR
90° reducing tee

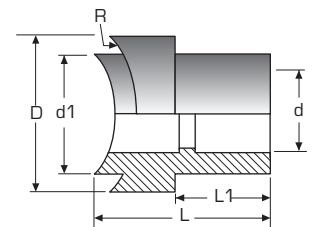
Derivazione a T 90° ridotta
 Té à 90° réduit
 Te 90° reducida



Code	Size	dxd1xd	L	L1	Weight (gr)	Bag	Box	Euro Price
-202520	20x25x20	20x25x20	70	30	52	10	200	
-252020	25x20x20	25x20x20	70	30	52	10	200	
-125	25x20x25	25x20x25	70	30	52	10	200	
-322020	32x20x20	32x20x20	81	30		5	200	
-320	32x20x32	32x20x32	81	30	63	5	200	
-325	32x25x32	32x25x32	81	44.5	70	5	120	
-425	40x25x40	40x25x40	89	44.5	91	5	70	
-432	40x32x40	40x32x40	89	50.5	100	5	70	
-532	50x32x50	50x32x50	101	50.5	169	5	50	
-540	50x40x50	50x40x50	101	50.5	178	5	40	
-632	63x32x63	63x32x63	122	61	325		24	
-640	63x40x63	63x40x63	122	61	321		24	
-650	63x50x63	63x50x63	122	61	316		24	
-740	75x40x75	75x40x75	145	60.5	550		16	
-750	75x50x75	75x50x75	145	60.5	550		16	
-763	75x63x75	75x63x75	145	64.5	579		16	
-940	90x40x90	90x40x90	190	69.0	980		8	
-950	90x50x90	90x50x90	190	69.0	970		8	
-963	90x63x90	90x63x90	190	72.5	1047		8	
-975	90x75x90	90x75x90	190	75.5	1056		4	
-11063	110x63x110	110x63x110	220	90	1837		4	
-11075	110x75x110	110x75x110	220	95	1856		2	
-11090	110x90x110	110x90x110	220	102.5	1806		2	
-12575**	125x75x125	125x75x125	282	141	-		1	
-12590**	125x90x125	125x90x125	282	141	-		1	
-125110**	125x110x125	125x110x125	282	141	-		1	
*-16075BW	160x75x160	160x75x160	290	130	-		1	
*-16090BW	160x90x160	160x90x160	290	130	2020		1	

NF13SL
Weld saddle

Raccordo a sella
 Collier de prise a souder
 Collarin a soldar



Code	Rxd	D	d1	L	L1	Weight (gr)	Bag	Box	Euro Price
-4020	40/20	37,2		41,5	21,5	15			
-4025	40/25	37,2		43	23	18			
-5020	50/20	37,2		41,5	21,5	18			
-5025	50/25	37,2		43	23	20			
-6320	63/20	37,2		41,5	21,5	20			
-6325	63/25	37,2		43	23	24			
-6332	63/32	37,2		-	-	-			
-7520	75/20	37,2		41,5	21,5	18			
-7525	75/25	37,2		43	23	20			
-7532	75/32	37,2							
-7540	75/40	37,2							
-9020	90/20	37,2		41,5	21,5	20			
-9025	90/25	37,2		43	23	22			
-9032	90/32	37,2							
-9040	90/40	37,2							
-11020	110/20	37,2		41,5	21,5	21			
-11025	110/25	37,2		43	23	24			
-11032	110/32	37,2							
-11040	110/40	37,2							
-11050	110/50	37,2							
-12520	125/20	37,2							
-12532	125/32	37,2							
-12540	125/40	37,2							
-12550	125/50	37,2							
-12563	125/63	37,2							

* SDR 7,4 Saldatura testa a testa/Butt welding

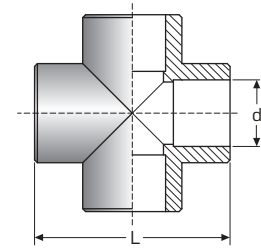
**SDR 6



NF14CR

Cross

Croce
Croix
Cruz

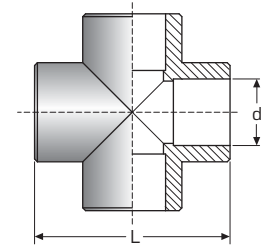


Code	Size	D	L	Weight (gr)	Bag	Box	Euro Price
-32		32	40	40	5	80	
-40		40	45	110	5	50	

NF14CR

Reducing Cross

Croce ridotta
Croix reduit
Cruz reducida



Code	Size	dxd1xd	L	L1	Weight (gr)	Bag	Box	Euro Price
-532	50x32x50	50x32x50				5		
-632	63x32x63	63x32x63				5		
-640	63x40x63	63x40x63				5		
-732	75x32x75	75x32x75						
-740	75x40x75	75x40x75						
-750	75x50x75	75x50x75						
-950	90x50x90	90x50x90						

NFTPR

Hole mender

Tappo riparafori
Bouchon reparaiteurs
Tapón reparaorificios



Code	Size	Weight (gr)	Bag	Box	Euro Price
	7/11		10	100	

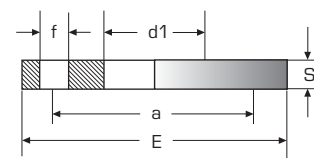
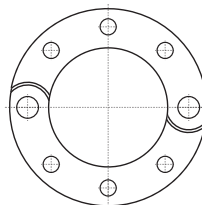
* SDR 7,4 Saldatura testa a testa/Butt welding

**SDR 6

NFFL

Flange4 (PPGF)

Flangia (PPCV)
Bride
Brida



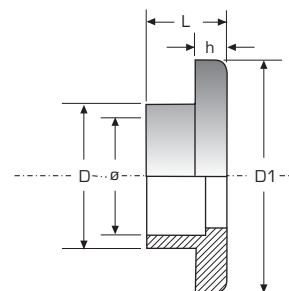
U = number of holes

Code	Size	DN Flange	d1	s	a	f	E	U	Weight (gr)	Bag	Box	Euro Price
-500	1" 1/2	40	58	18	110	18	152	4	295	-	-	-
-630	2"	50	76	18	125	18	165	4	325	-	50	-
-750	2" 1/2	65	90	20	145	18	185	8	445	-	40	-
-900	3"	80	107	20	160	18	200	8	450	-	30	-
-1100	4"	100	130.5	24	180	18	220	8	610	-	22	-
-1125	5"	125	164.5	26	210	18	250	8	785	-	-	-
-160	6"	160	184	28	240	22	285	8	1080	-	13	-

NF13CPF

Flange neck

Colletto per flangia
Collettere pour brides
Valona para bridas



Code	Size	ø	D	D1	L	h	Weight (gr)	Bag	Box	Euro Price
-500	50	50	58.5	88	33	12	64	-	-	-
-630	63	63	74.5	102	37	14	96	-	80	-
-750	75	75	89.5	122	40	16	155	-	50	-
-900	90	90	106.5	138	44	17	208	-	42	-
-1100	110	110	130	158	47.5	18	296	-	25	-
-1125**	125	125	188	162	56.5	25	570	-	-	-
-160BW*	160	160	160	207.5	96.5	25	1200	-	-	-

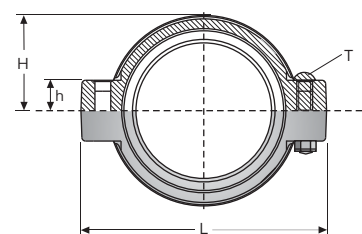
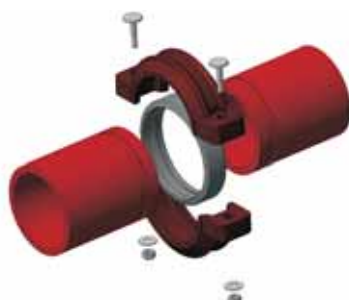
NFAR1710

ALFARAPID Clamp Joint

Giunto Alfarapid
Collier Alfarapid
Collarín Alfarapid



For grooved pipes



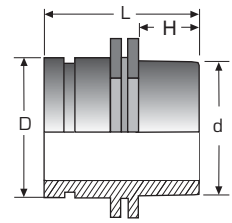
Code	Size	DN		L	H	h	T	Weight (gr)	Bag	Box	Euro Price
		in	mm								
	1" 1/2	1" 1/2	48.3	120	39.7	16	M10x50	290	-	65	-
	2"	2"	60.3	133	46	16	M10x50	340	-	50	-
	2" 1/2	2" 1/2	76.1	152	56	20	M10x50	430	-	40	-
	3"	3"	88.9	174.5	62	25	M12x70	590	-	25	-
	4"	4"	114.3	199.5	78	25	M12x70	835	-	18	-
	6"	6"	168.3	281	106	28	M12x70	1100	-	-	-



NFAR213

Socket Welding adaptor

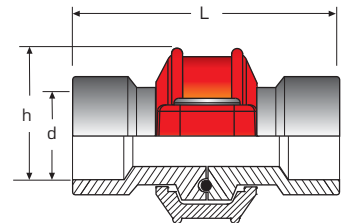
Adattatore per polifusione
Adpteur à souder
Unión polifusión



Code	Size	DN x d		H	L	Weight (gr)	Bag	Box	Euro Price
		in	mm						
	2"x50	2"x1½"	60.3x50	26.5	81.5	80			
	2"x63	2"x2"	60.3x63	30.5	85.5	82			
	2"x75	2"x2½"	60.3x75	33.5	88.5	107			
	2½"x63	2"1/2x2"	76.1x63	30.5	87.5	115			
	2½"x75	2"½x2"½"	76.1x75	33.5	90	126			
	3"x75	3"x2½"	88.9x75	33.5	90	170			
	3"x90	3"x3"	88.9x90	40	97	183			
	3"x110	3"x4"	88.9x110	66.5	123.5	228			
	4"x90	4"x3"	114.3x90	40	100	213			
	4"x110	4"x4"	114.3x110	66.5	126.5	270			

NF13ARFF

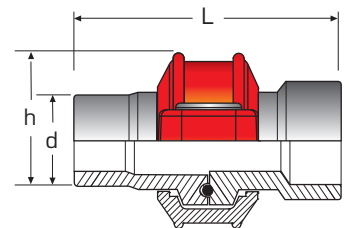
Bocchettone a tre pezzi
Pipe Union
Union
Unión



Code	Size	d	L	H	Weight (gr)	Bag	Box	Euro Price
-200	20							
-250	25							
-320	32							
-400	40							
-500	50							
-630	63							
-750	75							
-900	90							
-1110	110							
-1125**	125							
-1160BW**	160							

NF13ARFM

Bocchettone a tre pezzi
Pipe Union
Union
Unión



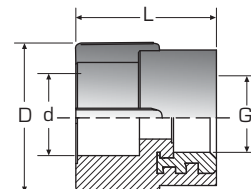
Code	Size	d	L	h	Weight (gr)	Bag	Box	Euro Price
-120	20							
-125	25							
32	32							
40	40							
50	50							
63	63							
75	75							
90	90							
110	110							
125	125							
160	160							

* SDR 7,4 Saldatura testa a testa/Butt welding

**SDR 6

NF13FF
Female adaptor female thread

Adattatore femmina filettato femmina
 Adaptateur femelle taraudé
 Unión hembra rosca hembra



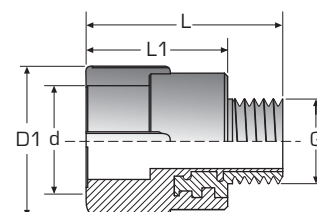
Code	Size	dxG	D	L	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	38	40.5	52	10	200	
-220	20x3/4"	20x3/4"	44	42	74	10	120	
-125	25x1/2"	25x1/2"	47	47	63	10	120	
-225	25x3/4"	25x3/4"	47	44.5	85	10	120	
-	32x1/2"	32x1/2"	-	-	-	-	-	
-032	32x3/4"	32x3/4"	47	44.5	80	5	120	
-132	32x1"	32x1"	60	60	241	5	50	
-	40x1/2"	40x1/2"	-	-	-	-	-	
-	40x3/4"	40x3/4"	-	-	-	-	-	
-140	40x1"	40x1"	55	49.5	152	5	60	
-240	40x1 1/4"	40x1 1/4"	79.5	65	355	5	35	
-150	50x1 1/2"	50x1 1/2"	79.5	74	470	-	30	
-163	63x2"	63x2"	102	86	676	-	15	
-	75x2"	75x2"	-	-	-	-	-	
-175	75x2 1/2"	75x2 1/2"	112	76	215	-	12	
-190	90x3"	90x3"	-	-	-	-	-	
-1100	110 x 4"	110 x 4"	-	-	-	-	-	



■ Tutte le filettature dal 1" in su sono dotate di esagono esterno

NF13FM
Female adaptor male thread

Adattatore femmina filettato maschio
 Adaptateur femelle fileté
 Unión hembra rosca macho



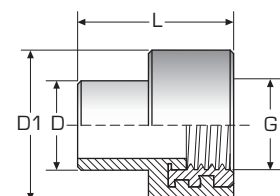
Code	Size	dxG	D1	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	38	55	40	75	10	180	
-220	20x3/4"	20x3/4"	44	58	42.5	104	10	120	
-125	25x1/2"	25x1/2"	44	62	47	81	10	120	
-225	25x3/4"	25x3/4"	47.5	59	44	113	10	100	
-	32x1/2"	32x1/2"	-	-	-	-	-	-	
-032	32x3/4"	32x3/4"	47	58.5	44	116	5	100	
-132	32x1"	32x1"	60	76	48.5	300	5	50	
-140	40x1"	40x1"	55	67.5	49.5	213	5	50	
-240	40x1 1/4"	40x1 1/4"	73	88.5	51.5	506	5	35	
-	50x1 1/4"	50x1 1/4"	-	-	-	-	-	-	
-150	50x1 1/2"	50x1 1/2"	79.5	97	58.5	632	2	24	
-	63x1 1/2"	63x1 1/2"	-	-	-	-	-	-	
-163	63x2"	63x2"	102	111.5	69	1082	2	-	
-	75x2"	75x2"	-	-	-	-	-	-	
-175	75x2 1/2"	75x2 1/2"	110	105	61	2500	2	12	
-190	90x3"	90x3"	-	-	-	-	-	-	
-1100	110 x 4"	110 x 4"	-	-	-	-	-	-	



■ Tutte le filettature dal 1 1/4" in su sono dotate di esagono esterno
 Tutte le filettature dal 1 1/4" in su sono dotate di esagono esterno

NF13MF
Male adaptor female thread

Adattatore maschio filettato femmina
 Adaptateur mâle taraudé
 Unión macho rosca hembra



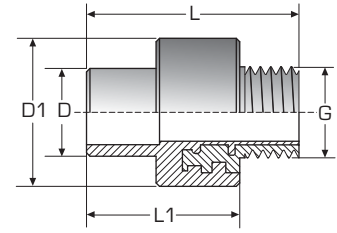
Code	Size	DxG	D1	L	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	35	40.5	54	10	300	
-125	25x1/2"	25x1/2"	35	42.5	54	10	160	
-225	25x3/4"	25x3/4"	43	45	65	10	150	
-032	32x3/4"	32x3/4"	43	46.5	179	5	300	
-132	32x1"	32x1"	52.5	50.5	33	5	100	



NF13MM

Male adaptor male thread

Adattatore maschio filettato maschio
Adaptateur mâle fileté
Unión macho rosca macho



Code	Size	DxG	D1	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	35	55	40.5	72	10	220	
-125	25x1/2"	25x1/2"	35	57.5	42.5	74	10	150	
-225	25x3/4"	25x3/4"	43	60	45	102	10	140	
-032	32x3/4"	32x3/4"	43	62.5	46.5	75	5	110	
-132	32x1"	32x1"	52.5	68.5	50.5	310	5	80	

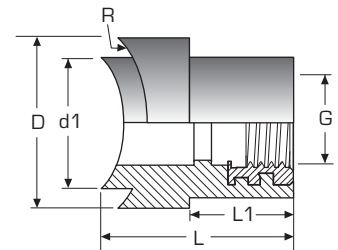


Tutte le filettature dal 1"1/4 in su sono dotate di esagono esterno
Tutte le filettature dal 1"1/4 in su sono dotate di esagono esterno

NF13SF

Weld saddle female thread

Raccordo a sella con inserto
Collier de prise a souder taraudé
Collarin a soldar rosca hembra



Code	Size	RxG	d1	D	L	L1	Weight (gr)	Bag	Box	Euro Price
-4012	40 x 1/2"	40 x 1/2"	25	37.2	41.5	21.5				
-4034	40 x 3/4"	40 x 3/4"	25	37.2	43.5	23.5				
-5012	50 x 1/2"	50 x 1/2"	25	37.2	41.5	21.5				
-5034	50 x 3/4"	50 x 3/4"	25	37.2	43.5	23.5				
-6312	63 x 1/2"	63 x 1/2"	25	37.2	41.5	21.5				
-6334	63 x 3/4"	63 x 3/4"	25	37.2	43.5	23.5				
-7512	75 x 1/2"	75 x 1/2"	25	37.2	41.5	21.5				
-7534	75 x 3/4"	75 x 3/4"	25	37.2	43.5	23.5				
-	75 x 1"	75x1"	25	37.2	45	25				
-9012	90 x 1/2"	90 x 1/2"	25	37.2	41.5	21.5				
-9034	90 x 3/4"	90 x 3/4"	25	37.2	43.5	23.5				
-	90 x 1"	90 x 1"	25	37.2	45	25				
-11012	110 x 1/2"	110 x 1/2"	25	37.2	41.5	21.5				
-11034	110 x 3/4"	110 x 3/4"	25	37.2	43.5	23.5				
-110	110 x 1"	110x1"	25	37.2	45	25				
-	125 x 1/2"	125 x 1/2"	25	37.2	41.5	21.5				
-	125 x 3/4"	125 x 3/4"	25	37.2	43.5	23.5				
-	125 x 1"	125 x 1"	25	37.25	45	25				

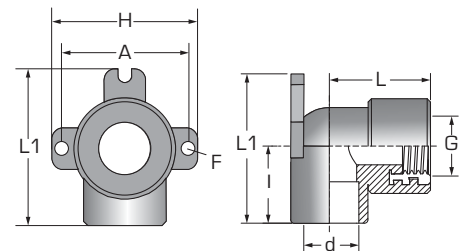


Tutte le filettature dal 1" in su sono dotate di esagono esterno

NF16GZ

90° end elbow female thread

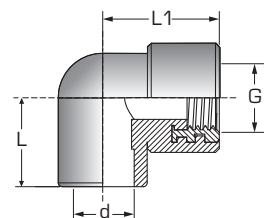
Gomito terminale 90° filettato femmina
Coude à 90° taraudé avec étrier
Codo terminal 90° rosca hembra



Code	Size	DxG	L	L1	I	H	A	F	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	38.5	57	28.5	56	45	5	72	5	110	
-125	25x1/2"	25x1/2"	45.5	67.5	35	64	52	5.5	74	5	70	
-225	25x3/4"	25x3/4"	45.5	67.5	35	64	52	5.5	102	5	70	

NF16GF
90° female elbow female thread

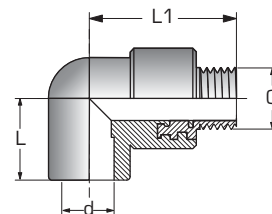
Gomito a 90° femmina fil. femmina
 Coude a 90° femelle taraudé
 Codo 90° hembra rosca hembra



Code	Size	dxG	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	28	39.5	66	10	160	
-	20 x 3/4"	20 x 3/4"	28	39.5	-	10	160	
-125	25x1/2"	25x1/2"	35	46	71	10	120	
-225	25x3/4"	25x3/4"	35	46	91	10	100	
-132	32x1/2"	32x1/2"	40	40	84	5	60	
-232	32x3/4"	32x3/4"	40	40	84	5	60	
-332	32x1"	32x1"	45	45	187	5	40	
-	40x1/2"	40x1/2"	-	-	-	5	40	
-240	40x1"	40x1"	45	45	170	5	40	

NF16GM
90° female elbow male thread

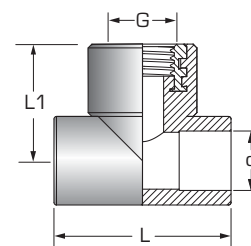
Gomito a 90° femmina fil. maschio
 Coude a 90° femelle fileté
 Codo 90° hembra rosca macho



Code	Size	dxG	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"	20x1/2"	39.5	54	89	10	140	
-125	25x1/2"	25x1/2"	46	50	89	10	120	
-225	25x3/4"	25x3/4"	46	58	135	10	90	
-132	32x1/2"	32x1/2"	40	54.5	109	5	70	
-232	32x3/4"	32x3/4"	40	57.5	125	5	50	
-332	32x1"	32x1"	45	63	252	5	40	
-240	40x1"	40x1"	45	63	228	5	40	

NF14TF
90° tee female thread

Derivazione a T a 90° fil. femmina
 Derivation en T à 90° taraudé
 Te 90° rosca hembra



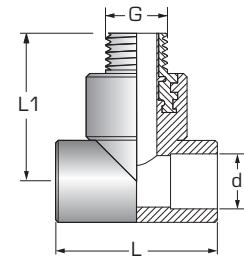
Code	Size	dxG	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"x20	20x1/2"	56	39	83	10	120	
-	20x3/4"x20	20x3/4"	-	-	-	-	-	
-125	25x1/2"x25	25x1/2"	70	35	78	10	80	
-225	25x3/4"x25	25x3/4"	70	46	96	10	60	
-132	32x1/2"x32	32x1/2"	79.5	40	93	5	60	
-232	32x3/4"x32	32x3/4"	79.5	40	95	5	50	
-332	32x1"x32	32x1"	89.5	46	211	5	30	
-	40x1/2"x40	40x1/2"	-	-	-	-	-	
-	40x3/4"x40	40x3/4"	-	-	-	-	-	
-	40x1"x40	40x1"	89.5	46	181	5	30	
-	50x1"	50x1"	-	-	-	-	-	
-	50x1"1/4x50	50x1"1/4	-	-	-	-	-	



NF14TM

90° tee male thread

Derivazione a T a 90° fil maschio
 Derivation en T à 90° fileté
 Te 90° rosca macho

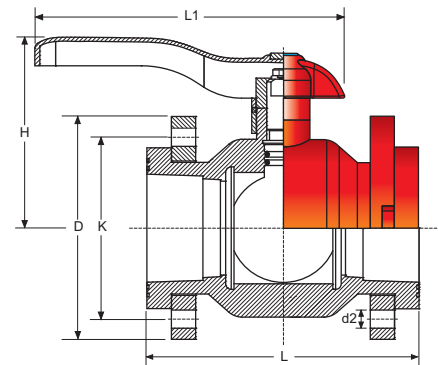


Code	Size	dxGxd	L	L1	Weight (gr)	Bag	Box	Euro Price
-120	20x1/2"x20	20x1/2"	56	54.5	105	10	110	
-125	25x1/2"x25	25x1/2"	70	51.5	95	10	100	
-225	25x3/4"x25	25x3/4"	70	64	154	10	60	
-132	32x1/2"x32	32x1/2"	79.5	58	117	5	45	
-232	32x3/4"x32	32x3/4"	79.5	59.5	134	5	30	
-332	32x1"x32	32x1"	89.5	64	271	5	30	
-240	40x1"x40	40x1"	89.5	65.5	240	5	30	

NF18VCFL

Flanged Valve

Valvola con attacco flangiato
 Vanne 1/4 de tour avec brides
 Vålvula de esfera con brida

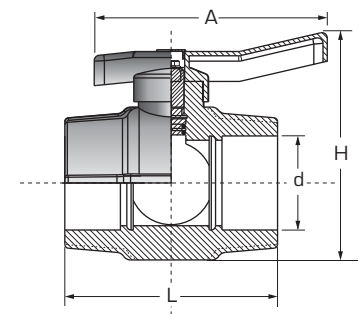


Code	Size	DN (mm)	D	K	d2	N° holes	L	L1	H	Weight (gr)	Bag	Box	Euro Price
63 - 40	63	40	152	110	18	4	167	150	116	1050		-	
63 - 50	63	50	165	125	18	4	171	150	116	1065		-	
75 - 50	75	50	165	125	18	4	171	150	128	2200		-	
75 - 65	75	65	185	145	18	8	171	150	128	4500		4	
90 - 65	90	65	185	145	18	8	216	305	162	2800		-	
90 - 80	90	80	200	160	18	8	227	305	162	3050		-	
110 - 80	110	80	200	160	18	8	254	305	172	3600		2	
110 - 100	110	100	220	180	18	8	265	305	172	7400		-	
125 - 100	125	100	220	180	18	8	265	305	187	5000		2	

NF18VC

Valvola a sfera compatta

Ball Valve
 Vanne à bille
 Vålvula de bola



Code	Size	d	L	H	A	Weight (gr)	Bag	Box	Euro Price
-120	20	20	73.5	74	84.5	125		60	
-125	25	25	77.5	74	84.5	140		60	
-132	32	32	89	92	108	215		35	
-140	40	40	97.5	105	108	360		20	
-150	50	50	112	114	108	510		13	
-163	63	63	131.5	150	150	970		7	
-175	75	75	151	162	150	1450		4	
-190	90	90	186	197	187	4600		4	
-1110	110	110	214	215	305	5900		3	
-1125	125	125	240	285	305	7100		2	
-1160BW	160	160	206	285	305	6500		1	

NFOOSPLIT

Split pin for sprinkler outlet



Code	Size	Box	Euro Price
			on request

NFOOCUP

Cup for sprinkler outlet



Code	Size	Box	Euro Price
			on request

NFOOPLUG

Plug for sprinkler outlet



Code	Size	Box	Euro Price
			on request

OOPOLIF

Welding Tool

Polifusore
Polyfuseur
Polifusor



Code	Size	Box	Euro Price
	20-63	1	

OOSA

Fixed thermostat welding kit

Matrix ø 20-25-32

Polifusore con matrice ø 20-25-32 e valigetta
Kit à thermostat fixe avec matrice ø 20-25-32
Maleta polifusor con matriz ø 20-25-32



Code	Size	Box	Euro Price
-240	20-63	1	

OOPOLIF125

Welding tool ø 125

Polifusore ø 125
Polyfuseur ø 125
Polifusor ø 125



Code	Size	Box	Euro Price
-125	20-125	1	

OOSA

Fixed thermostat welding kit

Matrix ø 63-75-90-110

Polifusore con matrice e valigetta ø 63-75-90-110
Kit polyfuseur avec matrice ø 63-75-90-110
Maleta Polifusor con matriz ø 63-75-90-110



Code	Size	Box	Euro Price
-1125	20-125	1	

OOSABANC

Welding machine

Saldatrice da banco
Presses a souder
Soldadora



Code	Size	Euro Price
- 125	63-125	



OOMP

Heating tool

Matrice per Polifusore
Outil à soudage
Matriz para polifusor



Code	Size	Euro Price
-120	20	
-125	25	
-132	32	
-140	40	
-150	50	
-163	63	
-175	75	
-190	90	
-1110	110	
-1125	125	

OOMRS

Saddle welding tool

Matrice per raccordi a sella
Outil pour collier
Matriz para collarin



Code	Size	Box	Euro Price
-6320	63x20		
-6325	63x25		
-6332	63x32		
-7520	75x20		
-7525	75x25		
-7532	75x32		
-9020	90x20		
-9025	90x25		
-9032	90x32		
-11020	110x20		
-11025	110x25		
-11032	110x32		

OOFRS

Cutter for saddle welding

Fresa per matrici a sella



Codice/Code	Misura/Size	Euro Price
-20	20	
-25	25	
-32	32	

DIMA

Level Template

Dima
Plaque à montage
Plantilla



Codice/Code	Misura/Size	Euro Price
DIMA	1/2"	

OOMARF

Hole mender

Matrice riparatori
Set de réparation
Matriz repararificios



Codice/Code	Misura/Size	Euro Price
-A	7	
-B	11	

OOTTS

Cutting nippers special

Tronchese tagliatubi special
Coupe-tube special
Tijeras special



Codice/Code	Misura/Size	Euro Price
-40	0 - 40	
-75	0 - 75	

OOTAT

Roller pipe-cutter

Tagliatubo a rotella
Coupe-tube avec roulette
Corta-tubos



Codice/Code	Misura/Size	Euro Price
-UB	0 - 63	
-UB-B	0 - 140	

00930

Deburring tool for PE and PPR pipes

Sbavatore per tubi PE/PPR
Ebarboir pour tuyaux PE et PPR
Rebarbador para tubos PE y PPR



Codice/Code	Misura/Size	Euro Price
00930	0-40	



comunicazione@plasticalfa.it



PLASTICA ALFA

Zona Industriale C.da Balchino - 95041 CALTAGIRONE (CT) Italy
Tel. +39.0933.51973 - Fax +39.0933.53049
comunicazione@plasticalfa.it - exportdpt@plasticalfa.it - www.plasticalfa.it

absolutely made in italy



Member of Green Building Council Italia

