

 **PLASTITALIA**^{S.p.a.}
high performance fittings



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الشركة المتخصصة للصناعات البلاستيكية
Specialized Co. For Plastic Industries
(الصغير و مرار)

sandmplastic.com



About us

Founded in 1976, Specialized Co. for plastic industries was established under the name of Soghayyir & Marrar (S&M), with its headquarters and principal manufacturing site located in the heart of Jordan, Amman.

The company has been the pioneer in:

- UPVC Pipes & fittings manufacturing.
- HDPE Pipes & fittings production.
- CPVC Pipes & fittings Production.
- Corrugated HDPE Pipes & fittings.
- Solvent Cements and Pipe joining materials.
- Plastic Manholes and SMC Manhole Covers.
- Infrastructure supplies and accessories.



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Our Expertise

Years of experience have contributed towards our ranking as a major influence in the plastics industry.

At the Specialized company we provide products, solutions, services and the necessary technical back-up to our clients.

We are a well formed team of specialized engineers and professionals who have the expertise in every critical area of plastic production and development.

Our Commitment

Every time we open our doors we continue a commitment that has been growing since 1976; a happier customer and a satisfied client. We believe that we are not number one but you are.



Quality Assurance Testing



1. Certification:
S&M Products had been approved by the Royal scientific Society.



2. Performance Tests:
Performance tests are carried out on the S&M Pipes System as per DIN, ISO and EN.



3. Raw materials:
Ensuring that raw materials used comply with requirements of DIN, ISO and EN.



4. Visual & Dimensional Control:
Thickness & outside diameter are regularly checked on each pipe production batch to ensure their compliance with the required specifications.



5. Physical Tests:
The following tests are done regularly:

- Longitudinal Heat Reversion test as per DIN, ISO and EN.
- Strength Test at elevated temperature as per DIN 8075

OUR SERVICES



1. Technical consulting.



2. Supply of complete range of pipes, fittings, welding machines and accessories.



3. Supply of welding machines and welding testing equipments.



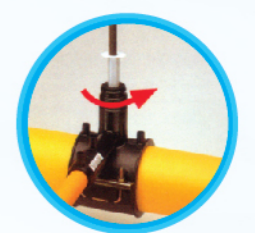
4. Supervision and technical assistance during pipe installation.

Gas Pipe System



Complete gas supply system can be made.

*Available in HDPE for liquefied & fermentation gas.



Field Of Application

PE pressure pipe products range consists of a wide assortment of pipes and fittings. They are available in many diameters, pressure classes & in three material types, namely PE 100 naturally, all pipes and fittings conform to the highest quality standards and norms.

They are used as:

● Drinking - Water:

Pipes (WRc approved), mainly in domestic pipe systems and especially for potable water house connections.

● Sewage pipes:

Urban and rural networks Sewage Pipes, mainly for aggressive sewage and in drinking water protection areas.

● Irrigation Pipes:

For drip irrigation and for drum-type irrigation plants.

● Industrial Pipelines:

For the transport of aggressive fluids (acids, lyes, brine).

● Geothermal Pipelines

Pipes for high temperature and water.



● Cooling - Water Pipelines:

In power stations and for high voltage cables.

● Discharge Pipelines:

For hospitals and residential buildings.

● Chlorination lines:

In power plants & gas plants.

Optical Fiber Telephone Cable System Accessories



HDPE Single Sub ducts:

Polyethylene single sub ducts are manufactured and tested for quality as per DIN 8074, 8075 and special requirements of Ministry of Communications, JORDAN HDPE single Sub ducts are supplied in coils with lengths up to the requirements of JTC contractors.

Dimension:

- Outside diameter: 32mm + 0.3mm
- Wall thickness: 2mm + 0.4mm

Technical specifications:

- Density: 0.94 g/cm³
- Melt index: 0.4 - 0.7 g/10min.
- Coefficient of linear expansion: 1.5x10⁻⁴xK⁻¹

Manufacturing Standards

Manufactures HDPE according to International standards **ISO 4427**
German standards **DIN 8074 & 8075**
British standards **BS 6437 & 6730 AWWA C 906 - 90**

1. PIPE LENGTH:

Pipes up to and including 125mm in diameter are supplied in either straight or as coils.

2. STRAIGHT LENGTH:

Straight pipes are supplied in different lengths according to client's requirements.
The standard length of straight pipes is 6 & 12 M.

3. STANDARD COILS:

Coils of 50, 100, 150, 200 & 500 m are available in pipe sizes 16mm up to and including 125mm.
Other coil lengths may be provided upon request.

Advantages:

HDPE pipes and fittings present the following advantages compared with other materials:

1. International acceptance for drinking water and food systems conforms to requirements of ministry of health.
2. Corrosion resistance. Resistance to most chemical.
3. Resistant to UV radiation pipes can be uncovered on the ground.
4. Flexibility, allowing for ground movement.
5. High flexibility & low weight make for convenient & easy installation.

WARNING TAPES & BOARDS

INTERGARD FEATURES

Light Weight

For easy handling and installation.

Non - Corrosive

For a very long service life.

Resistant To Chemicals

Rendering Integrated suitable for a wide range of soil conditions.

Bright Colorations

To ensure maximum visibility.

Custom made

To meet clients exact requirements.
Tapes are available in (Black Blue, Yellow, Red, upon request).



JOINTING SYSTEMS



Electro fusion Jointing:

An electro fusion control box is used to pass a constant current through an electro fusion fitting which contains an integral heating element.

The combination of temperature and pressure caused by the heating and expansion of the polyethylene forms a homogeneous joint between the pipe and fitting.

Fusion equipment for butt fusion and electro fusion jointing can be obtained from S&M's Sales Department.



Compression Fittings Jointing:

Compression fittings are installed easily on the PE Pipes.

Their components - the body and nut, clenching ring and the rubber O-Ring-ensure a frequent, quick assembly and disassembly of the pipe system.

Proper connection of the pipe end is achieved by hand tightening the nut and this ensures the perfect positioning of the O-Ring and the resistance to hydraulic forces.



Butt Fusion Jointing:

The ends of the pipe and fittings are trimmed. Cleaned and then raised to a preset temperature for a specific time by a heating tool.

The molten joint surfaces are brought together with a firm constant pressure and allowed to cool.

The joint surfaces fuse together to form a perfectly homogeneous joint, eliminating completely the risk of operator error and further ensuring the system's integrity.



BUTT FUSION | AUTOMATED WELDING

Technical features:

Materials	HDPE/PP/PB/PVDF
Working range	Ø 200 ÷ 500 mm
Power supply	230 VAC Single phase 50/60 Hz 400 VAC Three phase 50/60 Hz
Total absorbed power	7950 W (230 V); 7200 W (400 V)
Memory	4000 report
Working temperature	180° ÷ 280° C
Pressure working range	0 ÷ 150 bar
Weight body machine	230 Kg
Weight gearcase	37 Kg
Dimension body machine	1265x790x780 mm
Dimension gearcase	585x384x463 mm





Compression Fittings

* Other dimensions are available upon request



Compression Fittings

* Other dimensions are available upon request

Donsen



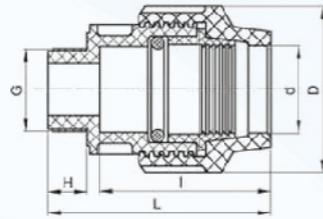
Donsen



Male Adapter

D

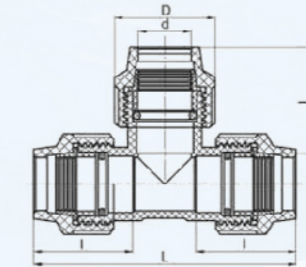
Ø 25 x 3/4"	Ø 63 x 1.1/2"
Ø 25 x 1"	Ø 63 x 2"
Ø 32 x 3/4"	Ø 90 x 3"
Ø 32 x 1"	Ø 110 x 4"



90° Equal Tee

D

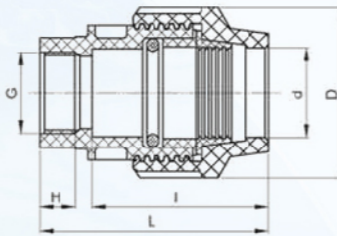
Ø 25 x 25 x 25
Ø 32 x 32 x 32
Ø 63 x 63 x 63
Ø 110 x 110 x 110



Female Adapter

D

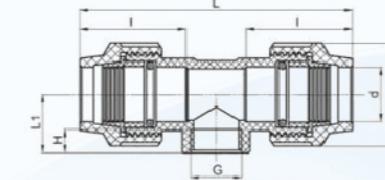
Ø 25 x 3/4"	Ø 63 x 1.1/2"
Ø 25 x 1"	Ø 63 x 2"
Ø 32 x 3/4"	Ø 90 x 3"
Ø 32 x 1"	Ø 110 x 4"



90° Tee with threaded female take off

D

Ø 25 x 25 x 1/2"	Ø 32 x 32 x 1"
Ø 25 x 25 x 3/4"	Ø 63 x 63 x 1.1/2"
Ø 25 x 25 x 1"	Ø 63 x 63 x 2"
Ø 32 x 32 x 3/4"	Ø 110 x 110 x 4"

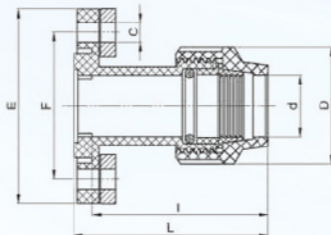


Flanged adaptor

reinforcement flange made of zinc-plastic steel

D

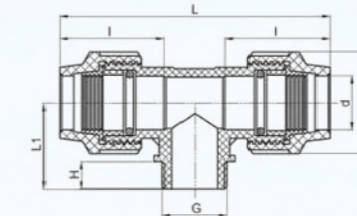
Ø 63 x 2"	DN80
DN50	Ø 110 x 4"
Ø 90 x 3"	DN100



90° Tee with threaded male take off

D

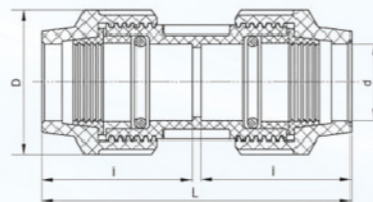
Ø 25 x 25 x 3/4"	Ø 32 x 32 x 1"
Ø 25 x 25 x 1"	Ø 63 x 63 x 1.1/2"
Ø 32 x 32 x 3/4"	Ø 63 x 63 x 2"



Coupling

D

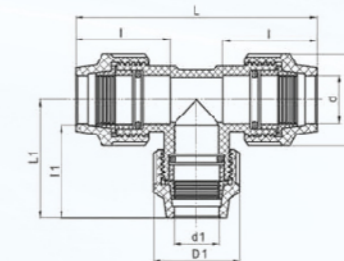
Ø 25 x 25	Ø 63 x 63
Ø 32 x 32	Ø 75 x 75
Ø 40 x 40	Ø 90 x 90
Ø 50 x 50	Ø 110 x 110



90° Reducing tee

D

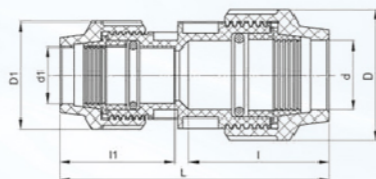
Ø 25 x 32 x 25	Ø 63 x 25 x 63
Ø 32 x 25 x 32	Ø 63 x 32 x 63
Ø 50 x 25 x 50	Ø 75 x 63 x 75
Ø 50 x 32 x 50	Ø 90 x 63 x 90
	Ø 110 x 90 x 110



Reducing Coupling

D

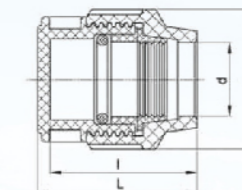
Ø 32 x 25	Ø 63 x 32
Ø 50 x 25	Ø 63 x 50
Ø 50 x 32	Ø 75 x 63
Ø 63 x 25	Ø 90 x 63
	Ø 110 x 90



End Cap

D

Ø 25	Ø 75
Ø 32	Ø 90
Ø 63	
Ø 110	



Donsen

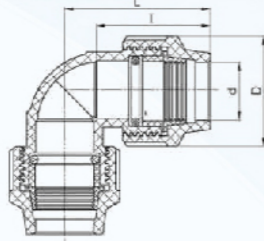


Donsen



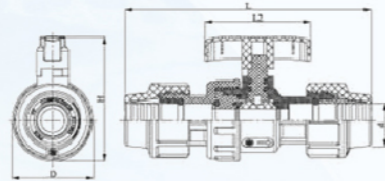
■ 90° Elbow

D	
Ø 25 x 25	Ø 75 x 75
Ø 32 x 32	Ø 90 x 90
Ø 50 x 50	Ø 110 x 110
Ø 63 x 63	



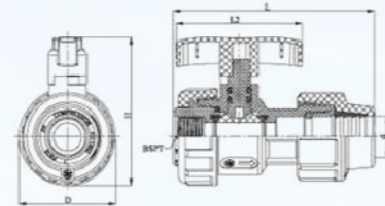
■ Double union ball valve (Straight insert) PN16

D
Ø 23
Ø 25
Ø 63



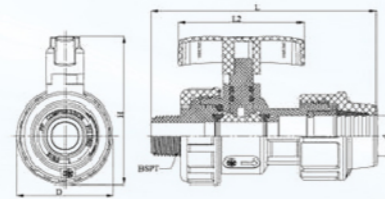
■ Single union ball valve (Female thread and ST) PN16

D
Ø 25 x 3/4"
Ø 32 x 1"
Ø 63 x 2"



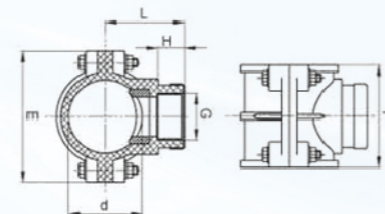
■ Single union ball valve (Male thread and ST) PN16

D
Ø 25 x 3/4"
Ø 32 x 1"
Ø 63 x 2"



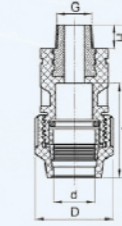
■ Clamp saddle with reinforcing ring PN16

D		
Ø 25	Ø 63	Ø 110
Ø 32	Ø 75	Ø 160
Ø 50	Ø 90	Ø 180



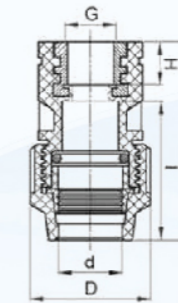
■ Male adaptor with brass threaded insert

D	
Ø 63 x 2"	Ø 32 x 1"
Ø 25 x 3/4"	Ø 32 x 2"



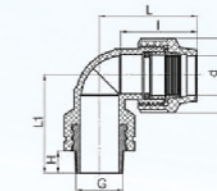
■ Female adaptor with brass threaded insert

D	
Ø 63 x 2"	Ø 32 x 1"
Ø 25 x 3/4"	Ø 32 x 2"



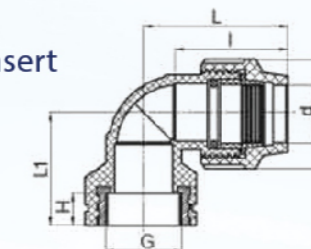
■ 90° Elbow male with brass threaded insert

D	
Ø 63 x 2"	Ø 32 x 1"
Ø 25 x 3/4"	Ø 32 x 2"



■ 90° Elbow female with brass threaded insert

D	
Ø 63 x 2"	Ø 32 x 1"
Ø 25 x 3/4"	Ø 32 x 2"



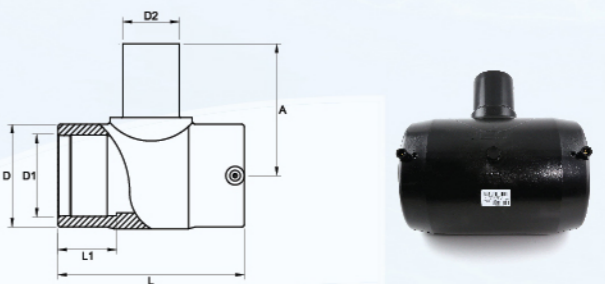

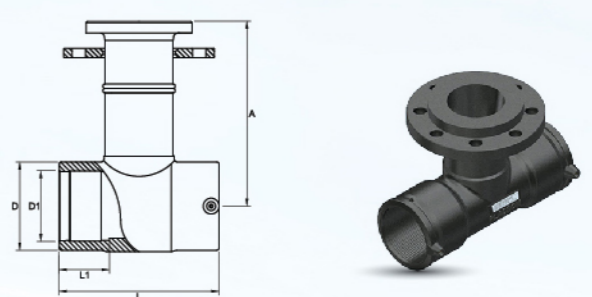
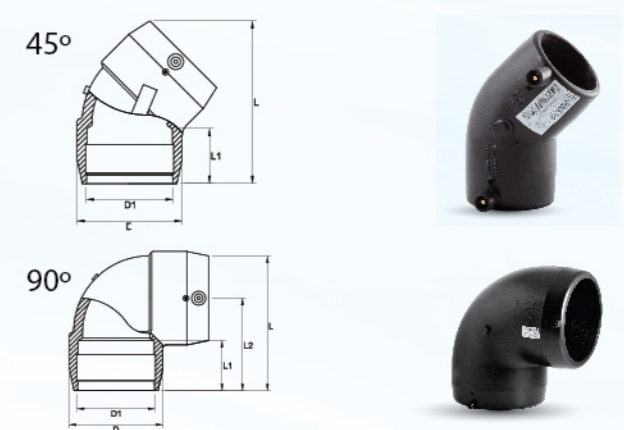


Made in Italy

Description	Size D		
EF Coupling	25	125	
	32	160	
	63	180	
	90	200	
	125	315	
EF End Cap	25	125	
	32	160	
	63	180	
	90	200	
	125	315	
EF Reducer	32 - 25	90 - 63	
	63 - 32	180 - 125	
	125 - 90	250 - 200	
	110 - 63	200 - 180	
	63 - 25		
Tapping FLEXTee	63 - 25	125 - 32	
	63 - 32	125 - 63	
	110 - 25	160 - 32	
	110 - 32	180 - 32	
	125 - 25	200 - 32	
EF Equal Tee	25	160	
	32	180	
	63	200	
	110	250	
	125	315	



Made in Italy

Description	Size D		
EF Reducing Tee	63 - 25	160 - 63	
	63 - 32	160 - 90	
	90 - 63	160 - 110	
	110 - 63	180 - 125	
	125 - 63	200 - 180	
	125 - 110	250 - 200	
PE Flange Adapter	63	180	
	75	200	
	90	225	
	110	250	
	160	315	
EF Flange Tee	63 - 25		
	63 - 32		
	125 - 100		
	160 - 150		
EF Elbow (90° + 45°)	25	160	
	32	180	
	63	200	
	90	250	
	110	315	



Made in Italy

Description	Size D		
End Cap	<ul style="list-style-type: none"> Ø 50 Ø 63 Ø 75 Ø 90 Ø 110 Ø 140 Ø 160 	<ul style="list-style-type: none"> Ø 180 Ø 200 Ø 225 Ø 250 Ø 280 Ø 315 	 
	<ul style="list-style-type: none"> Ø 50 Ø 63 Ø 75 Ø 90 Ø 110 Ø 125 	<ul style="list-style-type: none"> Ø 160 Ø 200 Ø 225 Ø 250 Ø 280 Ø 315 	 
Elbow 90°	<ul style="list-style-type: none"> Ø 90 Ø 110 Ø 125 Ø 140 Ø 160 Ø 180 	<ul style="list-style-type: none"> Ø 200 Ø 225 Ø 250 Ø 280 Ø 315 	 
	<ul style="list-style-type: none"> Ø 90 Ø 110 Ø 125 Ø 140 Ø 160 Ø 180 	<ul style="list-style-type: none"> Ø 200 Ø 225 Ø 250 Ø 280 Ø 315 	 



Made in Italy

Description	Size D		
Flange Adaptor Injection	<ul style="list-style-type: none"> Ø 90 Ø 110 Ø 125 Ø 160 Ø 200 	<ul style="list-style-type: none"> Ø 225 Ø 250 Ø 280 Ø 315 	 
	<ul style="list-style-type: none"> Ø 200 - 180 Ø 225 - 200 Ø 250 - 180 	<ul style="list-style-type: none"> Ø 250 - 200 Ø 250 - 225 Ø 315 - 250 	 
Reduced Tee	<ul style="list-style-type: none"> Ø 50 - 32 Ø 50 - 25 Ø 63 - 50 Ø 63 - 32 Ø 90 - 63 Ø 110 - 90 Ø 110 - 75 Ø 110 - 63 	<ul style="list-style-type: none"> Ø 125 - 110 Ø 125 - 90 Ø 180 - 160 Ø 180 - 125 Ø 180 - 110 Ø 200 - 160 Ø 200 - 110 Ø 200 - 63 	 



Made in Italy



Made in Italy

PIPE SCRAPERS

PS 400 | PS 180



ALIGNER 63

Working range :
Ø 20 ÷ 63 mm



Turbo Kit

Ø 20mm, Ø 25mm,
Ø 32mm, Ø 40mm,
Ø 50mm, Ø 63mm



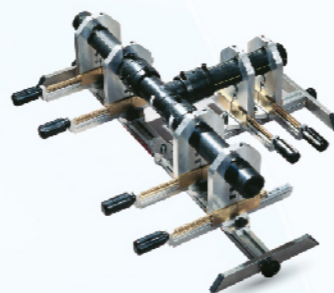
PIPE CUTTERS

TC 108 : Ø 6 ÷ 50 mm	TU 140 : Ø 50 ÷ 140 mm
T1 : Ø 6 ÷ 64 mm	T3 : Ø 100 ÷ 160 mm
TU 75 : Ø 6 ÷ 76 mm	T4 : Ø 180 ÷ 315 mm



ALIGNER 160 LIGHT

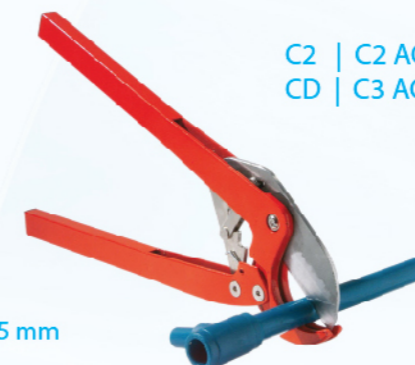
Working range :
Ø 63 ÷ 160 mm



SHEARS

4 Models

C2 | C2 AC
CD | C3 AC



MAX 75 mm

SQUEEZER 63

Ø 16 ÷ 63 mm
SDR 11 ÷ SDR 17



PIPE SCRAPERS RTC

RTC 160 | RTC 315 | RTC 710



ALIGNER 125 - 500

For welding:
45° - 90°
in line - T

Working range :
Ø 125 ÷ 500 mm





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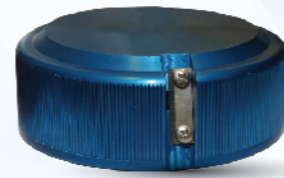
REROUNDER

- Rerounder 250 - 400
- Rerounder 450 - 560
- Rerounder 630 - 800



CHAMFERING

- Chamfering 20 : Ø 20 mm
- Chamfering 25 : Ø 25 mm
- Chamfering 32 : Ø 32 mm
- Chamfering 40 : Ø 40 mm



ROLLERS

2 Models

LIGHTWEIGHT ROLLER UNIT :
max Ø 315 mm 10" DIPS



1600 ROLLER UNIT :
max Ø 1600 mm

BEVELERS

- SME 1 : Ø 25 ÷ 160 mm | Thickness max 10 mm
- SME 2 Plus : Ø 40 ÷ 315 mm | Thickness max 35 mm



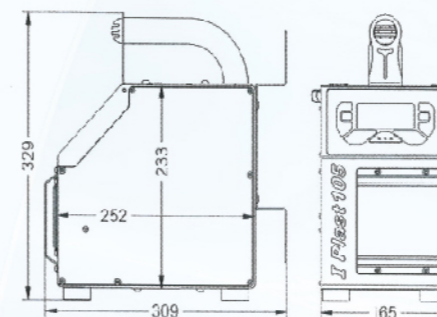
Made in Italy



I plast 105

High performance universal electrofusion machine

Max working range	Up to 1200 mm
Fusable material	PE / PEX / PP / PP-R
Included	Graphic display Laser Scanner Universal adapters Manual Scraper Memory drive Transport box
Standards	ISO 13950 DVS 2207 CEI EN 60335
	ISO 12176 UM10566 ECEI





S & M[®] Identifier

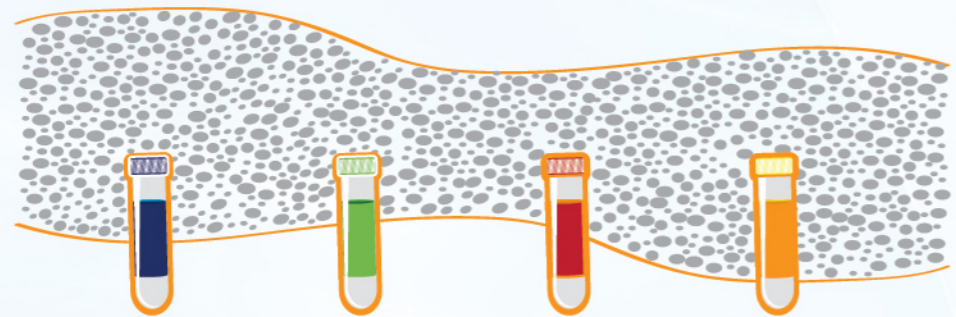
Electronic Identifier shall be installed over proposed underground networks being Water, Waste Water Utilities, Electric Power Utilities & Telecommunication Utilities according to the following specs:

Features:

- Low Cost.
- Durable.
- Reduces locating time.
- Protects against accidental dig-in damage.
- Avoids unnecessary digging.
- Eliminates high costs associated with traces wires.
- No signal application access point required.
- Immune to lightning damage.



NEW



Utility	Water	Waste Water	Electrical	Telecommunication
	Blue	Green	Red	Orange
Frequency	145.7 KHz	121.6 KHz	169.8 KHz	101.4 KHz
Accuracy	± 1%			
Depth Range	60 to 150 cm			
Operation Temp. °C	-40 to +70			
Storage Temp. °C	-40 to + 85			

S & M[®] TESTING

S&M HDPE pipes go through various of tests before being sold to the customer to ensure the highest quality and safety:

1) Type Test (TT)

Test performed to prove that the material, product, joint or assembly is capable of conforming to the requirements given in the relevant standards.

2) Batch Release Test (BRT)

Test performed by a third party laboratory on a batch of compound or products, which is satisfactorily completed before the batch can be released.

3) Process Verification Test (PVT)

Test performed by a third party laboratory on compound or products or joints or assemblies as specific intervals to confirm that type tests originally performed on the compound or products or joints or assemblies continue to be valid and the process continues to be capable of producing products which conform to the requirements given in the relevant standard.

4) Audit test (AT)

Test performed by a third party laboratory on behalf of inspection body to confirm that the product continues to conform to the requirements given in the relevant standards and to provide information to assess the effectiveness of the quality management system.

The type of tests that S&M HDPE Pipes go through can be classified as the following:

- 1) Appearance
- 2) Colour
- 3) Effect on water quality
- 4) Geometrical characteristics
- 5) Hydrostatic strength (20 C, 100 h)
- 6) Hydrostatic strength (80 C, 165 h)
- 7) Hydrostatic strength (80 C, 1000 h)
- 8) Elongation at break
- 9) Oxidation induction time (Thermal Stability)
- 10) Melt mass-flow rate (MFR)
- 11) Longitudinal reversion
- 12) Marking



Water Table Of Dimensions

S&M pipe Manufactures according to ISO, DIN & Bs Standards, Dimensions, Weight & Wall thickness of verious pressures.

Nominal Outside Diameter DA (mm)	Pipe Series							
	S 8		S 5		S 4		S 3.2	
	Standard Dimension Ratio							
	SDR 17		SDR 11		SDR 9		SDR 7.4	
Nominal Pressure PN								
	PN 10		PN 16		PN 20		PN 25	
	Wall Thick. (mm)	Weight (kg/m)	Wall Thick. (mm)	Weight (kg/m)	Wall Thick. (mm)	Weight (kg/m)	Wall Thick. (mm)	Weight (kg/m)
25	1.80	0.137	2.30	0.171	3.00	0.210	3.5	0.24
32	1.90	0.187	3.00	0.280	3.60	0.327	4.4	0.386
40	2.40	0.295	3.70	0.430	4.50	0.509	5.5	0.600
50	3.00	0.453	4.60	0.666	5.60	0.788	6.9	0.936
63	3.80	0.720	5.80	1.050	7.10	1.260	8.6	1.47
75	4.50	1.020	6.80	1.470	8.40	1.760	10.3	2.09
90	5.40	1.460	8.20	2.120	10.10	2.540	12.3	3.00
110	6.60	2.170	10.00	3.140	12.30	3.780	15.1	4.49
125	7.40	2.760	11.40	4.080	14.00	4.870	17.1	5.77
140	8.30	3.460	12.70	5.080	15.70	6.110	19.2	7.25
160	9.50	4.520	14.60	6.670	17.90	7.960	21.9	9.44
180	10.7	5.71	16.4	8.420	20.10	10.10	24.6	11.9
200	11.9	7.05	18.2	10.40	22.40	12.40	27.4	14.8
225	13.4	8.93	20.5	13.10	25.20	15.80	30.8	18.6
250	14.8	11.0	22.7	16.20	27.90	19.40	34.2	23.0
315	18.7	17.4	28.6	25.60	35.20	30.80	43.1	36.5
400	23.7	28.00	36.3	41.3	44.7	49.6	54.7	58.8
500	29.7	43.8	45.4	64.5	55.8	77.3	-	-
630	37.4	69.4	57.2	102.0	-	-	-	-
710	42.1	88.1	64.5	130.0	-	-	-	-
800	47.4	112.0	-	-	-	-	-	-

PE 100

HDPE PRESSURE PIPE PE100 = MRS 10 = SIGMA

Dimensioning according to DIN 8074 - ISO 4427 / 1167

Standard Length:	- Up to Da 125 = 100 m Coil - Da 140 - 630 = 12 m	Available on Request:	- Other length - Color - Pipes in other PN/SDR classes according to DIN 8074 / 8075
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Note: Pipe specification for PN25 and PN32 ratings are available upon request.

S&M supplied Corrugated systems is a multilayered sewer pipe system for gravitational and non - pressurized drainage made of HDPE (High Density Polyethylene) and PP (Polypropylene) in accordance with the international standards.

General information

- Cost effective; having low installation cost and supplied at very competitive pricing.
- Leakage proof; Multi layer construction and 100% water tightness
- Superior physical properties; High ring stiffness values and external load resistance
- Superior chemical resistance; Suitable for acidic liquid transfers and corrosive chemicals in waste water.
- Easy handling and installation; Light weight and simple installation methods.
- Temperature fluctuations resistant; Wide service temperature range.
- High abrasion resistance; The highest resistance to abrasion among the known plastic based raw materials.
- High flow performance; Low coefficient of friction and smooth inner surface.
- Long working life; the working life is 50 years for the reasons explained above.

Product properties

Corrugated Pipes meet the requirements of EN 13476-3 and other international standards.

Diameters (ID):

100, 150, 200, 250, 300, 400, 500, 600, 800, 1000

Ring Stiffness:

SN4, SN8

Structure:

Double layer

Colour:

Black outer surface,
Coloured inner surface (As requested)

Pipe length:

6 meters, 12 meters, as requested

Density:

HDPE: minimum of 0.95 gr/cm³,
PP: minimum of 0.9 gr/cm³



 **PLASTITALIA**^{S.p.a.}
high performance fittings



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