



مجموعة شركات أبناء محمد السيد
Mohamed El-Sayed Sons Group



since 1982



Nile Drip Company

For Modern Irrigation Technology

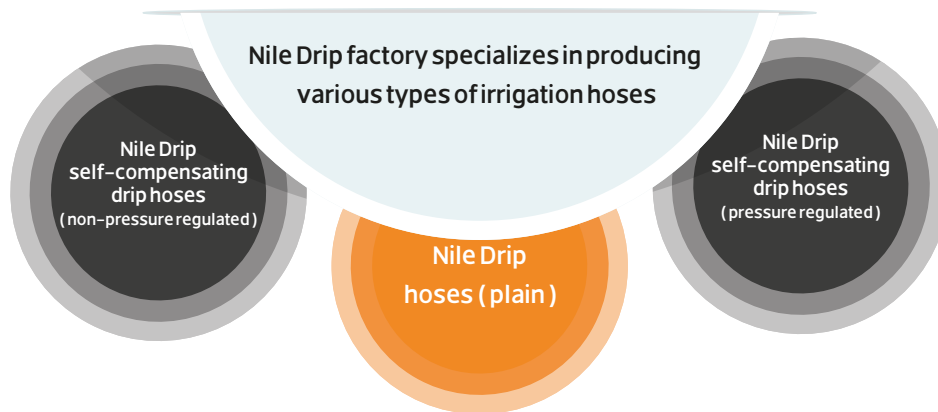
🌐 NILED RIP.COM



Nile Drip Company

For Modern Irrigation Technology

- Established in 2004 as one of the companies of the Sons of Mohamed El-Sayed Commercial Group, Nile Drip was founded to develop a high-quality national industry capable of competing with global products in the field of modern irrigation systems. The company specializes in manufacturing drip irrigation hoses in various diameters, ranging from 8 mm to 75 mm, as well
- as high-efficiency self-compensating drip hoses. Nile Drip is committed to maintaining the highest quality standards in raw materials and manufacturing technologies, while continuously developing its products to keep pace with advancements in the field of modern irrigation.



- Nile Drip factory always ensures adherence to quality standards to compete with the best global products.
- The hoses are manufactured using 100% pure raw materials to achieve our customers' goals by providing the longest possible warranty period.
- Additionally, we prioritize the use of high-quality additives to protect the hoses from UV radiation damage.
- Nile Drip hoses are manufactured using the latest global technology to ensure high efficiency and quality products.
- All products undergo testing within the company's laboratories using state-of-the-art testing equipment before being released to the market to ensure quality and operational efficiency.
- The company is dedicated to serving its customers by conducting necessary studies for projects and designing irrigation networks by a team of top consultants in the field.
- We also ensure continuous customer engagement through exhibitions and seminars to introduce the latest advancements in modern irrigation technology.
- Furthermore, we are committed to continuous communication with all our customers, welcoming their feedback and providing after-sales services to assist in solving any problems that may negatively affect the hoses' performance, such as filtration issues, pressure problems, or production issues.
- Nile Drip factory collaborates with leading global companies to update and develop production tools to keep pace with global advancements in this field.

Nile Drip Company

For Modern Irrigation Technology

Nile Drip Black Hoses

- Production of hoses starts from a diameter of 16 mm up to 75 mm. Hoses with diameters of 16 mm, 18 mm, and 20 mm are made
- of 100% pure raw materials in accordance with international standards.
- The hose is treated with UV material, providing it with the ability to withstand weather conditions, especially UV rays, which negatively affect the hose's lifespan.
- The hose functions as a sub-line in drip irrigation networks.
- Additionally, the hose is used in agricultural fields and nurseries.



Nile Drip HDPE Pipes

- Diameters range from 25 mm up to 75 mm.
- The pipes are manufactured from high-density polyethylene (HDPE), known for its resistance to chemicals.
- They are used in drinking water and irrigation pipelines.
- The hose is characterized by its high flexibility, making it easy to use and install.
- Moreover, it can be used underground, as it withstands soil pressure.



Diameter	SDR26 - PN6		SDR17 - PN10		SDR11 - PN16	
	Wall Thickness (mm)	Weight Kg / m	Wall Thickness (mm)	Weight Kg / m	Wall Thickness (mm)	Weight Kg / m
20					2.0	0.112
25					2.3	0.171
32			2.0	0.187	3.0	0.272
40			2.4	0.295	3.7	0.430
50	2.0	0.314	3.0	0.453	4.6	0.666
63	2.5	0.494	3.8	0.721	5.8	1.050
75	2.9	0.675	4.5	1.020	6.8	1.470
90	3.5	0.978	5.4	1.460	8.2	2.120
110	4.2	1.430	6.6	2.170	10	3.140

Nile Drip Company

For Modern Irrigation Technology

Nile Drip Non-Pressure Compensating (Non-PC)

- The company produces drip hoses with diameters of 16 mm, 18 mm, and 20 mm.
- The hoses are manufactured from 100% pure polyethylene.
- They are treated with UV material to provide resistance against weather conditions, especially UV rays, which negatively affect the hose's lifespan.
- The drippers are available with discharge rates of 2, 4, 5, 6, and 8 liters per hour to meet the needs of all customers according to crop types and each plant's water requirement.
- Dripper points inside the hose are installed at different intervals ranging from 20 cm to 100 cm according to the customer's needs.
- The drippers used inside the hoses are manufactured according to the latest American technology for Non-PC drip, registered in the Arab Republic of Egypt under number 34684 as a product of Nile Drip Company.



IN LINE DRIPPER 16mm

Diameter (mm) / Flow rate	16 - 2 L/h					16 - 4 L/h				
	Spacing Between Emitters (m)									
	Lateral Length (m)	0.3	0.33	0.5	0.75	1	0.3	0.33	0.5	0.75
	55	60	80	100	120	35	40	50	70	85

Diameter (mm) / Flow rate	16 - 2 L/h					16 - 4 L/h				
	Operation Pressure (Bar)									
Act. Flow	0.8	1	1.5	2	3	0.8	1	1.5	2	3
Rate (L/h)	1.9	2	2.2	2.6	2.9	3.9	4	4.4	4.6	4.9

♦ Recommended Working Pressure 1.0 Bar

IN LINE DRIPPER 20mm

Diameter (mm) / Flow rate	20 - 2 L/h					20 - 4 L/h				
	Spacing Between Emitters (m)									
	Lateral Length (m)	0.3	0.33	0.5	0.75	1	0.3	0.33	0.5	0.75
	60	80	120	160	200	60	70	90	120	150

Diameter (mm) / Flow rate	20 - 2 L/h					20 - 4 L/h				
	Operation Pressure (Bar)									
Act. Flow	0.8	1	1.5	2	3	0.8	1	1.5	2	3
Rate (L/h)	1.9	2	2.2	2.6	2.9	3.9	4	4.4	4.6	4.9

♦ Recommended Working Pressure 1.0 Bar

Nile Drip Company

For Modern Irrigation Technology

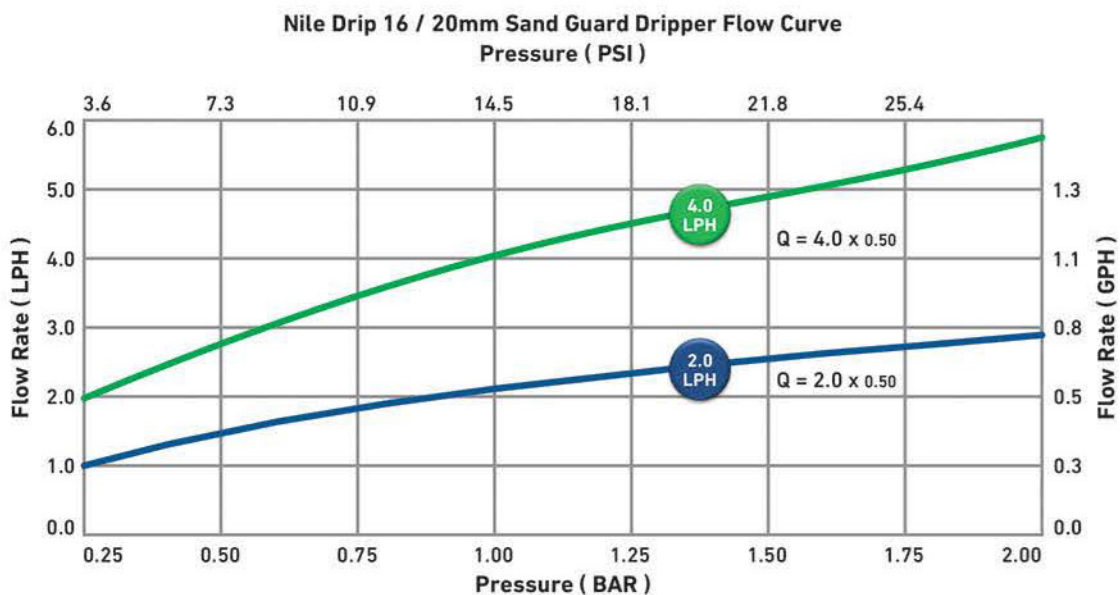
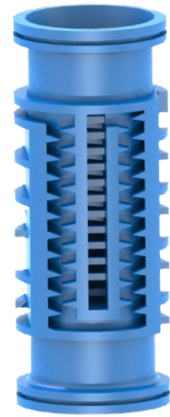


Nile Drip Dripper (SAND GUARD)

- It is an integrated non-pressure-compensating dripper characterized by its high resistance to clogging. It is specially designed for well water, where the water path inside the dripper is designed on a wide scale with long passages to ensure maximum resistance to clogging.

◆ Features and Benefits

- The dripper maintains flow consistency through its outlets with a flow variation rate of $< 5\%$.
- The effective design of the dripper allows for a long water path while maintaining an economical dripper size.
- High resistance to clogging: The combination of long passages and large interlocking sections in the dripper's design gradually allows sediments to pass through the surface of the passages without clogging the dripper.



Technical Data is To Be Used as A Guide Only. Actual Results May Vary Depending On Manufactured Pipe Characteristic.

Nile Drip Company

For Modern Irrigation Technology

Nile Drip Pressure Compensating (PC)

- Pressure-compensating drip hoses are produced with diameters of 16 mm and 20 mm.

- The hoses are manufactured from 100% pure polyethylene. They are treated with UV material to provide resistance against weather conditions, especially UV rays, which negatively affect the hose's lifespan.

The NILE DRIP-PC dripper is available with flow rates of 1.6, 2, and 4 liters per hour to meet the needs of all customers according to crop types and each plant's water requirement.

- Dripper points inside the hose are installed at different intervals ranging from 20 cm to 100 cm according to the customer's needs.

The NILE DRIP-PC dripper is characterized by its ideal water distribution due to its unique design, which ensures that it is unaffected by pressure variations or changes in soil surface levels, resulting in consistent water distribution from each dripper.

- It also allows for laying hoses over much longer distances compared to non-pressure-compensating drip hoses, as the regularity of the discharge covers a larger area while reducing the number of irrigation hours.

Moreover, the NILE DRIP-PC dripper is cost-effective in irrigation networks as it allows for the elimination of many sub-networks due to the ability to lay the hose over longer distances.

A 130-micron filter can be used as a minimum, considering that the type and sensitivity of the filter are determined according to the operating water conditions.



IN LINE DRIPPER PC 16mm

Diameter (mm) / Flow rate	16 - 2 L/h					16 - 4 L/h				
	Operation Pressure (Bar)									
Act. Flow	0.8	1	1.5	2	3	0.8	1	1.5	2	3
Rate (L/h)	1.7	2	2.1	2.15	2.2	3.7	3.9	4	4.2	4.2

Operating Pressure Range 0.8 ~ 3.0 Bar

IN LINE DRIPPER PC 20mm

IN LINE DRIFT FLOW CONTROL										
Diameter (mm) / Flow rate	20 - 2 L/h					20 - 4 L/h				
	Operation Pressure (Bar)									
Act. Flow	0.8	1	1.5	2	3	0.8	1	1.5	2	3
Rate (L/h)	1.7	2	2.1	2.15	2.2	3.7	3.98	4	4.2	4.2

Operating Pressure Range 0.8 ~ 3.0 Bar

Nile Drip Company

For Modern Irrigation Technology

Nile Drip Dripper (Storm) Pressure Regulating

- Suitable for fields with diverse terrain conditions (rough terrain), it has been developed for agricultural use to perform well in sloped areas and with long sub-lines.

◆ Features and Benefits

- Pressure regulating: It self-regulates the pressure to ensure a consistent flow rate even with pressure variations, making it the optimal choice for rough terrain, slopes, and long irrigation sub-lines.

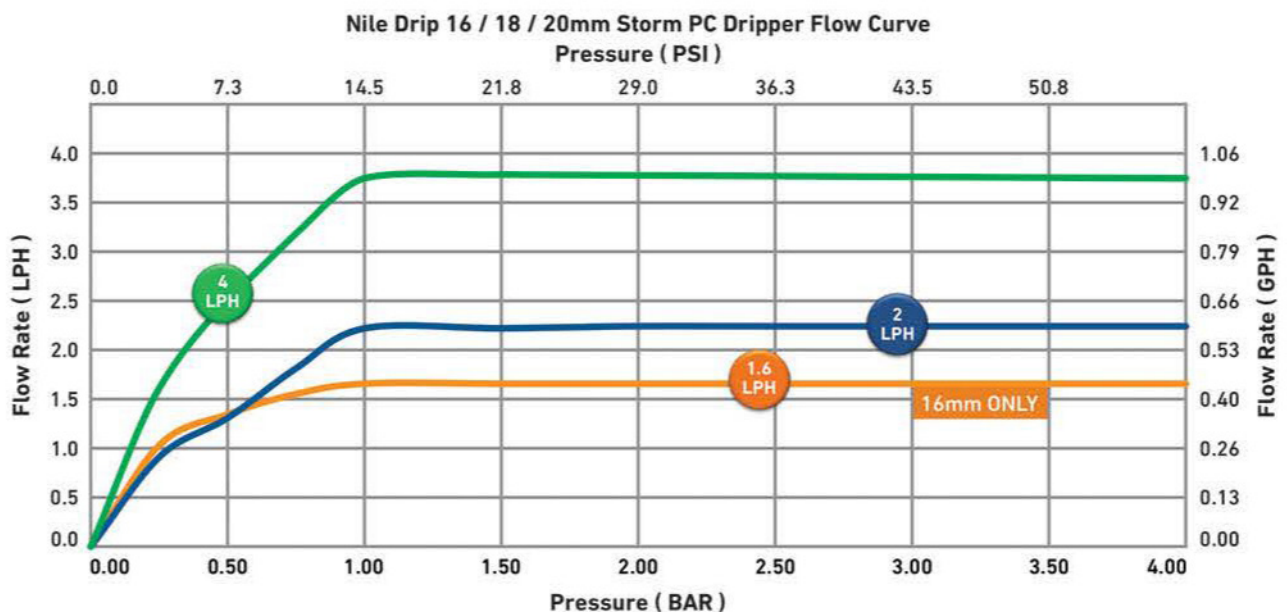
High performance: It provides a consistent and constant flow rate

- even with minimal pressure variations of less than 0.05%.

Ease of use: There is no sensitivity to points with changing field

- conditions such as slopes and uneven valleys.

Self-cleaning and clog-resistant: The dripper cleans itself through its silicone membrane and through the design of the water passage, ensuring that pressure regulation is not disrupted in case of entry of solid materials suspended in the water.



Technical Data is To Be Used as A Guide Only. Actual Results May Vary Depending On Manufactured Pipe Characteristics.

Nile Drip Company

For Modern Irrigation Technology

Nile Drip T-Tape

- The product is made from high-efficiency polyethylene material and is used in drip irrigation. It has a thin-wall thickness, with the drip portion in the form of a connected strip with wide water paths and multiple inlet openings to reduce the chances of clogging. The drip tape is attached to one edge along the length of the hose.

◆ Features and Benefits

- It offers the ability to vary flow rates and spacing between drips just like regular drip hoses, according to customer needs, at a very economical price compared to other drip hoses. It is lightweight, easy to install, use, disassemble, store, and reuse.
- Each hose roll can reach lengths of up to 1000 or 2000 meters as per customer request, with noticeable lightweight and compact roll size, making it economical in transportation and storage. Additionally, it does not require extra labor for laying and securing due to its noticeable lightweight and ease of handling, making it economical in installation costs as well.

◆ General features of the product

- The process of forming the hose, along with attaching the drip tape and creating the drip holes, is all done in one step to ensure optimal performance of the hose. It features wide water paths within the drip tape, along with a turbulent flow water system, in addition to multiple water inlets for each drip opening. This design enables it to resist clogging to the highest degree possible while maintaining consistent and steady flow rates.
- Manufactured from high-quality raw materials with excellent tensile properties, it is suitable for installation using machines. The maximum length for installation is 80 meters, with high resistance to corrosion. It offers various flow rates and spacing between drips according to customer needs, and it is lightweight, easy to transport, install, disassemble, store, and reinstall, making it suitable for a wide range of applications.





Nile Drip
C o m p a n y

www.niledrip.com



The background of the page features a large, detailed image of a modern industrial manufacturing facility. In the upper left, there's a blue banner with the company name. The main body of the page is white with blue accents. On the right side, there's a vertical image showing a complex machinery with rollers and conveyor belts, likely part of the agricultural film production process. The overall design is clean and professional, emphasizing industrial precision.

NileDrip Company

The Lifeline of Modern Agriculture

◆ Why Nile Drip Agricultural Films?

Consistent Quality. Advanced Manufacturing. Reliable Performance.

Nile Drip agricultural films combine carefully selected raw materials with advanced manufacturing technologies to deliver consistent quality and reliable performance across a wide range of agricultural applications.

— Advanced Manufacturing

Advanced German technology and multi-layer production ensure strong, durable, and consistent films.

— Precise Thickness Control

Automatic control systems maintain uniform thickness and consistent product specifications.

— Quality Raw Materials

Carefully selected raw materials and advanced additives deliver the required optical, thermal, and mechanical properties.

— Quality Control & Testing

Continuous quality control and laboratory testing ensure compliance with required specifications.

— Versatile Agricultural Solutions

Solutions designed for greenhouses, tunnels, mulching, soil disinfection, grape protection, and water-reservoir lining.

— Customer Support

Dedicated customer service and after-sales support with ongoing product follow-up.

Built for Agriculture. Engineered for Reliable Performance.

Greenhouse covering

Width (Meter)	1 : 12
ThickNess (Micron)	100 : 250

Manufactured according to customer's request.

◆ Applications

- Vegetables and fruits, including tomatoes, bell peppers, strawberries, cucumbers, peas, and more. Flowers and herbs, including basil, coriander, thyme, and other crops.



Low Tunnel Film

Width (Centimeter)	80 : 220
ThickNess (Micron)	40 : 80

Manufactured according to customer's request.

◆ Additives

- UV/IR/EVA/Antifog.....

◆ Applications

- Watermelon, moloKhia, cantaloupe, and other crops.



Mulch film

Width (Centimeter)	90 : 180
ThickNess (Micron)	20 : 40

Manufactured according to customer's request.

◆ Mulch Color:

- Silver / Brown
- Silver / Black
- Black

Available in different colors according to application and customer requirements.



Grape Cover Film

Width (Centimeter)	350 : 400
ThickNess (Micron)	80 : 120

Manufactured according to customer's request.

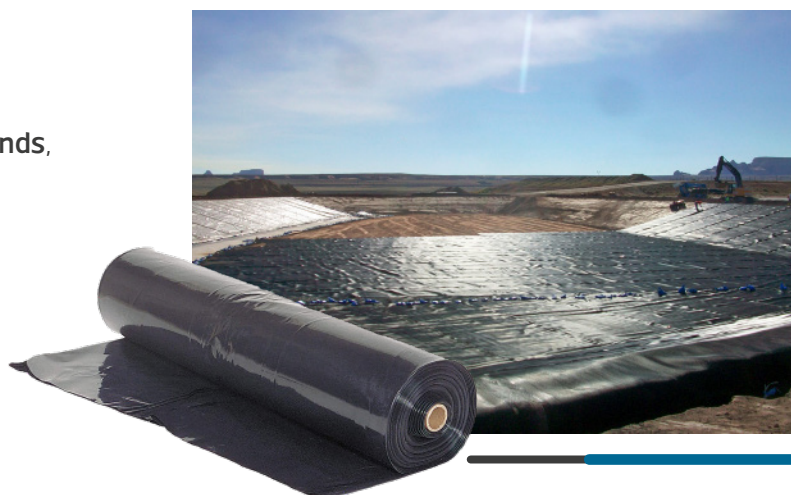


PE Geomembrane

- Water reservoirs, irrigation canals, ponds, and lining applications.

Width (Meter)	2.5 : 8
ThickNess (Micron)	0.150 : 5

Manufactured according to customer's request.



NileDrip Company

The Lifeline of Modern Agriculture

Solar Soil Disinfection Film

Width (Meter)	3.5 : 9
ThickNess (Micron)	30 : 40

Manufactured according to customer's request.



Seedling Bags



Banana Cover Bags



NileDrip Company

The Lifeline of Modern Agriculture

◆ Features of Global Pipes:

- 1** Global pipes are manufactured under an integrated quality system using the latest technologies according to standard specifications.
- 2** They are capable of withstanding various operating conditions when properly installed using suitable bedding and backfill. They possess sufficient flexibility, enabling them to resist bends caused by the movement of unstable soil types. This also makes them easy to install and eliminates the need for concrete foundations to prevent breakage.
- 3** Lighter in weight than traditional pipes used in the past, making them economical in transportation and requiring less labor for storage and installation.
- 4** They have a high capacity to withstand external static loads from soil layers and mechanical loads.
- 5** They have a high resistance to shocks and the likelihood of breakage during transportation and installation.
- 6** Produced from non-toxic raw materials, they do not affect the taste, color, or odor of water and do not allow the growth of bacteria or parasites, allowing them to be used in drinking water applications.
- 7** Being non-flammable, flames cannot spread along the pipe in case of fires due to their inherent flame resistance.
- 8** They have high resistance to almost all types of corrosion, whether chemical or electrochemical, such as acids, alkalis, oils, salt, moisture, etc.
- 9** They also serve as comprehensive insulation, making them ideal for passing electrical wires through.
- 10** They act as good heat insulation compared to other pipe systems. Therefore, they are ideal for transporting hot and cold fluids with low heat loss rates, thereby saving energy used in the heating process and reducing the costs of using thermal insulation.
- 11** Ease of installation, fixing, and maintenance due to their flexibility and lightweight nature.



■ Dimensions of Global UPVC Pipes according to German Standard DIN 8062 ■

The outer diameter (mm)	Socket Depth (mm)	The primary category 1 Bar		The second category 4 Bar		The third category 6 Bar		The fourth category 10 Bar		The fifth category 16 Bar	
		Wall thickness (mm)	Weight per meter (Kg)	Wall thickness (mm)	Weight per meter (Kg)	Wall thickness (mm)	Weight per meter (Kg)	Wall thickness (mm)	Weight per meter (Kg)	Wall thickness (mm)	Weight per meter (Kg)
25								1.5	0.174	1.9	0.212
32								1.8	0.264	2.4	0.342
40						1.8	0.334	1.9	0.35	3.0	0.525
50	75					1.8	0.422	2.4	0.552	3.7	0.809
63	100					1.9	0.562	3.0	0.854	4.7	1.29
75	110			1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82
90	110			1.8	0.774	2.7	1.13	4.3	1.75	6.7	2.61
110	115	1.8	0.95	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.90
125	120	1.8	1.08	2.5	1.48	3.7	2.13	6.0	3.34	9.3	5.01
140	125	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27
160	132	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17
180	145	1.8	1.57	3.6	3.02	5.3	4.37	8.6	6.88	13.4	10.40
200	145	1.8	1.74	4.0	3.70	5.9	5.37	9.6	8.51	14.9	12.80
225	152	1.8	1.96	4.5	4.70	6.6	7.76	10.8	10.80	16.7	16.10
250	160	2.0	2.40	4.9	5.65	7.3	8.31	11.9	13.20	18.6	19.90
280	170	2.3	3.11	5.5	7.11	8.2	10.40	13.4	16.60	20.8	24.90
315	180	2.5	3.78	6.2	9.02	9.2	13.20	15.0	20.90	23.4	31.50
355	180	2.9	4.88	7.0	11.40	10.4	16.70	16.9	26.50	26.3	39.90
400	200	3.2	6.10	7.9	14.50	11.7	21.10	19.1	33.70	29.7	50.80
450	200	3.6	7.65	8.9	18.30	13.2	26.80	21.5	42.70		
500	250	4.0	9.38	9.8	22.40	14.6	32.90	23.9	52.60		
560	260	4.5	11.80	11.0	28.10	16.4	41.40	26.7	65.80		
630	300	5.0	14.70	12.4	35.70	18.4	52.20	30.0	83.20		
710	320	5.7	18.90	14.0	45.30	20.7	66.10				
800	360	6.4	23.90	15.7	57.20	23.3	83.90				

◆ Global UPVC pipes vary according to the connection method



1 UPVC Pipes R-Type

This type of pipes is equipped from both ends, where one end is fitted with a rubber gasket to prevent water leakage under various operating pressures.



3 U-PVC Pipes U-Type

This method is suitable for pipes up to 63mm in size. For sizes larger than 63mm up to 200mm, they are customized according to the customer's preference. However, larger sizes often require special skills and typically require at least two people to efficiently complete the connection process.



2 UPVC Pipes Plan-Type

This type does not include any fittings and is produced according to customer requirements.

- **Length:**
6 meters or as per customer request.
- **Color:**
Gray or as per customer request.
- Larger sizes are manufactured according to customer requirements.





Atrab Company
For Modern Irrigation Systems

🌐 NILED RIP.COM

Atrab Company

For Modern Irrigation Systems

- Founded in 1994, Atrab is one of the companies of the Sons of Mohamed El-Sayed Commercial Group. The company was established to keep pace with the continuous development of modern irrigation systems and to meet the needs of the agricultural sector. Atrab specializes in supplying modern irrigation systems as an agent for leading international companies in drip irrigation and sprinkler irrigation technologies.



- The company has also expanded its activities beyond modern irrigation to provide solutions for agricultural tunnels and greenhouses. Through its expertise and commitment to quality, Atrab has earned the trust of leading international manufacturers and has become an authorized agent for their products in Egypt and several Middle Eastern markets.



Atrab Company

For Modern Irrigation Systems

Drippers

◆ J – Turbo Key

- The drippers are made of pure plastic materials treated to resist weather and ultraviolet rays to ensure high-quality performance and a longer lifespan.
- The dripper is characterized by ease of opening and cleaning, and it also cleans itself during operation.
- It can be operated with a pressure rate ranging from 1 bar to 3 bars.
- The minimum required filtration is 100 microns.
- Each dripper also has a color that distinguishes its flow rate:
 - Yellow color: 2 L/H
 - Black color: 4 L/H
 - Blue color: 8 L/H
 - Green color: 14 L/H
- The Turbo dripper is divided into three types:
 - Regular Turbo Dripper: Not equipped with a drainage tube for attaching distributors, and also not pressure regulated.
 - J-Turbo Key and Plus™ Dripper: Distinguished from the regular Turbo Dripper by having a prominent drainage tube separate from the dripper body for attaching distributors.
 - J-SC-PC Plus™ Pressure Compensating Dripper: Distinguished from the non-pressure regulated Turbo Plus Dripper by being equipped with an internal silicone membrane that stabilizes the flow rate throughout the operation period, even with changes in pressure rates or fluctuations in soil surface levels. This allows for extending hose lengths without causing any differences in flow rates between the beginning and end of the hose.



◆ Click tif-HD Dripper

- The dripper design consists of three parts to ensure non-clogging. The appropriate design and wide passages inside the dripper work to forcefully push water through the internal channels, which acts as a continuous cleaning and rinsing cycle to ensure non-clogging of the dripper.
- The dripper is available in two models, and it is easy to distinguish between them based on the color of the dripper body:
 - PC: Dripper body in green color
 - PC CNL (anti-drainage): Dripper body in gray colorAdditionally, the flow rate of the dripper can be easily distinguished based on the color of the dripper cap.
- Uses: For orchards, vineyards, greenhouses, nurseries, landscaping applications, in areas with uneven terrain, and for watering plants grown in containers or bags using distributors that are attached to the dripper nozzle.



Atrab Company

For Modern Irrigation Systems

◆ Adjustable Flow Dripper

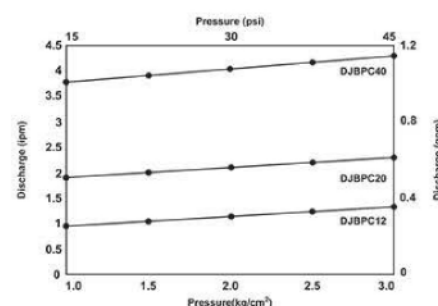
- The drippers are made of pure plastic materials treated to resist weather and ultraviolet rays to ensure high-quality performance and a longer lifespan. They are characterized by easy maintenance and cleaning, as the dripper cap can be removed, cleaned, and reattached easily. They feature easy usage with a 360-degree rotation capability. The flow rate ranges from zero to 70 liters per hour depending on the number of turns (+) or (-). They are used for watering plants with high water requirements such as palm trees, trees, and nursery plants. Operating pressure: 1bar.



Micro Sprinklers

◆ J - Turbo Key

- Manufactured from high-efficiency plastic materials resistant to weather and ultraviolet rays.
- The water flows from it in the form of a water sun.
- Internal connection size is 1/2".
- Special filter at the water inlet to the bubbler to help prevent clogging.
- Reinforced with a special filter to prevent clogging by sand and mud particles, ensuring efficient operation for the longest possible period without any problems.
- Features adjustable flow rate, available in two different models: (DJBAFP) and (DJBAF).
 - › (DJBAFP): It is characterized by the ease of adjusting its flow rate.
 - › (DJBAF): Its flow rate is adjusted by tightening or loosening a screw mounted on top of the bubbler.
- Available with nominal flow rates of 1.2 l/h, 2 l/h, 4 l/h.
- The minimum required filtration is 120 microns.
- **Uses:** Suitable for palm trees, trees, and shrubs planted in undulating terrain with a need for stable flow rates. It is suitable for trees that require large amounts of water while being irrigated using water-saving irrigation systems.



Atrab Company

For Modern Irrigation Systems

◆ J-Micro Sprinklers

- Manufactured from corrosion-resistant materials for a longer lifespan with optimal performance.
- The sprinkler disperses water over plants in a fine mist, protecting the plants from damage due to the force of the water spray.
- The sprinkler is available with different flow rates ranging from 16 liters to 180 liters per hour, depending on the color of the nozzle, at an operating pressure of $1\text{Kg}/\text{cm}^2$ (14.22 psi).
- It provides perfect distribution of the spray around the sprinkler.
- The sprinkler base has a $3/8"$ external thread, making it easy to install on a base or iron stand with a diameter of 6–8 mm.
- The minimum required filtration is 100 microns.
- It is used for strawberry crops, onions, agricultural greenhouses, vegetables, nurseries, and flowers.



◆ Jains Modular Sprinklers

- It's a comprehensive range of small sprinklers used in: Orchard irrigation, vegetable irrigation, garden irrigation, protected cultivation, shade houses, and cooling for poultry and livestock farms.
- Multiple spray diameters and flow rates are available, as well as various rotation patterns (full circles, partial circles).



- Different spray patterns (droplet sizes: small, medium, large) vary with each sprinkler in the range.
- The flow rate ranges from 25 to 400 liters per hour with an operating pressure of 1.5 to 3 bars (21.33 to 42.66 psi).
- Spray diameters range from 1 to 10 meters.
- The necessary filtration level is 120 microns.

◆ Chinese Modular Sprinklers

- Used in orchard irrigation, vegetable irrigation, gardens, protected cultivation, and shade houses.
- Flow rate: from 35 to 140 liters per hour.
- Operating pressure: preferably from 2 to 2.5 bars.
- Spray diameter: from 3 to 10 meters.
- The necessary filtration level is 120 mesh.



Atrab Company

For Modern Irrigation Systems

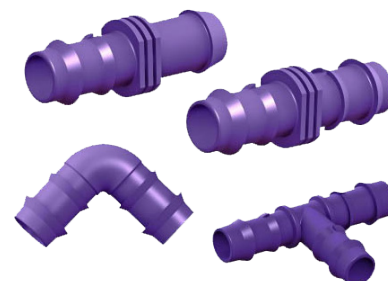
◆ Super Fogger

- Manufactured from 100% pure raw plastic materials, it's the optimal solution for cooling, humidifying, and spraying insecticides inside agricultural greenhouses.
- The dual-nozzle fogger produces an average droplet size of 90 microns with an internal leak preventer.
- It provides excellent spray coverage while creating ideal conditions for plant propagation.
- Easy to use and install with multiple installation options suitable for polyethylene and PVC pipes.
- Flow rate of 13 liters per hour (2 nozzles x 6.5 liters/hour) with an operating pressure of 4 Kg/cm² (56 psi).
- The minimum filtration requirement is 75 microns.
- Used in poultry and livestock farms and agricultural greenhouses.



Polyethylene P.E. Fittings

- It is characterized by easy and quick installation, as well as being unbreakable and resistant to concentrated acids, chemicals, and fertilizers. It is approved for use in drinking water applications and is known for its strong connection and inability to slip under different operating pressures.



Saddles

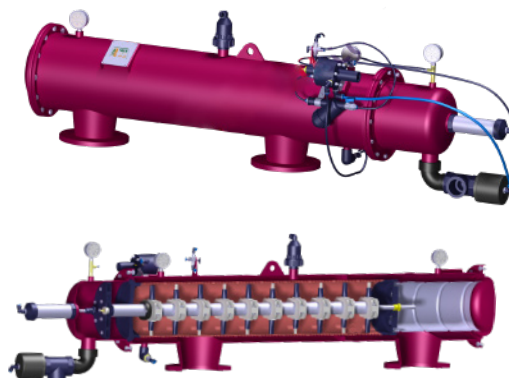
- The saddles can withstand an operating pressure of 16 bars, and their expected lifespan is estimated at twenty years under normal operating conditions. Additionally, the gaskets used in the saddles are characterized by their excellent design, as they do not slip during installation in the pipes.



Filtration Systems

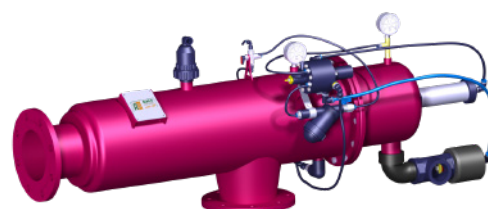
◆ Smart Filter

- The Smart Filter is considered one of the most significant innovations in the field of automatic hydraulic filtration technology.
- It can be used in agricultural irrigation systems and industrial equipment either individually or integrated with other filter systems such as media sand separators and self-cleaning suction filters.
- It is compatible with operating pressures ranging from a maximum of 10 bars to a minimum of 1.5 bars.
- The self-cleaning process begins when the pressure difference reaches the preset value.
- The cleaning process is conducted with minimal water loss and in a short period of time, without affecting the water flow to the irrigation network.
- The self-cleaning process utilizes high-power cleaning brushes and suction nozzles together.
- It operates efficiently even under the worst operating conditions (very high impurities), where the filtration process occurs in two stages: coarse debris filtration followed by fine debris filtration.



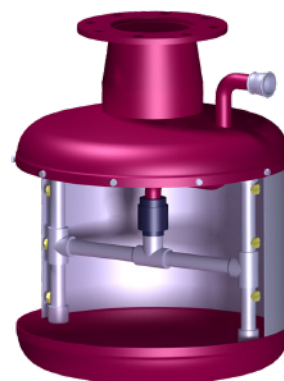
◆ Eco Smart Filter

- The Eco Model, an economical model, is a competitively priced option produced at a lower cost. Unlike other models, the Eco Model does not include a coarse material filter; instead, the filtration process occurs directly through the main filtration network.
- The Eco Model is used in irrigation systems that already incorporate other types of filters (such as sand separators, media filters, and self-cleaning suction filters), which handle the coarse material filtration process.



◆ Self-Cleaning Suction Filter

- The self-cleaning suction filter is designed to prevent coarse impurities before the main filtration system.
- It is generally used to block algae, impurities, and other foreign objects.
- It is installed at the end of the suction pipe inside the water source.
- Available in sizes ranging from 3 to 12 with capacities from 70m³/h up to 600m³/h.

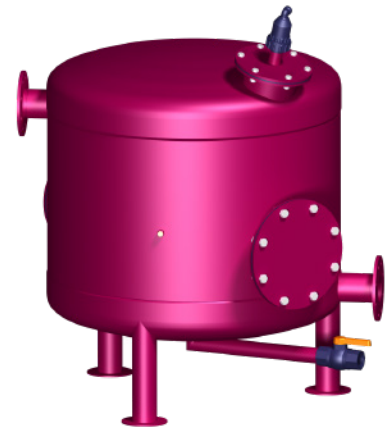


Atrab Company

For Modern Irrigation Systems

◆ Media Filter

- Sand filters are available in sizes of 48, 36, and 20 inches. Produced by leading global companies, these filters are manufactured according to international standards.
- They withstand operating pressures of up to 10 bar.
- All manufacturing stages are carried out by robots, designed in an advanced manner to efficiently distribute water during the back washing process.
- They also stand out from other filters due to their depth of filtration area.
- Sand filters are available in sizes of 48, 36, and 20 inches.
- Produced by leading global companies, these filters are manufactured according to international standards.
- They withstand operating pressures of up to 10 bar.
- All manufacturing stages are carried out by robots, designed in an advanced manner to efficiently distribute water during the backwashing process. They also stand out from other filters due to their depth of filtration area.



◆ Disc Filter Plastic

- Screen filters are available in sizes ranging from 3/4" to 8" and are manufactured by the Turkish company Zerrefil. They are characterized by high filtration efficiency and ease of installation, maintenance, and cleaning, while providing effective filtration with minimal pressure loss. They can also be equipped with an electric valve and control panel to automate the backwashing process by setting the washing time and duration, with filtration ratings ranging from 60 to 450 mesh.



◆ Silica Sand / Quartz Gravel

- Silica granules are graded with uniform thickness, ensuring high filtration efficiency. Silica purity level is 98.8%. The granule size ranges from 1mm to 2mm. Available in weights from 25Kg to 30Kg.



Atrab Company

For Modern Irrigation Systems

◆ Type Screen Filter (Y)

- The simple design of the filter allows for easy maintenance and cleaning.
- The high-quality epoxy coating provides the filter with a longer lifespan and resistance to rust damage.
- It performs filtration with minimal pressure loss.
- It can be used in a wide range of applications due to its various filtration rates and degrees, depending on operational requirements.
- The discs made of nylon polypropylene material provide it with a longer lifespan, making it economical by reducing recurring maintenance costs.
- It can be used individually or as part of an integrated unit.
- Easy and simple assembly is ensured with horizontal or inclined angular systems.

◆ Uses:

- Filtering well water and water containing sand, gravel, or particles heavier than water, as well as filtering river and lake water.
- As a preliminary filtration stage before advanced filtration systems.
- As a secondary stage after media filtration filters and sand separators.



◆ Hydrocyclone Filter

- The body is made of iron, coated with colored epoxy material with a thickness exceeding 70 microns inside and outside for protection against corrosion and weathering effects.
- It is designed to achieve maximum centrifugal separation measures to separate water-suspended particles heavier than water.
- It separates and settles fine sand and mud particles with a size larger than 75 microns and a density greater than 2.65, depositing them in the bottom cone chamber for manual removal.
- The sediment can be easily cleaned through the drain hole in the sediment collection chamber, where the sediment is flushed out of the chamber by water pressure.
- Maximum operating pressure is 10 Kg/cm² (142 psi).
- It is recommended for use before media filters and screen filters, as it enhances filtration efficiency and prolongs the lifespan of media and screen filters.



Atrab Company

For Modern Irrigation Systems

Valves

◆ Butterfly valves, check valves, and water meters

- stand out for their high quality and efficiency, coupled with easy connectivity, which simplifies the installation and maintenance process.

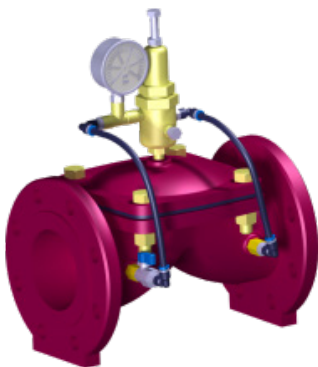


◆ Three-way backwash valves

- All three-way backwash valves are available in sizes 4" / 3" / 4", 3" / 2" / 3", and 2" / 2" / 2" manufactured by the global company ACR-MAK-SAN.
- The three-way valve is specially designed for easy installation and reliable long-term operation. One of its Key features is a special diaphragm that tightly closes the water supply opening when the backwash valve is opened.
- Additionally, this valve allows high water flow rates to pass through it without wasting water during the backwashing process. Moreover, it operates automatically to wash the filters either by pressure differential or by time.



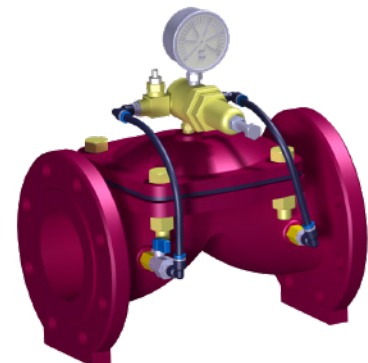
◆ Hydraulic Valves



PS Pressure Sustaining
Safety Valve (Relief)



Pressure Reducer Control
Valve With Solenoid Control



Pressure Reducer Control Valve

Atrab Company

For Modern Irrigation Systems

◆ Air Release Valve

- It is designed to release trapped air from pipeline systems during startup and operation.
- The valve is treated to resist damage caused by chemicals and environmental factors.
- The unique design of the openings facilitates the quick and easy expulsion of air.
- The efficient design removes even the smallest air pockets.
- Available with external thread connection ends in sizes 1" and 2".



◆ Union (single / Double)

- Manufactured using injection technology according to the international specifications DIN8062, with connection ends for adhesive or internal threading.



◆ PVC Ball Valve

- The valve is available with three handle shapes: (short handle, long handle, boat-shaped handle). Available in sizes ranging from 1/2" to 4". All valves have ribbed ends with internal threading.



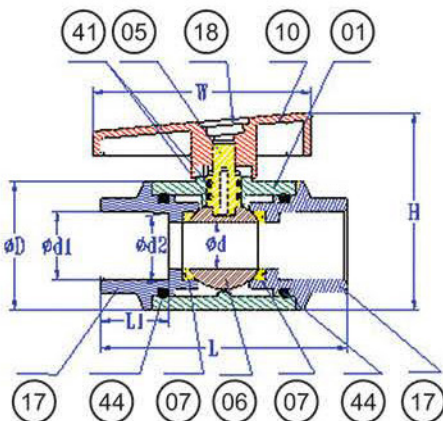
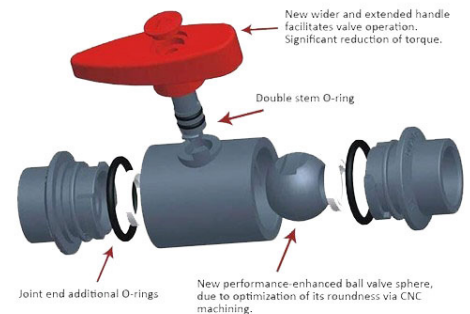
Atrab Company

For Modern Irrigation Systems

◆ New Compact Ball Valve

- The new design features an attractive appearance and increased handle durability compared to the old design.
- The number of leakage barriers (O-rings) has been increased to 2 instead of 1 to enhance valve tightness and prevent leakage.
- The internal ball is polished using CNC machine to ensure smooth rotation, reducing torque during opening and closing, increasing sealing level, and preventing leakage.
- All valves are tested using simulated pressures equivalent to operating pressures before leaving the factory.
- The valve is distinguished by the following innovative design features compared to its ordinary counterparts:

- 1 Guarantee of tightness and prevention of leakage.
- 2 Easy opening and closing, attributed to the appropriate handle design and precision shaping of the internal ball.
- 3 Comfortable and replaceable handle.
- 4 100% pure raw materials free from calcium carbonates.
- 5 Treated with UV resistance coatings.



Item	Part	Material	QTY
01	BODY	PVC/CPVC/HT-CPVC	1
05	STEM	PVC/CPVC/HT-CPVC	1
06	BALL	PVC/CPVC/HT-CPVC	1
07	SEAT	TPV/PTFE	2
10	HANDLE	ABS	1
17	UNION END	PVC/CPVC/HT-CPVC	2
18	CAP	ABS	1
41	ORING	EPDM/VITON	2
44	ORING	EPDM/VITON	2

Atrab Company

For Modern Irrigation Systems

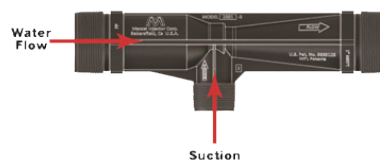
Pressure Gauge

- It is produced by one of the leading global companies, tightly sealed and unaffected by weather conditions.



Venturi Injector

- A comprehensive American-made manifold with all inlet, outlet, and drain connections, manufactured by the American company Miz.



(P.V.C – Seamless) Fittings



Atrab Company

For Modern Irrigation Systems

Over Head Sprinklers

- High-quality manufacturing from leading global companies, characterized by lightweight and ease of use.
- Symmetrical water distribution with excellent coverage and good performance in various conditions.
- Compatible with fixed or mobile spray irrigation systems (pivot).
- Even and gentle spray distribution ensures excellent coverage and safe watering for plants.
- An integrated range that offers customers multiple options to suit different crop types and operating conditions in terms of required spray diameter, operating pressure, and appropriate discharge rate.



Gun Sprinklers





Al-Mohamdiah Company

AL Mohamdiah For Steel Trading & Manufacturing

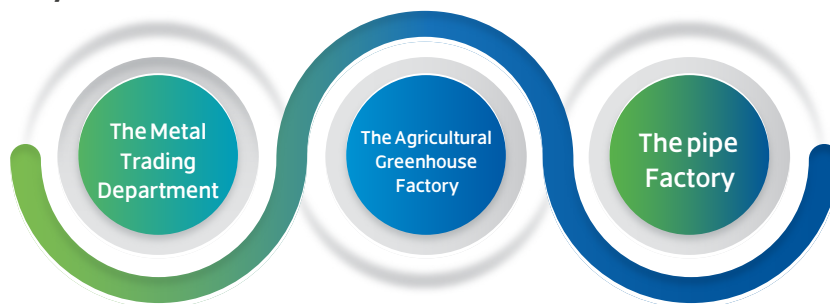
⊕ STEEL-HWA.COM

Al-Mohamdiah Company

AL Mohamdiah For Steel Trading & Manufacturing

◆ The company's activity

- The company specializes in metal trading and forming, utilizing a skilled technical team supported by the latest equipment and technologies for metal forming and manufacturing. It is committed to providing innovative and up-to-date solutions for the metal industry.



◆ The company's overseas activities

- The company's activities extend to several foreign markets, notably Sudan, Saudi Arabia, and Libya.
- The company continuously works to establish strong partnerships with leading international companies and implement the latest developments in metal manufacturing and forming.
- Furthermore, Al-Mohammadia Company is keen on its presence in various local and Arab exhibitions to showcase and introduce its products, reflecting its confidence in the quality of its products and its ability to compete.



◆ The company's main objective

- Satisfying customers by providing high-quality products at competitive prices, along with offering outstanding technical support. Additionally, providing transportation services across the entire country at competitive rates and ensuring a skilled workforce with a high level of proficiency.

Al-Mohamdiah Company

AL Mohamdiah For Steel Trading & Manufacturing

The pipe Factory

- In recognition of its important role in the development of the metal manufacturing and forming sector, the company established the Mohammadia Pipes Factory and equipped it with modern production lines for manufacturing square, rectangular, and circular pipes with longitudinal welding. The pipes are manufactured using high-quality galvanized and hot-rolled steel sheets to meet the requirements of various industrial and investment applications. The factory also manufactures other products, including agricultural sheds, grape and banana crates, and solutions for various industries.



◆ Pipe Weight Table

Round Tube Weigh Kg/M

Diameter Thickness	16	19	20	22	25	25.4	32	42.5	48.3	60.3	88.9	114.3	125
1.0	0.394	0.468	0.493	0.542	0.616	0.626	0.789	1.048	1.191	1.486	2.191	2.817	3.081
1.2	0.473	0.562	0.592	0.651	0.739	0.751	0.947	1.257	1.429	1.784	2.630	3.381	3.697
1.5	0.592	0.702	0.739	0.813	0.924	0.939	1.183	1.571	1.786	2.230	3.287	4.226	4.622
1.8	0.710	0.843	0.887	0.976	1.109	1.127	1.420	1.886	2.143	2.675	3.944	5.071	5.546
2.0	0.789	0.937	0.986	1.085	1.232	1.252	1.578	2.095	2.381	2.973	4.383	5.635	6.162
2.5	0.986			1.356	1.541	1.565	1.972	2.619	2.976	3.716	5.478	7.043	7.703
3.0	1.183				1.849	1.878		3.143	3.572	4.459	6.574	8.452	9.243
4.0	1.578							4.190	4.762	5.945	8.765	11.270	12.325

Square Tube Weigh Kg/M

Dimensions Thickness	20*20	25*25	30*30	38*38	48*48	70*70	100*100
1.0	0.628	0.785	0.942	1.193	1.507	2.198	3.140
1.2	0.754	0.942	1.130	1.432	1.809	2.638	3.768
1.5	0.942	1.178	1.413	1.790	2.261	3.297	4.170
1.8	1.130	1.413	1.696	2.148	2.713	3.956	5.652
2.0	1.256	1.570	1.884	2.386	3.014	4.396	6.280
2.5	1.570	1.963	2.355	2.983	3.768	5.495	7.850
3.0			2.826	3.580	4.522	6.594	9.420

Rectangular Tube Weigh Kg/M

Dimensions Thickness	20*40	40*60	40*70	40*80	40*100
1.0	0.942	1.57	1.73	1.884	2.198
1.2	1.130	1.88	2.07	2.261	2.638
1.5	1.413	2.36	2.59	2.826	3.297
1.8	1.696	2.83	3.11	3.391	3.956
2.0	1.884	3.14	3.45	3.768	4.396
2.5	2.355	3.93	4.32	4.710	5.495
3.0	2.826	4.71	5.18	5.652	6.594

Al-Mohamdiah Company

AL Mohamdiah For Steel Trading & Manufacturing

The Agricultural Greenhouse Factory

- In recognition of its pivotal role in the development of the metal production and shaping sector, the company established the Mohammadia Pipes Factory and equipped it with the latest production lines for manufacturing pipes (square, rectangular, and circular) with longitudinal welding. These pipes are made using the best galvanized and hot-rolled sheet metals to cover all aspects of the industry and investment. Additionally, the production of Mohammadia Pipes Factory includes the manufacturing of other products for the company, such as agricultural sheds, grape and banana crates, and various other industries.



◆ The advantages of Mohamediah Company's barns

- Ease of installation and assembly.
- Avoid rust problems that form around welding areas.
- Ease of maintenance and refurbishment of the greenhouses by replacing damaged parts.
- Avoid welding issues that weaken the durability of the greenhouses.
- Ease of disassembly and transportation without causing damage that affects the ease and accuracy of reassembling the greenhouses again.

◆ Greenhouse Parts

- All greenhouse accessories are manufactured by the company to ensure high quality and provide customers with a reliable, integrated solution. The greenhouses are assembled using galvanized bolts to prevent rust and facilitate easy disassembly, reassembly, and transportation.

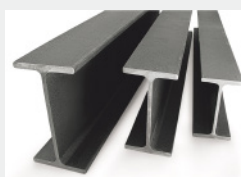
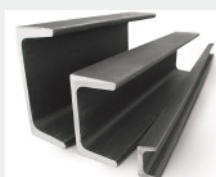


Al-Mohamdia Company

AL MohamdiaFor Steel Trading & Manufacturing

The Metal Trading Department

- Mohammadia Iron Trading Company is one of the leading companies in the iron trading and forming sector. The company offers a wide range of iron and steel products for various applications, including angle bars, I-beams, channels, steel and annealed wire, steel sheets, sheet coils, steel bars, reinforcing bars, and workshop supplies.





Amial Company

For integrated metal structures

AMIALSTEEL.COM

◆ The company's activity

- "Amial" company operated below the umbrella of the Mohammad Al-Sayed sons Group as a division of Al-Mohammdia Company for many years, and it has executed several distinguished projects in the field of metal constructions. Keeping up with developments and Keen on providing excellent service to its clients, the group established "Amial Company" in 2021. Amial has become one of the leading companies in the field of metal constructions.

◆ Main Objective of the Company

- The primary goal is to achieve a national industry of high quality that rivals global products in the field of metal constructions. The company specializes in manufacturing metal structures while ensuring the highest quality standards in terms of materials and manufacturing technology. Supported by a highly efficient engineering team relying on the latest design systems and load calculations, our products stand out for their strength, durability, and compliance with standard specifications.

In addition to the company's work in the field of metal constructions, "Amial" Company is one of the most important companies operating in the iron trade and shaping industry



◆ Amial's previous projects

- The company has various other departments, including:
 - Department of trade and formation of metals and various iron products.
 - Production line for longitudinally welded pipes (square, rectangular, circular)
 - Production line for agricultural poles, grapevine trellises, and banana supports.



Nile International

Import & Export

Fresh Produce for a Better World





Nile International for Import & Export

Nile International is one of the companies of Abnaa Mohamed El Sayed Group, rapidly expanding its operations in the cultivation, import, and export of fresh fruits and vegetables to and from markets worldwide.

The company adopts advanced agricultural crop management systems across its farms, **Nile Farm**, supported by local and international experts to ensure compliance with high technical and food safety standards.

This commitment has strengthened the company's ability to compete in both local and international markets, with products that meet applicable local and international specifications.





Import & Export

Nile
International

- Nile International exports many agricultural crops such as grapes, citrus, pomegranates, and mangoes to numerous countries across Europe and global markets, including (England – Holland – Germany – Singapore), and to major retail chains and markets such as: ASDA – ALDI – TESCO – LIDL.



TESCO
Every little helps



GLOBALG.A.P.
The Global Partnership for Good Agricultural Practice



Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

White Seedless

Red Seedless

Red Seedless

Varieties: Sugar One, Flame, Early Sweet, Prime, Crimson, Red Globe, Autumn

- White Seedless** : From the first week of May until the first week of June.
- Red Seedless** : From the second week of June until the last week of August.
- Red Seedless** : From the first week of July until the last week of August.



Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Sweet Charlie

Festival & Red Merlin

F & RM

Varieties: Sweet Charlie, Festival & Red 3

- Sweet Charlie** : From the third week of November until the third week of December.
- Festival & Red Merlin** : From the third week of December until the second week of May.

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Valencia

Navel

Navel

Navel

Varieties: Valencia, Navel and Baladi

- Valencia** : From the second week of January until the end of June.
- Navel** : From the third week of November until the end of April.
- Baladi** : From the first week of March until the end of June.



since
1982



Mohamed Al-Sayed Sons Group



Mohamed El-Sayed Sons Group of Companies was established in 1982 as a group of sister companies that were established to serve agricultural activity while keeping pace with the rapid development occurring in it. Each of the group's companies specialized in a specific sector of the various sectors that serve agricultural activity within Egypt and the Middle East.



Nile Drip

Phone : 045-3620899

Mobile : 01008552550 - 01003820005

Email : info@niledrip.com

Website : niledrip.com



Atrab

Phone : 045-3620964

Mobile : 01009400604 - 01016790772

Email : atrab@niledrip.com

Website : niledrip.com



Al-Mohmadia

Phone : 045-3626701

Mobile : 01024650177 - 01008552604

Email : info@steel-hwa.com

Website : steel-hwa.com



Nile International

Phone : 045-3668164

Mobile : 01024641765 - 01006677070

Email : info@nileint.com

Website : www.nileint.com

📍 Sadat - City | Al-Manofia | Egypt

www.hwa-group.com

