



IRRIGATION SYSTEMS
By ICMS



منتج
قطري
QATARI
PRODUCT



9001



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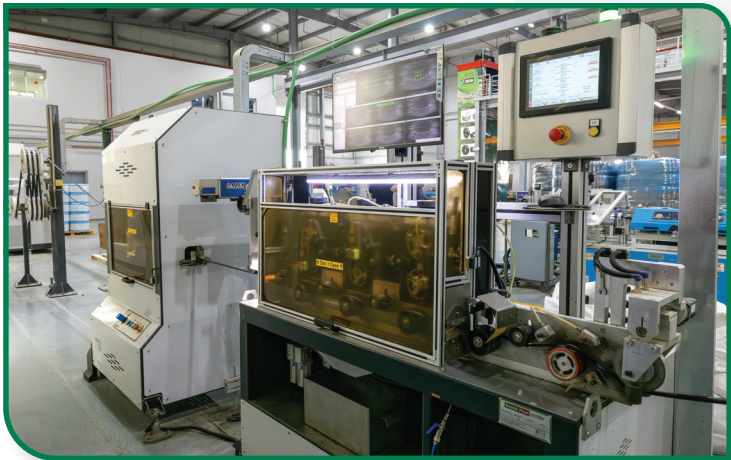
PRODUCT CATALOGUE

2026



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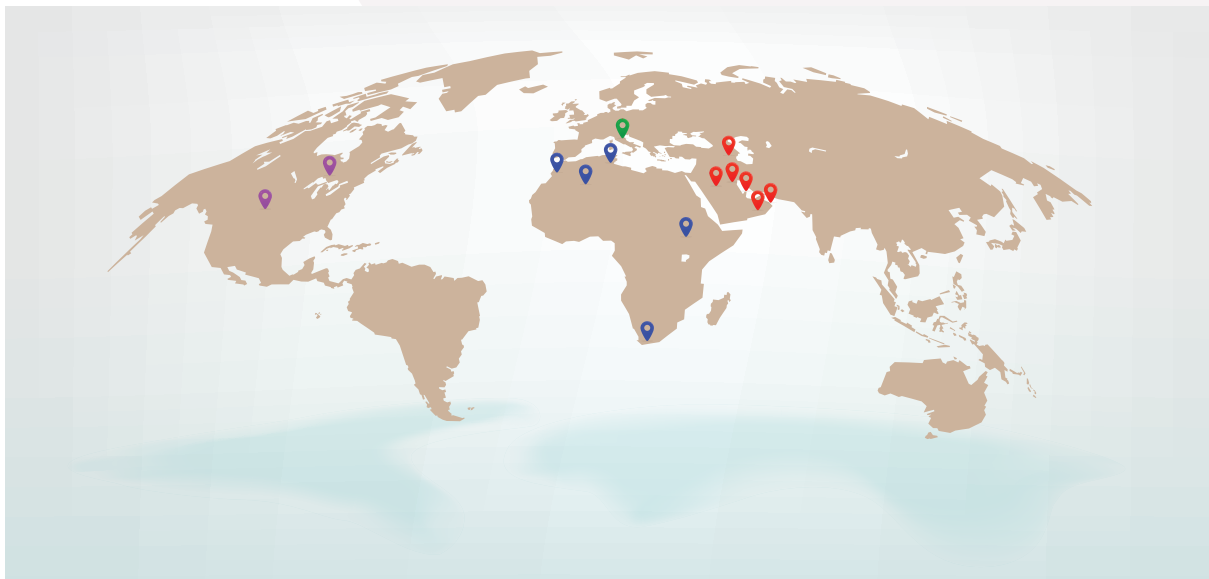
INTRODUCTION

Proudly based in Qatar and backed by the industrial expertise of ICMS. Leveraging high-grade raw materials sourced from Qatar Petrochemical Company (QAPCO), we manufacture premium-quality drip irrigation pipes that meet international standards while remaining cost-effective for growers and distributors alike.

Our production facility is equipped with state-of-the-art machinery, enabling us to achieve high manufacturing precision and consistency across our product range. Every component undergoes rigorous quality control checks from raw material inspection to final product testing to ensure durability, reliability, and long-term field performance. At ZETA, we believe that exceptional quality should not come at a premium. Our efficient manufacturing processes allow us to offer competitively priced products without compromising on quality.

ZETA provides precision-engineered irrigation systems designed to optimize water use, reduce waste, and increase yields helping you achieve better results, sustainably. This commitment to excellence has earned us the trust of partners in over fourteen countries across Asia, Africa, Europe, and North America. The growing global footprint of ZETA is a testament to our focus on customer satisfaction, product reliability, and before- and after-sales services.

GLOBAL PRESENCE



Asia

Qatar
Saudi Arabia
Oman
Kuwait
UAE
Iraq

Africa

Tunisia
Morocco
Algeria
South Africa
Uganda

North America

USA
Canada

Europe
Italy

ZETA 2026



1. ZETA TAPE Thin-wall flat drip irrigation pipes

ZETA TAPE Thin-wall flat drip irrigation pipes offer a highly efficient and cost-effective method of delivering water directly to the plant roots, ensuring optimal growth while conserving water. It is primarily designed for farming seasonal crops and row crops.

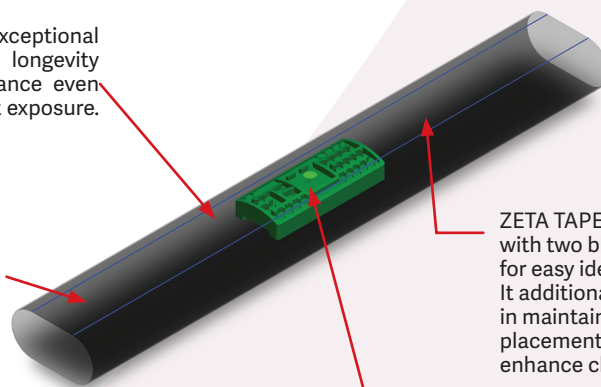
Technical information of emitter

- Dropper type: Flat, Non-PC, Symmetrical
- Flow rates (l/h): 1.0, 1.2, 1.6, 2.2, 2.4, 2.8, 3.5, 3.8
- Coefficient of Variation (Cv): <5.0%
- Recommended (mesh/microns): 120/130
- Operating pressure (bar): 0.8 Bar @6 mil & 1.0 Bar for above 6 mil



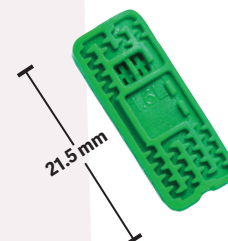
The ZETA TAPE exhibits exceptional UV resistance, ensuring longevity and consistent performance even under prolonged sunlight exposure.

Designed for ease of use, the ZETA TAPE enables simple installation and maintenance, saving time and effort for farmers and agricultural professionals.



ZETA TAPE is manufactured with two blue stripes for easy identification. It additionally assists in maintaining upright placement of the dripper to enhance clog resistance.

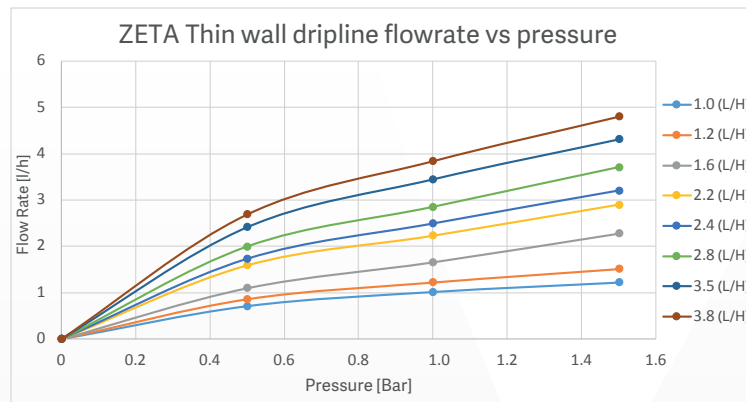
Engineered for high resistance to clogging, it ensures turbulent water flow, minimising maintenance requirements and maximising operational efficiency.



Technical information of dripline

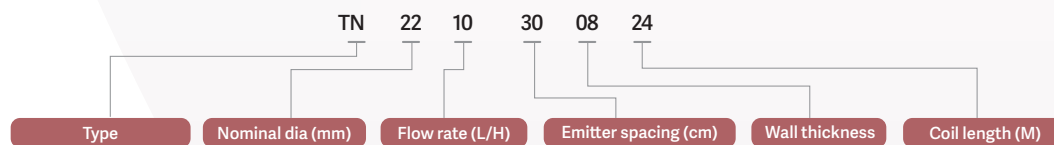
Nominal Diameter (mm)	Internal Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Emitter Spacing (cm)	Roll Length (M)	Maximum Working Pressure (Bar)
17	16.1	16.40	6 mil (0.15 mm)	10	2300	0.8
				15, 20, 25, 30, 40, 50	2500	
17	16.1	16.45	7 mil (0.175 mm)	10, 15	2200	0.8
				20, 25, 30, 40, 50	2400	
17	16.1	16.50	8 mil (0.20 mm)	10	2000	1.0
				15, 20, 25, 30, 40, 50	2300	
17	16.1	16.60	10 mil (0.25 mm)	20, 25, 30	2000	1.2
17	16.1	16.70	12 mil (0.30 mm)	20, 25, 30	1700	1.4
17	16.1	16.85	15 mil (0.375 mm)	20, 25, 30	1300	1.4
22	22.0	22.40	8 mil (0.20 mm)	20, 25, 30	1800	1.0
22	22.0	22.50	10 mil (0.25 mm)	30, 40, 50	1500	1.2
22	22.0	22.60	12 mil (0.30 mm)	30, 40, 50	1200	1.4

The ZETA TAPE complies with ISO 9261 standard, guaranteeing quality and reliability and meeting international benchmarks for irrigation system effectiveness and performance.



Ordering specifications

Thin-wall flat drip irrigation pipes ordering way



Product application

- Row crops
- Vegetables
- Orchards

2. Thick wall Pressure Compensating (PC) drip irrigation pipes

ZETA Pressure Compensating (PC) drip irrigation pipes feature advanced emitters that ensure a consistent flow rate across a wide range of inlet pressures. This guarantees uniform water distribution, making them particularly effective for challenging conditions such as steep slopes, rocky terrain, and uneven topography. These pipes are especially suited for permanent crops with long lateral runs and are engineered for precision irrigation across multiple growing seasons.



Optionally, ZETA PC drip pipes are available with additional functionalities to cater to specific field requirements. These include:

Pressure compensating Non-Drain (ND)* drip pipes

The PC-ND (Non-Drain) remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the dripline. To achieve the non-drain function, the emitter opens at 0.30 bar and closes at 0.18 bar.

Pressure compensating Anti-Siphon (AS) * drip pipes

The PC-AS (Anti-Siphon) is a specially designed mechanism that prevents the suction of dirt and impurities into the emitter. This AS feature enables the pressure compensating drip pipe to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multi-year durability.

Note: * The above features are available upon request. Please contact the sales team for more information.

Technical information of dripline

Nominal Diameter (mm)	Internal Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Emitter Spacing (cm)	Roll Length (M)	Maximum Working Pressure (Bar)
16	13.8	15.4	0.8	20, 30, 40, 50, 75, 100	100,400	4.0
		15.6	0.9			
		15.8	1.0			
		16.0	1.1			
		16.2	1.2			
		16.6	1.4			
20	17.6	19.2	0.8	20, 30, 40, 50, 75, 100	100,400	4.0
		19.4	0.9			
		19.6	1.0			
		19.8	1.1			
		20.0	1.2			
		20.4	1.4			

The dripline complies with ISO 9261 standard

2.1 Thick wall Pressure Compensating (PC) drip irrigation pipes with round emitter

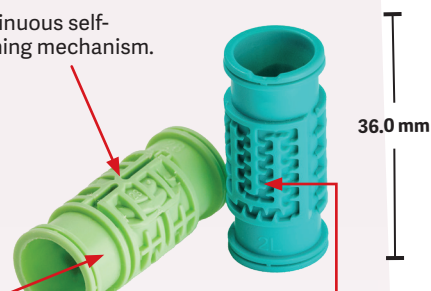
ZETA thick-walled drip irrigation pipes are equipped with round pressure-compensating (PC) emitters that ensure highly precise and consistent water delivery. Their larger size allows for more advanced diaphragm designs, offering superior pressure regulation.

Technical information of emitter

- Dripper type: Cylindrical, PC, Symmetrical
- Flow rates (l/h): 2.0, 4.0
- Coefficient of Variation (Cv): <5.0%
- Operating pressure (bar): 0.5 – 4.0

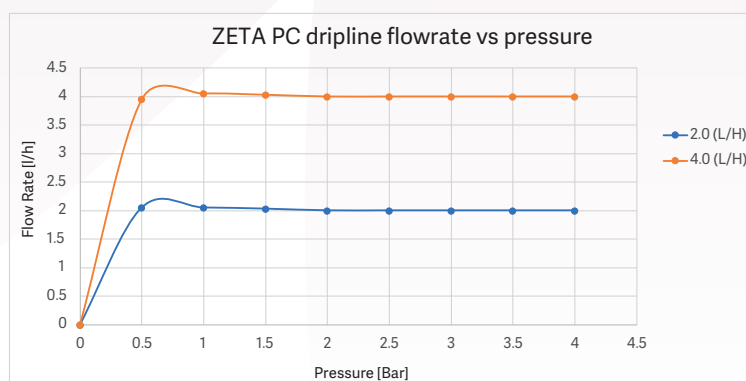
Round emitters have greater structural strength and are less likely to deform, when subjected to high pressure.

Continuous self-cleaning mechanism.

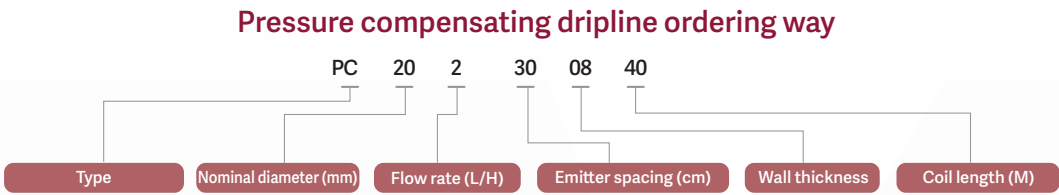


The emitter design features a highly turbulent flow path, providing superior clogging resistance.

Nominal Flow Rate (L/H)	Water Passage Width x Depth x Length (mm)	Constant k (Bar)	Exponent (x)	Filtration Area(mm ²)	Recommended Filtration (mesh/microns)
2.0	1.10 x 1.20 x 62.7	2.0	0.0	14.00	120/130
4.0	1.30 x 1.20 x 51.9	3.8	0.0	14.00	120/130



Ordering specifications

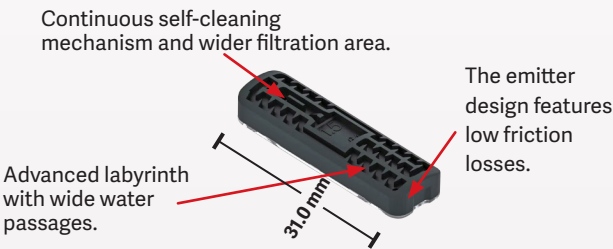


Product application

- Row crops
- Vegetables
- Orchards
- Greenhouse
- Landscaping

2.2 Thick wall Pressure Compensating (PC) drip irrigation pipes with flat emitter

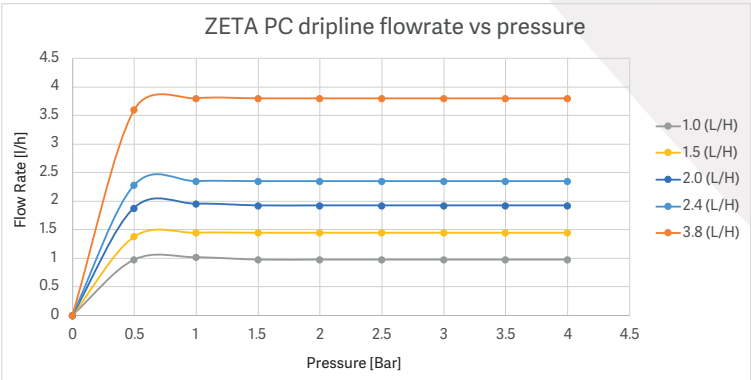
ZETA thick-walled drip irrigation pipes feature flat pressure-compensating (PC) emitters, ensuring exceptional uniformity across diverse field conditions and the ultra-slim emitter design reduces friction losses.



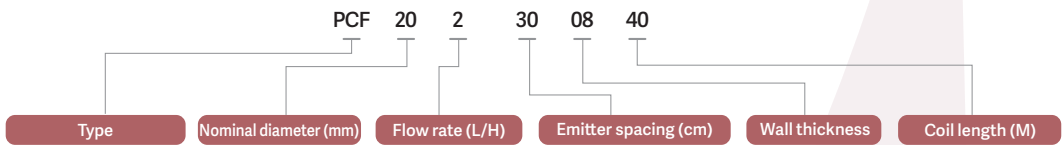
Technical information of emitter

- Dripper type: Flat, PC, Symmetrical
- Flow rates (l/h): 1.0, 1.5, 2.0, 2.4, 3.8
- Coefficient of Variation (Cv): <5.0%
- Operating pressure (bar): 0.7 – 4.0

Nominal Flow Rate (L/H)	Water Passage Width x Depth x Length (mm)	Constant k (Bar)	Exponent (x)	Filtration Area(mm²)	Recommended Filtration (mesh/microns)
1.0	0.82 x 0.76 x 139	1.0	0.0	37.37	150/100
1.5	1.06 x 0.85 x 132	1.5	0.0	37.37	150/100
2.0	1.08 x 0.88 x 93.5	1.9	0.0	37.37	120/130
2.4	1.19 x 0.90 x 89.6	2.3	0.0	37.37	120/130
3.8	1.30 x 0.90 x 78.7	3.6	0.0	37.37	120/130



Pressure compensating dripline ordering way



Product application

- 
• Row crops
- 
• Vegetables
- 
• Orchards
- 
• Greenhouse
- 
• Landscaping

3. Thick wall Non-Pressure Compensating (Non-PC) drip irrigation pipe

It offers a reliable and cost-effective solution for irrigation systems with uniform field conditions. Designed for efficient water delivery, these pipes are ideal for flat terrains and short lateral lengths where pressure variations are minimal. Suitable for permanent crops and multi-seasonal usage, they provide easy and trouble-free installations. A high turbulent flow path design creates a vortex effect inside the emitter, preventing clogging.



Technical information of dripline						
Nominal Diameter (mm)	Internal Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Emitter Spacing (cm)	Roll Length (M)	Maximum Working Pressure (Bar)
16	13.8	15.4	0.8	20, 30, 40, 50, 75, 100	100 ,400	4.0
		15.6	0.9			
		15.8	1.0			
		16.0	1.1			
		16.2	1.2			
		16.6	1.4			
20	17.6	19.2	0.8	20, 30, 40, 50, 75, 100	100 ,400	4.0
		19.4	0.9			
		19.6	1.0			
		19.8	1.1			
		20.0	1.2			
		20.4	1.4			

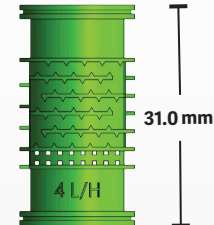
The dripline complies with ISO 9261 standard

3.1 Thick wall Non-Pressure Compensating (NPC) drip irrigation pipes with round emitter

ZETA thick-wall non-pressure compensating (Non-PC) drip irrigation pipes with round in-line emitters are engineered for efficient and uniform water delivery where pressure variations are minimal. The round emitters are precisely inserted and sealed within the pipe wall, offering high durability, consistent performance, and resistance to clogging.

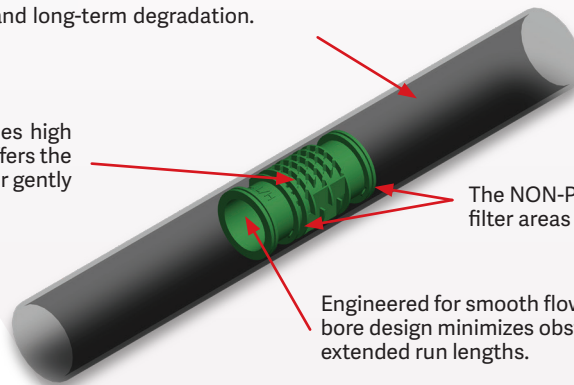
Technical information of emitter

- Dripper type: Cylindrical, Symmetrical, NON-PC
- Flow rates (l/h): 2.0, 4.0, 8.0
- Coefficient of Variation (Cv): <5.0%
- Recommended filtration (mesh/microns): 120/130
- Operating pressure (bar): 1.0



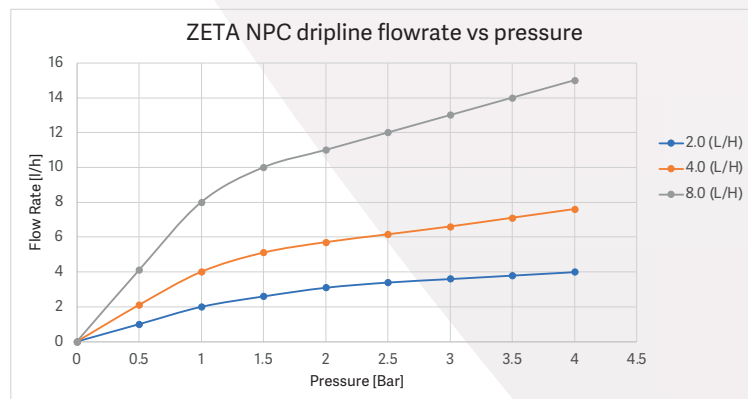
Made from high ECSR polyethylene, ensuring excellent resistance to environmental stress cracking and long-term degradation.

The emitter design provides high clogging resistance and offers the a uniform flow rate in flat or gently sloped fields.

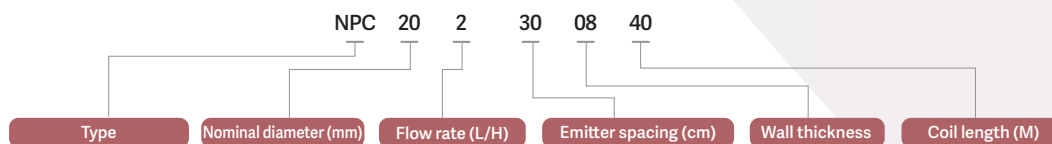


The NON-PC emitter contains two inlet filter areas and four outlets per dripper.

Engineered for smooth flow, the hydrodynamic bore design minimizes obstruction and enables extended run lengths.



Non Pressure compensating dripline ordering way



Product application



• Row crops



• Vegetables



• Orchards



• Greenhouse



• Landscaping

3.2 Thick wall Non-Pressure Compensating (NPC) drip irrigation pipes with flat emitter

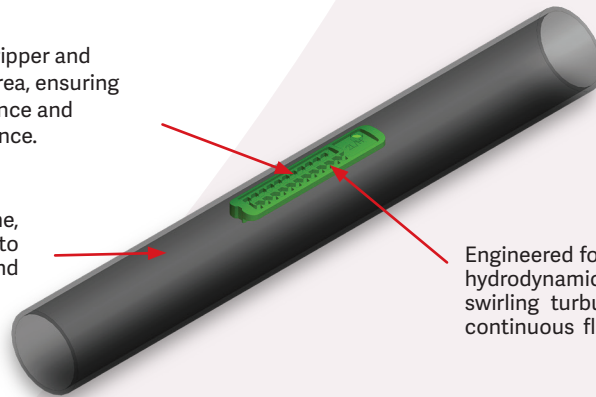
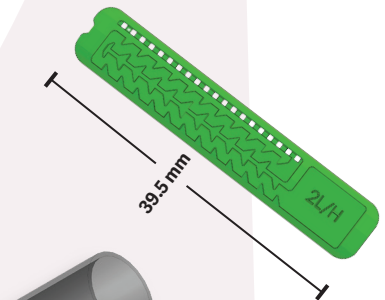
ZETA thick-wall drip irrigation pipes with in-line flat emitters are designed for long-term agricultural applications where durability, uniformity, and resistance to clogging are essential. The extended flow path of emitters ensures enhanced turbulence, significantly reducing clogging and improving performance even with challenging water quality. Its asymmetric design creates a unique hydraulic profile that stabilizes flow across various pressure levels.

Technical information of emitter

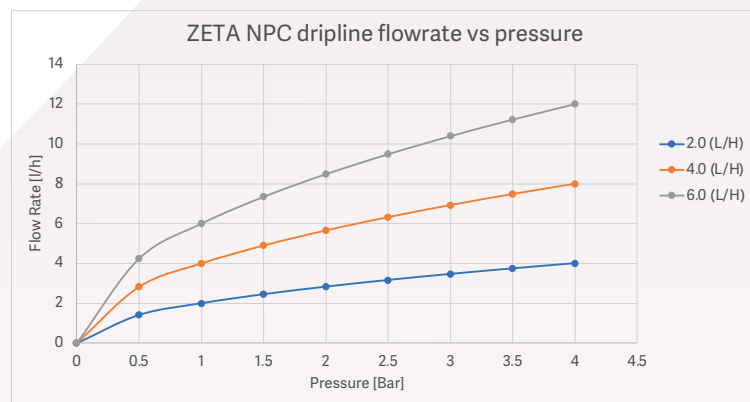
- Dripper type: Flat, Asymmetrical, NON-PC
- Flow rates (l/h): 2.0, 4.0, 6.0
- Coefficient of Variation (Cv): <5.0%
- Recommended filtration (mesh/microns): 120/130
- Operating pressure (bar): 1.0

Featuring a longer dripper and extended filtration area, ensuring superior clog resistance and consistent performance.

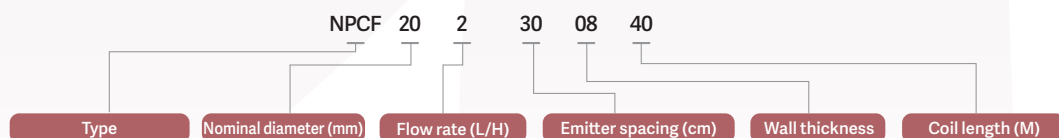
Made from high ECSR polyethylene, ensuring excellent resistance to environmental stress cracking and long-term degradation.



Engineered for clean performance, the hydrodynamic teeth design promotes swirling turbulence for effective and continuous flushing of debris



Non Pressure compensating dripline ordering way



Product application



• Row crops



• Vegetables



• Orchards



• Greenhouse



• Landscaping

ZETA 2026



4. Subsurface Drip Irrigation (SDI)

To enhance reliability in subsurface drip irrigation (SDI) systems, ZETA drip pipes feature an advanced technology that incorporates copper oxide-infused emitter technology. This advanced feature creates a root-repelling zone around each emitter, effectively preventing root intrusion. The copper compound is integrated directly into the emitter during manufacturing, ensuring long-lasting protection and uninterrupted water flow, even after years of underground operation. Subsurface drip irrigation (SDI) is the most efficient irrigation method, since it delivers water directly to the root zone of plants through a network of buried driplines.

Optionally, Subsurface PC drip pipes are available with additional functionalities to cater to specific field requirements. These include:

Pressure compensating Non-Drain (ND)* drip pipes

The PC-ND (Non-Drain) remains full of water during irrigation intervals, ensuring immediate and uniform irrigation along the drip line. To achieve the non-drain function, the emitter opens at 0.30 bar and closes at 0.18 bar.

Pressure compensating Anti-Siphon (AS) * drip pipes

The PC-AS (Anti-Siphon) is a specially designed mechanism that prevents the suction of dirt and impurities into the emitter. This AS feature enables the pressure compensating drip pipe to be installed underground (SDI), perfectly maintaining its irrigation characteristics and its multi-year durability.

Benefits and features

Precise Rootzone Irrigation: The drip pipe delivers water directly to the rootzone, minimizing evaporation and surface runoff. It promotes deeper root growth and healthier plant development.

Water Use Efficiency: It reduces water loss compared to surface irrigation.

Cost Effective: Reduced water use, labor, and weed control contribute to lower long-term operational costs.

Technical information of dripline

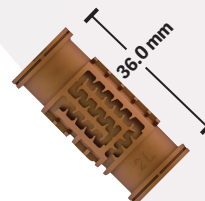
Nominal Diameter (mm)	Internal Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Emitter Spacing (cm)	Roll Length (M)	Maximum Working Pressure (Bar)
16	13.8	15.4	0.8	20, 30, 40, 50, 75, 100	100, 400	4.0
		15.6	0.9			
		15.8	1.0			
		16.0	1.1			
		16.2	1.2			
		16.6	1.4			
20	17.6	19.2	0.8	20, 30, 40, 50, 75, 100	100, 400	4.0
		19.4	0.9			
		19.6	1.0			
		19.8	1.1			
		20.0	1.2			
		20.4	1.4			

The dripline complies with ISO 9261 standard

4.1 Thick wall drip pipe with copper oxide infused round PC emitter

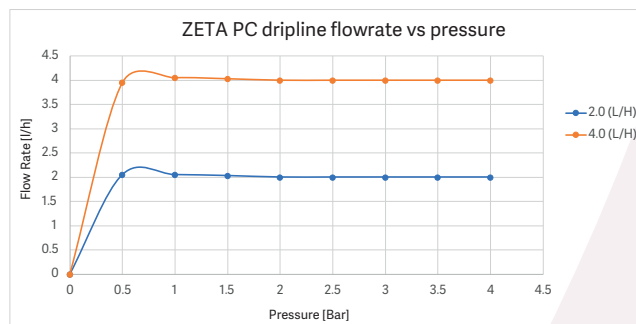
Technical Information of emitter

- Dripper type: Cylindrical, PC, Symmetrical
- Flow rates (l/h): 2.0, 4.0
- Coefficient of Variation (Cv): <5.0%
- Operating pressure (bar): 0.5 – 4.0

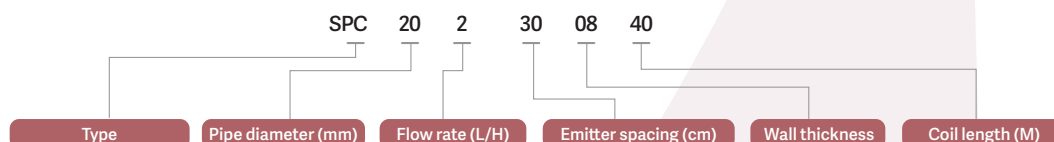


Nominal Flow Rate (L/H)	Water Passage Width x Depth x Length (mm)	Constant k (Bar)	Exponent (x)	Filtration Area(mm²)	Recommended Filtration (mesh/microns)
2.0	1.10 x 1.20 x 62.7	2.0	0.0	14.00	120/130
4.0	1.30 x 1.20 x 51.9	3.8	0.0	14.00	120/130

Note: * The above features are available upon request. Please contact the sales team for more information.



Subsurface Pressure compensating dripline ordering way



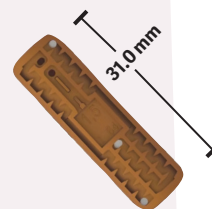
Product application

Suitable for all kind of SDI applications.

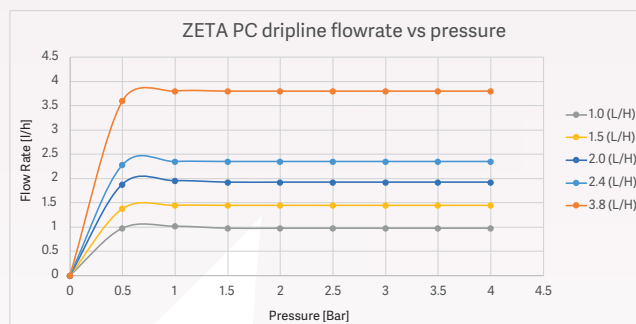
4.2 Thick wall drip pipe with copper oxide infused flat PC emitter

Technical Information of emitter

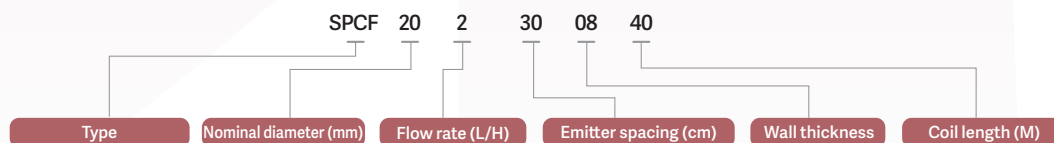
- Dropper type: Flat, PC, Symmetrical
- Flow rates (l/h): 1.0, 1.5, 2.0, 2.4, 3.8
- Coefficient of Variation (Cv): <5.0%
- Operating pressure (bar): 0.7 – 4.0



Nominal Flow Rate (L/H)	Water Passage Width x Depth x Length (mm)	Constant k (Bar)	Exponent (x)	Filtration Area(mm ²)	Recommended Filtration (mesh/microns)
1.0	0.82 x 0.76 x 139	1.0	0.0	37.37	150/100
1.5	1.06 x 0.85 x 132	1.5	0.0	37.37	150/100
2.0	1.08 x 0.88 x 93.5	1.9	0.0	37.37	120/130
2.4	1.19 x 0.90 x 89.6	2.3	0.0	37.37	120/130
3.8	1.30 x 0.90 x 78.7	3.6	0.0	37.37	120/130



Subsurface Pressure compensating dripline ordering way



Product application

Suitable for all kind of SDI applications.

5. Blank pipes

Zeta blank tubing is a high-quality, durable low-density polyethylene pipe available in 16 mm and 20 mm sizes. It comes without pre-punched emitters, allowing users to customize on-line emitter placement based on specific crop and field requirements. This flexibility makes it ideal for a wide range of applications including agriculture, landscaping, and greenhouse irrigation.



Benefits and features

Flexible dripper placement: Allows custom placement of emitters or drippers exactly where needed, making it ideal for variable plant spacing.

UV resistance: ZETA Blank tube is protected against solar radiation with a UV stabilizer.

Resistant to cracking: Made from high ECSR polyethylene, ensuring excellent resistance to environmental stress, cracking, and long-term degradation.

Sustainable material: 100% recyclable polyethylene

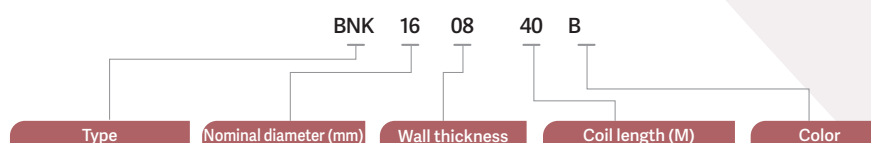
Colour: Available in black and maroon.

Technical information of blank pipes

Nominal Diameter (mm)	Internal Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Roll Length (M)	Maximum Working Pressure* (Bar)
16	13.8	15.4	0.8	100, 250, 400, 500	4, 6, 8
		15.6	0.9		
		15.8	1.0		
		16.0	1.1		
		16.2	1.2		
		16.6	1.4		
20	17.6	19.2	0.8	100, 250, 400, 500	4, 6, 8
		19.4	0.9		
		19.6	1.0		
		19.8	1.1		
		20.0	1.2		
		20.4	1.4		

* Maximum working pressure varies depending on the wall thickness.

Blank pipes ordering way



Product application

Suitable for mainlines, sub-mainlines, and customized drip laterals.

6. Barbed irrigation fittings

ZETA Barbed irrigation fittings offer user-friendly and efficient connectivity. They stand out for their affordability and minimal upkeep requirements, making them an ideal choice for irrigation barb connections. These straightforward slip-in fittings are compatible with oval hose, polyethylene mainline tubing, and 1/2" emitter tubing, ensuring versatility and ease of use.

Part No	Description	Photo
B-T-16-16-16	Barbed tee coupling , 16mmx16mmx16mm	
B-E-16-16	Barbed elbow coupling , 16mmx16mm	
B-MTE-16-1-2	Barbed male threaded elbow coupling , 16mm x 1/2"	
B-C-16-16	Barbed coupling , 16mm	
B-BS-16	Bubbler stake , 16mm x 1/2"	
B-BSH-1/2	Non-PC adjustable bubbler head , 1/2"	
B-DS-16	Drip pipe stake , 16mm	
B-RC-16	Ratchet clip , 16mm	





IRRIGATION SYSTEMS

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