

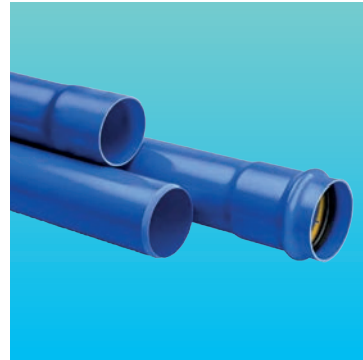


Solutions for water pipelines and irrigation networks

Our references



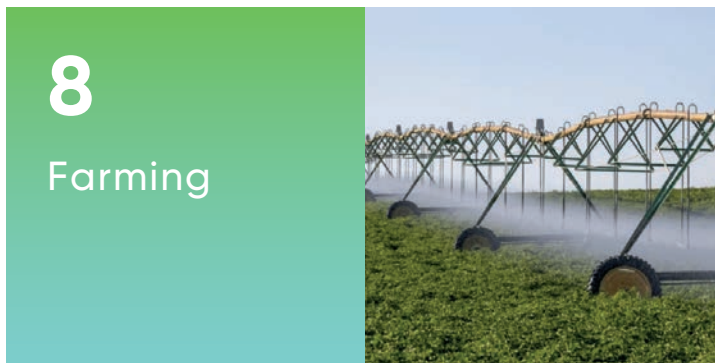
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Our identity

In a rapidly changing world, with a growing population and a changing climate, **water** is one of the most precious resources on our planet, so we must strive for a more conscientious and sustainable use.

As a global industry leader that connects people with water and energy, Aliaxis is ready to stand for this challenge and help shape a better tomorrow.

We offer water and energy management systems all over the world, and it is precisely the specific knowledge and experience of our people that makes the difference for our customers, with whom we work closely to provide reliable performance, today and tomorrow.

Our brands have been providing innovative solutions for over 60 years and represent our history and know-how in the field of Building, Infrastructures, Industry and Agriculture.

Aliaxis Italia develops customized solutions and supports the Customer from the idea to the execution of the project, collaborating to define the ideal solution which is able to meet their needs and objectives.

A dense network of distributors, structured to guarantee not only the availability of products but also direct support and advice, is one of the many advantages that Aliaxis Italia provides to its Customers.



 LARETER

 ASTORE

REDI

Nicoll

www.aliaxis.it



From Design to the field

Aliaxis Italia has a specialized team that works with contractors, Utility companies and Installers in the sector to offer:

- Consultancy services
- Technology
- Solutions

CONSULTANCY SERVICES

We listen to the needs of professionals and contractors to find the most suitable solution. We guide our partner from the tender stage to the construction site, providing design, technical and regulatory support to achieve the desired result.

Each project is unique, because the boundary conditions are different: the territory with its hydrogeological characteristics, regional standards and local regulations.

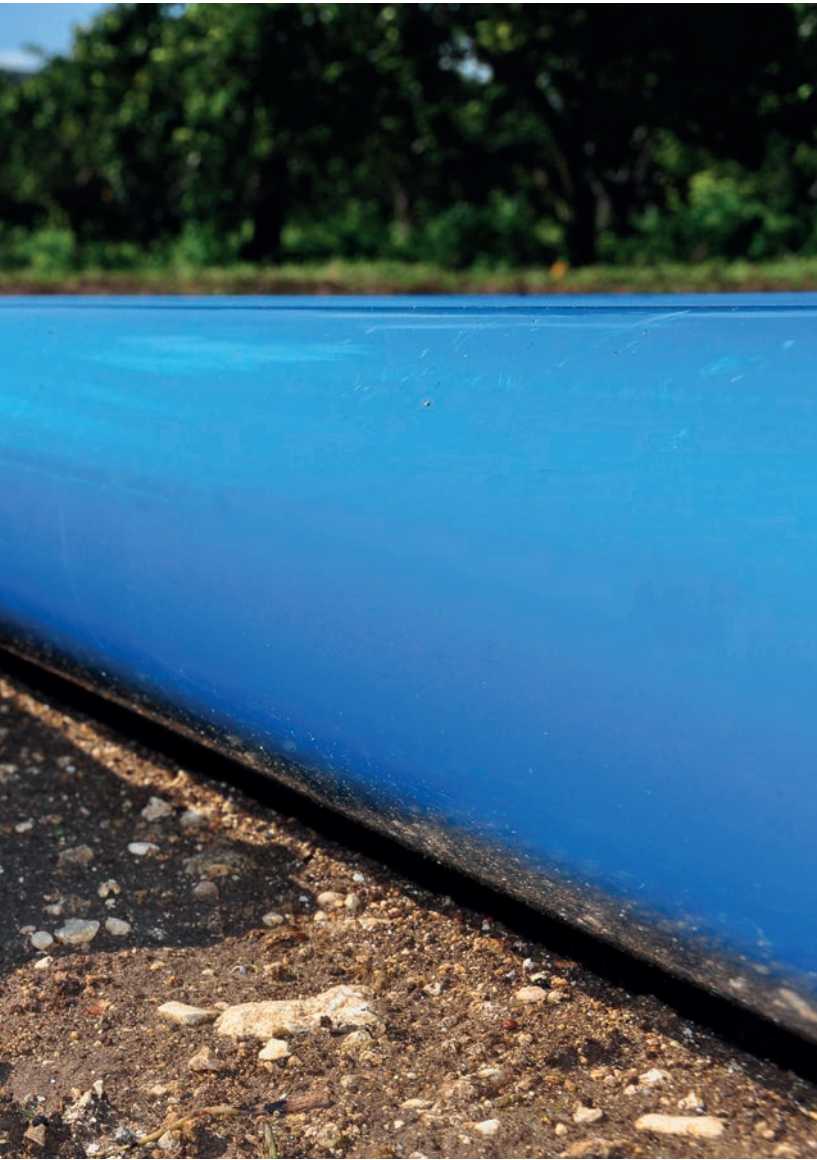
ADVANTAGES

Choosing the Aliaxis systems means:

- Being able to choose a complete system
- Assistance during design
- Compliance with regulations
- High performance of materials
- Ease and speed of installation
- Savings in installation times

Our team of technicians is aside to the designers and contractors **from the Design to the Construction Site**. We build our offer based on the needs of our partner.





APPLICATIONS

Water transport and management in **farming**.

- **New pipelines**
- **Water transport networks**
- **Water derivations and distribution networks**

We adapt our offer to the needs of professionals and companies.

TECHNOLOGY

We provide solutions that comply with current regulations and on-site assistance during installation.

Rely on our experts in order to guarantee that the work is carried out professionally: provide the correct system and choose the most suitable solution saves on installation time and ensures the work of the contractor and the designer.

GLOBAL DISTRIBUTION NETWORK

Aliaxis can guarantee fast on-site service and the availability of the same product locally thanks to its global presence. Through this network it can support its partners on all the continents with a presence in over 45 countries.

CERTIFICATIONS

Our solutions comply with the main Italian and international environmental sustainability standards and are certified by the main reference bodies.



VDA[®] System

The **sustainable** and **innovative** solution for water transportation, **simple** and **quick** to install, reliable and safe without maintenance.

VDA[®] is the revolutionary high-efficiency Aliaxis system for transporting water under pressure made of PVC-A, an innovative additive PVC polymer alloy that combines the resistance of PVC-U with the ductility of Polyethylene, thus creating a product that is very resistant to crack propagation.

This material offers mechanical and hydraulic performance levels superior to those of traditional plastics, greater guarantees of seal of the pipes over time, quality of the water transported, ease of transport and installation, reduced installation and operating costs.

The VDA[®] range includes POWER-LOCK[®] pipes and bends from Ø50 to Ø500 mm with operating pressures of 8 - 10 - 12.5 - 16 - 20 bar.

CHARACTERISTICS

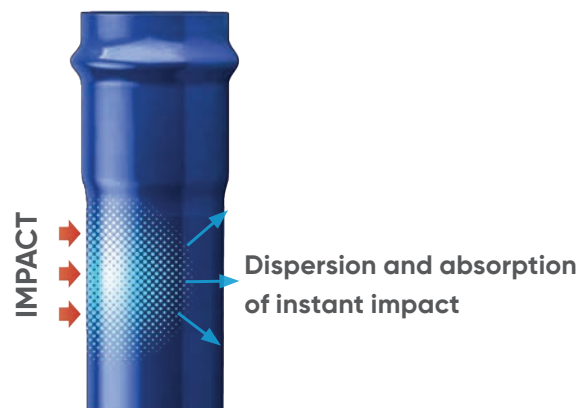
- High resistance to crack propagation during laying
- Significant impact resistance to concentrated loads even at low temperatures
- Good tolerance to chemicals
- Lower weight with the same diameter and pressure
- Longer plant life: life cycle longer than 50/80 years
- Increased water service delivery efficiency
- Simplified installation
- Great sealing reliability thanks to the FORSHEDA 601 POWER-LOCK[®] seal
- Reduced installation and maintenance costs
- No risk of incorrect pipes laying

Impact resistant

High shock absorption capacity thanks to the elasticity characteristics of the material.

Resistant to crack propagation

Main cause of breakage during installation operations.





Corrosion resistant

No risk of leakage along the network compared to traditional metal pipes.

Guaranteed hydraulic seal

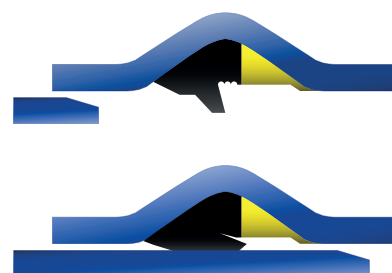
FORSHEDA 601 POWER-LOCK® gasket mechanically pre-inserted during the tube socketing phase

Non removable gasket that prevents installation errors.

Flexible rubber element that ensures perfect adhesion on the pipe.

Guarantee of hydraulic seal with both positive and negative pressures up to -0.5 bar.

Angular deflection of the gasket up to 3° (high compensation and flexibility of the joint).



Maximized flow rate

Compared to traditional plastics, VDA® reduces overall cost of ownership.

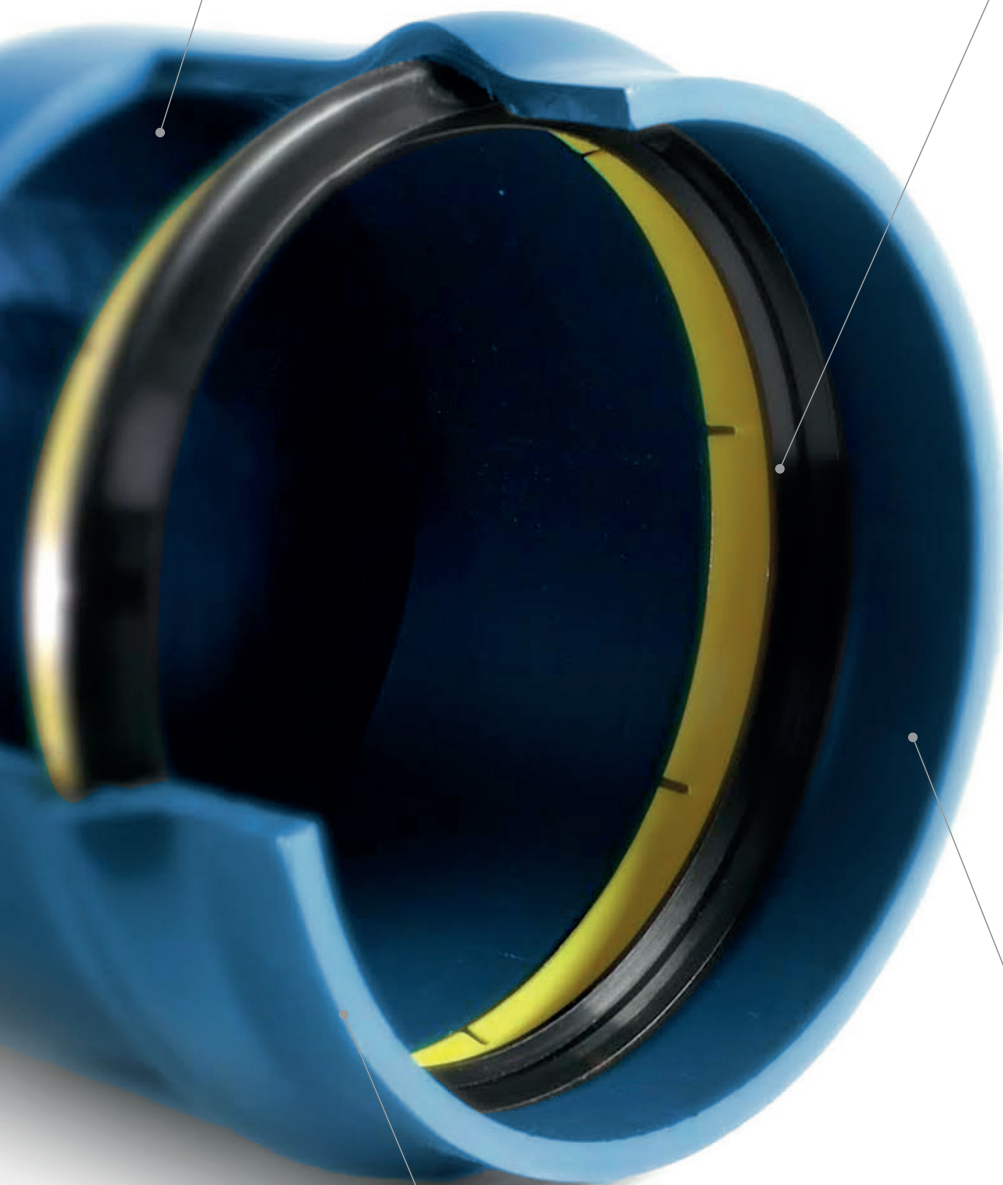
The VDA® system guarantees:

- Greater capacity with the same external diameter.
- Reduced pressure drops.
- Lower pumping energy.

Quick and easy installation

Greater ease of handling and safety on site thanks to the reduced weight compared to other pipes of equal diameter and PN.

Reduced installation times and costs thanks to the fast and reliable jointing technology.





Agriculture

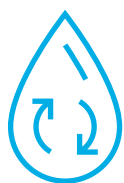
Feeding an ever-growing population is a global challenge that will inevitably become a central factor in the coming decades.

Promoting more efficient farming is essential to ensure a sustainable future for the planet and its inhabitants.

Aliaxis offers a wide range of solutions to achieve this goal, with quality systems that allow farmers to manage both the irrigation of crops and the watering of livestock.

The VDA[®] system offers pipes and bends made of PVC-A, an innovative polymeric alloy that combines the handiness of PVC with the elasticity of Polyethylene.

The VDA[®] system reduces the cases of breakages thanks to the high crack absorption capacity and, thanks to the FORSHEDA 601 POWER-LOCK[®] system, simplifies the piping installation process, reducing irregularities and tolerances.



Water
quality



Ease of
installation



Environmental
sustainability

Hungary: new water pipeline for 240 hectares of land

Construction of new networks for Linear and Center Pivot irrigation systems



Application	Irrigation
Location	Hungary
Year	2023
Total length	1,800 m

Type of project

Construction of a new irrigation network for the cultivation of corn and carrots over an area of 240 hectares. The irrigation plant consists of two systems: Linear and Center Pivot.

In order to supply water to the plant, the VDA® system was used for a total capacity of 525 m³/h.

Advantages

Installation time and cost reduced thanks to the plug-in joining technology.

Easy handling thanks to the reduced weight compared to other pipes of the same diameter and PN.

Accidental breakage is avoided thanks to the elasticity of the material.

Item	PN	Ø	Bar length
VDA pipe	10	225	6 metres





Slovenia: new water infrastructure for irrigation systems

Conversion of a 110-hectares plot of land to farmland



Application	Irrigation
Location	Slovenia Letuš
Year	2023
Total length	3,500 m

Type of project

Conversion of 110 hectares to farmland, for the cultivation of corn, wheat, barley and hops. Construction of a drip and direct, irrigation system with dedicated hydrants for each farmer along the pipeline; capacity of 200 m³/h.

Advantages

The choice of the VDA[®] system with FORSHEDA POWER-LOCK[®] gasket makes installation faster:

- Breakage is avoided thanks to the high shock-absorbing capacity.
- Greater capacity compared to other pipes of the same diameter and PN.
- Compliance with quality standards and ease of installation.

Item	PN	Ø	Bar length
VDA pipe	10	110	6 metres
VDA pipe	10	280	6 metres





Romania: new high flow rate Center Pivot irrigation system

Plant for the cultivation of corn on 50 hectares of converted land



Application	Irrigation
Location	Romania, Tulcea
Year	2023
Total length	900 m

Type of project

Installation of a new irrigation system for 50 hectares of land converted to farming, for the cultivation of corn.

The VDA[®] system was used to serve a Center Pivot system, with a flow rate of 100 m³/h.

Advantages

Installation time and cost reduced thanks to the plug-in jointing technology.

Easy handling thanks to the reduced weight compared to other pipes of the same diameter and PN.

Accidental breakage is avoided thanks to the shock-absorbing capacity of the material.

Item	PN	Ø	Bar length
VDA pipe	12.5	160	6 metres
VDA pipe	12.5	500	6 metres





Italy: irrigation network for planting a new olive grove

Extension of 800 hectares for the Olivastraia Frantoio Stanghellini olive grove



Application	Irrigation
Location	Tuscany - Italy
Year	2023
Total length	11,000 m

Type of project

Irrigation pipeline on about 800 hectares of land dedicated to the production of high quality extra virgin olive oil.

Advantages

Maximized flow rate: reduced pressure losses and optimized plant management costs thanks to the larger internal diameter with the same PN.

Quick and easy installation: Greater ease of handling and safety on site thanks to the reduced weight compared to other pipes of equal diameter and PN.

Installation time and cost reduced thanks to fast and reliable jointing technology.

Item	PN	Ø	Bar length
VDA pipe	10	110	6 metres
VDA pipe	10	125	6 metres
VDA pipe	10	140	6 metres
VDA pipe	10	160	6 metres





Italy: Replacement of old steel pipes to eliminate water leaks

Creation of new, more efficient and sustainable networks for the Aterno & Sagittario Abruzzo Internal Basin Reclamation Consortium



Application	Renewal of irrigation system lines
Location	Abruzzo - Italy
Year	2023
Total length	6,472 m

Type of project

Renovation and efficiency upgrading of old steel pipes for the irrigation, with drawdown from the lakes, in the villages of Bagno e Ocre near l'Aquila.

Managing Body

Aterno & Sagittario Abruzzo Internal Basin Reclamation Consortium.

Advantages

Installation time and cost reduced thanks to fast and reliable jointing technology.

Corrosion resistant: No risk of leakage along the network compared to traditional metal pipes.

Item	PN	Ø	Bar length
VDA pipe	16	200	6 metres
VDA pipe	16	225	6 metres
VDA pipe	16	250	3 meters
VDA pipe	16	315	6 metres
VDA pipe	16	400	6 metres
VDA pipe	16	500	6 metres





Italy: new Center Pivot irrigation system

High flow rate and water saving plant for sustainable cereal cultivation



Application	Irrigation
Location	Friuli Venezia Giulia
Year	2023
Total length	600 m

Type of project

A large irrigation project for 30 hectares of land dedicated to cereal cultivation.

The water supply to the Pivot system was made with VDA® pipes, with a flow rate of 144 m³/h.

Advantages

The choice of the VDA® system with FORSHEDA gasket makes installation faster:

- Breakage is avoided thanks to the high shock-absorbing capacity.
- Greater capacity compared to other pipes of the same diameter and PN.
- Compliance with quality standards and ease of installation.

Item	PN	Ø	Bar length
VDA pipe	16	225	6 metres





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