

# Product Range Overview



## Boundary boxes

The only load-bearing screw adjustable boundary box

[alixis.co.uk](http://alixis.co.uk)





# Contents

Introduction to Aliaxis	5
Boundary boxes	6
Boundary box features	9
Series 3 features	10
Non-contaminated land – Adjusta boundary box	12
Contaminated land – Protecta-Line boundary box	13
Accessories	15
Product standards and approvals	19



## Welcome to the boundary box guide

Discover our comprehensive range of Aliaxis boundary box systems, featuring our GPS brand and its renowned Adjusta and Protecta-Line products. It includes product specifications, features and code selection to help you develop a greater understanding about these products and their benefits.

Whether you're looking to learn about the range as a whole, or you'd like to know about using each solution for contaminated and non-contaminated land, you're in the right place.

## Aliaxis

Aliaxis UK is built on a passion for creating water, gas, and energy systems. Through those systems, we want to make life flow, which means making water, sanitation, and energy accessible to communities around the world.

We're renowned for our trusted products and our technical expertise, continually working to ensure our solutions and services adapt to the evolving needs of our customers. The world is changing and so are we; with a dedicated team and a clear plan, we're helping the world meet its water challenges and ensure we make a positive impact on the environment.

## Our brands

We manufacture and deliver systems and products from established brands including Alutec, Durapipe, GPS and Philmac.

These brands, plus many more, are all part of the Aliaxis family. This means they're all part of our commitment to connecting people with water and energy through dependable, innovative, and sustainable solutions.

Although they're all under the Aliaxis umbrella, each of these brands bring their own solutions to tackle market challenges, developing stellar reputations in their own right.

## Adjusta™ and Protecta-Line boundary boxes

This range guide showcases products from the GPS brand, including the Adjusta and Protecta-Line boundary boxes. Continually developing to meet the changing needs of the market, this latest guide details the benefits of boundary boxes, including the new features from the Series 3 range.



**Adjusta™**



**PROTECTA-LINE**

# Boundary boxes



Designed to house the meter below ground at the boundary between the water main and the domestic supply, the comprehensive range of Adjusta and Protecta-Line boundary boxes offer complete flexibility.

Our boundary boxes:

- help to measure and bill for water used
- aid compliance with legal and regulatory requirements
- enable water companies to identify leakages on the network and customer supply pipework, thus assisting in the reduction of per capita consumption

## Options for non-contaminated and contaminated land

A wide range of Adjusta boundary boxes for non-contaminated ground and Protecta-Line boxes for contaminated land are available with a choice of 25mm, 32mm or 3/4" British Standard Pipe (BSP) service connections.

## Connection options

The Adjusta and Protecta-Line boundary boxes are available with the following connection types:



### Tails

Useful when replacing existing boundary boxes or for replacing existing stop taps



### Compression fitting

Easy to install and disassemble, Philmac and Protecta-Line mechanical compression fitting connections can be easily connected to Polyethylene pipe from the mains, requiring only a small number of connections



### 3/4" BSP connection fitting

Brass meter valve included in the Protecta-Line range, which comes with a threaded BSP connection.

# Boundary box features

Our boundary boxes are designed for ease of installation, providing minimal maintenance and maximum performance.

## Adjustable top section

- Adjusta and Protecta-Line boundary boxes are manufactured with an adjustable top section, so the installer can easily adjust the height and pitch of the boundary box to suit the specific on-site conditions without compromising on loading capacity.
- The screw thread feature offers a strong and robust hold, reducing the likelihood of depression during the product's lifespan and eliminating potential trip hazards. The lid stays level to the pavement or ground for a more secure installation.

## Box lid

- Tested in accordance with WIS 4-37-01 and surpassing Grade B (71.77 kN) standards, the boundary box is less susceptible to vehicular stress. This extends its operational lifespan, minimising the frequency of replacements.
- Various lid options are available with metal detection plate as standard, along with customisable lettering.

## Modular bayonet design

- Featuring a modular bayonet design, the box can be separated prior to meter installation. The open access aids ease of installation, especially where clearance is an issue.
- Having better access improves connection quality, facilitating a more secure connection and minimising errors.
- Reinstatement is also simplified as the guard tube can be fitted once the base installation is complete before backfilling.



Our boundary boxes are made from up to **71%** recycled content\*, which is a key part of our progress towards our sustainability targets.

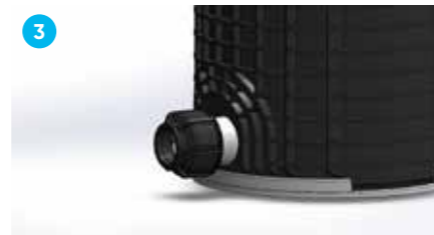
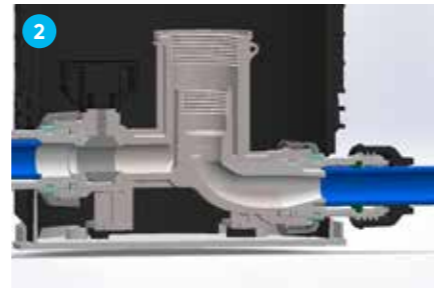
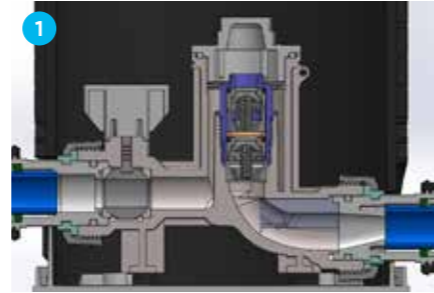
\*This is based on our Series 3 boundary boxes. Please email [technical.advice@alixis.com](mailto:technical.advice@alixis.com) for further information.

## Series 3 features

Our Series 3 range captures all the benefits of our standard range, as well as the following additional features:

### Innovative design

- A newly developed ¼ turn valve mechanism, offering a quick and reliable flow control with a 90-degree handle rotation.
- Full bore flow, which minimises the loss of water pressure and ensures a consistent flow rate to the household tap.
- A double-check valve comes as standard with Series 3 boxes, providing a category 3 backflow protection (as per image 1).
- The double-check valve can be modified to a single-check valve with flow restrictor, allowing a specific flow to be delivered to suit various property types and locations.
- The first horizontal ¼ turn valve mechanism which allows for an in-line camera insertion (as per image 2).
- As with our standard tails boxes with rising spindle tap assembly, simply shut off the service connection and inspect the service pipe with a camera inserted through the water meter housing.



### The connection you can trust

- WRAS-approved 3G Philmac compression fittings, allowing for easy assembly and disassembly, and ensuring a quick, trusted connection to metric and imperial polyethylene pipework (as per image 3).
- Fully approved mechanical compression fittings for Protecta-Line boxes for a secure connection to Protecta-Line pipework.



# Non-contaminated land

## Adjusta™ boundary box

### Product range

The Adjusta range is available with 25mm and 32mm connections, with a choice of either tails or Philmac compression fittings, providing a highly versatile solution, which can be specified to suit any requirement or installation.

The Adjusta boundary box range is manufactured and tested in accordance with WIS 4-37-01, fully approved by WRAS and complies with the relevant requirements of BS 5834-1: 2007 and BS 5834-2: 2011.

Adjusta boundary boxes				
		Series 3 1/4 turn valve		Standard rising spindle tap
		25mm	32mm	25mm
Tails - ideal for existing installations	No lid	LUBA3000	LUBA3010	LUBA0045
	Round Lid	LUBA3001	LUBA3011	LUBA1006/ LUBA1002*
	Lid and Slope Adjusta	LUBA3002	LUBA3012	
	Lid and square cowl	LUBA3003	LUBA3013	LUBA2079
	Lid and surface box	LUBA3004*	LUBA3014*	LUBA1047*
Compression - ideal for new installations	No lid	LUBA3020	LUBA3019	
	Round Lid	LUBA3005	LUBA3015	
	Lid and Slope Adjusta	LUBA3006	LUBA3016	
	Lid and square cowl	LUBA3007	LUBA3017	
	Lid and surface box	LUBA3008*	LUBA3018*	

\* Lid with a tether

### Customisable lid

All lids come with a metal detection plate, a keyhole and are marked 'Water' as standard. However, metal plates and keyhole can be removed and company or alternative wording can also be applied. Please contact us for all customised lid options.



No lid

Round lid

Slope Adjusta

Square cowl

Surface box

# Contaminated land

## Protecta-Line boundary box

### Product range

Protecta-Line boundary boxes fuse the power of Protecta-Line technology with the strength and versatility of our Adjusta range. These boxes benefit from our Protecta-Line mechanical compression fittings, providing ease of installation and a powerful and complete water supply solution in contaminated land, or land at risk of future contamination.

The Protecta-Line range of boundary boxes are available with 25mm, 32mm or 3/4" BSP connections, with a choice of tails, compression fittings or threaded connections.

The Protecta-Line barrier system and boundary box range is fully BS 8588 approved, compliant to WRAS, WIS 4-37-01, BS 5834-1:2017 and BS 5834-2:2011.

Protect-Line boundary boxes				
		Series 3 1/4 turn valve		Standard rising spindle tap
		25mm	32mm	25mm
Tails - ideal for existing installations	No lid	LUBA3000P	LUBA3010P	LUBA000P
	Round Lid	LUBA3001P	LUBA3011P	LUBA001P
	Lid and Slope Adjusta	LUBA3002P	LUBA3012P	LUBA002P
	Lid and square cowl	LUBA3003P	LUBA3013P	LUBA003P
	Lid and surface box	LUBA3004P*	LUBA3014P*	LUBA004P*
Compression - ideal for new installations	No lid	LUBA3020P	LUBA3019P	
	Round Lid	LUBA3005P	LUBA3015P	
	Lid and Slope Adjusta	LUBA3006P	LUBA3016P	
	Lid and square cowl	LUBA3007P	LUBA3017P	
	Lid and surface box	LUBA3008P*	LUBA3018P*	
		Female (brass) 1/4 turn valve		Male (sealed box) rising spindle tap
3/4" Threaded	No lid			LUBA0007
	Round Lid	LUBA1068		LUBA1000*
	Lid and surface box	LUBA1075		

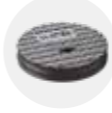










\* Lid with a tether



Our boundary box range will accept the majority of existing surface boxes, giving you total flexibility.








# Accessories

To assist with different installation areas, various lid options and accessories are available, as shown below.

Boundary box accessories and spares		
Product name	Product code	Product description
 Water lid with keyhole and location plate	LUBA0115	Customisable text or tether available upon request
 Square finishing cowl	LUBA1073	Optional detachable square finishing cowl aids back filling and can be rotated through 360° to make final alignment with paving materials easy
 Tethered surface box	LUBA1036	Including water lid with keyhole and location plate
 Slope adjuster unit	LUBA0018	Up to 10° adjustment, load bearing, for use with round lid only
 Thermal insulation (frost) plug 180mm	LUBM0123	To aid protection against freezing to a temperature at ground level of -15°C. For Adjusta and Protecta-Line boxes
 Thermal insulation (frost) plug 180mm 1/4 turn	LUQM0123	For Series 3 Adjusta and Protecta-Line boxes. 1/4 turn stamp
 Thermal insulation (frost) plug 195mm	LUBM0055	For rigid boxes
 Height adjuster tool	LUBM0093	To aid boundary box height adjustment
 Adjusta guard tube	LUBA1006GT	For use on existing water meters
 25mm pipe liner	78003	Required with Adjusta Series 3 compression boundary boxes, to comply with WRAS
 32mm pipe liner	78004	Required with Adjusta Series 3 compression boundary boxes, to comply with WRAS



# Accessories continued

Meter carrier accessories and spares		
Product name	Product code	
 Rising spindle stop tap assembly	LUBA0036	
 Plug and o-ring kit short thread	LUBA0037	
 Plug and o-ring kit long thread	LUBA0047	
 Plug and o-ring kit no flow	LUBA0046	
 Plug and o-ring kit trickle flow	LUBA0048	
 Rising spindle check valve	LUBA0084	
 1/4 Turn double check valve assembly	LUQA0001	



### Can't find the product you're looking for?

Our boundary box has a modular construction, allowing for a range of base and sleeve configurations, chamber heights and surface finishes.

Speak to us to find out about our wider product offering, which includes Adjusta Mini, Protecta-Line Mini, extended upper ducts for higher boundary boxes, push-fit connections, and much more.



## Product standards and approvals

Manufactured in Chesterfield in the UK for over 30 years, our quality assurance and environmental responsibility are at the forefront of our product offerings and services.

Operating to ISO9001 Quality Management, ISO 45001 Occupational Health and Safety and ISO14001 Environmental Management Systems, our boundary boxes comply with the following UK standards, specifications and approvals, as required and appropriate:

- WIS 4-37-01 - Specification for boundary boxes for the metering and control of domestic and small industrial water services
- BS 5834-1: 2017 - Surface boxes, guards and underground chambers for the purposes of utilities. Specification for guards and plinths.
- BS 5834-2: 2011 - Surface boxes, guards and underground chambers for the purposes of utilities. Specification for surface boxes.
- BS 8588: 2017 - Polyethylene pressure pipe with an aluminium barrier layer and associated fittings for potable water supply in contaminated land.

Our commitment to high standards is demonstrated through rigorous quality control and testing procedures for all of our products.

- Each moulded boundary box component undergoes Statistical Process Control (SPC), meticulously recording critical details such as dimensions, material types and tolerance levels.
- Every finished boundary box is subjected to a comprehensive 100% pressure test before being palletised to ensure zero leaks are found in service and installation.
- Our rigorous quality control means that every item meets stringent criteria across the board.

### Technical Support

If you require any further information or technical assistance, please contact [technical.advice@alixis.com](mailto:technical.advice@alixis.com)





**Aliaxis UK Limited** - Dickley Lane, Lenham, Maidstone, Kent, ME17 2DE  
Sales/Technical: +44 (0) 330 111 4233  
customerservice@alixis.com

**alixis.co.uk**

PRO Boundary Box V1 03.25

