



## Boundary Water Meter Box

### Sealed Telescopic Water Meter Chamber.

The innovative design of the Premier Boundary Water Meter Box sets this box apart at a higher standard of Boundary box from all other plastic covered Boundary Boxes. **The advanced features of the Premier Box which are critical for a long extended service life include a “Grade B” polymer cover that is up to six times stronger than conventional “Grade C” plastic covered boxes.**

With modern electronic data collection a polymer covered boundary box is very important as the AMR Radio signal transmits through a polymer cover without interference as opposed to a radio signal that is blocked through a cast iron covered box.

High Quality  
Irish Product



### Heavy Duty Cover and Frame.

An extra heavy duty load bearing capacity cover has been designed and fitted. **This complies with “Grade B” International Standards which are required as per standards for vehicle assess areas.** This heavy duty lid is designed and tested to BS5834 Part 2 grade B (8 ton load bearing capacity) and a second option tested to EN124 Class B125 (12.5 ton load bearing capacity) is available.

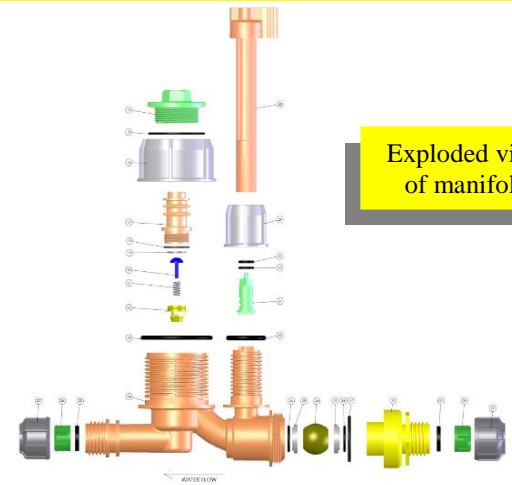
The cover frame is designed utilising a **curved surface** similar to a ball joint giving a totally variable seven degree tilt. This makes the alignment with the gradient of the top ground surfaces very easy. A metal detection plate is fitted under the cover.



## Manifold design.

There is a hidden treasure buried with each installation of a Premier Boundary box. This manifold is of superior design with minimum joints. This is achieved with the high cost specialised injection moulding tooling. At water conferences throughout the world a popular topic is water leaks. This hidden treasure of the Premier manifold with minimum joints addresses this topic. In its design a non return valve is fitted. Also a straight through modern design ¼ turn stopcock ball valve is fitted and greatly reduces head loss.

The Manifold which includes a non-return valve is designed to 16 bar working pressure. The material used to manufacture the manifold is a 2.5 MFI (Melt Flow Index) acetal material. This material is most suitable as it gives the best dimensional stability when water pressure is applied. The manifolds accept the standard concentric water meters



Exploded view of manifold



Manifold assembly

## Easy installation.

The fast fitting pipe connections ensure easy installation of the pipes. The telescopic adjustment of the meter box chamber allows the height of the box to be easily adjusted and the 7 degree variable tilt allow the top of the meter box align with the gradient of the top ground surface. The top of the box can rotate 360 degrees if adjustment is required.





**Premier** Boundary Water Meter Box in service.

### Simple operation.

The Premier Boundary Box Heavy Duty Cover provides excellent access and easy working space within the meter chamber. The ¼ turn shut off and on valve is easy to operate. This straight through ball valve greatly reduces head loss over traditional screw down valves. A removable handle is fitted to facilitate the easy installation of meter equipment.

### Benefits.

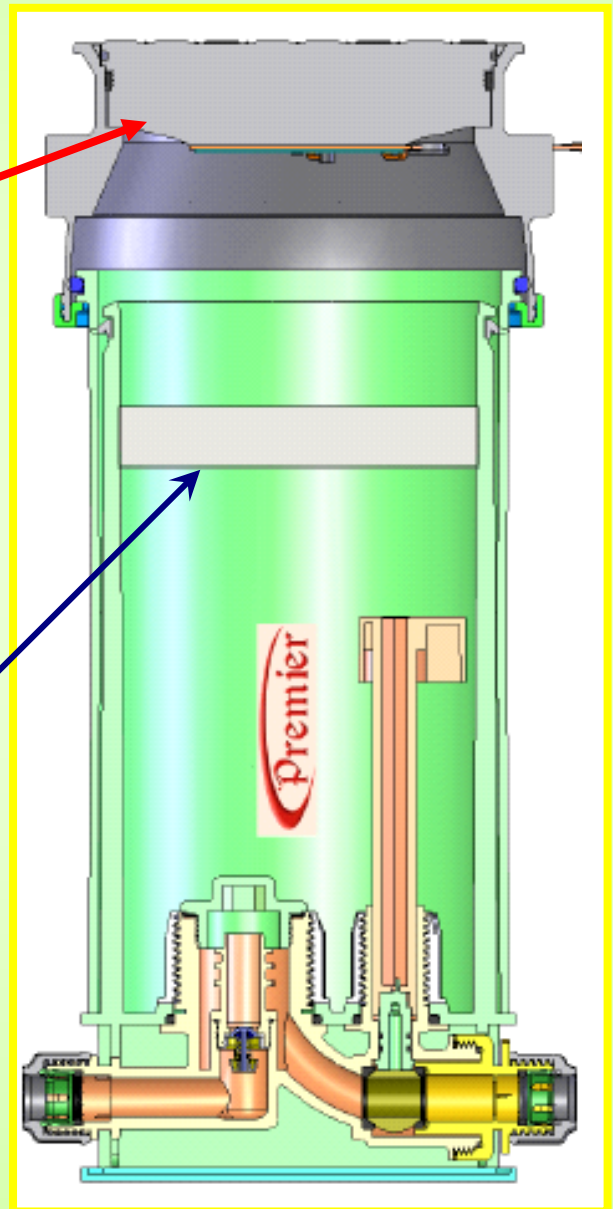
The Premier Boundary Water Meter Box is a self contained sealed robust unit. **It is designed to provide an extra high load bearing capacity cover to comply with Grade B international standards where vehicles have access.** The unit has a sealed chamber and has the provision of two punch out holes in the bottom of the box to allow self draining if required.

Water meters and electronic reading equipment can be fitted easily. The cover lid is adjustable up to 7 degree variable tilt to match the top ground surface gradient. Excellent access and visibility to both stop valve and meter is provided through the top opening.

### Frost Protection.

A 30 mm closed cell insulation layer is fitted over the meter and electronic equipment to aid as frost protection.

### Technical Data.



**Premier Boundary Box; Patent Pending.**

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The box is designed to comply with WIS (Water Industry Specification) 4-37-01 Class 1, water tightness specification. The height of the box is adjustable from a minimum 560mm to a maximum 860mm. Materials used; Acetal, Aramid fibre, PTFE, Nylon, Impact modified PP, Fibre reinforced PP, Fibre reinforced nylon, EPDM seals and nitrile seals. All materials in contact with water are WRAS approved.

### Main Points;-

- ☀ The Premier Boundary Water Meter Box is easy to install and is aided by the telescopic chamber and 7 degree head tilt design.
- ☀ The heavy duty cover is designed and tested to BS5834 Part 2 grade B (8 ton load bearing capacity) and a second option tested to EN124 Class B125 (12.5 ton load bearing capacity).
- ☀ Less joints on manifold reducing the risk of leaks.
- ☀ Large working space in the box allowing easy access.
- ☀ Special purpose designed sealed moulded chamber - no fill up of dirt.
- ☀ Two punch out hole available in the bottom of the box to enable self draining if required.
- ☀ Closed cell frost protection pad fitted.
- ☀ High grade fibre reinforced polymer cover – Engineered plastic strength and less risk of been stolen.
- ☀ Polymer cover is better for reading of radio signal -- cast iron covers will shield the radio signal.
- ☀ Premier boxes can be fitted with automatic meter reading equipment.
- ☀ Metal detection plate fitted.
- ☀ Quarter turn shut-off stopcock.
- ☀ Non-return valve fitted.
- ☀ Supply connections are available in Push-fit 25mm MDPE and also a compression connection suitable for ½” Irish Heavy Gauge pipe.
- ☀ Manifold designed for 16 Bar working pressure.
- ☀ Design comply to WIS 4-37-01 Class 1 water tightness specification.
- ☀ ISO 9001 Quality Management System Certified. I.S. EN ISO 9001:2008 certificate no. 3752.
- ☀ WRAS Certified as; “PREMIER WATER METER BOX”. WRAS certificate states this product was examined, tested and found when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations/Scottish Water



### Punch out holes



### General application.

The Premier Water Meter Boundary Box has two pipe fitting options depending on request. Premier Boundary Water Meter Box connections are available in Push-fit 25mm MDPE and also a compression connection suitable for ½” inch Irish Heavy Gauge pipe. The units suit 1½ inch concentric water meters and are robust in design. They are easy to install and operate. The units can be installed as retrofit or in new installations.



Plastic injection moulding facility.



Established : 1986.

### Manufacturer;-



**Premier Plastics Ltd., Shinagh, Bandon, Co. Cork, Ireland.**

Tel: 023 8841028

email; [info@premierplastics.ie](mailto:info@premierplastics.ie)

[www.premierplastics.ie](http://www.premierplastics.ie)