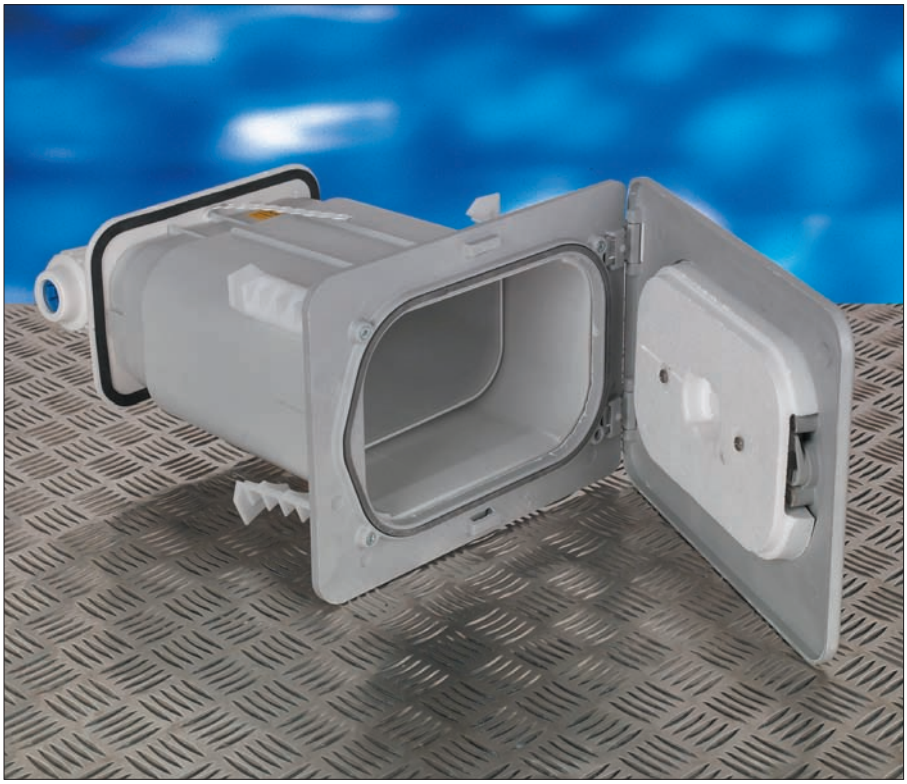
ATPLAS
Boundary Boxes

Intex 2
Wall Boxes

The Atplas Intex 2 is a purpose designed alternative to traditional underground meter chamber systems for new domestic or small commercial water connections. Intex 2 is designed to be built into the wall of a property during its construction and offers particular advantages over some underground chamber systems especially in areas of contaminated land. Intex 2 brings benefits to the utility, the house builder or developer and the consumer, in fact everyone involved in the meter supply chain.



Benefits

- *New simplified design that reduces the risk of misuse or damage on site and allows vertical or horizontal installation for more choice in installed location*
- *Reduces building site damage and associated costs by eliminating the need for expensive street furniture and related road and street works liabilities*
- *Reduces connection and total life maintenance costs*
- *Simplifies meter reading and levels of service testing as well as facilitating the potential for meter technology upgrades*
- *Inlet and outlet elbows rotate through 180° to permit easier plumbing solutions*
- *Cartridge manifold design uses proven stop tap technology and is easily removed for internal finishing*
- *Telescopic ducting that allows installation in standard or extended cavity walls*
- *Fully designed and tested to WIS specifications*

Technical help

For further technical data, product specifications and general information please contact our Customer Service Department at the telephone number shown below.

Technical data

Sizes:

Connections
180° swivel connections to suit 25mm PE and 15 or 22mm copper pipes

Property wall thickness:
225 - 400mm and 30mm final internal adjustment

Wall opening size:
230 x 150mm (nominal) 1 x 2 bricks

Unit position:
Vertically or horizontally in outside wall allowing easy access and maintenance. Minimum of four brick courses (300mm) recommended six brick courses (450mm) above the FFL or damp course (which ever is higher)

Valve Type	1/4 turn
NRV	Single
Spares:	Door and bezel assembly
	Manifold cartridge
	Connections kit
	Door key
	Stop valve key
Material:	
Plastics:	Acetal or DMC

General application

The Atplas Intex 2 wall mounted meter box can be installed in any situation where a standard underground single chamber would be used. The Intex 2 has the added advantage of enabling the water supply to be connected to the new build property at an earlier stage in its construction than conventional chamber systems.

Compatible Meter Listing

Minimum internal installation clearance of 270mm
- Kent MSM range (Generator & Encoder)
- Schlumberger P40
- Socam 501LM, 610LM and 630
- Sensus SRD 3
- Tagus MVV 1000T

Minimum internal installation clearance of 225mm
- Kent MS10
- Socam 610LM
- Schlumberger P40
- Tagus MVV 1000T

Please note, meters are not supplied with the Intex II unit

tyco / Flow Control / Tyco Waterworks

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Intex 2 Installation considerations

The Atplas Intex 2 wall mounted meter box is designed primarily to be installed into new properties during the construction process. The unit can however be installed as a retro fit unit. For further information relating to the procedure for retrofit installation please contact the Atlantic Plastics Customer Service Team at the telephone number and address shown on the back of this data sheet.

The unit can be installed in either a vertical or horizontal orientation to match individual site conditions and both the inlet and outlet swivel to allow either orientation to be used. This swiveling action also makes service pipe connections easier.

Installation should be at a point at least four standard brick courses (recommended six brick courses) above Damp Proof Course (DPC) or Final Floor Level (FFL), whichever is highest.

Exact location of the Intex 2 should be considered during the building design process to allow correct positioning relative to service ducting and final internal room layout.

Simultaneous construction of both the internal and external wall skins below the Intex 2 unit installation area is required in order to securely install the unit.

Ensure that the local water authority is consulted with regard to positioning and connection timings so as to facilitate the connection of the supply.

Intex 2 Installation Procedure

Build the outer brick work and corresponding inner skin to the desired height that the unit is to be positioned. (A minimum level of 4 brick courses and a preferred level of at least 6 brick courses above the DPC or FFL)

Fit the unit directly above the rising service or service duct onto a bed of mortar on the brick work. Position the Intex 2 so the inlet connection is directly above the rising service or service duct and bed the Intex 2 unit into the mortar.

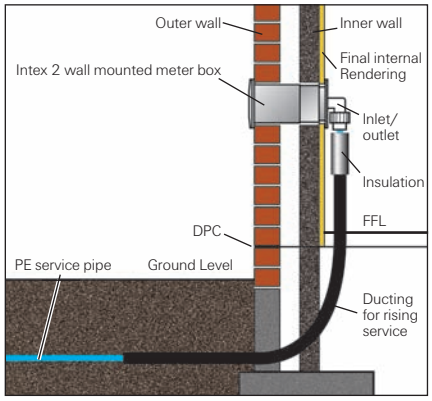
Ensure that the unit is positioned snugly between the inner and outer wall skins and that the inner and outer flanges are tight to the inner face of the inner wall and the outer face of the outer wall. Note: ensure that the minimum sleeve extension guide (indicated by a yellow label (270mm) is adhered to so later meter installation problems can be avoided. Use the two securing strips provided to secure the inner flange to the inner face of the inner wall or skin.

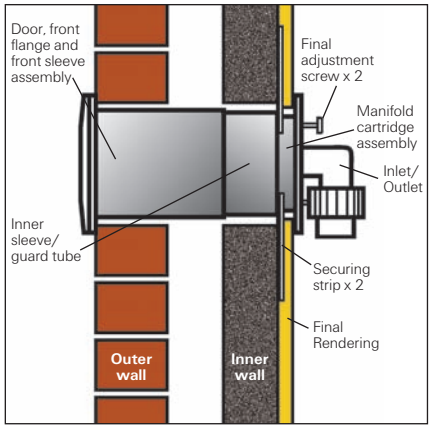
Build the adjacent 2 courses, (3 if the unit is to be installed vertically) around the Intex 2 ensuring that the unit is securely held in place and that it remains snugly positioned between the two wall skins.

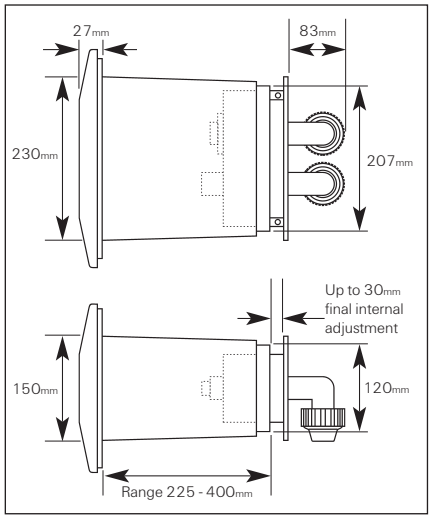
Build the final course over the Intex 2 using mortar to secure the brick work over the installed unit. Finish the brick work as usual over the Intex 2 to complete the structure.

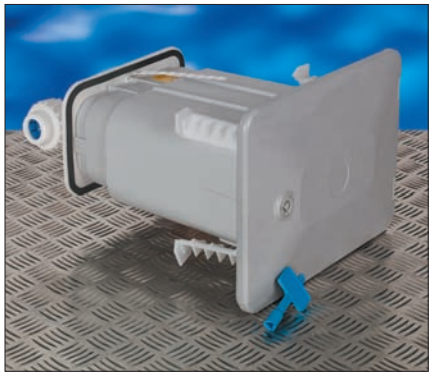
The Intex 2 Wall Mounted Meter Box allows for up to 30mm of final internal adjustment enabling internal plaster board or other similar finishing to be installed. To make this internal adjustment loosen the two adjusting screws on the inner flange and pull back the internal manifold cartridge from within the guard sleeve and place the final internal wall finish behind the internal flange. Alternatively the two screws can be removed and the manifold cartridge removed completely to make finishing easier. To replace the manifold cartridge slide it back into the guard sleeve locating the two lugs in their guides and gently push the manifold back into position. Re-locate the screws and tighten them until the inner flange is pulled snugly onto the new rendering.

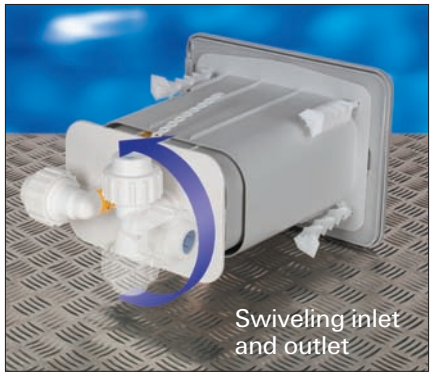
Once finally installed the edges of the two flanges can be sealed with a suitable sealant to further enhance the finish of the unit in the wall.











Intex 2 Service Connection Considerations

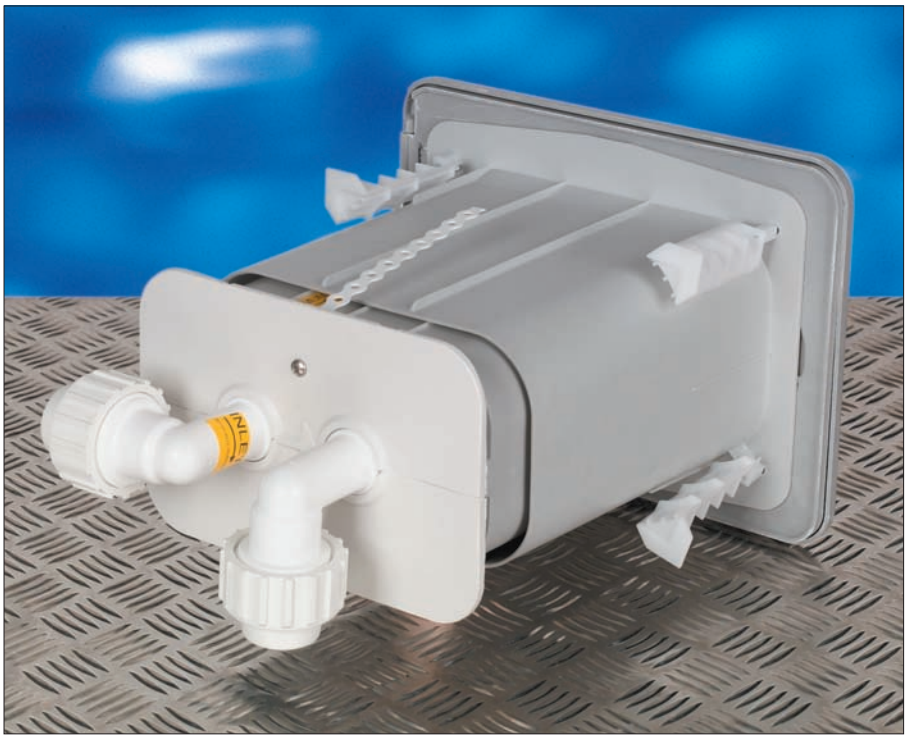
The incoming water supply must be flushed out prior to connection. This removes any debris that may be within the pipe before connecting to the Intex 2 unit. This helps to avoid any later stop valve or meter failure or any contamination of the internal plumbing.

Connections should be made in 25mm PE or 15 or 22mm Copper only. Other hot or cold plastic internal pipe systems must not be connected directly.

No Lubricants need to be used and copper pipes should be degreased and cleaned before use.

End nuts need be hand-tight only. If excessive force is needed to tighten them or any thread is visible behind them then incorrect assembly has occurred and the connection should be re-made.

Pipes must be insulated against frost in unheated areas as per regulations.



Intex 2 Service Connection Procedure

Ensure that the correct components for the pipes being installed are in place in the Intex 2 inlet and outlet connections

- PE inlet connection

  After flushing the PE supply pipe and cutting it to length, insert the 25mm pipe liner (5) into the pipe end.

  Partly loosen the nut (1) on the inlet connection and push the pipe fully into the mouth of the fitting until it bottoms out inside the fitting.

  Tighten the end nut (1) on the inlet by hand, no undue force should be necessary. The nut should also tighten to an extent where no threads are visible behind it.

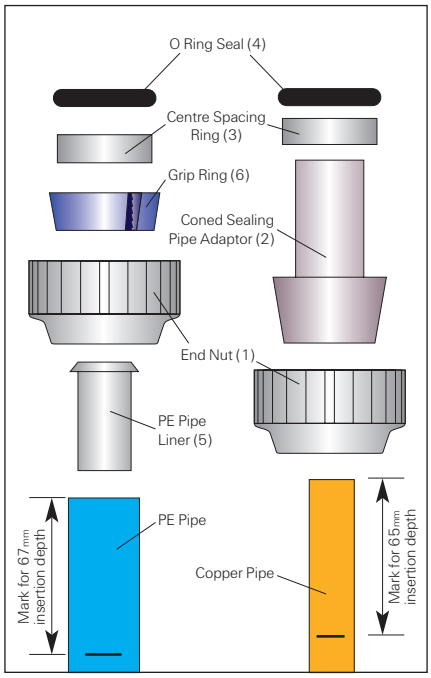
- Copper Inlet or Outlet connections

  Clean, de-grease and de-burr the end of the copper pipe.

  Remove the end nut (1) on the inlet/outlet connection and place it over the end of the pipe. Remove the white coned seal (2) and slide it fully over the pipe end until the pipe reaches the stop at the end of the seal. Place the white plastic spacer (3) over the sleeve of the coned seal (2) and then slide the 'O' ring (4) behind the spacer.

  Push this assembly fully into mouth of the inlet/outlet connection and relocate the end nut (1) onto its thread and hand tighten.

  If excessive force is needed or threads are visible behind the end nut on either the inlet or outlet fittings then disassemble the connection and re-make the joints.



Boundary Boxes and Accessories

Associated Products

The Tyco range of boundary boxes and associated equipment combine to provide the connection point between the mains water supply and the consumer property. This point may be used for several associated functions such as metering, filtration, pressure regulation or leak detection. Tyco supply an extensive range of boundary box designs as well as a variety of associated items, all of which conform to the relevant water industry standards. These products are high quality and are designed to provide many years of trouble free use and operation.

Single Boxes

The Atplas standard boundary box is a single manifold unit with 25 or 32mm outlets for PE pipe or 3/4" female threaded connections suited to a wide variety of connection types including fittings suitable for contaminated ground areas. This unit, as with all Atplas boxes, has a telescopic chamber and the standard box offers height adjustment between 500 and 800mm. The surface box provides up to 6° of tilt and is available with either a square or round flange to suit a variety of surface materials.

Multi Manifolds

The range of Atplas Multi-Manifolds provide a complete integrated manifold chamber system. The unit is supplied with in either 6 or 4 outlet options with directionally adjustable 25mm Pushfit outlets and a 2" BSP female threaded inlet. Each connection has its own stop valve and concentric meter mount. The unit is supplied complete with its own chamber housing with telescopic height adjustment and a tilting surface box to accurately match foot path gradients.

These compact, cost effective units are quick to install and are ideal for use in cramped or congested trench conditions or with multi dwelling developments.

Mini Boxes

The Atplas Mini box is ideally suited to situations where ground conditions or existing services dictate that shallow installations have to be made. The Mini Box is telescopic giving 135mm of initial height adjustment with the surface box providing a further 28mm of height adjustment and up to 6° of tilt for pavement gradients making installation easy. As with all Atplas boundary boxes the Mini Box is available with quarter turn or screw down stop valves.

Double Boxes

The Atplas Double box effectively splits a single service supply into two outlets, each with its own stop valve and the option to install concentric meters on either or both services. The unit is compact and completely self contained and is ideal for use in congested trench and pavement situations. Only one excavation is needed to connect 2 dwellings. The unit uses a telescopic chamber and a tilting surface box, this combined with up to 40° of directional adjustment on the 25mm outlets and 32mm inlet makes installation a simple procedure.

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These Intex 2 wall mounted meter box instructions must be followed carefully, Failure to do so may cause damage to property. We accept no liability for any loss, damages or claims arising from failure to adhere to these instructions and/or negligent installation. As with all industrial products it is important to take adequate safety precautions during installation, use and maintenance and use adequate protective clothing such as gloves, overalls, eye protection and safety footwear.

These fittings are designed for the conveyance of cold potable water. Save with the express written approval of Atlantic Plastics, no warranty is given that the fittings are suitable for any other purpose.