

MATRIX DOUBLE BOUNDARY BOX



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Matrix Double meter boxes are designed to accommodate two water meters in one box, and are therefore more convenient and lower cost than installing two meter boxes for adjacent properties. They are available with either one or two inlets, and two outlets, either in pushfit or PE tails.



- └ **EASE** - Two properties can be served by one meter box
- └ **FROST-FREE** - Frost free under prolonged surface frost to -15 °C
- └ **RANGE** - One/two inlets, two outlets, 25mm or 32mm
- └ **CLASS B surface box (12.5t loading)** with oval or rectangular trim for easy fitting in tarmac or paved areas. Option of ductile iron surface box
- └ **Meets relevant aspects of new standard** BS 5834-1:2017

APPLICATIONS



House connection

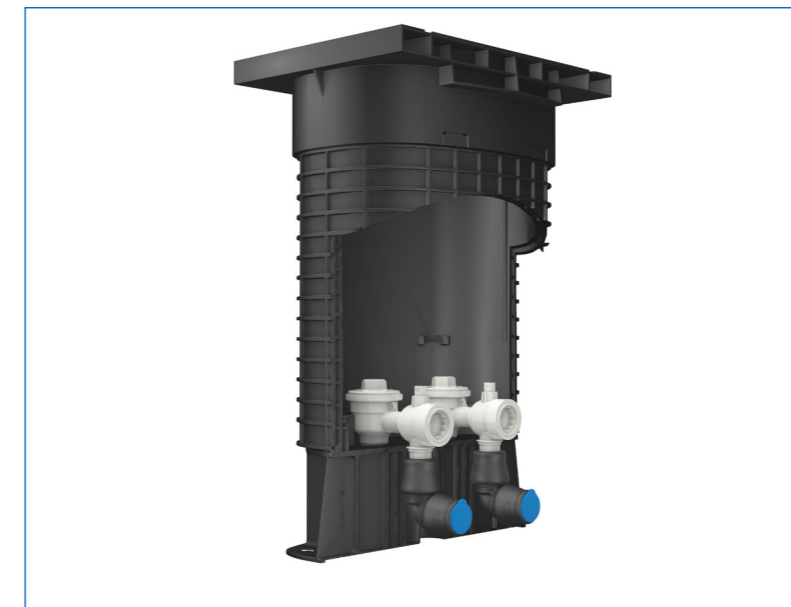
USES

- └ **Provides a clean underground environment for two concentric water meters**
- └ **Enables easy meter reading.**
- └ **Allows for water shutoff to the property**

CHARACTERISTICS

- └ **Upper Chamber** – Stadium shape provides easy access to the meter and valve assemblies.
- └ **Lower Chamber and Base** – Houses the service pipe Pushfit connections or tails as well as the meter manifolds with integrated check valves and stop valves.
- └ **Ease of installation** – The oval surface box has a rectangular flange that makes reinstatement easy. It has up to 6° of tilt making alignment with paving materials and gradients simple. The box is also available without the rectangular flange for installation in tarmac areas.
- └ **16 bar pressure rating** - The 16 bar pressure rating not only exceeds the 8-10 bar normal working pressure, it also exceeds the typical 12.5 bar pressure rating of the pipe. **Optional pipe tails PN12.**
- └ **Robust Class B surface box** - suitable for areas with occasional vehicle access.
- └ **Flexible connection system** - Boxes are available with either Talbot Pushfit connectors or PE tails. The double box has one 32mm inlet and two 25mm or 32mm

outlets. The twin box has two 25mm inlets and two 25mm or 32mm outlets. All types have horizontal swivel connections to provide flexibility on site.



APPROVALS

- └ WRAS approved
- └ Meets relevant aspects of new standard BS 5834-1:2017



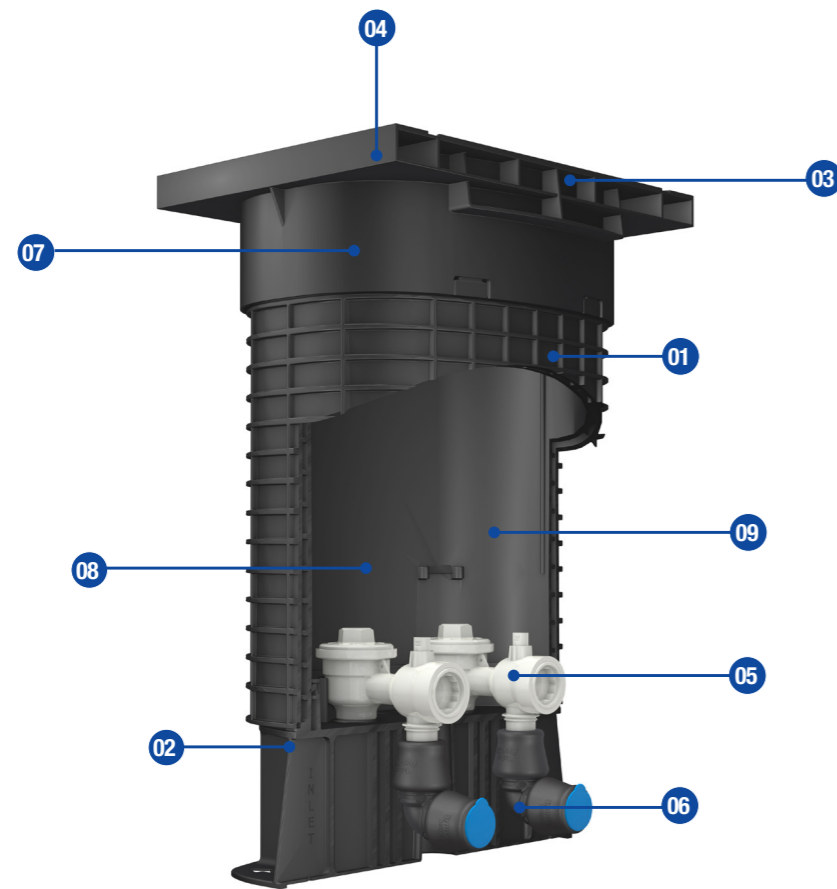
OPTIONS/VARIANTS

- └ Single inlet, double outlet
- └ Double inlet, double outlet
- └ Talbot Pushfit connectors or PE pipe tails (PN12)
- └ 25mm or 32mm connections
- └ Rectangular surface box frame for paved areas or oval for tarmac
- └ Ductile iron surface box option
- └ Available with beige guard tube on request
- └ Single or double check valve

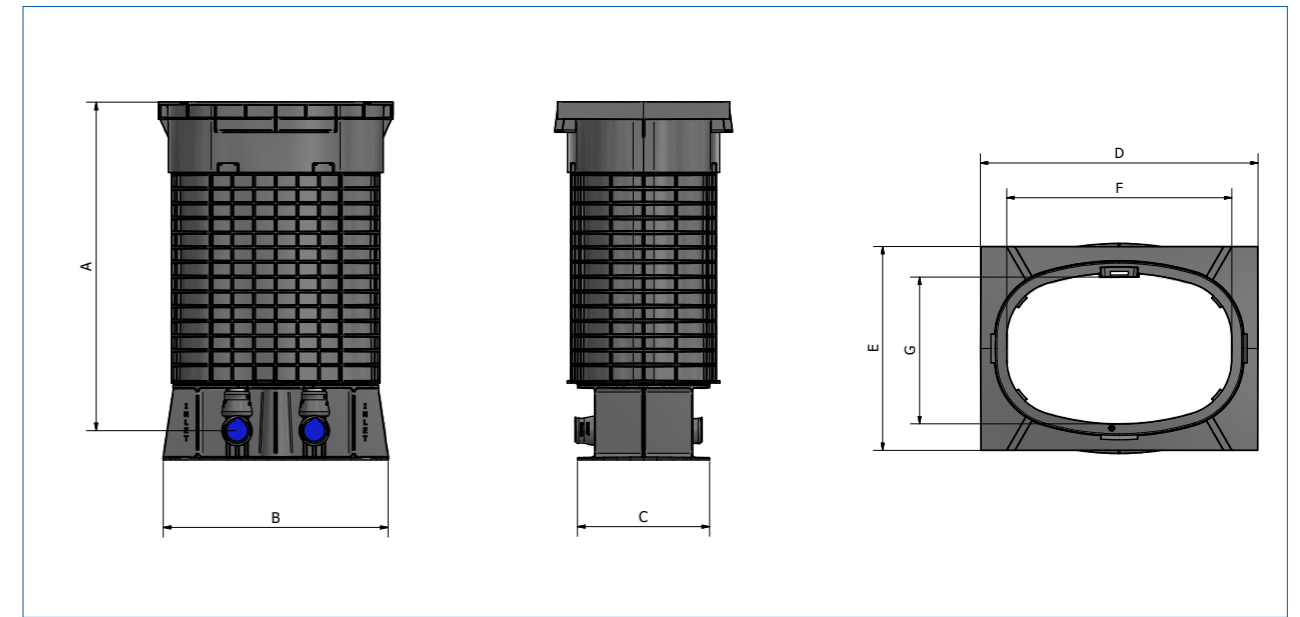
TECHNICAL DATA

- └ **Material Guard tube and lid:** Recycled PP (black guard tube)
- └ **Material Manifold:** Acetal/PP
- └ **Lid loading:** EN 124 Class B (12.5t loading)
- └ **Nominal Pressure (PN):** Working 16 bar. Optional pipe tails PN12

MATERIALS AND DIMENSIONS



Item	Description	Quantity	Material	Standard
1	Upper guard tube	1	Recycled PP	
2	Lower guard tube	1	Recycled PP	
3	Surface Box Class B	1	20% Glass Filled PP	
4	Lid detector plate	1	Galvanised Steel	
5	Manifold	1	POM	
6	Pushfit bend	2	PP Body, POM grip rings & EPDM seals	
7	Frost insulation pad	1	Closed Cell Polyethylene Foam	
8	Matrix long Key	1	POM	
9	Meter	1	NOT PROVIDED BY ATPLAS	



Box	A (min/max)	B	C	D	E	F	G
Matrix Double	543-914mm (extended)	367mm	216mm	383mm	281mm	310mm	202mm

Feature	Specification
Compliance to BS 5834-1:2017	Complies to relevant aspects of BS 5834-1:2017
Frame and Cover	EN 124 Class B (12.5t loading) (polymer): Universal 6° tilt. Pluck lid with oval or rectangular trim. Lid tether as standard
Guard Tube Material	Recycled Polypropylene (black). Available in beige polypropylene on request
Guard Tube Profile	Stadium profile with 310mm x 202mm opening
Height Adjust (apr)	543 - 914mm (inc. 50mm final height adjustment in surface box)
Frost Protection	As standard in accordance with BS 5834-1:2017
Water Tightness	Sealed Class 1 or Unsealed Class 2 (BS 5834-1:2017)
Shut Off Device	¼ turn spherical valve supplied with Matrix long key 8292
Check Valve	Check valve in accordance with BS EN 13959: 2004 Family E Type B (double check valve on request)
Manifold	Raised style in Plastic (Acetyl Co-Polymer)
Meter Connection	2 x 1 ½" BSP concentric meters to BS EN ISO 4064; Q3 4.0 (Qn 2.5)
Head Loss	< 3 metres @ 25 l/min flow rate with meter and single check valve
Inlet	1 or 2 x 32mm or 2 x 25mm Pushfit for PE pipe in accordance with WIS 4-32-11 or PE tails
Outlet	2 x 25mm or 2 x 32mm Pushfit for PE pipe in accordance with WIS 4-32-11 or PE tails
Blank Plugs	Full Flow (standard), Trickle Flow (optional), No Flow (optional). 27/28 mm tapered A/F hexagonal upstand
Product Weight (apr)	9 kg
Pallet Quantity	20 per pallet (push fit version)
Tools	BOP77011-28: 28mm socket for meter plug & NRV BOP77008: Short T bar 400mm long BOP77009: T bar extension 500mm long

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Note: Specifications may be changed without notification at any time.

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