



Drinking water supply solutions

2017 edition

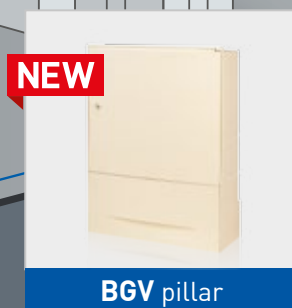


Drinking water supply solutions

CAHORS is contributing to the development of drinking water distribution systems. To meet water supply needs and improve how resources are protected and managed, **the CAHORS solutions offer a comprehensive range of connection boxes and pillars** for the supply of drinking water.



Find out more about our know-how via video





Designed and
manufactured in France

Summary

ABOVE-GROUND SOLUTIONS

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UNDERGROUND SOLUTIONS

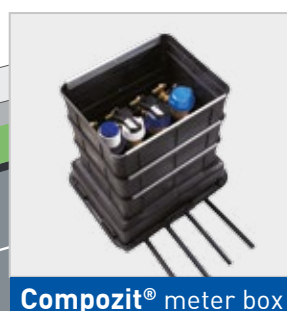
Rectangular meter boxes pg 16

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CAHORS know-how pg 39



Borneo® pillar



Compozit® meter box



RGV meter box

Multi-meter



Ovalo & Aquax meter boxes



Modulo meter box



Find out more about our
know-how via video

ABOVE-GROUND SOLUTIONS

CONNECTION AND METER BOXES

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Connection and meter boxes



Use

Boxes and pillars installed outside, on property boundary. Functions: cut-off, drainage, anti-pollution, metering.



Description

Manufactured from fibreglass-reinforced polyester. Optimal resistance to impact and external hazards. Various types of insulation against freezing available depending on risk.

Features

Chamber equipped with bosses for mounting rails. Pivoting door with 90° or 180° opening depending on version.

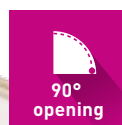
> MININTER BOX



Mininter box
Rectangular closure - Brass
Ref. 0258.309



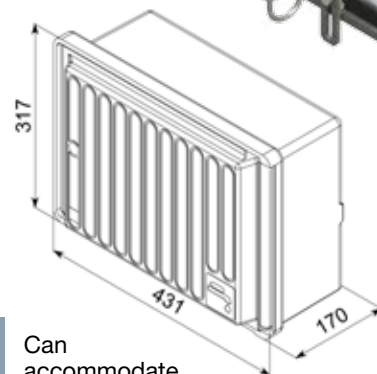
Fully insulated Mininter box
Ref. 0258.313



90° opening



Mounting rail with meter support
Ref. 0925.077



Can accommodate
1 DN15 meter

Dimensions	Insulation	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
External	•	431	317	191	4
	None	380	280	170	
Internal	Insulated door	380	280	130	
	Fully insulated	305	200	105	

Description	Reference	Packaging
Box without meter support	0258.309	49/pallet
Box with horizontal meter support	0258.310	
Box with insulated door without meter support	0258.311	
Box with insulated door with horizontal meter support	0258.312	
Fully insulated box without meter support	0258.313	
Fully insulated box with horizontal meter support	0258.314	
Accessories		
Non-insulated door	0925.685	
Insulated door	0925.686	
Mounting rail with meter support	0925.077	
Bottom door pin + spring	0925.047	
Tropical zones		
Standard water box for base (open bottom + 2 ø 50 mm on sides)	0258.129	
Base (not insulated)	0258.336	

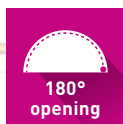
> MINIMIXT BOX



Minimixt box
Rectangular closure - Brass
Ref. 0258.231



Fully insulated Minimixt box
(shown without rail)



Mounting rail with
meter support
Horizontal mount, convertible to vertical
Ref. 0258.765

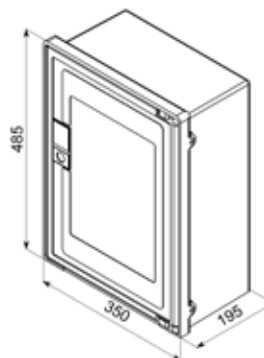
Description	Reference	Pack.
Box without meter support	0258.228	45/ pallet
Box with vertical meter support	0258.233	
Box with insulated door without meter support	0258.229	
Box with insulated door with vertical meter support	0258.232	
Fully insulated box without meter support	0258.227	
Fully insulated box with h. + v. meter support	0258.231	

Accessories		
Non-insulated door	0925.764	
Insulated door	0925.749	
Mounting rail with h. + v. meter support	0925.765	
Top door pin accessory	0925.627	
Bottom door pin accessory	0925.628	

Dimensions	Insulation (mm)	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
External	•	350	485	197	6
Internal	Fully insulated	230	375	90	



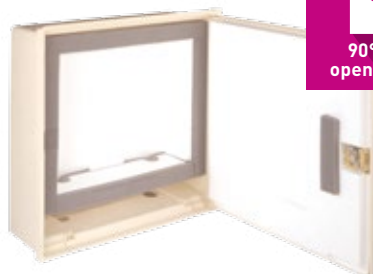
Can
accommodate
1 DN15
meter



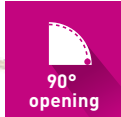
> PANINTER BOX



Paninter box
Rectangular closure - Brass
Ref. 0258.303



Fully insulated Paninter box
(shown without rail)



Can accommodate
2 DN15
or 1 DN20 meters

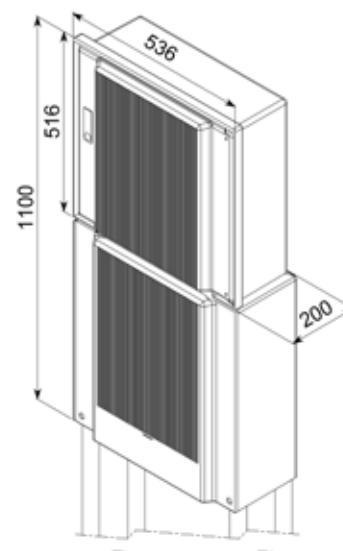


Mounting rail with
meter support
Ref. 0925.073

Dimensions	Insulation	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
External	•	535	516	230	7
	None	490	425	220	
Internal	Insulated door	490	425	170	
	Fully insulated	400	325	110	

Description	Reference	Packaging
Box without meter support	0258.303	21/pallet
Box with horizontal meter support	0258.304	
Box with insulated door without meter support	0258.305	
Box with insulated door with horizontal meter support	0258.306	
Fully insulated box without meter support	0258.307	
Fully insulated box with horizontal meter support	0258.308	16/pallet
Base	0541.026	
Bottom door pin + spring	0925.047	

Accessories		
Non-insulated door	0925.683	
Insulated door	0925.684	
Mounting rail with meter support	0925.073	



> BGV LARGE VOLUME PILLAR

The BGV is a connection pillar to connect customers to the drinking water network. It is installed on the property boundary (inset or surface-mounted).

The BGV includes the following elements:

- Baseboard to allow adjustment to final ground level
- Pivoting door with 90° opening, equipped with rectangular camlock
- Adjustable feet for embedding in trench

NEW



Protection class

- IP43 as per NF EN 60529
- IK10 as per NF EN 62262



Installation zone

Tropical/temperate zones



Resistance:

- Fibreglass-reinforced polyester
- Good mechanical strength
- Effective weather-resistance

Easy meter operation and reading

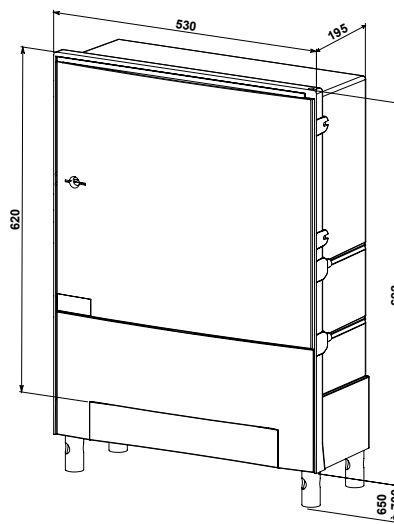
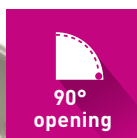
Appearance:

- Appearance and dimensions in keeping with "new generation" electricity and gas connection pillars.



▲ Integration into utility box

> DIMENSIONS



> METER CONFIGURATION EXAMPLES



Can accommodate
4 DN15 or 1 DN20 meters



2 DN15
meters



4 DN15
meters



1 DN20
meter

> REFERENCES

Description	Reference	Packaging
Empty water BGV	0294.034	10/pallet

Models equipped on request

Accessories

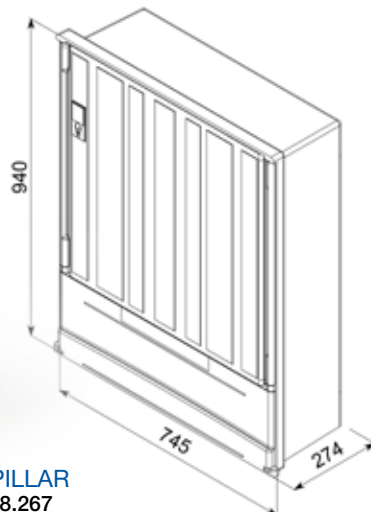
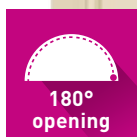
BGV door	0996.076	
Rail and fastenings for BGV	0996.130	
Door pin (pack of 1)	0925.047	

*Meter not supplied

Ref. 0996.130



> GP 600 PILLAR



GP 600 PILLAR
Ref. 0258.267
Packaging 5/pallet

Dimensions	Insulation	W (mm)	H (mm)	D (mm)	Weight (kg)
External	•	745	1000	276	20
Internal	None	680	870	240	



Possible to install
up to 5 meters in line
(DN15, length 110 mm)



BORNEO® pre-equipped pillars

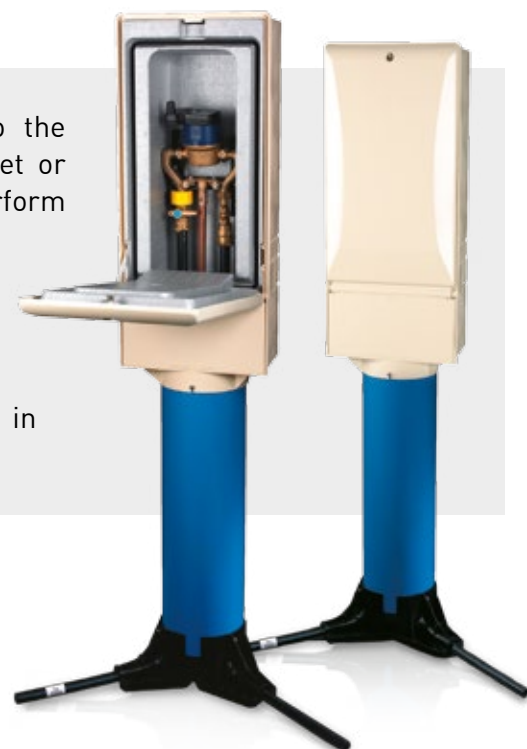
CONNECTION PILLARS

FOR DN15 - 110 MM IN-LINE METER

BORNEO® is a connection pillar for connecting customers to the drinking water network. Located on the property boundary (inset or surface-mounted), it makes it easier for network managers to perform meter-reading and other operations.

Its high-performance materials provide BORNEO® with excellent **insulation against freezing, and enable the integration of various hydraulic fittings.**

BORNEO® is in keeping with electricity connection enclosures in utility boxes in terms of **appearance and dimensions.**



Product advantages

- Product manufactured using fibreglass-reinforced polyester guaranteeing **good mechanical strength and effective resistance to adverse weather and climate extremes**
- Full set of hydraulic equipment (standard ¼-turn valve + EA-type check valve (NF) with captive drain plugs upstream and downstream)
- **Reinforced door pins**
- **Chamber volume** enables integration of various hydraulic fittings (lockable valve before meter, valve after meter) and remote meter-reading system



Technical characteristics

- Customisable door (please contact us)
- Adjustable feet (supplied with approx. 1.5 m PE) to facilitate installation and connection of polyethylene tubes
- Adjustable rail for optimum adjustment of hydraulics
- Door support stays (act as door stop when open)



Respect for the environment

Recycling of BORNEO® pillar at end of service life incorporated into product design:

- reduced number of components
- elements easy to separate
- reduced number of materials
- 100% recyclable insulation

The BORNEO® pillar has the design characteristics required of an eco-product.



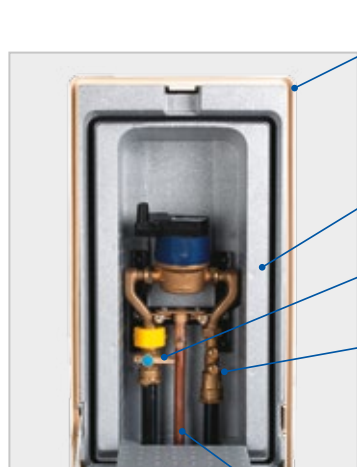
NEW



Equipped with PE100D polyethylene pipes resistant to disinfectants

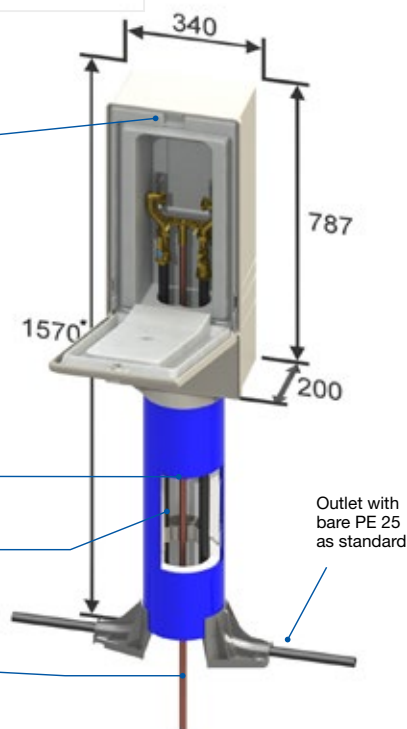


Can accommodate 1 DN15 meter



Connection pillar
(meter not supplied)

- SMC envelope
- 1/4-turn closure
(13 hex, slotted head)
- Expanded polystyrene
insulation with protective film
- Lockable 1/4-turn valve
- Anti-pollution check valve with
captive drain plugs upstream and
downstream
- ø 25 mm PN20 (NF) PE tube
- Expanded polystyrene
insulation around post
- Heat pipe

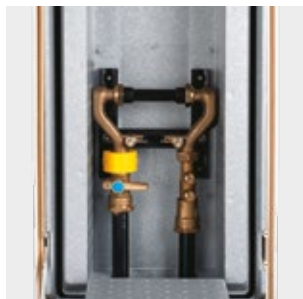


Outlet with
bare PE 25
as standard

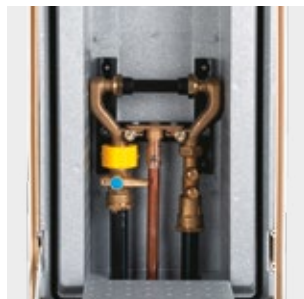
*H = 1570 for model 800
H = 1400 for model 600

> HYDRAULIC FITTINGS

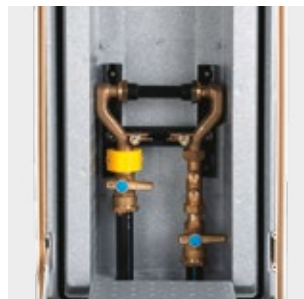
Example hydraulic fitting configurations with 1 DN15 - 110 mm meter



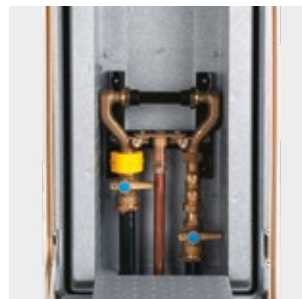
Lockable valve
before meter
PE 25 - without heat pipe



Lockable valve
before meter
PE 25 - with heat pipe



Lockable valve
before meter + valve after
meter
PE 25 - without heat pipe



Lockable valve
before meter + valve after
meter
PE 25 - with heat pipe

> ADJUSTABLE FEET

Positioning of adjustable feet and arrangement of polyethylene tubes



Adjustment from 90° to 270°



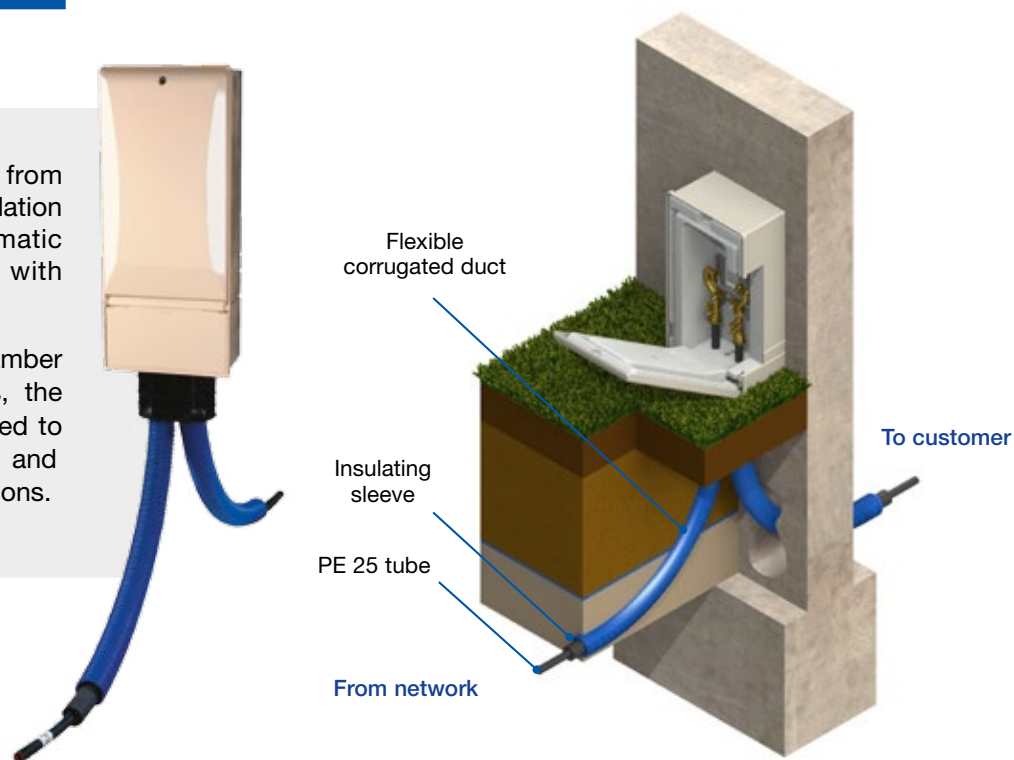
Example of connection at 135°
with foot to improve stability



> RENOVATION BORNEO

The Renovation BORNEO from CAHORS facilitates the installation of challenging or problematic connections (e.g. wall with foundation).

Thanks to the structure of its chamber and the flexibility of its tubes, the renovation pillar is easily adapted to difficult routes, irregular ground and a range of inlet/outlet configurations.



> REFERENCES

> REFERENCES		Version without heat pipe		Version with heat pipe measuring 1450 mm (250 mm overrun)		Packaging
		Lockable valve before meter	Lockable valve before meter + valve after meter	Lockable valve before meter	Lockable valve before meter + valve after meter	10/ pallet
BORNEO 600	PE 25	0294.035	-	-	-	
	Without PE	0294.036				
BORNEO 800	PE 25 (length 1.5 m)	0294.192	0294.193	0294.194	0294.195	
RENOVATION BORNEO	PE 25 (length 1.5 m)	0294.196	0294.197	Please contact us		

BORNEO® can accommodate various hydraulic fittings. Please contact our sales department regarding any specific requests.

BORNEO accessories	Reference
110 mm 3/4" by-pass plugs (5)	0990.889
110 mm 3/4" blanking plugs (5)	0990.890
Valve locking tool	0996.125
Insulated door	0996.141
Door pins (10)	0996.142
Door stays and rivets (10)	0996.143
Door insulation (with mounting)	0996.145
Base (+ fastenings)	0996.150
Insulated chamber (+ fastenings)	0996.149

Customisation

PAINTED BOXES

Environmental considerations and a desire to improve users' living spaces have led us to rethink how we can visually integrate these materials into their surroundings.

Our boxes can be coloured in order to achieve a vital objective, that of blending into the background, whether architectural or natural.

Our wide range of colours makes it possible to adapt to any type of environment.



Test results as per RES 14083 A

- Resistance to ageing
- Colour stability
- Stability of mechanical properties (adhesion and impact resistance)



All the colours on the RAL colour chart are available.

Some examples are given below.



RAL 8012
Red brown



RAL 7031
Blue grey



RAL 7009
Green grey



RAL 7006
Beige grey



Find out more about our
know-how via video

UNDERGROUND SOLUTIONS

RECTANGULAR METER BOXES

PRIMEO® XL NEW	16
PRIMEO®	18
MODULO	20
COMPOZIT® single & multi-meter	22
RGV large volume meter box NEW	28

COMPACT METER BOXES

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CAHORS know-how	39



PRIMEO® XL meter box

THE MULTI-PURPOSE METER BOX

PRIMEO® XL is a **meter box** (underground in-line meter) that enables customers to be connected to the water distribution network.

It can be installed in green spaces, private gardens and anywhere likely to be used exclusively by pedestrians and cyclists.

In general, PRIMEO® XL can accommodate any underground equipment that requires a protective envelope **with access via the cover**.

The PRIMEO® XL meter box includes the following elements:

- Lockable cover with sill able to withstand 1.5 t load (class A15 as per standard NF EN 124)
- Insulation fitted beneath cover (optional)
- Extension section (optional)
- Knockouts for chamber inlets/outlets
- Bottom (optional)

NEW



> PRODUCT DESCRIPTION

Marking*

Identification on cover:
"Customer"/distribution service logo

Cover

Green

Lock

17 screw across flats

Insulation (optional)

Insulation beneath cover against freezing

Extension section

H = 165 mm (optional)

Chamber

Bottom (optional)

Equipped with holes for fastenings
(e.g. meter support)



Easy installation & handling:

- Weight: 5 kg
- Impact on ground contained
- Knockouts for inlets/outlets

Application:

- Connection to water distribution network

Resistance:

- Class A15 as per NF EN 124



Meter integration:

- Enables integration of DN15 and 20 meters, with PE Ø 25 and PE Ø 32 connections

*Marking on cover: please contact us

> METER CONFIGURATION EXAMPLES

The PRIMEO XL meter box can accommodate:



1 DN20
meter



2 DN15
meters



3 DN15
meters



4 DN15
meters

> REFERENCES

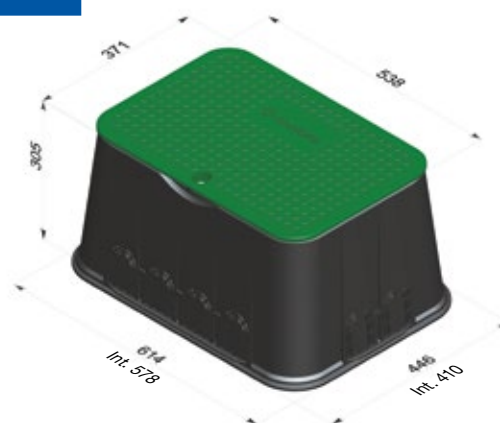
Image	Description	Insulation		Bottom	Reference	Packaging
		Without insulation	Insulated cover			
	Meter box (cover + chamber)	●			0258.207	96/ pallet
	Insulated meter box (cover + insulation + chamber)		●		0258.208	80/ pallet
	Complete meter box (cover + chamber + bottom*)	●		●	0258.209	48/ pallet
	Complete insulated meter box (cover + insulation + chamber + bottom*)		●	●	0258.210	40/ pallet
	Complete insulated meter box (cover + insulation + chamber + extension section* + bottom*)		●	●	0258.236	

*Articles delivered separately not mounted.

> ACCESSORIES

Description	Reference
Extension section H = 165 mm	0996.063
Cover	0996.064
Insulation	0996.065
Bottom	0996.066

> DIMENSIONS





PRIMEO® meter box

THE MULTI-PURPOSE METER BOX

The PRIMEO® box comprises components made from a fibreglass-reinforced synthetic material. It can be used as a **meter box** (underground in-line meter), enabling customers to be connected to the water distribution network.

PRIMEO® can be installed in green spaces and private gardens, thereby representing **the ideal solution for watering or irrigation equipment**.

The PRIMEO® meter box includes the following elements:

- Cover with sill (lockable or customisable on request) able to withstand 500 kg load
- Insulation fitted beneath cover (optional)
- Extension section (optional)
- Knockouts for inlets/outlets
- Bottom (optional)



> PRODUCT DESCRIPTION

Marking*

Identification on cover:
"Customer"/distribution service logo

Cover

Black/green cover

Insulation (optional)

Insulation beneath cover against freezing

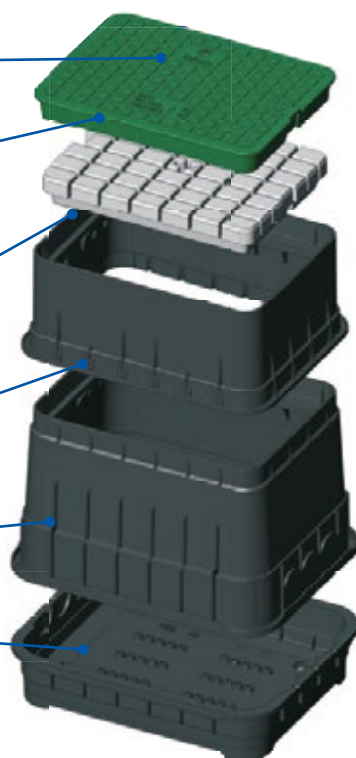
Extension section

H = 150 mm (optional)

Chamber

Bottom (optional)

Equipped with fastening bosses
(e.g. meter support)



Easy installation and handling:

- Weight: 5 kg
- Reduced impact on ground
- Knockouts for inlets/outlets

Applications:

- Connection to water distribution network
- Automatic watering system
- Hydrant

Resistance:

- 500 kg



Meter integration:

- Enables integration of **DN15 and 20** meters, with PE Ø 25 and PE Ø 32 connections

*Marking on cover: please contact us

**Extension section sold with fastening kit ref: 0974.009

> METER CONFIGURATION EXAMPLES

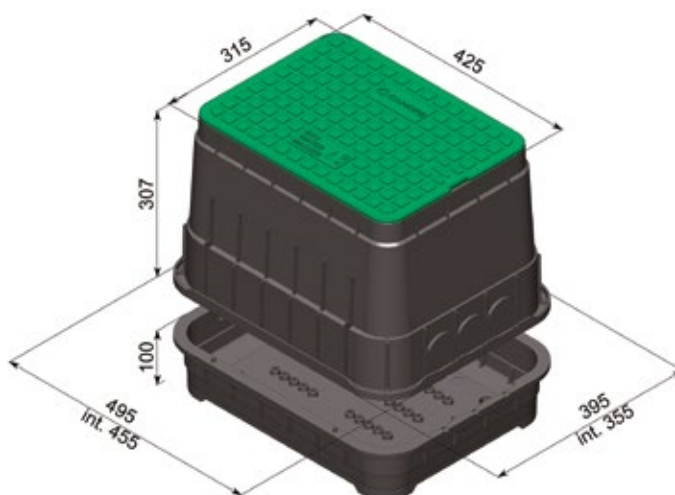


1 DN15
meter


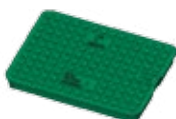


2 DN15
meters

> DIMENSIONS



> REFERENCES

Cover	Insulation		Bottom	Reference	Packaging
	Without insulation	Insulated cover			
 Black		●		0294.150	72/pallet
	●			0294.151	
		●	●	0294.152	24/pallet
	●		●	0294.153	
		●	●	0258.000*	
*1 inlet/1 outlet drill holes (Ø 50 mm with sealing end-piece)					
 Green		●		0294.154	72/pallet
	●			0294.155	
		●	●	0294.156	24/pallet
	●		●	0294.157	
Extension section H = 150 mm	Sold with fastening kit			0974.009	-



MODULO meter box

EQUIPPED MODULAR SOLUTION

Modulo is a range of rectangular meter boxes for in-line water meters.

The various configurations of the Modulo meter box allow it to be adapted to any environment. It offers a simple, comprehensive and high-performance solution for connecting customers to the drinking water network.



NEW



Equipped with PE100D polyethylene pipes resistant to disinfectants



Can accommodate DN15 or DN20 meter



Modular meter box

The **Modulo** range is available in several versions and can be adapted to the specific connections required and the climate conditions of the geographical zone:

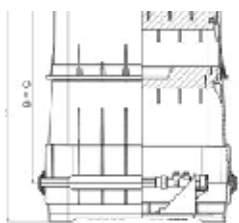
- **Single or double meter** (delivered with Ø 32 manifold for double meter), DN15 for 110 - 170 mm meter and PE Ø 25 connection
- **Several depth levels:** 300 - 1300 mm
- Customised assemblies can be supplied on request:
 - PE Ø 32 or PE Ø 40 connection
 - **Connection of DN20 meter**, length 190 mm
 - **Installation of valve after meter**
 - Lock on 0.5 t and 1.5 t covers

"Ready-to-connect" meter box

Modulo meter boxes are delivered fully equipped, offering a solution that can be installed directly in trench.

They include:

- **Insulated cover** able to withstand 0.5 t, 1.5 t or 12.5 t
- **Insulated chamber** without thermal bridge
- **Standard hydraulic components:** valve before meter, anti-pollution check valve, drain plugs, adjustable casing (depending on options). These components are fully accessible, allowing easier maintenance.
- **Curved PE Ø 25 pipes** (for offset version)
- **Polypropylene manifold** (for double meter versions), 1x Ø 32 inlet/2x Ø 25 outlets
- **Removable fall-protection grill**



Horizontal mount
Internal dimensions:
450x350 mm



Offset mount
Internal dimensions:
350 x 240 mm

Fixed height Modulo range	300	450	600	750	900	1050
Horizontal mount (in-line)	x	x				
Vertical mount (offset)			x	x	x	x
Overall dimensions (A)	400	550	650	800	950	1100
Water line depth (B)	300	450	580	730	880	1030
Max. meter centreline depth (C)	300	450	355	305	305	305
Available height above meter centreline (D)	240	240	170/195	115/140	115/140	115/140

Adjustable height Modulo range	400/550	500/650	700/850	850/1000	1000/1150	1150/1300
Horizontal mount (in-line)	x	x				
Vertical mount (offset)			x	x	x	x
Overall dimensions (A)	500 - 650	600 - 750	730 - 880	860 - 1010	1010 - 1160	1150 - 1300
Water line depth (B)	400 - 550	500 - 650	700 - 850	790 - 940	940 - 1090	1090 - 1240
Max. meter centreline depth (C)	400 - 550	500 - 650	385	520	520	520
Available height above meter centreline (D)	315	240	170/195	115/140	115/140	115/140

> MOUNTING OPTIONS

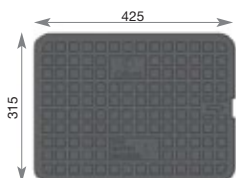
Modulo 450
Horizontal mount



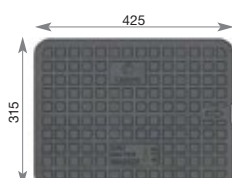
Modulo 750
Vertical mount



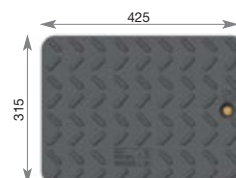
> COVERS



0.5 t load
Material: fibreglass-reinforced thermoplastic
with sill



1.5 t load
(class A15 as per NF EN 124)
Material: fibreglass-reinforced thermoplastic
with sill



12.5 t load
(class B125 as per NF EN 124)
Material: fibreglass-reinforced polyester
with bolt

> REFERENCES

Fixed height range

Height	300		450		600		750		900		1050	
Cover	0.5 T	A15	0.5 T	A15	0.5 T	A15	0.5 T	A15	0.5 T	A15	0.5 T	A15
Hydraulics												
Single meter 110 - 170 DN15 Ø 25 PE tubes	0258.033	0258.034	0258.035	0258.036	0258.037	0258.038	0258.003	0258.005	0258.006	0258.007	0258.008	0258.010
	24/pallet		18/pallet				8/pallet					
Double meter 110 - 170 DN15 Ø 32 PE manifold + Ø 25 PE tubes	0258.043	0258.044	0258.045	0258.046	0258.047	0258.049	0258.011	0258.012	0258.013	0258.014	0258.016	0258.019
	24/pallet		18/pallet		8/pallet				6/pallet			

Adjustable height range

Height	400-550		500-650		700-850		850-1000		1000-1150		1150-1300	
Cover	B125 with lock		B125 with lock		B125 with lock		B125 with lock		B125 with lock		B125 with lock	
Hydraulics												
Single meter 110 - 170 DN15 Ø 25 PE tubes	0258.039		0258.040		0258.042		0258.020 *		0258.022		0258.023	
	24/pallet		18/pallet		12/pallet				8/pallet			
Double meter 110 - 170 DN15 Ø 32 PE manifold + Ø 25 PE tubes	0258.050		0258.051		0258.052		0258.024		0258.025		0258.026	
	24/pallet		18/pallet		8/pallet				6/pallet			

*Empty Modulo, height 850 - 1000, 2 curved PE Ø 25 pipes Ref. 0258.214

Empty Modulo, height 850 - 1000, 2 curved PE Ø 32 pipes Ref. 0258.215

Accessories and spare parts

Insulated 0.5 t cover	0974.030	150 mm extension section with fastening kit	0974.009
A15 insulated cover	0996.022	SMC	0974.008
B125 insulated cover	0974.027	Bottom with end-pieces + mounting rails + screws	0974.007
Adjustable B125 frame	4087.501	Insulating cap	1022.607



COMPOZIT® meter box

CONNECTION BOX

**More than 400,000
meter boxes
already installed!**

The COMPOZIT® meter box comprises two sub-assemblies in composite materials:

- **Cover** and frame manufactured from fibreglass-reinforced polyester
- **Chamber** manufactured from fibreglass-reinforced thermoplastic

The two parts are independent to avoid transferring mechanical stress to the lower chamber and hydraulic equipment.



Use

The CAHORS Compozit® underground meter box is for connecting customers to the water distribution network.

It is designed to make it quicker, easier and more secure to install connections to collective or individual dwellings. It allows integration of several in-line meters and the standard associated hydraulic equipment (rails, valves, check valves, etc.).

The use of composite materials makes it possible to offer a connection solution adapted to thermal, mechanical and installation conditions.



Meter integration:

- Enables integration of **DN15 & 20** meters, with PE Ø 25 and PE Ø 32 connections



Insulation against freezing

Check our guide to select the product according to your geographical zone.

See pg 35 of guide.



Advantages

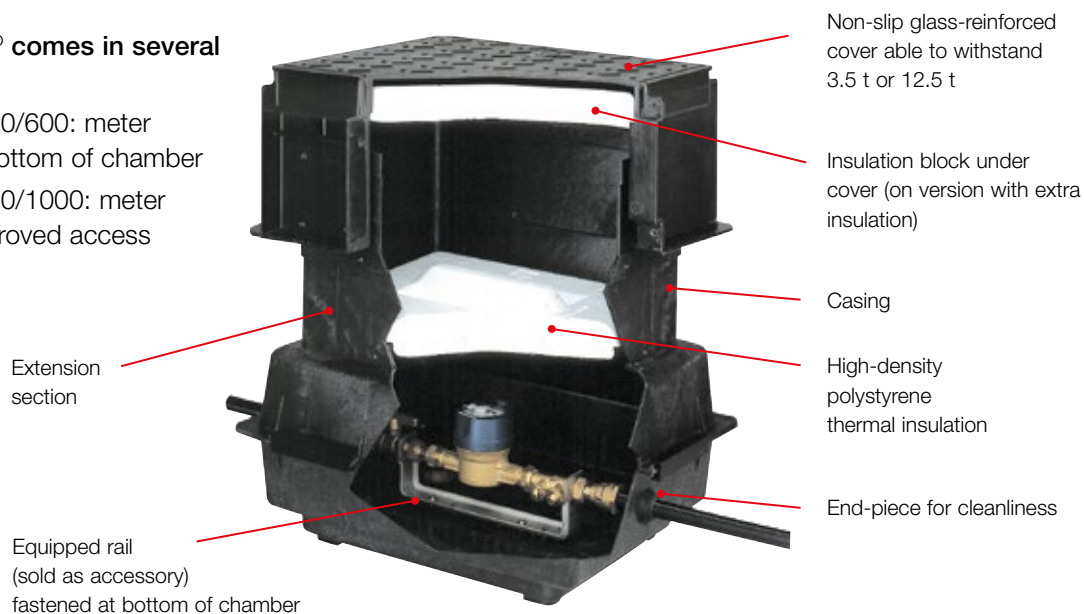
- **Lightweight: 20 kg max.**
Can be handled by 1 person
- **Ease of installation:**
 - Option of valve installation in factory
 - Easy installation in trench
- **Adaptable** to majority of hydraulic fittings
- **Thermal insulation** adapted to various geographical zones and tested in climate chamber
- **Resistance:** 3.5 t or 12.5 t
- **Reversible cover for perfect integration on site:**



> DESCRIPTION

The Compozit® comes in several depths:

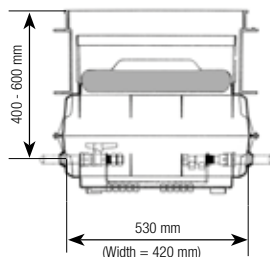
- Compozit® 400/600: meter mounted at bottom of chamber
- Compozit® 800/1000: meter raised for improved access



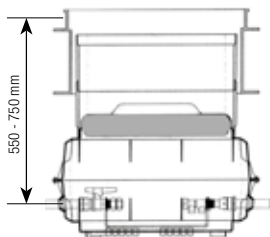
Compozit® 600 VERSION

> DEPTH

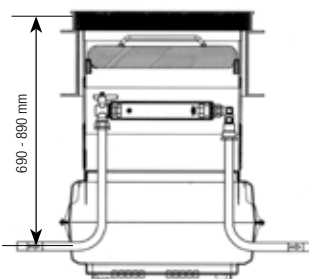
Compozit® 400



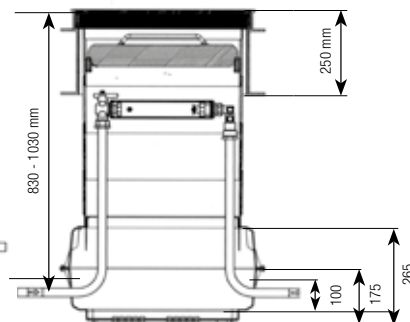
Compozit® 600



Compozit® 800



Compozit® 1000



Internal dimensions of extension section: 350 mm (width) x 450 mm (length)

> INSULATION



Standard insulation

Extra insulation

> ADJUSTABLE & TILTABLE COVER AND FRAME



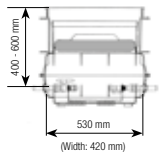
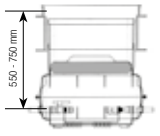
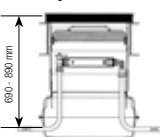
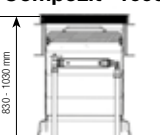
3.5 t load

class A15 as per NF EN 124

12.5 t load

class B125 as per NF EN 124

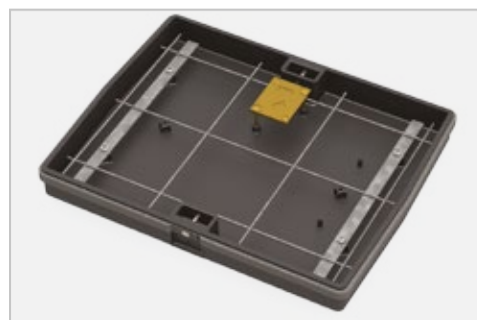
> VERSION WITHOUT EQUIPMENT

Type	Insulation	Max. no. of meters	Rail	3.5 t cover	12.5 t cover	Pack.
Compozit® 400 	Standard	1	None	0258.363	0258.357	16/ pallet
		2	None	0258.380	0258.381	
	Extra	1	None	0258.366	0258.360	
		2	None	0258.382	0258.383	
Compozit® 600 	Standard	1	None	0258.362	0258.356	12/ pallet
		2	None	0258.364	0258.358	
	Extra	1	None	0258.365	0258.359	
		2	None	0258.367	0258.361	
Compozit® 800 	Extra	2	None	0294.101	0294.102	12/ pallet
		2	1 rail mounted	0258.386	0258.387	16/ pallet
Compozit® 1000 	Extra	2	None	0294.103	0294.104	8/ pallet
		2	1 rail mounted	0258.388	0258.389	

> ACCESSORIES

Spare parts for COMPOZIT® 400, 600, 800 & 1000

Frame	0925.775
Cover opening hook (pair)	0925.733
Water symbol	0925.755
Cover-reverse kit with water symbol	0925.766
3.5 t cover without insulation	0925.757
3.5 t cover with insulation	0974.021
12.5 t cover without insulation	0925.758
12.5 t cover with insulation	0974.022
Insulation block to screw under cover	0974.020
Lower insulation block	0990.274
Extension section + bracing	0990.286
Extension section + bracing + casing	0990.290
Cover seal	0990.284



Cover-reverse kit
with water symbol
Ref. 0925.766
(cover not supplied in kit)

> COMPOZIT 400 & 600 ACCESSORIES

The meter box is delivered without fittings or accessories so it can be adapted to most hydraulic fittings:

- Possible to mount 1 or 2 DN15 (length 110 or 170 mm) or DN20 (length 190 mm) meters at bottom of chamber
- Provision for rails with height 70 mm to be screwed onto bottom of chamber (mounting length 120, 160 or 200 mm)
- 25 - 40 mm PE tubes
- Max. length of hydraulic fittings: 520 mm

Hydraulic accessories

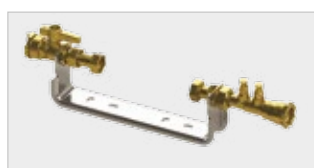
Rail equipped for DN15 meter* and 25 mm PE, length 170 mm 0974.030

Equipped rail for DN20 meter* and 32 mm PE, length 190 mm 0974.031

Meter supports for Ø 27 valves (pair) 0990.276

Meter supports for Ø 21 valves (pair) 0990.277

*Meter not supplied



Equipped rail
Ref. 0974.030



Meter supports for valves:
Ø 27 (x2) Ref. 0990.276



Ø 21 (x2) Ref. 0990.277

> COMPOZIT 800 & 1000 ACCESSORIES

The Compozit® 800 & 1000 meter boxes are delivered without fittings or accessories, or equipped with a sliding stainless steel rail compatible with 3/4" or 1" hydraulic equipment, and meters with mounting length 110, 170 or 190 mm.

They also offer the possibility of accommodating 2 meters in the same box.

Hydraulic accessories

Curved Ø 25 mm PE pipes (pair) 0990.287

Curved Ø 32 mm PE pipes (pair) 0990.288

PE 25 hydraulic kit DN15 meter for Compozit® 800 0990.291

PE 32 hydraulic kit DN15 meter for Compozit® 800 0990.292

PE 32 hydraulic kit DN20 meter for Compozit® 800 0990.293

PE 25 hydraulic kit DN15 meter for Compozit® 1000 0990.294

PE 32 hydraulic kit DN15 meter for Compozit® 1000 0990.295

PE 32 hydraulic kit DN20 meter for Compozit® 1000 0990.296

Meter support rail kit 0996.130



Example of assembly
with 2 meters



Equipped Compozit® 1000
without cover and frame



NEW

Equipped with PE100D polyethylene
pipes resistant to disinfectants



PE 25
hydraulic kit
Ref. 0990.291

> DN15 PRE-EQUIPPED MULTI-METER VERSION

The COMPOZIT multi-meter range offers a **simple, optimised solution** to meet the need for multiple metering for **collective or individual dwellings**.

The multi-meter solution is supplied fully equipped, ready to be connected to the drinking water network.

It includes the following elements:

- COMPOZIT range meter box
- Polypropylene manifold: PN16 - Ø 32 inlet
- Curved Ø 25 pipes for offset mounting
- Hydraulics: valve before meter, anti-pollution check valve, drain plugs
- Hydraulic supports
- Provision for Ø 25 PN20 (NF) outlet



NEW



Equipped with PE100D polyethylene pipes resistant to disinfectants



Advantages

- Fully equipped box, ready to install
- Integration of up to 4 meters in a single box
- Polypropylene manifold** (components assembled using polywelding)

***Polyethylene manifold: please contact us*

Meter integration:

This range has been designed to allow integration of 2, 3 or 4 in-line DN15 meters* in a single box:

- 110 mm (up to 4 meters)
- 170 mm (up to 3 meters)

> CONFIGURATION EXAMPLES

NEW



Compozit 400
Horizontal mount
1 inlet 3 outlets

Internal connection



Compozit 400
Horizontal mount
1 inlet 4 outlets
External connection



Compozit 800
Offset mount
1 inlet 3 outlets



Compozit 800
Offset mount
1 inlet 4 outlets
Meters not supplied

> REFERENCES

For general dimensions, see pg 23.

	Type	Inlet/Outlet* (Ø 32) (Ø 25)	Insulation	Meter	3.5 t cover	12.5 t cover	Pack.
Horizontal mount	COMPOZIT 400 Depth: 400 - 600 mm	1 inlet/2 outlets internal connection	Standard	110 or 170	0258.700	0258.701	12/ pallet
			Extra		0258.702	0258.703	
		1 inlet/3 outlets internal connection	Standard	110 or 170	0258.712	0258.713	
			Extra		0258.714	0258.715	
		1 inlet/4 outlets	Standard	110	0258.724	0258.725	
			Extra		0258.726	0258.727	
	COMPOZIT 600 Depth: 550 - 750 mm	1 inlet/2 outlets internal connection	Standard	110 or 170	0258.704	0258.705	8/ pallet
			Extra		0258.706	0258.707	
		1 inlet/3 outlets internal connection	Standard	110 or 170	0258.716	0258.717	
			Extra		0258.718	0258.719	
		1 inlet/4 outlets	Standard	110	0258.728	0258.729	
			Extra		0258.730	0258.731	
Offset vertical mount	COMPOZIT 800 Depth: 690 - 890 mm	1 inlet/2 outlets	Extra	110 or 170	0258.708	0258.709	6/ pallet
		1 inlet/3 outlets	Extra	110 or 170	0258.720	0258.721	8/ pallet
		1 inlet/4 outlets	Extra	110	0258.732	0258.733	8/ pallet
	COMPOZIT 1000 Depth: 830 - 1030 mm	1 inlet/2 outlets	Extra	110 or 170	0258.710	0258.711	8/ pallet
		1 inlet/3 outlets	Extra	110 or 170	0258.722	0258.723	
		1 inlet/4 outlets	Extra	110	0258.734	0258.735	

*Custom products: please contact us



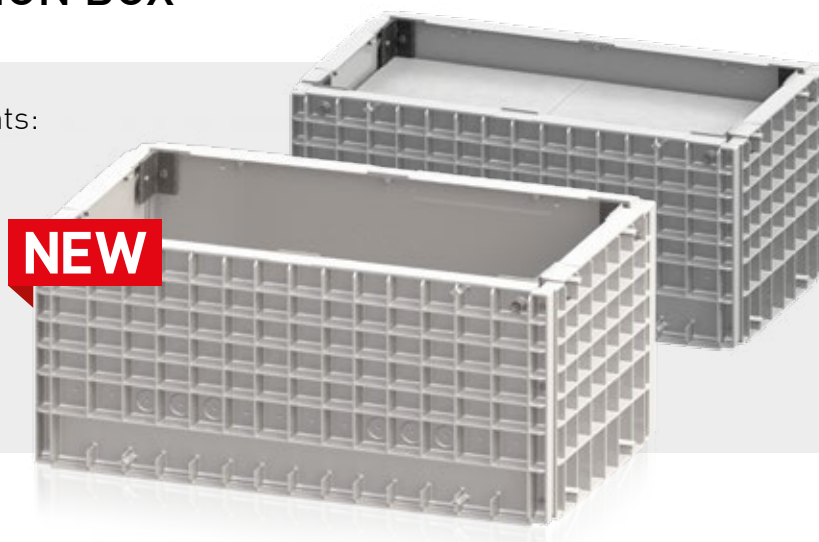
RGV meter box

LARGE VOLUME CONNECTION BOX

The RGV includes the following elements:

- 4 SMC panels
- Base for cleanliness
- Insulation
- Provision made for fitting with 600 x 600 mm double cover closure (closure not supplied)

NEW



Use

The RGV is a large-volume meter box that enables customers to be connected to the water distribution network.

It allows integration of multiple meters or high-flow-rate metering.



TIMESAVER:

- Quicker installation of chambers in trenches
- Quicker transportation of chambers to worksite

ECONOMIC SOLUTION:

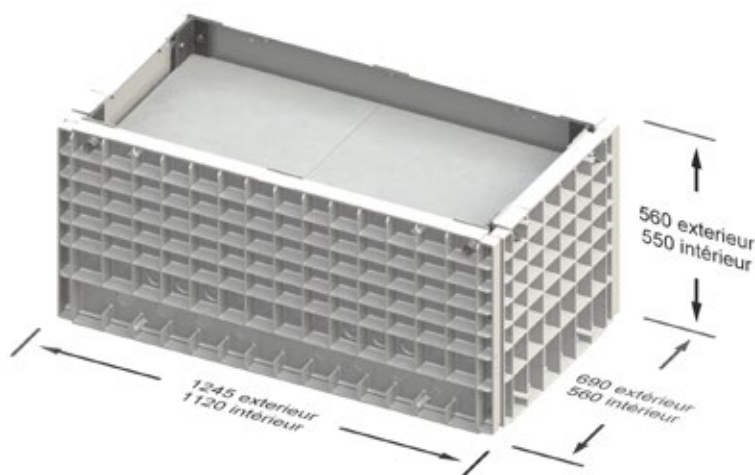
- Requires less laying and installation time
- Requires fewer personnel for installation
- Minimal use of worksite machinery (digger, lifting equipment, trucks, etc.)

• LIGHTWEIGHT:



60 kg
Can be handled
by 2 people

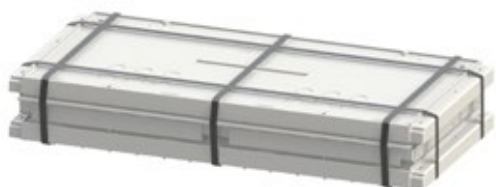
> DIMENSIONS



Meter integration:

Enables integration of **DN15 - 60 meters** with PE Ø 25 connections

> PACKAGING



Flat-pack kit

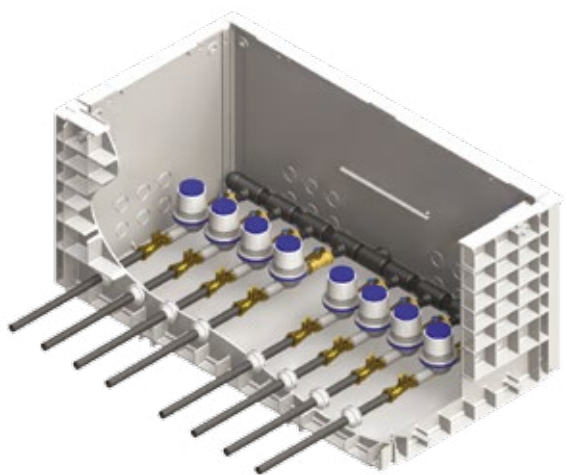
OR



Pre-assembled

Description	Reference
Empty, insulated RGV without drill holes	0996.067
Insulated RGV with drill holes and manifold (PE 50 – 8 x PE 25) for 8 meters max.	0996.068
Upstream hydraulics (DN15 - PE 25 lockable valve)	0996.069
Downstream hydraulics (DN15 - PE 25 check valve)	0996.070
Downstream hydraulics with valve after meter (DN15 - PE 25 valve/check valve)	0996.071

> CONFIGURATION EXAMPLES



Equipped with 8 DN15 meter assemblies
(meters not supplied)



Box with DN60 meter



AQUAX meter box

COMPACT METER BOX FOR DN15/DN20 METERS

AQUAX is a range of compact meter boxes for **coaxial DN15 and DN20 meters** that enable customers to be connected to the drinking water network.



NEW

Equipped with PE100D polyethylene pipes resistant to disinfectants



Ready to connect:

- Hydraulics equipped with a cut-off function (1/4-turn or multi-turn), NF check valve, upstream and downstream captive drain plugs
- 3 connection solutions (bare PE, automatic synthetic connector or brass connector with mechanical clamping)

Freeze resistance:

Fully insulated, can be equipped with heat pipe providing constant heat supply, improving freeze resistance performance



Coaxial meter integration:

Nominal flow rate up to 2.5 m³/h
G1-1/2 thread



Recyclable:

All components recyclable and easy to separate

Perfect integration on site:

- 2 levels of load resistance for cover
- 3 depth levels. Vertical adjustment up to 20 cm and angle adjustment.

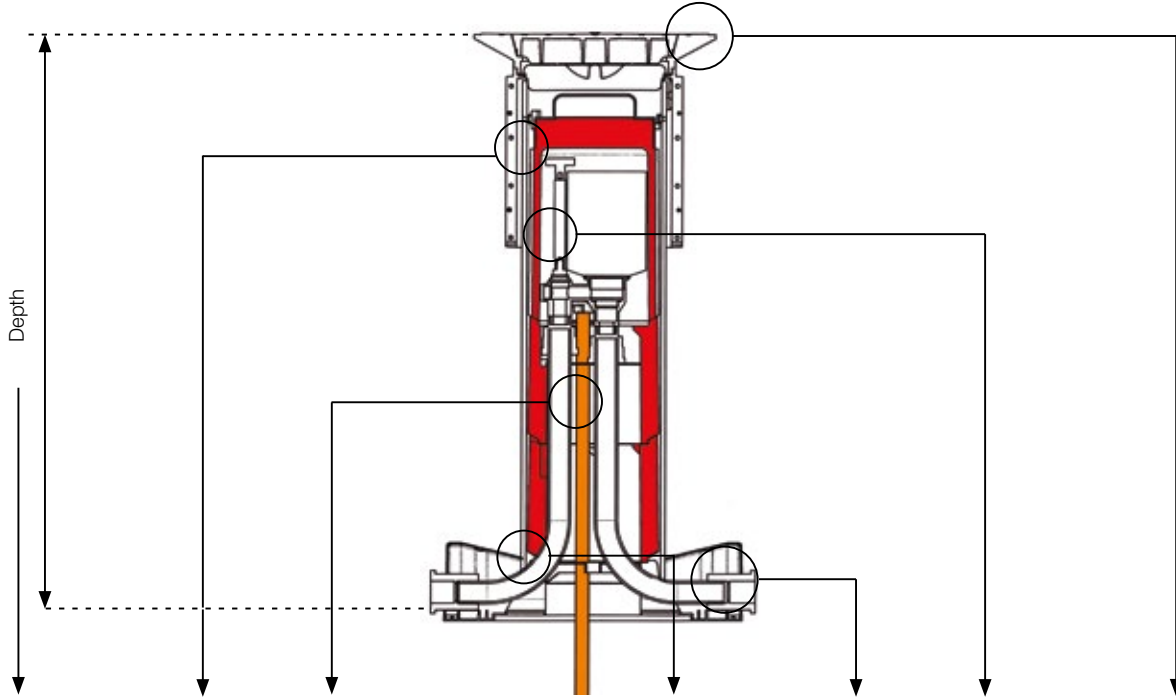


Standard cover
(3.5 t)



Reinforced cover
B125 (12.5 t)

> CREATE YOUR REFERENCE



Depth and freeze resistance								Ø PE connection		PE I/O			Valve head		Cover resistance		
Depth	60 - 80 cm		80 - 100 cm			100 - 120 cm		25 mm	32 mm	Bare PE outlet	Brass connectors	Synthetic connectors	1/4-turn	Disc	Type	Reinforced (12.5 t) B125	Compact (3 t) A15
Insulation	Standard without heat pipe	Extra without heat pipe	Standard without heat pipe	Extra without heat pipe	Extra with heat pipe	Extra without heat pipe	Extra with heat pipe	25 mm	32 mm	Bare PE outlet	Brass connectors	Synthetic connectors	1/4-turn	Disc	Type	Reinforced (12.5 t) B125	Compact (3 t) A15
Order code	H1	H2	H3	H4	H5	H6	H7	PE 25	PE 32	SN	SL	ST	R1	R2	Colour	Black	Black
																T12N	T32N

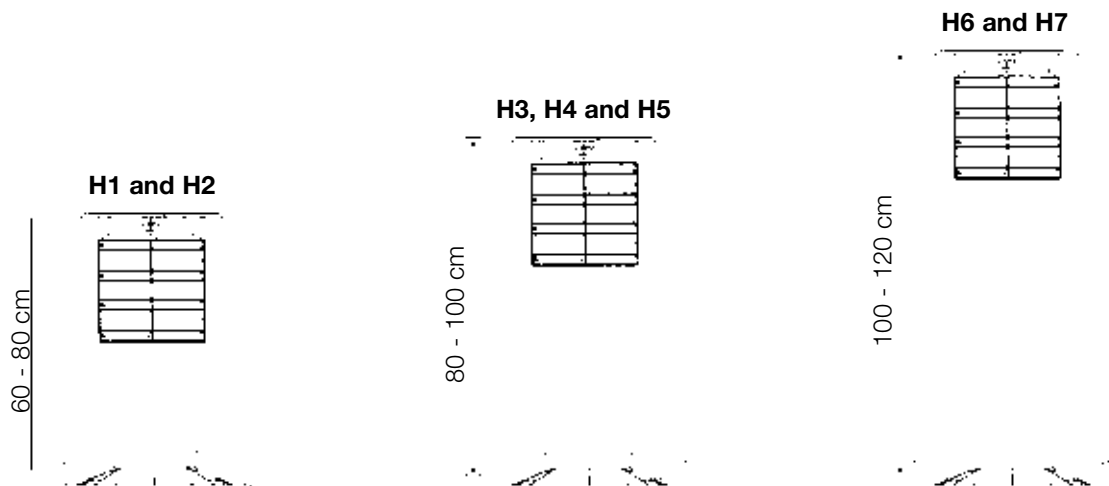
Order description	H 5	PE 25	S L	R 1	T 12N*
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*Reference example of 80-100 cm meter box with extra insulation and heat pipe, with 25 mm PE with brass connector outlet, 1/4-turn valve head and reinforced cover and frame (12.5 t).

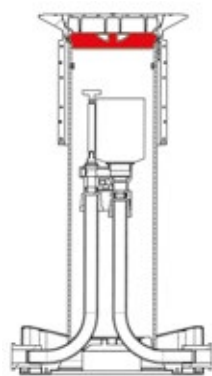
> ACCESSORIES

Descriptions	Ref.	Descriptions	Ref.
Brass blanking plug for base	0925.794	Check valve with support	0990.253
By-pass plug for base	0925.795	Drain plug (1 unit)	0990.256
1/4-turn valve head	0990.251	3.5 t cover (A15) with hinge	0990.867
Square disc valve head	0990.252	12.5 t cover (B125)	0990.870
Hydrant key for fluted 1/4-turn head	0990.254	3.5 t cover with lock and insulation	0990.282
Hydrant key for triangular disc head	0990.255	12.5 t cover with extension section	0990.281
Hydrant key for square disc head	0990.868	3.5 t cover with extension section	0990.280
1/4-turn head locking kit	0974.004	Replacement lock for 3.5 t cover	0990.283
Lock cylinder + key	0974.003	Standard insulation block	0990.271
Screw end-piece for lockable valve head	4.084.884	Extra insulating cap	0990.270
Disc valve disassembly tool	0990.257	Hinge + pin for hinged cover (pack of 10)	0990.875

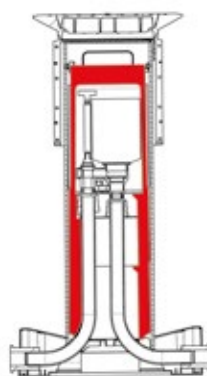
> DEPTH



> INSULATION

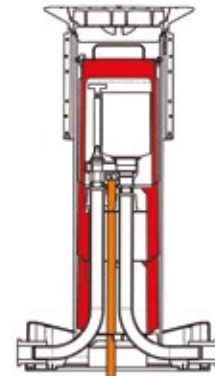


Standard insulation



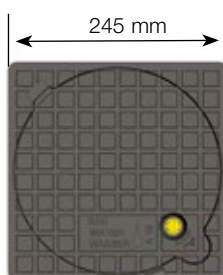
Extra insulation

Insulation
Heat pipe

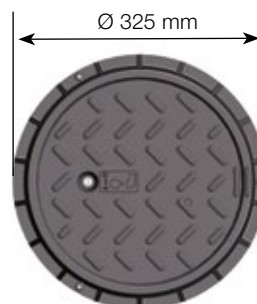


Extra insulation
with heat pipe

> ADJUSTABLE AND TILTABLE COVER



**Standard
Load: 3.5 t**
(class A15 as per
standard NF EN 124)
for areas used by
pedestrians and
cyclists only



**Reinforced
Load: 12.5 t**
(class B125 as per standard
NF EN 124) for pavements,
pedestrian and comparable
areas, car parks and multi-storey
car parks

> PRODUCT PHOTOS



Meter box

Ref. H4 PE 32 ST R1 T32N



3.5 t compact cover

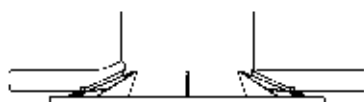


Connections
with quick synthetic connectors

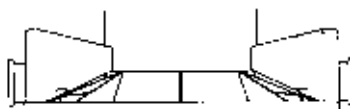


Hydraulics

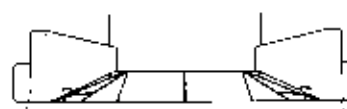
> PE CONNECTION



Bare PE connections



Brass connections
for mechanical clamping



Automatic synthetic
connectors



OVALO meter box

COMPACT METER BOX FOR DN15 IN-LINE METERS

OVALO is a range of compact meter boxes for **DN15 in-line water meters** measuring 110 mm - 170 mm (3/4" or 20/27 thread), making it possible to connect customers to the drinking water network.

Designed with fibreglass-reinforced synthetic material, these meter boxes provide an effective response to mechanical, thermal and installation conditions.



NEW

Equipped with **PE100D polyethylene** pipes resistant to disinfectants



Advantages

Standard meter boxes (ready to connect):

- Use of standard hydraulic components (valve with sliding meter, anti-pollution check valve with captive drain plugs upstream and downstream, and integrated PE connector)
- Delivered as standard with Ø 25 PN20 (NF) PE and adjustable feet

Fully insulated meter boxes:

- Optimal insulation without thermal bridge
- Insulation under cover
- Insulating cap on meter
- Insulation on vertical walls

Functional meter boxes:

- 3 depth levels: 60/80-80/100-100/120 cm
Vertical adjustment up to 20 cm and angle adjustment for each meter box
- Load resistance: range of covers for applications ranging from private areas to class C250 for public spaces
- Meter connection assistance: the Ovalo range has 2 types of fixed and plug-in hydraulics. Each one offers solutions that facilitate meter connection.

Environmentally-friendly meter boxes:

The Ovalo range has the design characteristics required of an eco-product.

It is easy to recycle these meter boxes at the end of their service life:

- reduced number of components
- elements easy to separate
- reduced number of materials
- 100% recyclable insulation

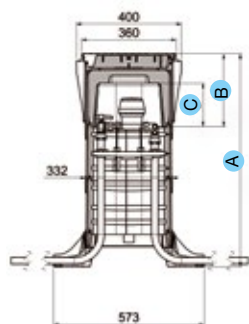


Synthetic cover (5 t)



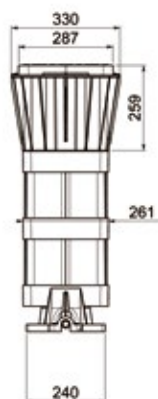
C250 cast iron cover

> PRODUCT SELECTION



Fixed hydraulics version

FIXED VERSION (in mm)	60/80	80/100	100/120
A (Overall dimensions)	600 - 800	800 - 1000	1000 - 1200
B (Meter centreline depth depending on plate position)	277 - 477	277 - 477	277 - 477
C (Available height above meter centreline depending on plate position)	165	165	165

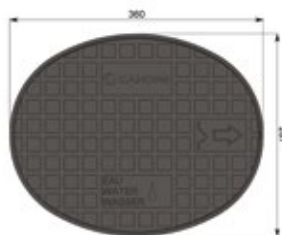


Plug-in hydraulics version

PLUG-IN VERSION (in mm)	60/80	80/100	100/120
A (Overall dimensions)	600 - 800	800 - 1000	1000 - 1200
B (Meter centreline depth depending on plate position)	225 - 425	300 - 500	300 - 500
C (Available height above meter centreline depending on plate position)	113	188	188

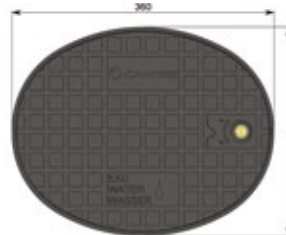
> COVERS

Private areas (1.5 t), able to withstand everyday loads in private area (e.g. category B vehicle)



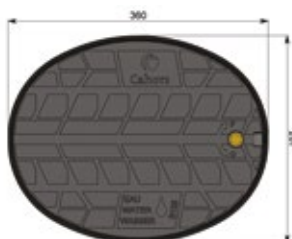
Class as per NF EN 124: A15
Resistance: 1.5 t
Locking bar: No
Cover material: Synthetic
Frame material: Synthetic
Example of mechanical resistance: withstands passage of vehicle (3.5 t)
Cover insulation: Yes

Public area (5 t), able to withstand difficult worksite conditions



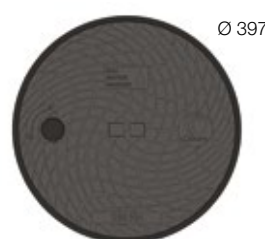
Class as per NF EN 124: A15
Resistance: 5 t
Locking bar: 13 hex, slotted head
Cover material: Synthetic
Frame material: Synthetic
Example of mechanical resistance: withstands passage of 10 m³ truck (13 t axle weight)
Cover insulation: Yes

B125 (12.5 t) pavements, pedestrian areas, car parks



Class as per NF EN 124: B125
Resistance: 12.5 t
Locking bar: 13 hex, slotted head
Cover material: cast iron
Frame material: Synthetic
Cover insulation: Yes

C250 (25 t) up to gutter area, roads, alongside pavements*



Class as per NF EN 124: C250
Resistance: 25T
Locking bar: 14 x 14 square, slotted head
Cover material: cast iron
Frame material: synthetic
Cover insulation: Yes

*Up to 0.5 m onto the highway and 0.2 m into the verge

> PLUG-IN HYDRAULIC VERSION

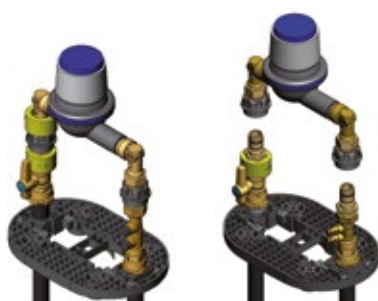
for DN15 110 - 170 mm meter
(3/4" or 20/27 thread)

Advantages - easy meter connection:

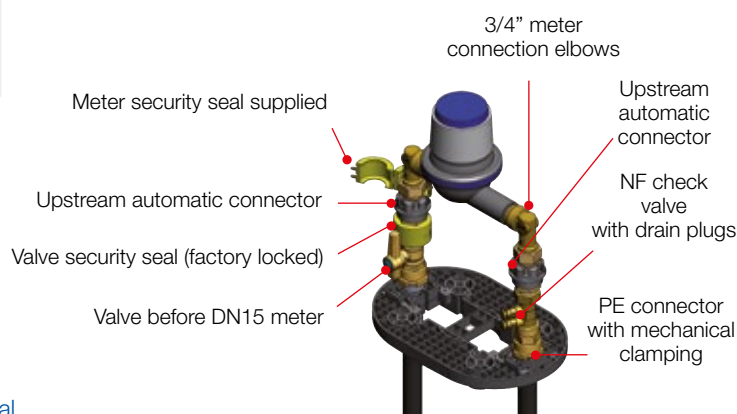
- Meter removal and adjustment outside meter box
- Quick and easy removal of meter via 2 unlocking rings on automatic connectors



Meter integration:
DN15, length 110 and 170 mm



Meter
removal



References

Covers \ Depth	60/80** ▲	80/100 ▲	100/120 ▲	Pack-aging
Private area (1.5 t)	0258.528	0258.529	0258.530	g/ pallet
Public area (5 t)	0258.525	0258.526	0258.527	
B125 (12.5 t)	0258.522	0258.523	0258.524	
C250 (25 t)	0258.519	0258.520	0258.521	

*Meter not supplied

**delivered with factory curved Ø 25 PE pipes

▲ delivered with Ø 25 PN20 (NF) PE

Other hydraulic fittings
on request
(PE 32, Excel Plus PE,
valve after meter, etc.)



> ACCESSORIES

Descriptions	Ref.	Descriptions	Ref.
Cover with insulation for private area	0996.018	110 mm 3/4" blanking plugs (pack of 5)	0990.890
Cover with insulation for public area	0996.019	Meter connection elbow accessory	0996.024
Cover seals (pack of 10)	0996.017	Meter connection elbow accessory - flow limiter 0996.025	
Frame for private or public area covers	4093.169	Brass connectors (pack of 2) for PE Ø 32/25 connection	0974.063
Insulated extension section	0996.016	Synthetic connections (pack of 2) for PE Ø 25/25 connection	0974.062
Insulating cap	4093.176	Synthetic connections (pack of 2) for PE Ø 32/25 connection	0974.064
Cover insulation with mounting	0996.020	Brass connectors (pack of 2) for PE Ø 25/25 connection	0974.061
Meter seal accessory (pack of 6 o-ring seals)	0990.865		
Blanking plugs, L 170 mm (pack of 5)	0990.891		
110 mm 3/4" by-pass plugs (pack of 5)	0990.889		

> FIXED HYDRAULICS VERSION

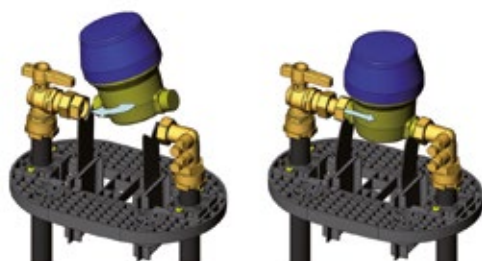
for DN15 meter,
110 mm (3/4" or 20/27 thread)

Advantages - easy meter connection:

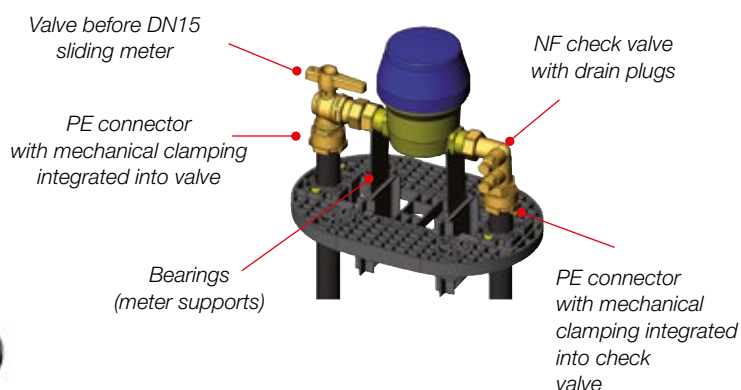
- Flat captive seals
- Meter support bearings allowing alignment of meter with connection nuts
- Valve before sliding meter



Meter integration:
DN15, length 110 mm



Meter installation



Other hydraulic fittings
on request
(PE 32, Excel Plus PE,
valve after meter, etc.)

References

Covers \ Depth	60/80*	80/100*	100/120*	Pack-aging
Private area (1.5 t)	0258.500	0258.501	0258.502	g/ pallet
Public area (5 t)	0258.503	0258.504	0258.505	
B125 (12.5 t)	0258.506	0258.507	0258.508	
C250 (25 t)	0258.509	0258.510	0258.511	

*delivered with Ø 25 PN20 (NF) PE

> ACCESSORIES

Descriptions	Ref.
Cover with insulation for private area	0996.018
Cover with insulation for public area	0996.019
Cover with insulation - B125	0996.027
Cover seals (pack of 10)	0996.017
Frame for private/public area or B125 covers	4093.169
Insulated extension section	0996.016
Insulating cap	4093.176
Cover insulation with mounting	0996.020
Pair of meter support bearings	0996.014
Sliding valve before meter, PE Ø 25 - 3/4"	4093.334
110 mm 3/4" by-pass plugs (pack of 5)	0990.889
110 mm 3/4" blanking plugs (pack of 5)	0990.890

Descriptions	Ref.
Check valve with upstream and downstream drain plugs, PE 25 - 3/4"	4093.335
EPDM 3/4" captive meter seals (pack of 20)	0996.015
Brass connectors (pack of 2) for PE Ø 25/25 connection	0974.061
Brass connectors (pack of 2) for PE Ø 32/25 connection	0974.063
Synthetic connections (pack of 2) for PE Ø 25/25 connection	0974.062
Synthetic connections (pack of 2) for PE Ø 32/25 connection	0974.064
Valve locking key	0996.125

> PLUG-IN HYDRAULIC VERSION WITH DOUBLE CUT-OFF

for DN15, 110 mm in-line meter*

DN15 upstream valve (customer)

Ref. 0996.035

Meter security seal supplied

Upstream automatic connector

Valve security seal (factory locked)

Valve locking lever

Ref. 0996.034

DN15 lockable upstream valve
(water board)

Downstream automatic connector

NF check valve
with drain plug

PE connector with
mechanical clamping



Quick and easy removal
of meter via unlocking rings
on automatic connectors



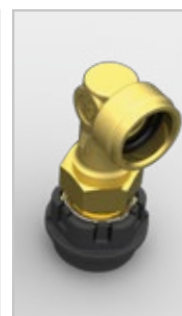
Meter integration:
DN15, length 110 mm

Covers **equipped with lock	Depth	60/80 mm	80/100 mm	100/120 mm
Private area (synthetic) Withstands passage of 3.5 t vehicle		0258.542	Please contact us	
Public area (synthetic)** Withstands passage of 38 t vehicle		0258.543		
B125 (cast iron)** as per NF EN 124		0258.544		
C250 (cast iron)** as per NF EN 124		Please contact us		
Meter boxes equipped with Ø 25 PN20 PE - EXCEL-PLUS® mounting (please contact us)				

Examples of accessories



Ref. 0996.035



Ref. 0996.025

*Meter not supplied
**Equipped with lock

> ACCESSORIES

Descriptions	Ref.
Cover with insulation for private area	0996.018
Cover with insulation for public area	0996.019
Cover with insulation - B125	0996.027
Cover seals (pack of 10)	0996.017
Frame for private/public area or B125 covers	4093.169
Insulated extension section	0996.016
Insulating cap	4093.176
Cover insulation with mounting	0996.020
Meter seal accessory (pack of 6 o-ring seals)	0990.865

Descriptions	Ref.
110mm by-pass plug (pack of 5)	0990.889
110 mm blanking plug (pack of 5)	0990.890
Meter connection elbow accessory	0996.024
Meter connection elbow accessory - flow limiter	0996.025
Brass connectors for PE Ø 25/25 (pack of 2)	0974.061
Synthetic connectors for PE Ø 25/25 (pack of 2)	0974.062
Brass connectors for PE Ø 32/25 (pack of 2)	0974.063
Synthetic connectors for PE Ø 32/25 (pack of 2)	0974.064

CAHORS know-how

SPECIALIST FIELDS



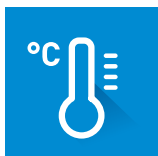
Hydraulic test bench

- Pressure tests
- Head loss tests
- Flow tests



Leak test bench

- Air/air leak testing
- In-production testing of hydraulic assemblies



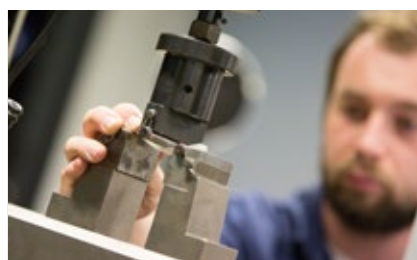
Climate chamber

- Tests according to customer protocol
- Down to -20°C



Laboratory testing

- Material qualification
- Mechanical strength tests



Design office

- Product customisation
- New product design according to customer specifications





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