

E.I.E
GROUPE CLAIRE



Solutions for working on water networks without interrupting the supply

2024 CATALOGUE



claire

The challenges of drinking water

France's drinking water network is made up of almost 1 million km of pipes, which is equivalent to the entire road network.

With sanitation, the **estimated infrastructure value of the water networks is 300 billion euros.**

This essential infrastructure, which provides access to high-quality water for everyone, is becoming old and deficient. The efficiency rate of the networks is less than 80%, which means that more than 20% of the water produced, with all the power and infrastructure that this requires, is lost.

The insufficiently renewed drinking water supply network loses **1 billion m³ of water through leaks** every year (the capacity of the entire lake at Annecy).

Against this background, it is essential to place the management of water resources at the very forefront of our priorities.

The first step towards improving network efficiency to contribute to its sustainability and provide access to water involves installing reliable products made from high-quality materials that are manufactured locally.

Monitoring (measuring parameters and detecting anomalies), supervision (prioritising work and maintenance) and remote action (control) also help to improve the performance and management of water networks in order to safeguard resources.

960,000 km **50%** **0.6%**

of drinking water supply networks in France

of the network is over 50 years old

of the network renewed each year



A photograph of a large, white, cylindrical water tower with a metal lattice structure supporting it. The tower is set against a clear blue sky with scattered white clouds. The image is used as a background for the text.

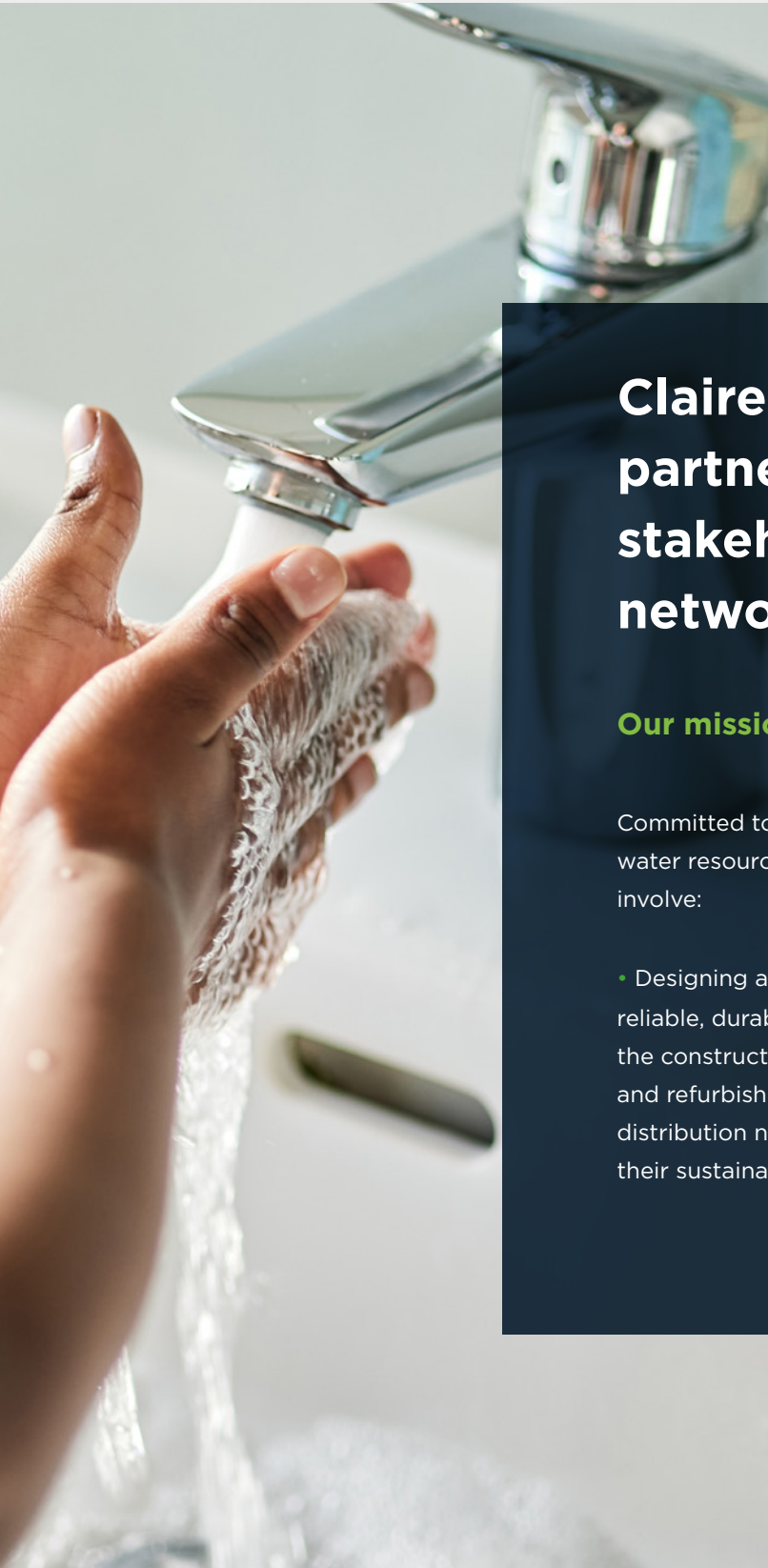
More than 20%

of drinking water
produced is lost
through leaks



claiRE

**Let's conserve
the resource together
for future generations**



Claire Group, a trusted partner of water stakeholders serving network performance

Our mission: Conserving Water resources

Committed to conserving water resources, our actions involve:

- Designing and manufacturing reliable, durable equipment for the construction, maintenance and refurbishment of water distribution networks to ensure their sustainable efficacy

- Developing products for diagnostics, monitoring and management to improve the water network performance

- Providing resources and information to allow everyone to optimise their use of water



SAÏNTE-LIZAIGNE GROUPE CLAIRE

Equipment and management
for the drinking water network
and irrigation



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Intervention solutions without
cutting off the water networks



HYDROMÉCA GROUPE CLAIRE

Customised metering systems
and tools



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Drinking water



Natural water



Waste water





iJINUS
GROUPE CLAIRE

Independent and connected measurement and recording systems for water monitoring



FAST
GROUPE CLAIRE

Equipment to detect and locate leaks



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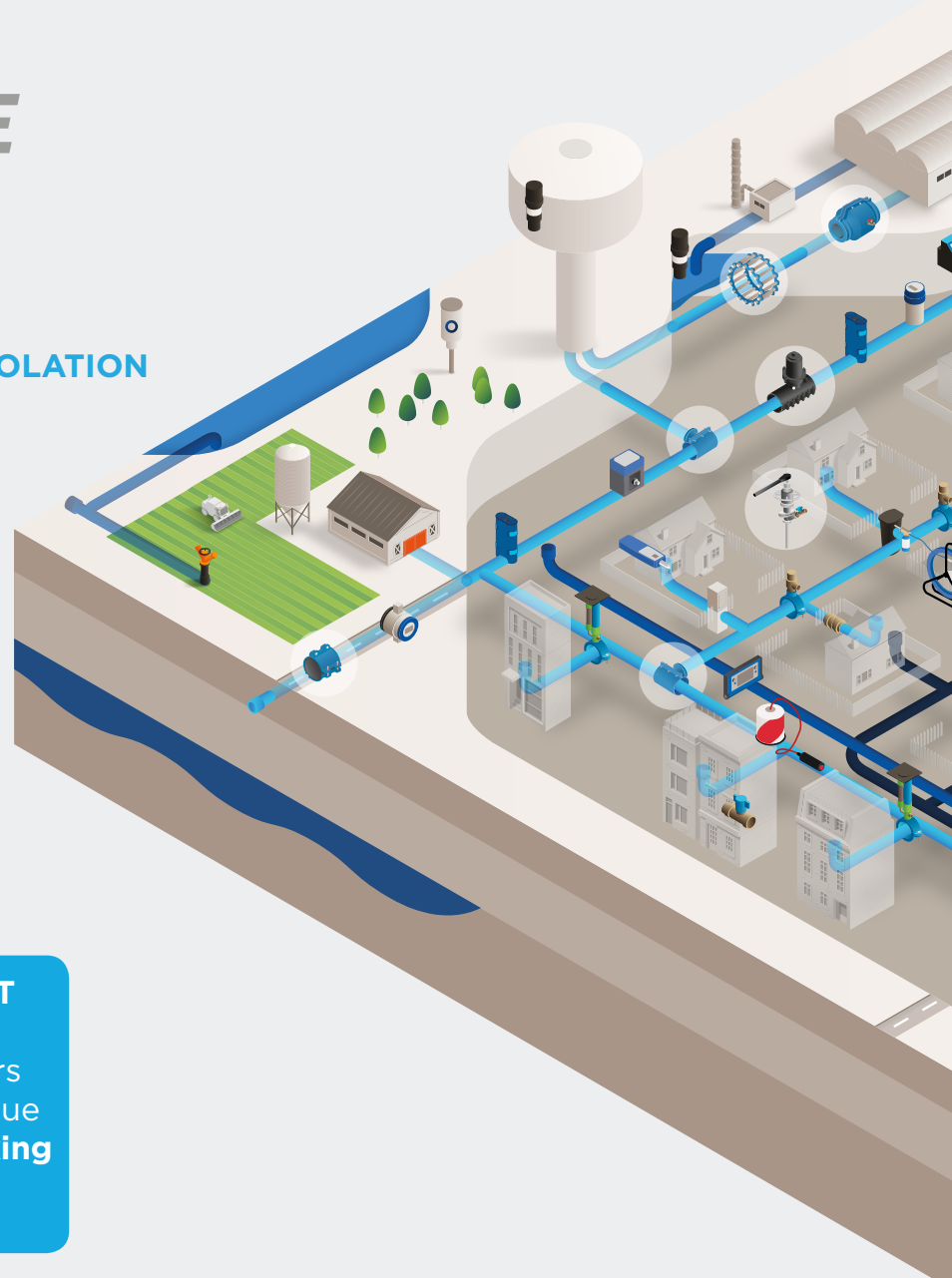
- BRANCH CONNECTIONS & ISOLATION
- CONSUMER CONNECTION
- METERING ENVIRONMENT
- REPAIR & CONNECTION
- TOOLS AND MAINTENANCE

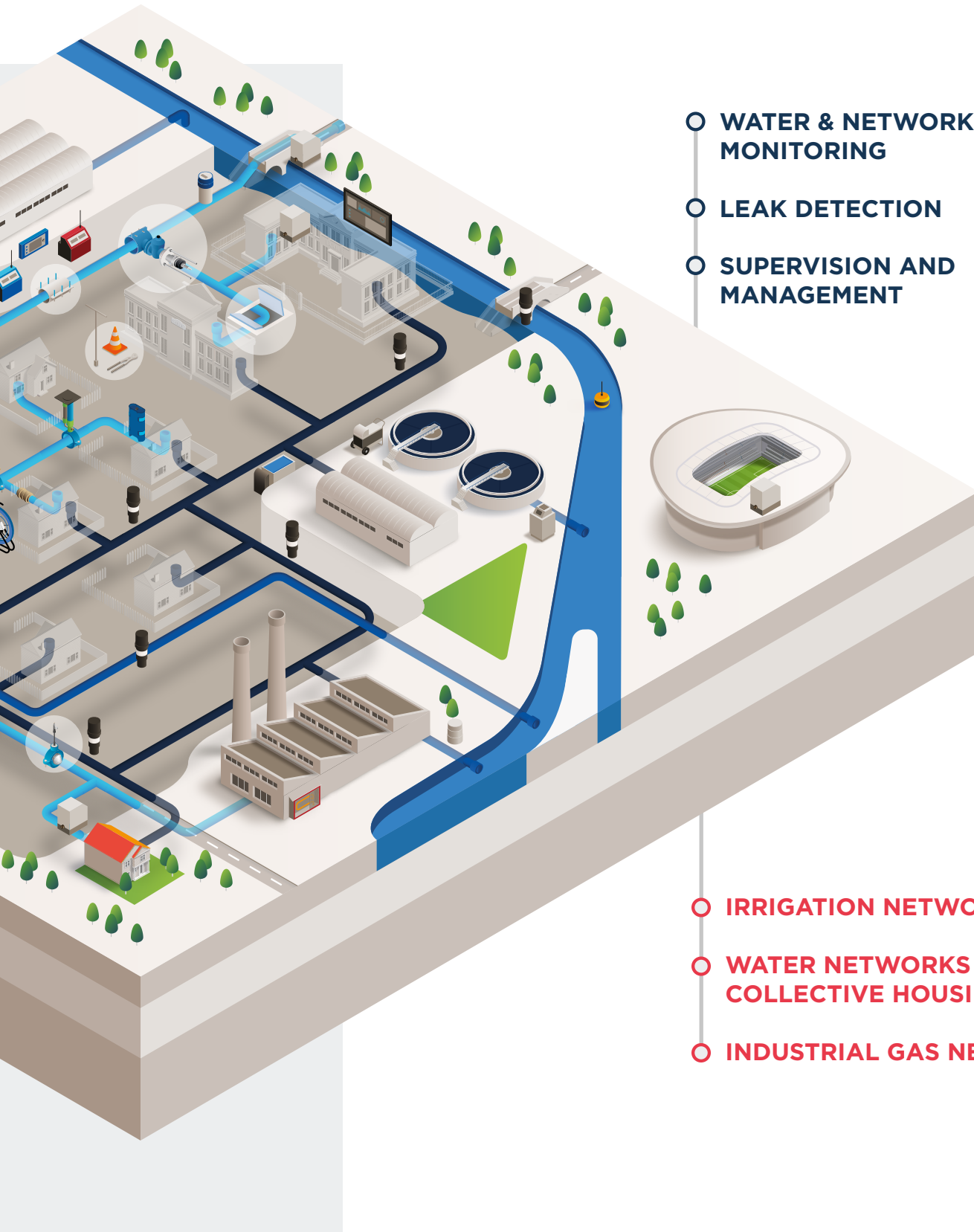


MATERIALS AND EQUIPMENT
for under-pressure drilling,
branch connections and repairs
to be discovered in this catalogue
dedicated to **Solutions for working
on water networks without
interrupting the supply**



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GROUPE CLAIRE





- WATER & NETWORK MONITORING
- LEAK DETECTION
- SUPERVISION AND MANAGEMENT

- IRRIGATION NETWORKS
- WATER NETWORKS FOR COLLECTIVE HOUSING
- INDUSTRIAL GAS NETWORKS



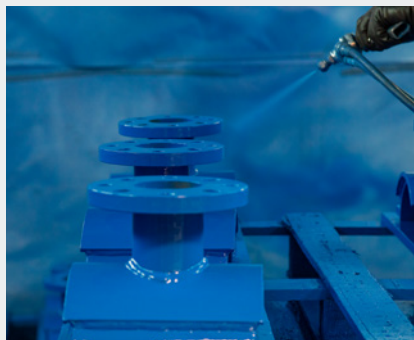
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Our activity

EIE offers **ready-to-use solutions** for operators in France and abroad, enabling them to **work on water networks without interrupting services**, using the right tools to **branch, connect and repair**.

Experts in working solutions

EIE invented the under-pressure drilling technique for water networks by developing tapping clamps/saddles, drilling machines and tools. Drawing on its extensive expertise in the field, it has also created the concept of under-pressure plugging, and has joined forces with key partners to offer a unique range of under-pressure isolating valves and an innovative, easy-to-use temporary plugging system.



Offering solutions in a traditional business

With a firm focus on reliability and support, EIE assists its customers to make their projects a success. EIE is attentive to the needs and

Bespoke expertise

EIE offers a wide range of equipment and materials (over 700 references) for all operations involving branch connections, drilling and repairing drinking water and wastewater pipes. Thanks to its expertise and flexible production facilities, EIE can also design and manufacture made-to-measure repair and connection parts: in all shapes and sizes and for all pipe materials.

With its integrated metal workshop, EIE also manufactures all the special parts required for work on networks (inspection hatches, ladders, anchor clamps, etc.)

EIE also supplies all the tools needed for hydrant and standpipe maintenance work, and has developed a wide range of tools to facilitate work on pipes.

problems of its customers, and contributes its knowledge and expertise in the field to propose a solution that is economically advantageous, technically reliable and viable in the long term. It also knows how to optimise its production schedules to deal with emergency situations and provide the best possible response.



High quality made in France

Benefiting from a string of patents, EIE designs most of the standard and made-to-measure solutions that it offers its customers. Virtually all the equipment is manufactured at the EIE industrial facility in Seine-et-Marne. EIE has vast workshops with

modern, high-performance production facilities: sheet metal equipment (plasma cutting, rolling machine), manual welding stations and a welding robot. A paint area equipped with a spray booth provides an automotive-grade finish.



Adopting a Corporate Social Responsibility approach

A proactive CSR approach that is reflected in actions such as:

- partnerships with schools
- support for NGOs

EIE collaborates in development projects for humanitarian assistance by supplying

products for access to water.

- the elimination of carbon-based energy sources on the production site
- support for the bee-keeping business.

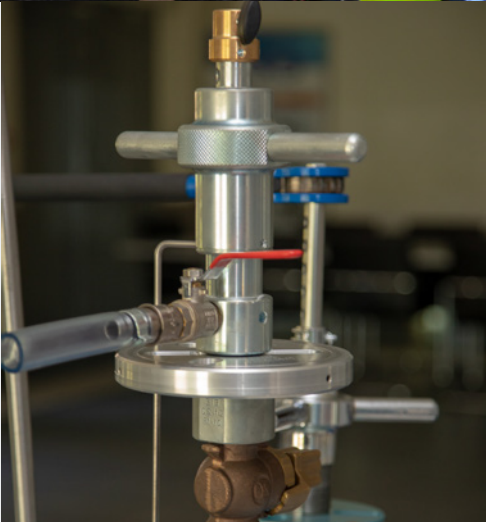


EIE is ISO 9001, 14001 and 45001 certified for all its activities (see p.138).



A customised offer for maintenance and rental of equipment

EIE offers servicing, maintenance and repair of drilling machines. Performed on the manufacturing site, these operations are subject to specific, transparent monitoring to ensure reliable use of the equipment throughout its service life. Rental packages for drilling machines and equipment are available, with the added option of technical assistance.





Under-pressure drilling

What is under-pressure drilling?

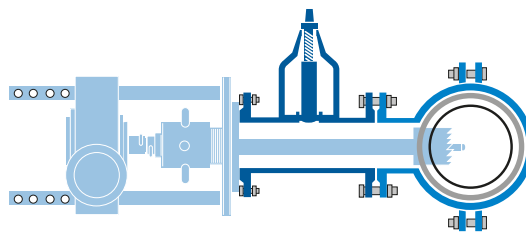
This technique, which originates from the oil and gas industry, involves drilling into a pipe, while it is still supplied and under pressure, through a valve or gate valve previously fitted to a tapping tee or tapping fitting, while ensuring that it is watertight during the drilling operation.

Since 1976, EIE has focused on this technology to adapt it to drinking water networks. EIE is even considered to be the inventor of this technique in the drinking water supply sector, through its development of tapping tees, machines and tools.

Principle

Work on a water network (or gas network: please contact us) **that is in service without interrupting the service.**

Fit a branch connection: distribution pipe or consumer connection.



Advantages of under-pressure drilling

• Service continuity

Under-pressure drilling enables work to be carried out on the drinking water network without interrupting the water supply to consumers

• Lower work costs

The operation is 2 to 3 times faster than a procedure that involves cutting off the water supply. It also means that there are fewer parts to handle and fewer seals to fit, all of which increase the risk of leaks.

• Water resources and the environment are safeguarded

The pipe does not need to be drained before the work is carried out. Water consumption is very low and no water is wasted.

Very little waste is generated during drilling, only the cut-out disc, which will be recovered.

• Flexibility in terms of organisation

Under-pressure operations mean you can manage your work schedule more effectively. Teams are not dependent on the distributor's water supply being shut off, and site contingencies (such as early completion or delays) have no impact on the overall organisation of the works.

Under-pressure drilling technique

THE POTENTIAL OF UNDER-PRESSURE DRILLING

MATERIALS THAT CAN BE DRILLED UNDER PRESSURE:

In all cases the appropriate tools must be used (please contact us):

- Cast iron: for grey cast iron, it is preferable to replace the saddle with a 120 A tapping sleeve.
- Steel
- HDPE: depending on the type of pipe and the pressure, it may be necessary to use long series hole cutters.
- PVC
- Asbestos - Cement
- BONNA pipe: requires a special saddle to rest on the sheet metal core.
- GRP
- Concrete

POSSIBLE BRANCH CONNECTION DIMENSIONS:

- DN 20 to 40: for individual consumer connections (using a tapping valve)
- DN 50 to 600: for network extensions, branch connections (using full-bore gate valves).
- On cast iron, a branch connection with a diameter equivalent to that of the mains supply can be created: example DN 600 pipe, with a DN 600 branch fitting. For other materials, a branch connection can be created with the nearest smaller nominal diameter: for example, a DN 300 HDPE pipe with a DN 250 branch fitting.

PERMISSIBLE PRESSURES:

Our clamps/saddles have been tested under pressure up to 70 bar. They are guaranteed to 30 bar.

They are delivered ex-stock, up to DN 150 with flanges: PN 10/PN 16, above: PN 10.

Please contact us for higher pressures.

Comparison between an under-pressure drilled connection and a branch connection made using traditional methods (example for a DN 300 pipe)

IMPLEMENTATION STEPS	STANDARD BRANCH CONNECTION	UNDER-PRESSURE DRILLED CONNECTION
Warn consumers that the water supply is to be cut off	In accordance with the distributor's terms and conditions	Not applicable
Shut off the section of pipe concerned	30 minutes	Not applicable
Drain the pipe	1 hour	Not applicable
Excavation work	-	-
Cut the pipe	1 hour	Not applicable
Fit 1 tee with seals, 2 couplings, 1 cut and 1 valve	3 x 1 hour	-
Fit a saddle/clamp (or tee coupling) and a valve	1 hour	2 x 30 minutes
Hydraulic test and drilling	-	2 x 30 minutes
Fill, rinse, bleed, test the pipe and disinfect	3 x 30 minutes	Not applicable
Put back into service and stop	1 hour	Not applicable
TOTAL	8 HOURS	2 HOURS

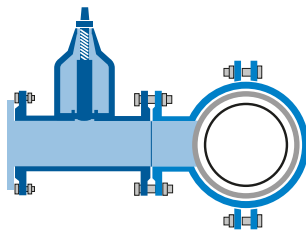


Under-pressure drilling technique

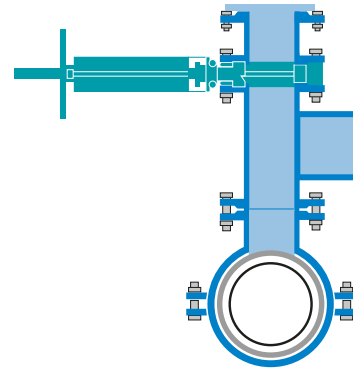
DRILLING CONFIGURATIONS

TECHNIQUES:

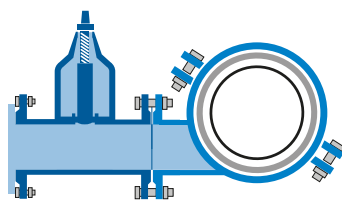
- Horizontal drilling
- Top drilling
- Tangential drilling
- Surface drilling
- Drilling at 45 °
- Drilling on Bonna pipe
- Fitting a tee on DN ≥ 800



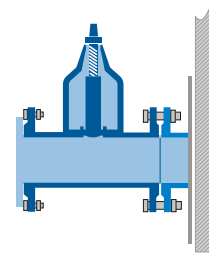
Horizontal drilling
(Standard configuration)



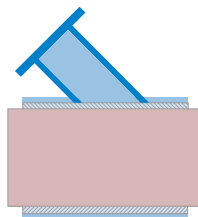
Top drilling
(Congested networks)



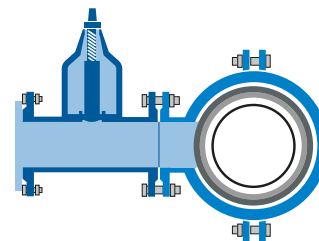
Tangential drilling
(Low tapping, with the flow of the water)



Surface drilling
(Drilling an ovoid pipe or on a tank)



Drilling at 45°
(Inserting a probe or outlet at 45°)
Other angles: please contact us



Drilling on Bonna pipe
(Case of a pipe with a steel plate core: seal on the steel plate core)

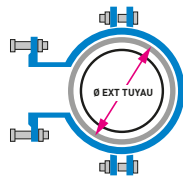
Please do not hesitate to ask us about specific configurations.

UNDER-PRESSURE DRILLING PROCEDURE

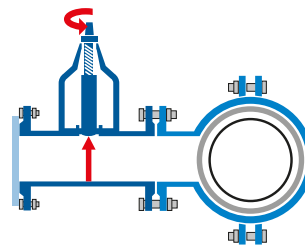
EQUIPMENT REQUIRED:

- Tapping saddle or 120 A tapping tee (preferably the saddle, as the tee is reserved for special applications: brittle cast iron).
- Valve + metal gasket + bolts. EIE can offer you a complete factory-assembled and tested unit.
- EIE drilling machine and appropriate tools. The machine takes up very little space: 52 cm high and 35 cm wide.

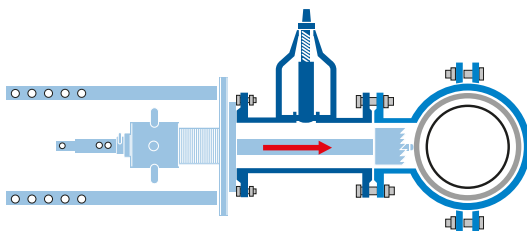
PHASE 1
The saddle is fitted onto the pipe



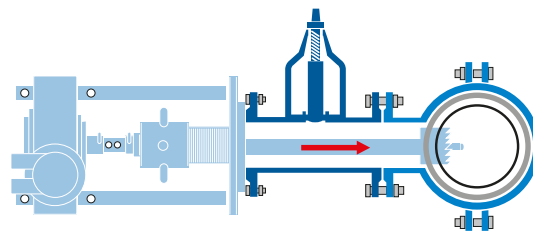
PHASE 2
The open valve is fitted



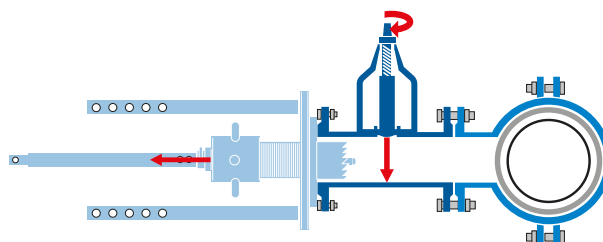
PHASE 3
The cutting tool comes into contact with pipe



PHASE 4
The pipe is drilled



PHASE 5
The machine is removed after closing the valve



READY FOR CONNECTION

Our brands



EIE is the expert in solutions for working on water networks without interruption, which it designs and manufactures in France, and markets in France and internationally. Its range includes equipment for installing, drilling and repairing water networks (tapping saddles, tapping tees, drilling machines and repair parts). Leveraging its industrial facilities, the company produces a full range of products as well as custom-made products tailored to specific customer requirements.

Innovative operational solutions such as the isolating valve and the temporary network plugging system are also proposed.

EIE also manufactures all the special parts required for work on networks (inspection hatches, etc.). EIE also supplies all the tools for hydrant and standpipe maintenance work, and has developed a wide range of tools to facilitate work on pipes.

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Other products for the drinking water network, from consumer connection to the metering environment (tapping valves and clamps/saddles, meter terminals, manholes, meter supports, meter valves and anti-pollution, couplings, etc.)

can be found **in our catalogue**



[Equipment for drinking water supply networks](#)



At the end of the catalogue, you will find technical information on the external diameters of pipes according to their material, a guide to matching EIE repair parts and a summary table of flange drilling templates (see p. 136)

Branch connections

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House connection

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Solutions for working on networks

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Repair & Connection

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Metalwork

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Tools and maintenance

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Main contents

Branch connections

**Drilling machine
DN 50-200**

**Fixed tapping
saddle**

**For technical information on the outside diameters of pipes
by material, see p. 136.**

Drilling machines

Under-pressure drilling
machines - Drilling
tools - Drilling machine
accessories - Drilling
machine rental - Drilling
machine servicing and
maintenance

Page

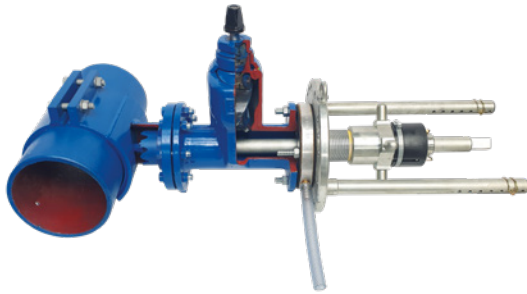
20

Clamps / Saddles

Tapping clamps/
saddles - Tapping
clamps/saddles +
valve - Kit for flange -
Tapping sleeves

Page

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- ___ Connecting a branch on the water supply network without interrupting the service
 - ___ Large-diameter drilling from DN 50 to DN 200, with the option of extending to DN 400
 - ___ Can be used on most pipe materials
 - ___ Compact size
 - ___ Equipment servicing and maintenance
 - ___ Rental and assistance option

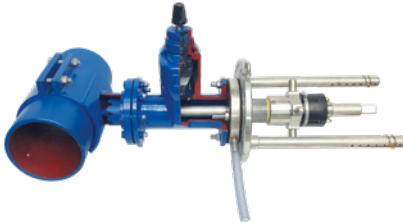
 - ___ Reliability: corrosion-resistant coated steel design, large O-ring seal
 - ___ Wide range: from Ø 100 to Ø 2400, various outlet DN's, for all pipe materials
 - ___ Made-to-measure: other dimensions and tolerances on request
 - ___ Tangential outlet or rotating flange option
-

Under-pressure drilling machine DN 50-200



Drilling machine DN 50 to 200

Option of extension up to DN 400



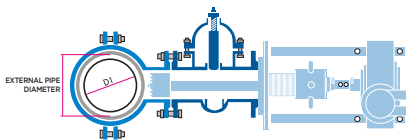
Designation	Use	Weight (kg)	Ref.
Drilling machine DN 50 to DN 200 PN10/PN16 Comprising: 1 plate with PN10/PN16 template for holes of 50, 60, 80, 100, 125, 150 and 200 mm 2 guide shafts 2 drive pins 24 plate plugs 1 plug wrench 1 swarf discharge pipe 1 square ratchet spanner 28 - length 5 ML 1 feed and sealing system	Drilling	27	V60200CE

Option of drilling up to DN 400 with expansion flange: see page 30

Drilling plate for nominal pressures PN 16 - 20 - 25 - 40: please contact us



The optional test kit (see p. 128) is available for leak testing.



PRESENTATION

- Allows branch connections from DN 50 to DN 400 without interrupting the water supply to the customer, on virtually all materials (please contact us for more information)
- Compact under-pressure drilling machine, overall length 530 mm

• We can repair and refurbish your 50 - 200 drilling machines. **Contact us for a detailed quotation.**

• We can rent out machines and drilling equipment from DN 50 to DN 600 (3-day package), with or without assistance. **For more information and prices, please contact our sales department.**

Under-pressure drilling machine DN 50-200



Drive systems

Designation	Weight (kg)	Ref.
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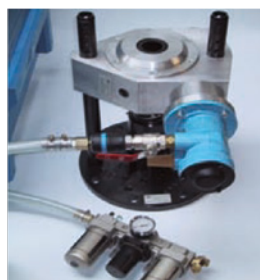


Internal combustion engine

Internal combustion

Petrol engine, 5 hp (totally independent), gear unit, worm gear system (ratio 1/41), driven by DN 20 flexible tube, length 4 m.	42.8	VMOTOTH60200
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Compressed air



Compressed-air motor

Compressed-air motor, driven by air compressor (not included) power 3.6 to 3.9 kW, air consumption 3000 L/mn at 6 bar minimum. Worm gear unit (1/41 ratio). Pressure regulator. 3-m connecting hose.	32.9	VMOTOPNEU60200
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Hydraulic



Hydraulic motor

Gearbox, hoses and flat-bottom connection for connection to hydraulic power unit (not included). Operating range: pressure between 120 and 160 bar and flow rate 20 to 40 L/min.	34.5	VMOTOHY60200
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Under-pressure drilling machine DN 50-100



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Drilling machine DN 50 to 100

Designation	Use	Weight (kg)	Ref.
Under-pressure drilling machine DN 50 to DN 100 with built-in swarf discharge plate. Feed system, 5 m of discharge pipe, square ratchet spanner 28.	To drill holes DN 50 to DN 100	17.1	V50100CE

► PRESENTATION

- Compact, handy, easy-to-use machine
- Tools compatible with the DN 50-200 machine (except DN 100 cutter)
- The machine is supplied as standard with a swarf discharge plate, a feed system, two guide shafts, two drive pins, a swarf discharge pipe and a sealing box

Drive systems

Designation	Use	Weight (kg)	Ref.
Internal combustion			
Built-in internal combustion engine (1.6 hp) with worm gear unit (1/41 ratio)	To drill holes DN 50 to DN 100	26.5	VMOTOTH50100
Compressed air			
Compressed-air motor, driven by air compressor (not included) power 3.6 to 3.9 kW, air consumption 3000 L/mn at 6 bar minimum. Worm gear unit (1/41 ratio). Pressure regulator. 3-m connecting hose.	To drill holes DN 50 to DN 100	32.9	VMOTOPN50100

- We can repair and refurbish your 50 - 100 drilling machines. **Contact us for a detailed quotation.**
- We can rent out machines and drilling equipment from DN 50 to DN 600 (3-day package), with or without assistance. **For more information and prices, please contact our sales department.**

Under-pressure drilling machine DN 250-600



Drilling machine DN 250 to 600



Designation	Use	Weight (kg)	Ref.
Under-pressure drilling machine DN 250 to DN 600, with plate PN 10, PN 16 (other available on request), with plugs and 2 shafts. Feed system, 5 m of discharge pipe, square ratchet spanner 28.	To drill holes DN 250 to DN 600	Depending on equipment	V250600

Only on request. Drive system to be determined according to use.



- We can repair and refurbish your 250 - 600 drilling machines. **Contact us for a detailed quotation.**
- We can rent out machines and drilling equipment from DN 50 to DN 600 (3-day package), with or without assistance. **For more information and prices, please contact our sales department.**

Drilling tools DN 50 to 600



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Drilling tools for drilling machines DN 50 to 600

TOOL RECOMMENDATIONS BASED ON MATERIAL QUALITY

Type of material	Carbide hole cutter	HDPE hole cutter	PVC/AC hole cutter	DIAMOND hole cutter
Ductile cast iron - SG	***	0	0	**
Grey cast iron	***	0	0	**
Steel	**	0	0	*
Pre-stressed concrete	**	0	0	***
"BONNA" concrete	0	0	**	***
Asbestos-cement	**	0	***	***
Earthenware	**	0	0	***
HDPE	*	***	*	*
PVC	*	**	***	*
Biaxially-oriented PVC	0	***	*	0
GRP	**	***	*	0
Fibre	*	**	0	0

*** Excellent

** Adequate

* Occasional use

0 Not recommended

This table only covers tools sold by EIE



**STAINLESS STEEL PIPE:
PLEASE CONTACT US**

Drilling tools DN 50 to 600



Carbide tipped hole cutter for use on CAST IRON and STEEL pipes from Ø 50 to 600



Hole cutter for use on PVC and Asbestos Cement (Eternit) pipes from Ø 50 to 600

- Hole cutters DN 50 to 80 to be screwed onto the shaft
- Hole cutters DN 100 screw-on for machine 50-100
- Hole cutters DN 100 to be fitted for machine 50-200
- Hole cutters DN 100-125 supplied with 4 screws M 10x30
- Hole cutters DN 150 to 600 supplied with 6 or 8 screws M 12x35

Carbide tipped hole cutter

Designation	Use	Weight (kg)	Ref.
Carbide tipped hole cutter DN 50 screw-on	Cast iron and steel	0.19	VFRC050
Carbide tipped hole cutter DN 60 screw-on		0.36	VFRC060
Carbide tipped hole cutter DN 80 screw-on		0.76	VFRC080
Carbide tipped hole cutter DN 100 screw-on		1.4	VFRC100V
Carbide tipped hole cutter DN 100		1.4	VFRC100
Carbide tipped hole cutter DN 125		2.15	VFRC125
Carbide tipped hole cutter DN 150		3.3	VFRC150
Carbide tipped hole cutter DN 200		5.8	VFRC200
Carbide tipped hole cutter DN 250		9.35	VFRC250
Carbide tipped hole cutter DN 300		13.2	VFRC300
Carbide tipped hole cutter DN 350		15.30	VFRC350
Carbide tipped hole cutter DN 400		19.20	VFRC400
Carbide tipped hole cutter DN 500		39	VFRC500
Carbide tipped hole cutter DN 600		41.2	VFRC600
Carbide tipped hole cutter DN 50 screw-on	PVC and Asbestos Cement	0.20	VFRP050
Carbide tipped hole cutter DN 60 screw-on		0.30	VFRP060
Carbide tipped hole cutter DN 80 screw-on		0.84	VFRP080
Carbide tipped hole cutter DN 100 screw-on		1.27	VFRP100V
Carbide tipped hole cutter DN 100		1.27	VFRP100
Carbide tipped hole cutter DN 125		2.1	VFRP0125
Carbide tipped hole cutter DN 150		5.65	VFRP0150
Carbide tipped hole cutter DN 200		5.8	VFRP0200
Carbide tipped hole cutter DN 250		9.50	VFRP0250
Carbide tipped hole cutter DN 300		13.40	VFRP0300
Carbide tipped hole cutter DN 350	15.50	VFRP0350	
Carbide tipped hole cutter DN 400	19.80	VFRP0400	

For larger sizes, please contact us



ASK FOR OUR DATA SHEETS



Drilling tools DN 50 to 600



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Standard PE solid hole cutters

Designation	Use	Weight (kg)	Ref.
Solid hole cutter DN 50 screw-on	PE	0.20	VFRPE050
Solid hole cutter DN 60 screw-on		0.34	VFRPE060
Solid hole cutter DN 80 screw-on		0.75	VFRPE080
Solid hole cutter DN 100 screw-on		1.12	VFRPE100
Solid hole cutter DN 100		1.12	VFRPE0100
Solid hole cutter DN 125		2.15	VFRPE0125
Solid hole cutter DN 150		3.33	VFRPE0150
Solid hole cutter DN 200		5.85	VFRPE0200
Solid hole cutter DN 250		9.70	VFRPE0250
Solid hole cutter DN 300		13.50	VFRPE0300
Solid hole cutter DN 350		15.80	VFRPE0350
Solid hole cutter DN 400		20	VFRPE0400

- Hole cutters DN 50 to 80 to be screwed onto the shaft
- Hole cutters DN 100 screw-on for machine 50-100
- Hole cutters DN 100 to be fitted for machine 50-200
- Hole cutters DN 100-125 supplied with 4 screws M 10x30
- Hole cutters DN 150 to 600 supplied with 6 or 8 screws M 12x35

For larger sizes, please contact us



ASK FOR OUR
DATA SHEETS



Drilling tools DN 50 to 600



Solid hole cutters for high-pressure PE

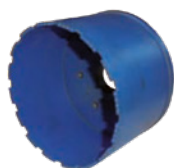
Weight on request



Designation	Use	Weight (kg)	Ref.
Solid hole cutter, long series DN 50	High pressure PE (above PN 40) on request	-	VFRPE050SL
Solid hole cutter, long series DN 60		-	VFRPE060SL
Solid hole cutter, long series DN 80		-	VFRPE080SL
Solid hole cutter, long series DN 100		-	VFRPE100VSL
Solid hole cutter, long series DN 100		-	VFRPE100SL
Solid hole cutter, long series DN 125		-	VFRPE125SL
Solid hole cutter, long series DN 150		-	VFRPE150SL
Solid hole cutter, long series DN 200		-	VFRPE200SL
Solid hole cutter, long series DN 250		-	VFRPE250SL
Solid hole cutter, long series DN 300		-	VFRPE300SL
Solid hole cutter, long series DN 350		-	VFRPE350SL
Solid hole cutter, long series DN 400		-	VFRPE400SL

For larger sizes, please contact us

Hole cutters with diamond segments



- Hole cutters DN 50 to 80 to be screwed onto the shaft
- Hole cutters DN 100 screw-on for machine 50-100
- Hole cutters DN 100 to be fitted for machine 50-200
- Hole cutters DN 100-125 supplied with 4 screws M 10x30
- Hole cutters DN 150 to 600 supplied with 6 screws M 12x35

Designation	Use	Weight (kg)	Ref.
Hole cutter with brazed diamond segments DN 50	Multi-material (see table of recommendations)	0.18	VFRD050
Hole cutter with brazed diamond segments DN 60		0.32	VFRD060
Hole cutter with brazed diamond segments DN 80		0.70	VFRD080
Hole cutter with brazed diamond segments DN 100		1.15	VFRD100V
Hole cutter with brazed diamond segments DN 100		1.15	VFRD100
Hole cutter with brazed diamond segments DN 125		1.95	VFRD125
Hole cutter with brazed diamond segments DN 150		3.10	VFRD150
Hole cutter with brazed diamond segments DN 200		5.60	VFRD200
Hole cutter with brazed diamond segments DN 250		10.70	VFRD250
Hole cutter with brazed diamond segments DN 300		13.50	VFRD300
Hole cutter with brazed diamond segments DN 350		16.50	VFRD350
Hole cutter with brazed diamond segments DN 400		20	VFRD400

For larger sizes, please contact us

Drilling tools DN 50 to 600



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Pilot drill bit

Pilot drill bits

Designation	Use	Weight (kg)	Ref.
Pilot drill bit Ø 24 length 50 mm, with carbide insert	For hole cutter DN 50 60 - 100 150 - 250	0.15	VTF2450
Pilot drill bit Ø 24 length 62 mm, with carbide insert.	For hole cutter DN 80 125 - 200	0.20	VTF2462
Pilot drill bit Ø 30 length 50 mm, with carbide insert.	For hole cutter DN 300 350	0.25	VTF3050
Pilot drill bit Ø 30 length 85 mm, with carbide insert.	For hole cutter DN 400	0.45	VTF3085

Other drill bits on request



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DATA SHEETS



Drilling machine accessories DN 50 to 600



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Tool holder shafts



Designation	Use	Weight (kg)	Ref.
Shaft Ø 40 length 800 mm, threaded tip for drilling machine 50-100 or 50-200	For hole cutter DN 50 - 60 - 80 (and DN 100 on Drilling machine 50-100)	7.3	VT40800
Shaft Ø 40 length 800 mm, with flange Ø 90 for drilling machine 50-200	For hole cutter DN 100 and 125	8.3	VT40800AF
Shaft Ø 40 length 900 mm, with flange Ø 140 for drilling machine 50-200	For hole cutter DN 150 and 200	9.9	VT40900
Shaft Ø 40 length 960 mm, with flange Ø 140 for drilling machine 50-200 (extension to DN 400)	For hole cutter DN 250	11.70	VT40960
Shaft Ø 40 length 1400 mm, with flange Ø 140 for drilling machine 50-200 (extension to DN 400)	For hole cutter DN 300 350 and 400	14.3	VT401400
Shaft Ø 40 length 1400 mm, with flange Ø 140 for drilling machine 500-600	For hole cutter DN 500 and 600	19	VT500600

Shafts of different lengths are available: please contact us

Drilling machine accessories DN 50 to 600



Sealing and swarf discharge flanges

Designation	Use	Weight (kg)	Ref.
DN 50/60 flange converter with bonded seals	To be inserted between the valve and the plate of the drilling machine	1.6	VBRIDECON
Aluminium flange DN 60 with 2 bonded seals PN10 / PN16		1.95	VJ060
Aluminium flange DN 80 with 2 bonded seals PN10 / PN16		2.2	VJ080
Aluminium flange DN 100 with 2 bonded seals PN10 / PN16		2.5	VJ100
Aluminium flange DN 125 with 2 bonded seals PN10 / PN16		3	VJ125
Aluminium flange DN 150 with 2 bonded seals PN10 / PN16		3.5	VJ150
Aluminium flange DN 200 with 2 bonded seals PN10 / PN16		4.5	VJ200
Aluminium flange DN 250 with 2 bonded seals PN10 / PN16 (PN16 on request)		5.3	VJ250
Aluminium flange DN 300 with 2 bonded seals PN10 / PN16 (PN16 on request)		6.7	VJ300
Aluminium flange DN 350 with 2 bonded seals PN10 / PN16 (PN16 on request)		9.1	VJ350
Aluminium flange DN 400 with 2 bonded seals PN10 / PN16 (PN16 on request)		-	VJ400
Aluminium flange DN 500 with 2 bonded seals PN10 / PN16 (PN16 on request)		-	VJ500
Aluminium flange DN 600 with 2 bonded seals PN10 / PN16 (PN16 on request)		-	VJ600

Extension DN 250 to DN 400

Designation	Use	Weight (kg)	Ref.
Expansion flange to increase the drilling capacity of a 50-200 drilling machine from DN 250 to DN 400 - PN10/PN16	Extension	-	VFLASQUE
Angle adapter for drilling DN 400	DN 350 and 400	7.5	VRENVOIANGLE
Flexible tube DN 25 for drilling DN 400, length 4 metres	DN 350 and 400	27	NFLEXIBLE400

NOTE: A safety crosspiece is recommended above a pressure of 10 bar.
See page 32.

Drilling machine accessories DN 50 to 600



Storage boxes



Designation	Use	Weight (kg)	Ref.
Storage box, partitioned to hold the 50-100 drilling machine and associated equipment	Machine 50-100	32	APCAB50100
Wooden storage box, partitioned for the 50-200 drilling machine and associated equipment	Machine 50-200	32	APCAB60200
Wooden storage box, partitioned for DN 250 to 600 extension	Extension 250-600	45	APCAB250600



Test kit

Designation	Use	Weight (kg)	Ref.
Test kit	See page 128	-	VKITSECURITE



Fitted trailer

Designation	Use	Weight (kg)	Ref.
Fitted trailer for under-pressure drilling machine DN 50 to 200. Weight: 252 kg empty, 743 kg with all drilling equipment	Machine 50-200	252	VREMOR50200EQ

Trailer sold without machine and drilling equipment



Drilling machine accessories DN 50 to 600



Spare parts (other references: please contact us)



Designation	Use	Weight (kg)	Ref.
Gasket kit: comprises all the gaskets needed to repair a 50-200 drilling machine	-	0.90	NKITMP60/200
Safety crosspiece for 60/200 machine	-	8.00	VTRAVERSESECURITE
Protection kit 2 housings, 4 pins, 2 clamps	-	0.5	V60200KITPROTECT
Spare flexible tube DN 20 length 4 m for internal combustion engine (Other lengths on request)	-	19.50	NFLEXIBLE60200
Flexible tube DN 25 length 4 metres (for drilling DN 300-400)	-	31	NFLEXIBLE400
Spare ratchet spanner, square 28 for 50-100 or 50-200 drilling machines	-	4.15	VCC28
Oil for air motor	In 2 L cans	1.95	NHUILE
Pin 10x60	-	0.06	V60200REPQ2
Pin 8x40	-	0.03	V60200REPS2
Set of centring pins (4 M16 and 8 M20)	-	3.20	VGOUJONS
Centring pin M16 (sold individually)	-	0.20	VGOUJON16
Centring pin M20 (sold individually)	-	0.30	VGOUJON20

Drilling machine rental



Our rental equipment is delivered in reusable packaging

Rental equipment

Designation
Rental of machine alone, with drive system to suit your requirements (internal combustion, compressed air, hydraulic),
Rental of DN 50 to 600 drilling equipment, including hole cutter, pilot drill bit, tool holder shaft and sealing flange
Rental of extensions for drilling diameters greater than DN 200

- We can rent out machines and drilling equipment from DN 50 to DN 600 (fixed price for 3 days, excluding transport), with or without assistance.

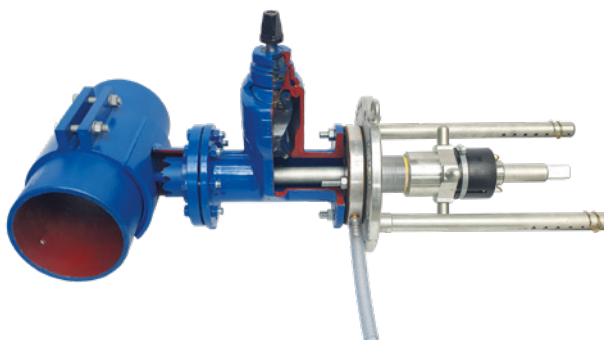
For more information and prices, please contact our sales department.

Servicing and maintenance of drilling machines



A customised offer for the maintenance of your equipment

EIE offers servicing, maintenance and repair of drilling machines. Performed on the manufacturing site, these operations are subject to specific, transparent monitoring to ensure reliable use of the equipment throughout its service life.



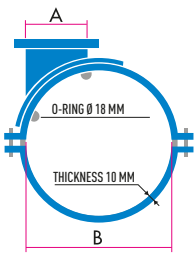
- We can repair and refurbish your drilling machines. **Contact us for a detailed quotation.**

Fixed-flange tapping clamps/saddles

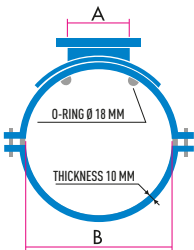


Fixed-flange tapping saddle

Standard saddle / Epoxy coated steel / GEOMET bolts



Tangential outlet saddle
Please contact us



Fixed-flange saddle

Designation	Tolerance	Width	Number of bolts	Weight (kg)	Ref.
Saddle DN 100 x 60	118/126	200	4	16	VC100060
Saddle OD 101 x 60	110/120	200	4	16	VC101060
Saddle DN 100 x 80	118/126	200	4	16	VC100080
Saddle OD 101 x 80	110/120	200	4	16	VC101080
Saddle DN 100 x 100	118/126	200	4	18	VC100100
Saddle OD 101 x 100	110/120	200	4	18	VC101100
Saddle OD 110 x 60	107/113	200	4	16	VC110060
Saddle OD 110 x 80	107/113	200	4	17	VC110080
Saddle OD 110 x 100	107/113	200	4	17	VC110100
Saddle DN 125 x 60	142/148	200	4	21	VC125060
Saddle DN 125 x 80	142/148	200	4	22	VC125080
Saddle DN 125 x 100	142/148	200	4	22	VC125100
Saddle DN 125 x 125	142/148	300	6	26	VC125125
Saddle OD 140 x 60	137/143	200	4	21	VC140060
Saddle OD 140 x 80	137/143	200	4	22	VC140080
Saddle OD 140 x 100	137/143	200	4	23	VC140100
Saddle OD 140 x 125	137/143	300	6	24	VC140125
Saddle DN 150 x 60	168/176	200	4	22	VC150060
Saddle DN 150 x 80	168/176	200	4	23	VC150080
Saddle DN 150 x 100	168/176	200	4	25	VC150100
Saddle DN 150 x 125	168/176	300	6	26	VC150125
Saddle DN 150 x 150	168/176	300	6	38	VC150150
Saddle OD 160 x 60	157/163	200	4	21	VC160060
Saddle OD 160 x 80	157/163	200	4	22	VC160080
Saddle OD 160 x 100	157/163	200	4	22	VC160100
Saddle OD 160 x 125	157/163	300	6	36	VC160125
Saddle OD 160 x 150	157/163	300	6	40	VC160150
Saddle DN 175 x 60	196/201	200	4	23	VC175060
Saddle DN 175 x 80	196/201	200	4	24	VC175080
Saddle DN 175 x 100	196/201	200	4	25	VC175100
Saddle DN 175 x 125	196/201	300	6	38	VC175125
Saddle DN 175 x 150	196/201	300	6	40	VC175150
Saddle DN 175 x 175	196/201	300	6	40	VC175175

Fixed-flange tapping clamps/saddles



Fixed-flange under-pressure saddle

Standard saddle / Epoxy coated steel / GEOMET bolts



Designation	Tolerance	Width	Number of bolts	Weight (kg)	Ref.
Saddle DN 200 x 60	220/227	200	4	24	VC200060
Saddle DN 200 x 80	220/227	200	4	25	VC200080
Saddle DN 200 x 100	220/227	200	4	25	VC200100
Saddle DN 200 x 125	220/227	300	6	40	VC200125
Saddle DN 200 x 150	220/227	300	6	42	VC200150
Saddle DN 200 x 200	220/227	300	6	45	VC200200
Saddle DN 250 x 60	270/279	200	4	27	VC250060
Saddle DN 250 x 80	270/279	200	4	28	VC250080
Saddle DN 250 x 100	270/279	200	4	28	VC250100
Saddle DN 250 x 125	270/279	300	6	43	VC250125
Saddle DN 250 x 150	270/279	300	6	45	VC250150
Saddle DN 250 x 200	270/279	300	6	46	VC250200
Saddle DN 250 x 250	270/279	420	8	81	VC250250
Saddle OD 252 x 60	247/256	200	4	27	VC252060
Saddle OD 252 x 80	247/256	200	4	28	VC252080
Saddle OD 252 x 100	247/256	200	4	28	VC252100
Saddle OD 252 x 125	247/256	300	6	43	VC252125
Saddle OD 252 x 150	247/256	300	6	45	VC252150
Saddle OD 252 x 200	247/256	300	6	46	VC252200
Saddle DN 300 x 60	326/331	200	4	30	VC300060
Saddle DN 300 x 80	326/331	200	4	30	VC300080
Saddle DN 300 x 100	326/331	200	4	30	VC300100
Saddle DN 300 x 125	326/331	300	6	47	VC300125
Saddle DN 300 x 150	326/331	300	6	49	VC300150
Saddle DN 300 x 200	326/331	300	6	51	VC300200
Saddle DN 300 x 250	326/331	420	8	83	VC300250
Saddle DN 300 x 300	326/331	420	8	88	VC300300

CHARACTERISTICS

- **Body:** E 24 steel plate, thickness 8 and 10 mm, rolled and mechanically welded.
- **Seal:** made with an 18 mm O-ring placed in a recess in the steel plate and held on the outside by a counter-plate, which supports the outlet pipe.
- **O-ring:** food-grade EPDM rubber for WATER, NITRILE for GAS.
- **Bolts:** géomet.
- **Paint:**
 - food-grade epoxy on surfaces in contact with WATER.
 - corrosion-resistant on external surfaces.
- **Working pressure:** 30 bar on WATER pipe.
- **Flange gauge:** PN 10 / PN 16 up to DN 150. PN 10 gauge above. PN 25, PN 40 gauge, please contact us.

Fixed-flange tapping clamps/saddles



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Fixed-flange under-pressure saddle

Standard saddle / Epoxy coated steel / GEOMET bolts



Designation	Tolerance	Width	Number of bolts	Weight (kg)	Ref.
Saddle OD 315 x 60	312/318	200	4	30	VC315060
Saddle OD 315 x 80	312/318	200	4	30	VC315080
Saddle OD 315 x 100	312/318	200	4	30	VC315100
Saddle OD 315 x 125	312/318	300	6	47	VC315125
Saddle OD 315 x 150	312/318	300	6	49	VC315150
Saddle OD 315 x 200	312/318	300	6	51	VC315200
Saddle OD 315 x 250	312/318	420	8	83	VC315250
Saddle DN 350 x 60	374/378	200	4	31	VC350060
Saddle DN 350 x 80	374/378	200	4	33	VC350080
Saddle DN 350 x 100	374/378	200	4	33	VC350100
Saddle DN 350 x 125	374/378	300	6	50	VC350125
Saddle DN 350 x 150	374/378	300	6	52	VC350150
Saddle DN 350 x 200	374/378	300	6	54	VC350200
Saddle DN 350 x 250	374/378	420	8	58	VC350250
Saddle DN 350 x 300	374/378	420	8	91	VC350300
Saddle DN 350 x 350	374/378	520	10	120	VC350350
Saddle DN 400 x 60	425/430	200	4	34	VC400060
Saddle DN 400 x 80	425/430	200	4	35	VC400080
Saddle DN 400 x 100	425/430	200	4	36	VC400100
Saddle DN 400 x 125	425/430	300	6	55	VC400125
Saddle DN 400 x 150	425/430	300	6	56	VC400150
Saddle DN 400 x 200	425/430	300	6	57	VC400200
Saddle DN 400 x 250	425/430	420	8	94	VC400250
Saddle DN 400 x 300	425/430	420	8	95	VC400300
Saddle DN 400 x 350	425/430	520	10	118	VC400350
Saddle DN 400 x 400	425/430	520	10	130	VC400400
Saddle DN 450 x 60	476/480	200	4	37	VC450060
Saddle DN 450 x 80	476/480	200	4	38	VC450080
Saddle DN 450 x 100	476/480	200	4	38	VC450100
Saddle DN 450 x 125	476/480	300	6	55	VC450125
Saddle DN 450 x 150	476/480	300	6	60	VC450150
Saddle DN 450 x 200	476/480	300	6	62	VC450200
Saddle DN 450 x 250	476/480	420	8	94	VC450250
Saddle DN 450 x 300	476/480	420	8	96	VC450300
Saddle DN 450 x 350	476/480	520	10	126.5	VC450350

Other dimensions and tolerances on request.

High tolerance tapping clamps/saddles



"High tolerance" tapping saddle

Epoxy coated steel / GEOMET bolts



Designation	Tolerance	Width	N° of bolts	Weight (kg)	Ref.
High tolerance saddle DN 100 x 60	108/128	200	4	13.80	VCGT100060
High tolerance saddle DN 100 x 80	108/128	200	4	14.70	VCGT100080
High tolerance saddle DN 150 x 60	165/185	200	4	17.05	VCGT150060
High tolerance saddle DN 150 x 80	165/185	200	4	17.65	VCGT150080
High tolerance saddle DN 150 x 100	165/185	200	4	18.45	VCGT150100
High tolerance saddle DN 200 x 60	211/231	200	4	18.50	VCGT200060
High tolerance saddle DN 200 x 80	211/231	200	4	19.00	VCGT200080
High tolerance saddle DN 200 x 100	211/231	200	4	20.45	VCGT200100
High tolerance saddle DN 200 x 125	211/231	300	6	26.00	VCGT200125
High tolerance saddle DN 200 x 150	211/231	300	6	33.25	VCGT200150

CHARACTERISTICS

- **Body:** E24 steel, thickness 8 or 10 mm.
- **Seal:** food-grade EPDM rubber.
- **Bolts:** géomet.
- **Paint:** food-grade epoxy on surfaces in contact with water.
- **Working pressure:** 30 bar.
- **Flange:** PN10 gauge.



Made-to-measure branch saddles: please contact us.

Rotating-flange tapping clamps/saddles



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Rotating-flange tapping saddle

The rotating flange enables the valve to be positioned in optimum conditions, especially for branch connections that are not horizontal.



Designation	Branch DN	Weight (kg)	Ref.
Saddle DNxxx with rotating flange branch fitting DN 50 PN 10/16	50	-	VCxxx050BT*
Saddle DNxxx with rotating flange branch fitting DN 60 PN 10/16	60	-	VCxxx060BT*
Saddle DNxxx with rotating flange branch fitting DN 80 PN 10/16	80	-	VCxxx080BT*
Saddle DNxxx with rotating flange branch fitting DN 100 PN 10/16	100	-	VCxxx100BT*
Saddle DNxxx with rotating flange branch fitting DN 125 PN 10/16	125	-	VCxxx125BT*
Saddle DNxxx with rotating flange branch fitting DN 150 PN 10/16	150	-	VCxxx150BT*
Saddle DNxxx with rotating flange branch fitting DN 200 PN 10	200	-	VCxxx200BT*
Saddle DNxxx with rotating flange branch fitting DN 250 PN 10	250	-	VCxxx250BT*
Saddle DNxxx with rotating flange branch fitting DN 300 PN 10	300	-	VCxxx300BT*

* xxx: Nominal diameter (DN) of the pipe

Other options: please contact us.

Tapping clamps/saddles + valve



Tapping saddle + Fitted valve

Designation	Branch DN	Weight (kg)	Ref.
Saddle DNxxx + Valve DN 40 PFA 10/16 bar	40	On request	VCVxxx40*
Saddle DNxxx + Valve DN 50 PFA 10/16 bar	50		VCVxxx50*
Saddle DNxxx + Valve DN 60 PFA 10/16 bar	60		VCVxxx60*
Saddle DNxxx + Valve DN 80 PFA 10/16 bar	80		VCVxxx80*
Saddle DNxxx + Valve DN 100 PFA 10/16 bar	100		VCVxxx100*
Saddle DNxxx + Valve DN 125 PFA 10/16 bar	125		VCVxxx125*
Saddle DNxxx + Valve DN 150 PFA 10/16 bar	150		VCVxxx150*
Saddle DNxxx + Valve DN 200 PFA 10 bar	200		VCVxxx200*
Saddle DNxxx + Valve DN 250 PFA 10 bar	250		VCVxxx250*
Saddle DNxxx + Valve DN 300 PFA 10 bar	300		VCVxxx300*

* xxx: Nominal diameter (DN) of the pipe

Long series gate valve - Other dimensions and PFA: please contact us.

Valve only

Gate valve



Designation	Valve DN	Weight (kg)	Ref.
Gate valve DN 50 PN 10/16	50	11.5	AFVAB50
Gate valve DN 60 PN 10/16	60	15.0	AFVAB60
Gate valve DN 80 PN 10/16	80	16.5	AFVAB80
Gate valve DN 100 PN 10/16	100	21.0	AFVAB100
Gate valve DN 125 PN 10/16	125	28.1	AFVAB125
Gate valve DN 150 PN 10/16	150	36.2	AFVAB150
Gate valve DN 200 PN 10	200	75.0	AFVAB200
Gate valve DN 250 PN 10	250	121.0	AFVAB250
Gate valve DN 300 PN 10	300	181.0	AFVAB300

Long series gate valve - Other dimensions and PFA: please contact us.

Kit for flange



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Kit for flange: seal + bolts



**STAINLESS STEEL BOLTS:
PLEASE CONTACT US**

Designation	Bolts		Weight (kg)	Ref.
	Qty	Dimensions		
Flange seal kit DN 50 - PN 10-16-25	4	M 16 x 60	0.85	NKITBRID050
Flange seal kit DN 60 - PN 10-16	4	M 16 x 60	0.89	NKITBRID060
Flange seal kit DN 80 - PN 10-16	8	M 16 x 60	1.7	NKITBRID080
Flange seal kit DN 100 - PN 10-16	8	M 16 x 80	1.73	NKITBRID100
Flange seal kit DN 125 - PN 10-16	8	M 16 x 80	1.76	NKITBRID125
Flange seal kit DN 150 - PN 10-16	8	M 20 x 90	3.05	NKITBRID150
Flange seal kit DN 200 - PN 10	8	M 20 x 90	3.1	NKITBRID200
Flange seal kit DN 200 - PN 16	12	M 20 x 90	4.52	NKITBRID20016
Flange seal kit DN 250 - PN 10	12	M 20 x 110	4.89	NKITBRID250
Flange seal kit DN 250 - PN 16	12	M 24 x 110	7.35	NKITBRID25016
Flange seal kit DN 300 - PN 10	12	M 20 x 120	5.33	NKITBRID300
Flange seal kit DN 300 - PN 16	12	M 24 x 130	8.35	NKITBRID30016
Flange seal kit DN 400 - PN 10	16	M 24 x 140	14.8	NKITBRID400
Flange seal kit DN 450 - PN 10	20	M 24 x 140	21.9	NKITBRID450
Flange seal kit DN 500 - PN 10	20	M 24 x 140	28	NKITBRID500
Flange seal kit DN 600 - PN 10	20	M 27 x 170	36.6	NKITBRID600
Flange seal kit DN 700 - PN 10	24	M 27 x 170	56	NKITBRID700
Flange seal kit DN 800 - PN 10	24	M 30 x 160	60	NKITBRID800

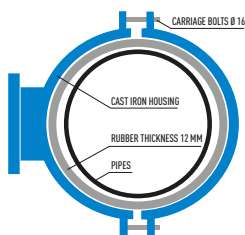
For other dimensions and other nominal pressures: please contact us - Option to supply the ring separately.

Cast iron tapping sleeves



Cast iron flanged "T" tapping sleeve type 101 and type 120

Sleeve with cast iron body, steel fitting and flange, coated / GEOMET bolts



Designation	Tolerance	Weight (kg)	Ref.
Type 101			
Tee 60 x 40 - Type 101	70/77	12	V060040A
Tee 60 x 60 - Type 101	70/77	13	V060060A
Tee 80 x 60 - Type 101	87/98	17	V080060A
Tee 80 x 80 - Type 101	87/98	17	V080080A
Tee 100 x 60 - Type 101	110/120	17	V100060A
Tee 100 x 80 - Type 101	110/120	24	V100080A
Tee 100 x 100 - Type 101	110/120	26	V100100A

Type 120			
Tee 60 x 40 - Type 120	76/87	10	V060040F
Tee 60 x 60 - Type 120	76/87	13	V060060F
Tee 80 x 60 - Type 120	95/103	17	V080060F
Tee 80 x 80 - Type 120	95/103	17	V080080F
Tee 100 x 60 - Type 120	118/126	17	V100060F
Tee 100 x 80 - Type 120	118/126	24	V100080F
Tee 100 x 100 - Type 120	118/126	26	V100100F

Outlet option: Threaded or tapped on request.

CHARACTERISTICS

- **Body:** SG cast iron.
- **Fitting and flange:** stainless steel.
- **Seal:** 12 mm thick rubber covering the entire inner surface of the sleeve.
- **Rubber:** EPDM for WATER, NITRILE for GAS.
- **Bolts:** géomet.
- **Working pressure:** 16 bar for WATER pipe.
- **Manufacturing diameter:** DN 60 x 40 to 100 x 100 mm. For other tapping sizes, please contact us (for other pipe DN's, refer to Type 120 A or VP sleeves)

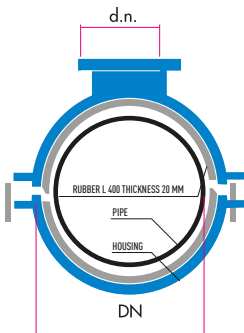
Steel tapping sleeves



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Steel tapping sleeve type 120 A

Epoxy coated steel sleeve / GEOMET bolts



Designation	Tolerance	Bolts	Weight (kg)	Ref.
Sleeve 125 x 60	142/150	8 M 20 x 100 GEOMET	26	VA125060
Sleeve 125 x 80	142/150		28	VA125080
Sleeve 125 x 100	142/150		29	VA125100
Sleeve 125 x 125	142/150		35	VA125125
Sleeve 150 x 60	168/178		37	VA150060
Sleeve 150 x 80	168/178		38	VA150080
Sleeve 150 x 100	168/178		42	VA150100
Sleeve 150 x 125	168/178		45	VA150125
Sleeve 150 x 150	168/178		49	VA150150
Sleeve 175 x 60	193/203		48	VA175060
Sleeve 175 x 80	193/203		49	VA175080
Sleeve 175 x 100	193/203		53	VA175100
Sleeve 175 x 125	193/203		58	VA175125
Sleeve 175 x 150	193/203		59	VA175150
Sleeve 200 x 60	220/230		41	VA200060
Sleeve 200 x 80	220/230		43	VA200080
Sleeve 200 x 100	220/230		45	VA200100
Sleeve 200 x 125	220/230		51	VA200125
Sleeve 200 x 150	220/230		53	VA200150
Sleeve 200 x 200	220/230		55	VA200200
Sleeve 250 x 60	270/280		55	VA250060
Sleeve 250 x 80	270/280		58	VA250080
Sleeve 250 x 100	270/280		59	VA250100
Sleeve 250 x 125	270/280		60	VA250125
Sleeve 250 x 150	270/280		62	VA250150
Sleeve 250 x 200	270/280		68	VA250200
Sleeve 250 x 250	270/280		70	VA250250
Sleeve 300 x 60	322/332		61	VA300060
Sleeve 300 x 80	322/332		64	VA300080

DN 40 and 50 on request - Single width 400 mm.

Steel tapping sleeves



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Steel tapping sleeve type 120 A

Epoxy coated steel sleeve / GEOMET bolts



Designation	Tolerance	Bolts	Weight (kg)	Ref.
Sleeve 300 x 100	322/332	8 M 20 x 100 GEOMET	67	VA300100
Sleeve 300 x 125	322/332		69	VA300125
Sleeve 300 x 150	322/332		70	VA300150
Sleeve 300 x 200	322/332		72	VA300200
Sleeve 300 x 250	322/332		75	VA300250
Sleeve 300 x 300	322/332		115	VA300300
Sleeve 350 x 60	373/383		65	VA350060
Sleeve 350 x 80	373/383		68	VA350080
Sleeve 350 x 100	373/383		70	VA350100
Sleeve 350 x 125	373/383		72	VA350125
Sleeve 350 x 150	373/383		73	VA350150
Sleeve 350 x 200	373/383		110	VA350200
Sleeve 350 x 300	373/383		160	VA350300
Sleeve 400 x 60	422/432		80	VA400060
Sleeve 400 x 80	422/432		90	VA400080
Sleeve 400 x 100	422/432		95	VA400100
Sleeve 400 x 125	422/432		98	VA400125
Sleeve 400 x 150	422/432		102	VA400150
Sleeve 400 x 200	422/432		115	VA400200
Sleeve 400 x 250	422/432		-	VA400250
Sleeve 400 x 300	422/432	-	VA400300	

OTHER DIMENSIONS OR
TOLERANCES ON REQUEST

DN 40 and 50 on request - Single width 400 mm.

CHARACTERISTICS

- **Body:** E 24 steel plate, thickness 10 mm, rolled and mechanically welded.
- **Seal:** 20 mm thick rubber covering the entire inner surface of the sleeve.
- **Rubber:** food-grade EPDM for WATER, NITRILE for GAS.
- **Bolts:** géomet.
- **Paint:** food-grade epoxy on surfaces in contact with WATER.
- **Working pressure:**
16 bar up to and including DN 200.
10 bar from DN 300 to DN 400.
6 bar from DN 500 to DN 600.
- **Manufacturing diameter:** DN 125 x 60 to 1200 x 300 mm.
- **Single width:** 400 mm
- **Use:** branch fitting used on very old pipes (grey cast iron) or fragile materials (asbestos cement).

House connection

Drilling machine - Combination

Tapping clamp/saddle - Multi-material

For technical information on the outside diameters of pipes by material, see p. 136.

Drilling machines

Under-pressure drilling machine - Combination machine - Drilling machine accessories - Combination machine accessories - Drilling tools

Page

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Clamps/ Saddles

Tapping clamps/ saddles - Plugging saddles

Page

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- Create, replace and plug a house connection using a single piece of equipment
- Procedure without interrupting the water supply
- Motorised option for easier installation
- Equipment servicing and maintenance: maintenance packages

- Reliability: coated steel design, integral JDE seal
- Multi-material: can be fitted on rigid and plastic pipes
- Broad range: from Ø50 to Ø325

Under-pressure drilling machine DN 20-40



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Drilling machine DN 20 to 40

To make a house connection



Standard manual

Designation	Use	Weight (kg)	Ref.
Drilling machine capacity DN 20 - 25 - 32 - 40, with swarf discharge plate and feed system. Supplied with plate gasket, 15-mm ratchet spanner and 3-m discharge pipe.	Drilling	5.98	V2040MP

PRESENTATION

- Can be used on almost all existing house connection valves
- The most compact machine on the market

CHARACTERISTICS

- Zinc-plated steel feed system
- Aluminium alloy swarf discharge plate
- EPDM plate seal
- 15-mm square ratchet spanner
- Swarf discharge pipe, length 3 m



Storage case

Designation	Use	Weight (kg)	Ref.
Storage case in blue RAL 5015 with tool tray, dimensions 550 x 300 x 300. With foam padding.	Suitable for drilling or combination machines	9.100	VCOFFRET2040MP

Under-pressure drilling machine DN 20-40



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Compressed-air motor

Designation	Use	Weight (kg)	Ref.
Compressed-air spanner set for drilling machine 20 - 40. Supplied in a case with socket, regulating filter and lubricator, hose and can of oil.	Drilling	8.2	NKITCOMPRESSEUR

PRESENTATION

- Compressed-air spanner supplied in a case with:
- 15-mm square connecting socket for shaft \varnothing 17
- Regulating filter and lubricator
- Compressed-air supply hose
- Can of oil
- Operating pressure: 7 bar
- Air consumption: 140 l per minute
- Speed of rotation: 150 rpm with no load

Drive system option

- Simple, fast, stand-alone operation (with compressor)
- Ideal for making house connections to all types of pipes*
- Supplied with a regulating filter and lubricator
- Air hose with quick-release coupling at both ends

*Caution: for drilling on DN 40 steel pipes, please contact us.

We can **REPAIR AND REFURBISH YOUR 20 - 40 AND COMBINATION DRILLING MACHINES.**

Please contact us for a detailed quotation.

We also offer **MAINTENANCE PACKAGES** when you buy new machines. **Please contact our sales department.**

— Combination machine: drilling and plugging DN 20-40



Combination machine for drilling and plugging

To make, refurbish or remove a house connection



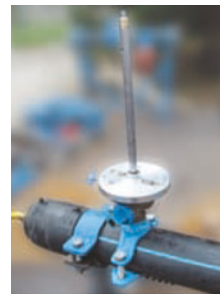
Designation	Use	Weight (kg)	Ref.
1" threaded outlet, feed system, swarf discharge with valve and quick coupling, discharge pipe, 15-mm square ratchet spanner. Capacity DN 20 - 25 - 32 - 40. Storage case included.	Drilling and plugging	7.48	VMAPMIXT

► PRESENTATION

- This machine can be used to replace / remove the tapping clamp/saddle and tapping valve **WITHOUT TURNING OFF THE WATER**
- It can also be used for traditional under-pressure drilled connections when creating a house connection.

■ CHARACTERISTICS

- 1" threaded zinc-plated steel body
- Swarf discharge with valve and quick coupling
- Zinc-plated steel feed system
- Aluminium alloy rod support plate
- EPDM plate seal
- Swarf discharge pipe, length 3 m, with quick coupling
- Complete kit for plugging operations comprising:
 - 1 control rod
 - 1 compression knob
 - 1 hose spanner
 - 1 set of modified hex-head screws (for mounting on flanged valves)
 - 1 stem square to fit piston drill bits
- Storage case included



Storage case

Designation	Use	Weight (kg)	Ref.
Storage case in blue RAL 5015 with tool tray, dimensions 550 x 300 x 300. With foam padding.	Suitable for drilling or combination machines	9.100	VCOFFRET2040MP

— Combination machine: drilling and plugging DN 20-40



E.I.E
GROUPE CLAIRE



Compressed-air motor

Designation	Use	Weight (kg)	Ref.
Compressed-air spanner set for drilling machine 20-40. Supplied in a case with socket, regulating filter and lubricator, hose and can of oil.	Drilling	8.2	NKITCOMPRESSEUR

► PRESENTATION

- Compressed-air spanner supplied in a case with:
- 15-mm square connecting socket for shaft \varnothing 17
- Regulating filter and lubricator
- Compressed-air supply hose
- Can of oil
- Operating pressure: 7 bar
- Air consumption: 140 l per minute
- Speed of rotation: 150 rpm with no load

Drive system option

- Simple, fast, stand-alone operation (with compressor)
 - Ideal for making house connections to all types of pipes*
 - Supplied with a regulating filter and lubricator
 - Air hose with quick-release coupling at both ends
- *Caution: for drilling on DN 40 steel pipes, please contact us.

We can **REPAIR AND REFURBISH YOUR 20 - 40 AND COMBINATION DRILLING MACHINES.**

Please contact us for a detailed quotation.

We also offer **MAINTENANCE PACKAGES** when you buy new machines. **Please contact our sales department.**

Drilling machine accessories DN 20-40



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Tool holder shafts

Designation	Use	Weight (kg)	Ref.
Shaft Ø 17 Lgth 402 M12	Drill bit/Milling cutter DN 20 and 25	0.630	VT17402
Shaft Ø 17 Lgth 402 M14	Drill bit/Milling cutter DN 32 and 40	0.630	VT1740214
Shaft Ø 17 Lgth 500 M12	Drill bit/Milling cutter DN 20 and 25	0.805	VT17500
Shaft Ø 17 Lgth 500 M14	Drill bit/Milling cutter DN 32 and 40	0.805	VT1750014

Shafts of different lengths are available: Please contact us

CHARACTERISTICS

- Zinc-plated steel ø 17
- 15-mm square
- M12 or M14 thread
- Length 402 mm for 20-40 machine
- Length 500 mm for 20-40 and combination machine

Adaptors for valves

Threaded adaptors for valves with Female outlet

Designation	Use	Weight (kg)	Ref.
Adaptor DN 20 Male/Male	For standard HUOT female-thread outlet valves	0.230	VADAPTAENCLIQUETE20
Adaptor DN 25 Male/Male		0.480	VADAPTAENCLIQUETE25
Adaptor DN 32 Male/Male		0.730	VADAPTAENCLIQUETE32
Adaptor DN 40 Male/Male		0.980	VADAPTAENCLIQUETE40
Adaptor DN 20 Male/Female	For standard valve with Male outlet	0.230	VADAPTA20MF
Adaptor DN 25 Male/Female		0.480	VADAPTA25MF
Adaptor DN 32 Male/Female		0.730	VADAPTA32MF
Adaptor DN 40 Male/Female		0.980	VADAPTA40MF
Adaptor DN 20 for ISEO valves	For ISEO or BAYARD valves	0.230	VADAPTAISE020
Adaptor DN 25 for ISEO valves		0.480	VADAPTAISE025
Adaptor DN 32 for ISEO valves		0.730	VADAPTAISE032
Adaptor DN 40 for ISEO valves		0.980	VADAPTAISE040
Adaptor DN 20 Male/Male Thread M33 x 1.5	For ISIFLO valve	0.230	VADAPTAISIDN20
Adaptor DN 25 Male/Male Thread M42 x 1.5		0.480	VADAPTAISIDN25
Adaptor DN 32 Male/Male Thread M52 x 2		0.730	VADAPTAISIDN32
Adaptor DN 40 Male/Male Thread M62 x 2		0.980	VADAPTAISIDN40
Adaptor Male/Male DN 20 G1"	For tapped Gas outlet valve (inches)	0.230	VADAPTA1"
Adaptor Male/Male DN 25 G1"1/4		0.480	VADAPTA1"-1"1/4M
Adaptor Male/Male DN 32 G1"1/2		0.730	VADAPTA1"-1"1/2M
Adaptor Male/Male DN 40 G2"		0.980	VADAPTA1"-2"



Take a look at our compatibility list and you're sure to find the one you need

Drilling machine accessories DN 20-40



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Adaptors for valves

Threaded adaptors for Male outlet valves

Designation	Use	Weight (kg)	Ref.
Adaptor Male/Female DN 20 G1"	VALVE Threaded outlet Gas (inches)	-	VADAPTA20MF
Adaptor Male/Female DN 25 G1"1/4		-	VADAPTA25MF
Adaptor Male/Female DN 32 G1"1/2		-	VADAPTA32MF
Adaptor Male/Female DN 40 G2"		-	VADAPTA40MF

Specific cases on request

Plate adaptors

Designation	Use	Weight (kg)	Ref.
Plate adaptor, Male DN 20	-	0.566	VADAPTAPLATEAU20M
Plate adaptor, Male DN 25		0.595	VADAPTAPLATEAU25M
Plate adaptor, Male DN 32		0.574	VADAPTAPLATEAU32M
Plate adaptor, Male DN 40		0.572	VADAPTAPLATEAU40M
Plate adaptor, Female DN 20	-	0.666	VADAPTAPLATEAU20F
Plate adaptor, Female DN 25		0.799	VADAPTAPLATEAU25F
Plate adaptor, Female DN 32		0.921	VADAPTAPLATEAU32F
Plate adaptor, Female DN 40		1.105	VADAPTAPLATEAU40F

Spare parts

Designation	Use	Weight (kg)	Ref.
Gasket kit to repair drilling machine 20-40	Machine 20-40	0.048	NKITMP2040
Flat gasket for machine plate	Machine 20-40	0.045	APJOL14045
Oil for air motor (2L)	Compressed-air spanner	2.000	NHUILE5
Spare 15-mm ratchet spanner	Combination Machine 20-40	1.580	VCC15
Swarf discharge pipe, lgth 3 m	Machine 20-40	0.666	VTUY2040
Swarf discharge pipe, lgth 3 m, with quick coupling	Combination Machine	0.799	VTUYMIXTE
Pipe lynch pin Ø 8 lgth 28 for coupling	Combination Machine 20-40	0.921	APG0828
Adapter removal key (dimension on flat 66)	Adaptors	0.800	VCLE2040

We can repair and refurbish your 20-40 and combination drilling machines. **Contact us for a detailed quotation.**

DN 20-40 combination drilling machine accessories



Rubber stoppers

Plugging tools for combination machine

Designation	Use	Weight (kg)	Ref.
Plugging shaft DN20 and 25	Temporary plugging	0.779	VTIGEOBT1NG
Plugging shaft DN32 and 40		0.828	VTIGEOBT2
Rubber stopper DN20 with centring cone		0.031	VCAOUT20NG
Rubber stopper DN25		0.037	VCAOUT25NG
Rubber stopper DN32		0.057	VCAOUT32
Rubber stopper DN40		0.096	VCAOUT40



Plugging kit DN 15

DN 15 plugging kit for combination machine

Designation	Use	Weight (kg)	Ref.
DN15 plugging kit comprising: - DN15 drill bit clearance lock - DN15 recalibration drill bit - DN15 lock - DN15 plugging shaft - DN15 rod - Rubber stopper DN15 with centring cone	Temporary plugging	-	VKITOBTURATION15



Permanent plugging kit

Designation	Use	Weight (kg)	Ref.
Permanent plugging kit comprising: - Standard lock - FF2" ball valve - Operating key with knob pin	Permanent plugging	2.42	VKITOBTURATION

DN 20-40 combination drilling machine accessories



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Permanent plugging saddle

With screw-on sealing plug



Designation	Use	Weight (kg)	Ref.
Saddle DN 60	For cast iron pipe Supplied with standard aluminium plug for Ø 15 to 40	2.90	VCOBT060
Saddle DN 80		3.10	VCOBT080
Saddle DN 100		3.50	VCOBT100
Saddle DN 150		3.90	VCOBT150
Saddle DN 200		4.50	VCOBT200
Saddle DN 250		5.20	VCOBT250
Saddle DN 300		7.00	VCOBT300

Other dimensions on request

The **adapters are common to the 20-40 drilling machine** (See page 50).
To be defined when ordering, depending on the brand and type of house connection valve.

They are available for all types of valves on the market: please contact us.

The **drilling tools are common to the 20-40 drilling machine**
(see page 54).

Drilling tools DN 20 to 40



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Drilling tools for drilling and combination machines DN 20 to 40

TOOL RECOMMENDATIONS BASED ON MATERIAL QUALITY

Type of material	Carbide Drill bit	HDPE hole cutter	PVC hole cutter	STUB Drill bit
Ductile cast iron - SG	***	0	0	***
Grey cast iron	***	0	0	**
Steel	**	0	0	*
Pre-stressed concrete	**	0	0	***
"BONNA" concrete	**	0	0	***
Asbestos-cement	**	0	0	***
Earthenware	**	0	0	***
HDPE	*	***	*	*
PVC	*	**	***	*
Biaxially-oriented PVC	0	***	*	0
GRP	**	*	*	0
Fibre	*	**	0	0
Blutop range	SPECIFIC TOOLS: PLEASE CONTACT US			

This table only covers tools sold by EIE

*** Excellent

** Adequate

* Occasional use

0 Not recommended



**STAINLESS STEEL PIPE:
PLEASE CONTACT US**

Drilling tools DN 20 to 40



Cutting tools for drilling and combination machines 20-40



Carbide drill bits

Carbide tipped drill bit

Designation	Use	Weight (kg)	Ref.
Carbide drill bit DN20	Cast iron / steel	0.048	VF20
Carbide drill bit DN25		0.072	VF25
Carbide drill bit DN32		0.128	VF32
Carbide drill bit DN40		0.174	VF40



STUB drill bits

Stub drill bit

Designation	Use	Weight (kg)	Ref.
Stub drill bit DN20	Cast iron Asbestos- cement	0.044	VF20STUB
Stub drill bit DN25		0.083	VF25STUB
Stub drill bit DN32		0.145	VF32STUB
Stub drill bit DN40		0.156	VF40STUB



Flat-tip hole cutter

Flat-tip hole cutter for PVC

Designation	Use	Weight (kg)	Ref.
Flat-tip hole cutter DN20	PVC / PE	0.034	VFR20M
Flat-tip hole cutter DN25		0.049	VFR25M
Flat-tip hole cutter DN32		0.076	VFR32M
Flat-tip hole cutter DN40		0.096	VFR40M



Round-tip hole cutter

Round-tip hole cutter for PE

Designation	Use	Weight (kg)	Ref.
Round-tip hole cutter DN20	PE / PVC	0.035	VFR20
Round-tip hole cutter DN25		0.057	VFR25
Round-tip hole cutter DN32		0.092	VFR32
Round-tip hole cutter DN40		0.156	VFR40



SL round-tip hole cutter

Round-tip hole cutter for high-pressure PE ≥ PN 20

Designation	Use	Weight (kg)	Ref.
Round-tip hole cutter DN20, long series	PE Above 20 bar	0.051	VFR20SL
Round-tip hole cutter DN25, long series		0.073	VFR25SL
Round-tip hole cutter DN32, long series		0.103	VFR32SL
Round-tip hole cutter DN40, long series		0.174	VFR40SL

We can supply tools that can be adapted to fit other machines on the market. **Please do not hesitate to contact us.**

Drilling tools DN 20 to 40



Cutting tools for drilling and combination machines 20-40



Carbide tipped round-tip hole cutters

Carbide tipped round-tip hole cutter

Designation	Use	Weight (kg)	Ref.
Carbide tipped round-tip hole cutter DN 20	Cast iron / steel	0.060	VFRAISE20
Carbide tipped round-tip hole cutter DN 25		0.080	VFRAISE25
Carbide tipped round-tip hole cutter DN 32		0.106	VFRAISE32
Carbide tipped round-tip hole cutter DN 40		0.180	VFRAISE40



BLUTOP drilling tool

"BLUTOP" drilling tool for pipes

Designation	Use	Weight (kg)	Ref.
Complete BLUTOP D19 drilling tool	"BLUTOP" or Steel Pipes *	0.150	VPAM19
Complete BLUTOP D24 drilling tool		0.150	VPAM24
Complete BLUTOP D30 drilling tool		0.150	VPAM30
Complete BLUTOP D38 drilling tool		0.200	VPAM38



BLUTOP hole saws

"BLUTOP" replacement cutting tools

Designation	Use	Weight (kg)	Ref.
Hole saw ø 19 (DN20)	"BLUTOP" or Steel Pipes *	0.060	NPAM19
Hole saw ø 24 (DN25)		0.090	NPAM24
Hole saw ø 30 (DN32)		0.130	NPAM30
Hole saw ø 38 (DN40)		0.160	NPAM38



Pilot drill bit

Pilot drill bit ø 8 for BLUTOP tools		0.031	VPAMFORETDN8
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* Requires the use of an 18-volt electric screw gun

We can supply tools that can be adapted to fit other machines on the market.
Please do not hesitate to contact us.

Drilling tools DN 20 to 40



Cutting tools for drilling and combination machines 20-40



M12 nipple



M12M14 nipple



M14F12 taper



M12F14 taper

Cutting tool adapters for shafts with tapped ends

Designation	Use	Weight (kg)	Ref.
Male/Male nipple M12	E.I.E tools DN 20 and DN 25	0.036	VFMAMM1212
Male/Male nipple M12/M14	E.I.E tools DN 32 and DN 40	0.046	VFMAMM1214

Cutting tool adapters for shafts with threaded ends

Designation	Use	Weight (kg)	Ref.
Male/Female taper M14/F12	E.I.E tools DN 20 and DN 25	0.036	VFREDM1214
Male/Female taper M12/F14	E.I.E tools DN 32 and DN 40	0.050	VFREDM14F12

20-40 drilling: adaptation of EIE cutting tools

MACHINES			ADAPTORS			
			M-M nipple M12 / M12	M-M nipple M12 / M14	M-F taper M14 / M12	M-F taper M12 / M14
			Inlet: M12 thread Outlet: M12 thread	Inlet: M12 thread Outlet: M14 thread	Inlet: M12 tap Outlet: M14 thread	Inlet: M14 tap Outlet: M12 thread
Manufacturer	Toll holder shaft		VFMAMM1212	VFMAMM1214	VFREDM1214	VFREDM14F12
HUOT	Male fitting	M14 thread				yes
SAINTE-LIZAIGNE	With MM adaptor M12 (ref ADA 229)	M12 thread			yes	
	Female fitting	M12 tap	yes	yes		
PAMCO	Female fitting	M12 tap	yes	yes		
WIMPLEX	Male fitting	M14 thread				yes
BAYARD	Integral tool					

Tapping clamps/saddles - Plastic pipes



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Saddle for PVC/HDPE pipes with JDE seal

Epoxy-coated steel saddle / Zinc-plated steel bolts / Integral JDE seal

Designation OD	Small boss		Large boss	
	Weight (kg)	Ref.	Weight (kg)	Ref.
50	1.30	NCPB050JDE	-	-
63	1.55	NCPB063JDE	1.75	NCGB063JDE
75	1.65	NCPB075JDE	1.85	NCGB075JDE
90	1.85	NCPB090JDE	2.05	NCGB090JDE
110	2.08	NCPB110JDE	2.28	NCGB110JDE
125	2.20	NCPB125JDE	2.28	NCGB125JDE
140	2.35	NCPB140JDE	2.55	NCGB140JDE
160	2.58	NCPB160JDE	2.78	NCGB160JDE
200	2.75	VCPVCPB200JDE	3.24	VCPVCGB200JDE
225	3.32	VCPVCPB225JDE	3.52	VCPVCGB225JDE
250	3.60	VCPVCPB250JDE	3.80	VCPVCGB250JDE
280	3.93	VCPVCPB280JDE	4.13	VCPVCGB280JDE
315	4.32	VCPVCPB315JDE	4.52	VCPVCGB315JDE
355	4.77	VCPVCPB355JDE	4.97	VCPVCGB355JDE
400	5.27	VCPVCPB400JDE	5.47	VCPVCGB400JDE
450	5.83	VCPVCPB450JDE	6.03	VCPVCGB450JDE
500	6.39	VCPVCPB500JDE	6.59	VCPVCGB500JDE
560	7.06	VCPVCPB560JDE	7.26	VCPVCGB560JDE
630	7.84	VCPVCPB630JDE	8.04	VCPVCGB630JDE
710	8.73	VCPVCPB710JDE	8.93	VCPVCGB710JDE
800	9.74	VCPVCPB800JDE	9.94	VCPVCGB800JDE

CHARACTERISTICS

- Cast steel saddle from OD 50 to OD 200
- Mechanically-welded saddle from OD 225
- Epoxy paint, blue RAL 5015
- M12 zinc-plated steel bolts
- JDE integral seal
- M8 hex-head screw to lock valve



ASK FOR OUR
DATA SHEETS



Please contact us for all your non-standard requirements.

— Tapping clamps/saddles - Plastic pipes



Clamp for PVC/HDPE pipes with flat seal

Epoxy-coated steel clamp / Zinc-plated steel bolts / Flat seal



Designation OD	Small boss		Large boss	
	Weight (kg)	Ref.	Weight (kg)	Ref.
50	1.30	NCPVCPB050	-	-
63	1.55	NCPVCPB063	1.75	NCPVCGB050
75	1.65	NCPVCPB075	1.85	NCPVCGB060
90	1.85	NCPVCPB090	2.05	NCPVCGB080
110	2.08	NCPVCPB110	2.28	NCPVCGB100
125	2.20	NCPVCPB125	2.28	NCPVCGB100
140	2.35	NCPVCPB140	2.55	NCPVCGB125
160	2.58	NCPVCPB160	2.78	NCPVCGB150
200	2.75	NCPVCPB200	3.24	VCPVCGB200
225	3.32	VCPVCPB225	3.52	VCPVCGB225
250	3.60	VCPVCPB250	3.80	VCPVCGB250
280	3.93	VCPVCPB280	4.13	VCPVCGB280
315	4.32	VCPVCPB315	4.52	VCPVCGB315
355	4.77	VCPVCPB355	4.97	VCPVCGB355
400	5.27	VCPVCPB400	5.47	VCPVCGB400
450	5.83	VCPVCPB450	6.03	VCPVCGB450
500	6.39	VCPVCPB500	6.59	VCPVCGB500
560	7.06	VCPVCPB560	7.26	VCPVCGB560
630	7.84	VCPVCPB630	8.04	VCPVCGB630
710	8.73	VCPVCPB710	8.93	VCPVCGB710
800	9.74	VCPVCPB800	9.94	VCPVCGB800

CHARACTERISTICS

- Cast steel saddle from OD 50 to OD 200
- Mechanically-welded saddle from OD 225
- Epoxy paint, blue RAL 5015
- M12 zinc-plated steel bolts
- Flat seal (except large boss from OD 63 to OD 160)

Tapping clamps/saddles - Cast iron pipes



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Saddle for cast iron pipes with JDE seal

Epoxy-coated steel clamp / GEOMET bolts / Integral JDE seal



Designation DN	Operating range	Small boss		Large boss	
		Weight (kg)	Ref.	Weight (kg)	Ref.
R 40	50 to 62	1.30	NCFPB040JDE	-	-
R 50	63 to 74	1.44	NCFPB050JDE	1.54	NCFGB050JDE
R 60	75 to 89	1.54	NCFPB060JDE	1.62	NCFGB060JDE
R 80	90 to 109	1.62	NCFPB080JDE	1.85	NCFGB080JDE
R 100	110 to 135	1.84	NCFPB100JDE	2.09	NCFGB100JDE
R 125	136 to 159	1.33	NCFPB125JDE	2.45	NCFGB125JDE
R 150	160 to 175	2.46	NCFPB150JDE	2.62	NCFGB150JDE
R 175	175 to 211	2.60	NCFPB175JDE	2.76	NCFGB175JDE
R 200	212 to 233	2.70	NCFPB200JDE	2.90	NCFGB200JDE
R 225	234 to 269	3.00	NCFPB225JDE	3.20	NCFGB225JDE
R 250	270 to 290	3.62	NCFPB250JDE	3.72	NCFGB250JDE
R 275	291 to 310	3.90	NCFPB275JDE	4.10	NCFGB275JDE
R 300	311 to 326	4.10	NCFPB300JDE	4.30	NCFGB300JDE
R 350	375 to 385	6.40	NCFPB350MDJDE	6.60	NCFGB350MDJDE
R 400	426 to 436	7.30	NCFPB400MDJDE	7.50	NCFGB400MDJDE
R 450	477 to 489	8.15	NCFPB450MDJDE	8.35	NCFGB450MDJDE
R 500	529 to 541	9.10	NCFPB500MDJDE	9.30	NCFGB500MDJDE
R 600	630 to 646	11.00	NCFPB600MDJDE	11.20	NCFGB600MDJDE

(R) Raguet by E.I.E

Other dimensions on request

CHARACTERISTICS

- Forged steel saddle from DN 40 to DN 600
- Mechanically-welded saddle from DN 700
- Epoxy paint, blue RAL 5015
- GEOMET 500B coated M16 bolts
- JDE integral seal
- M8 hex-head screw to lock valve



ASK FOR OUR
DATA SHEETS



Please contact us for all your non-standard requirements.

Tapping clamps/saddles - Cast iron pipes



E.I.E
GROUPE CLAIRE

Saddle for cast iron pipes with DS seal

Epoxy-coated steel clamp / GEOMET bolts / Integral DS seal



Designation DN	Operating range	Small boss		Large boss	
		Weight (kg)	Ref.	Weight (kg)	Ref.
60	68 to 88	1.54	NCFPB060	1.62	NCFGB060
80	88 to 109	1.62	NCFPB080	1.85	NCFGB080
100	109 to 129	1.84	NCFPB100	2.09	NCFGB100
125	129 to 153	1.33	NCFPB125	2.45	NCFGB125
150	155 to 180	2.46	NCFPB150	2.62	NCFGB150
200	210 to 238	2.70	NCFPB200	2.90	NCFGB200
250	274 to 280	3.62	NCFPB250	3.72	NCFGB250
300	326 to 334	4.10	NCFPB300	4.30	NCFGB300
350	374 to 378	8.29	VCFPB350NG	8.54	VCFGB350NG
400	425 to 429	9.40	VCFPB400NG	9.65	VCFGB400NG
450	476 to 480	10.50	VCFPB450NG	10.75	VCFGB450NG
500	528 to 532	11.62	VCFPB500NG	11.86	VCFGB500NG
600	631 to 635	13.84	VCFPB600NG	14.08	VCFGB600NG
700	734 to 738	16.05	VCFPB700NG	16.30	VCFGB700NG
800	838 to 842	18.27	VCFPB800NG	18.52	VCFGB800NG
900	941 to 945	20.49	VCFPB900NG	20.74	VCFGB900NG
1000	1044 to 1048	22.71	VCFPB1000NG	22.95	VCFGB1000NG
1100	1147 to 1151	24.91	VCFPB1100NG	25.16	VCFGB1100NG
1200	1251 to 1255	27.14	VCFPB1200NG	27.39	VCFGB1200NG

Other dimensions on request

CHARACTERISTICS

- Forged steel saddle from DN 60 to DN 300
- Mechanically-welded saddle from DN 350
- Epoxy paint, blue
- GEOMET 500B coated M16 bolts
- DS integral seal
- M8 hex-head screw to lock valve

Tapping clamps/saddles - Multi-material



Multi-material saddle with JDE seal

Epoxy-coated steel saddle / GEOMET bolts / Integral JDE seal



Designation DN	Operating range	Small boss		Large boss	
		Weight (kg)	Ref.	Weight (kg)	Ref.
R 40	50 to 62	1.30	NCPB040JDE	-	-
R 50	63 to 74	1.44	NCPB050JDE	1.540	NCGB050JDE
R 60	75 to 89	1.54	NCPB060JDE	1.620	NCGB060JDE
R 80	90 to 109	1.62	NCPB080JDE	1.850	NCGB080JDE
R 100	110 to 135	1.84	NCPB100JDE	2.090	NCGB100JDE
R 125	136 to 159	1.33	NCPB125JDE	2.450	NCGB125JDE
R 150	160 to 175	2.46	NCPB150JDE	2.620	NCGB150JDE
R 175	175 to 211	2.60	NCPB175JDE	2.760	NCGB175JDE
R 200	212 to 233	2.70	NCPB200JDE	2.900	NCGB200JDE
R 225	234 to 269	3.00	NCPB225JDE	3.200	NCGB225JDE
R 250	270 to 290	3.62	NCPB250JDE	3.720	NCGB250JDE
R 275	291 to 310	3.90	NCPB275JDE	4.100	NCGB275JDE
R 300	311 to 325	4.10	NCPB300JDE	4.300	NCGB300JDE

(R) Raguet by E.I.E

CHARACTERISTICS

- Forged steel saddle from DN 40 to DN 300
- Epoxy paint, blue RAL 5015
- GEOMET 500B coated M16 bolts
- JDE integral seal
- M8 hex-head screw to lock valve



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DATA SHEETS



Please contact us for all your non-standard requirements.

Plugging clamps/saddles - Cast iron pipes



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Plugging saddles for cast iron pipes

Epoxy coated steel / GEOMET bolts



Designation DN	Weight (kg)	References		
		Ø 90	Ø 125	Ø 175
40	2.0	VC040	-	-
50	2.1	VC050	-	-
60	2.1 / 2.3	VC060	VC060B	-
80	2.4 / 2.5	VC080	VC080B	-
100	2.7 / 2.8	VC0100	VC0100B	-
125	3.0 / 3.1	VC0125	VC0125B	-
150	3.3 / 3.4 / 4.1	VC0150	VC0150B	VC0150C
175	3.6 / 3.7 / 4.4	VC0175	VC0175B	VC0175C
200	4.0 / 4.1 / 4.8	VC0200	VC0200B	VC0200C
250	4.5 / 4.6 / 5.3	VC0250	VC0250B	VC0250C
300	5.0 / 5.1 / 5.8	VC0300	VC0300B	VC0300C
350	5.8 / 5.9 / 6.6	VC0350	VC0350B	VC0350C
400	6.5 / 6.6 / 7.3	VC0400	VC0400B	VC0400C
450	6.6 / 7.0 / 7.7	VC0450	VC0450B	VC0450C
500	8.1 / 8.2 / 8.9	VC0500	VC0500B	VC0500C
600	9.2 / 9.3 / 10.0	VC0600	VC0600B	VC0600C
700	9.5 / 9.9 / 10.6	VC0700	VC0700B	VC0700C
800	10.7 / 11.0 / 12.0	VC0800	VC0800B	VC0800C
900	11.9 / 12.2 / 13.0	VC0900	VC0900B	VC0900C
1000	13.0 / 13.4 / 14.1	VC01000	VC01000B	VC01000C
1100	14.2 / 14.5 / 15.3	VC01100	VC01100B	VC01100C
1200	15.4 / 15.7 / 16.4	VC01200	VC01200B	VC01200C

CHARACTERISTICS

- Forged steel saddle from DN 40 to DN 800
- Mechanically-welded saddle from DN 900
- Epoxy paint, blue RAL 5015
- GEOMET 500B coated M16 bolts
- Cover plate Ø 90-125 and Ø 175
- Supplied without seal

Seal for plugging saddle

Designation	Ref.
Ø 90	NCOJ90
Ø 125	NCOJ125
Ø 175	NCOJ175



Solutions for working on networks

3D valve

ABS system

Plug valve

3D plug valve

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Plugging system

ABS plugging system

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Network management

Wayve smart box

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- Under-pressure fitting with no interruption to the water supply to customers
- Saves time
- Safe installation: leak test before drilling
- Safeguards water resources
- Fitted by EIE-approved companies



- Quick and easy to install: 2 inflatable air-bag stoppers inserted
- Compact working area
- Limited water shut-off area
- Minimised network drainage

3D valve

3D plug valve

Cast iron and steel pipes: DN 80 to DN 600

PVC pipes: DN 75 to DN 200

PE and AC pipes: please contact us



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Quick and trouble-free installation

Under-pressure fitting with no interruption to the water supply to customers

A range of uses to respond to operating requirements

- Next to a defective valve
- Between two valves to create smaller cross-sections
- Upstream and downstream of a bypass to adapt to changes to the network, without disturbing customers

Safe and reliable installation

- Leak test carried out before tapping
- Network protected from all intrusions / accidental pollution
- Must be installed by companies approved by EIE (please contact us)

WATER SUPPLY SERVICE CONTINUITY

Work carried out without cutting off the water supply

TIME SAVED FOR THE TEAMS

Under-pressure installation

OPTIMISES NETWORK USAGE

Isolating points can be easily added to more effectively interlink your network

CONSERVES RESOURCES

No need to drain the network

No waste produced

Less disinfectant used



3D plug valve



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3D plug valve

For cast iron and steel pipes: DN 80 to DN 600 / For PVC pipes: DN 75 to DN 200 / For PE and AC: please contact us



ADVANTAGES

- Fitted without shutting off the water supply (service continuity for the customer)
- Saves time
- Prevents accidental pollution when fitting
- Installation safety (leak test)
- Conserves resources (no need to drain the network)

Designation	DN	Weight (kg)	Ref.
Under-pressure insertion valve DN 80 - PFA10/16	80		NVANNE3D080
Under-pressure insertion valve DN 100 - PFA10/16	100		NVANNE3D100
Under-pressure insertion valve DN 125 - PFA10/16	125		NVANNE3D125
Under-pressure insertion valve DN 150 - PFA10/16	150		NVANNE3D150
Under-pressure insertion valve DN 200 - PFA10	200		NVANNE3D200
Under-pressure insertion valve DN 250 - PFA10	250		NVANNE3D250
Under-pressure insertion valve DN 300 - PFA10	300		NVANNE3D300
Under-pressure insertion valve DN 400 - PFA10	400		NVANNE3D400
Under-pressure insertion valve DN 500 - PFA10	500		NVANNE3D500
Under-pressure insertion valve DN 600 - PFA10	600		NVANNE3D600



TOOLS

RENTAL OF SPECIFIC TOOLS TO INSTALL THE 3D VALVE comprising:

- Hole cutter and shaft in accordance with nominal diameter
- Tapping lock to match the nominal diameter
- Specific knife gate valve to match the nominal diameter
- Plugging lock to match the nominal diameter
- Accessories associated with fitting the gate (list given for information only and subject to quotation)

Does not include:

- The drilling machine and its drive system
- Return transport of the equipment

The maximum rental period is 3 days

Option to purchase the equipment: please contact us

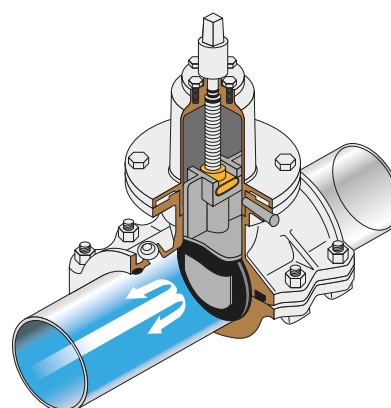
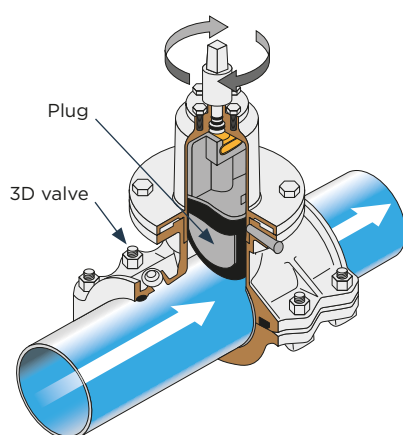
3D plug valve



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3D plug valve

For cast iron and steel pipes: DN 80 to DN 600 / For PVC pipes: DN 75 to DN 200 / For PE and AC: please contact us



USE

- Alongside a defective valve
- To isolate a section of the network
- To create a bypass

ABS system

ABS plugging system

(Air-bag Stopper)

All types of pipes

DN 40 to 200

Max working pressure: 7 bar



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Temporary system

Temporary plugging by inserting 2 air-bag stoppers into the network

Easy to install

- Inserted by under-pressure drilling
- Lightweight equipment

Protected network

- Single-use air-bag stopper to guarantee drinking quality
- No damage to the network
- Less than half the pipe \varnothing perforated

OPTIMUM CONTINUITY OF THE WATER SUPPLY

Limited water shut-off area

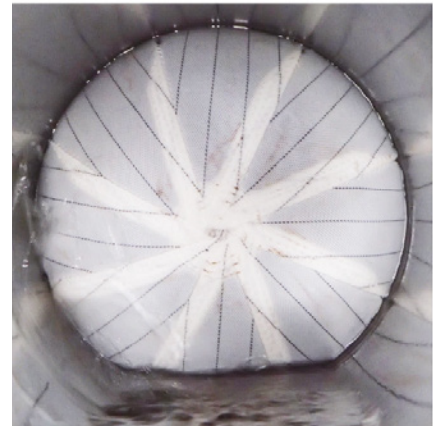
TIME SAVED FOR THE TEAMS

Compact working area

Quick to install

CONSERVES RESOURCES

Network drainage area reduced to a minimum



— ABS plugging system

The ABS system makes it easy to turn the water off locally to carry out repairs. The working area is reduced to a minimum, with less impact on the water supply service and less water wasted as only the necessary section is drained.

The working area is reduced to a minimum, with less impact on the water supply service and less water



AIR-bag STOPPER

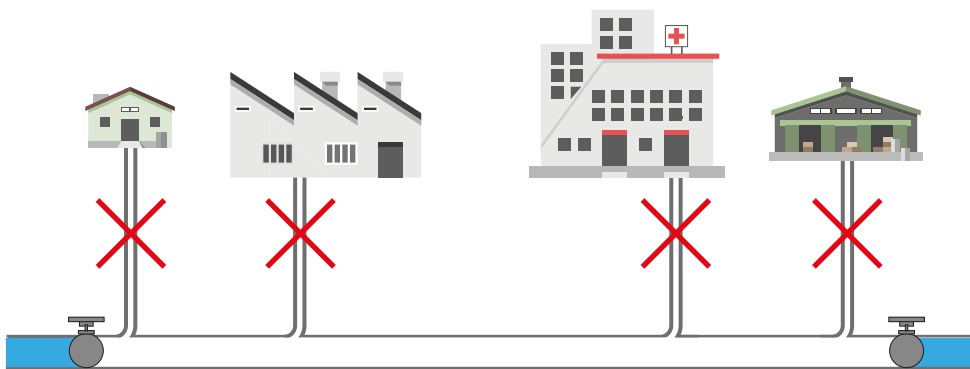
Designation	Diameter	Use	Ref.
ABS Air-bag stopper	40	Temporary plugging	NBABS040
ABS Air-bag stopper	50		NBABS050
ABS Air-bag stopper	75		NBABS070
ABS Air-bag stopper	100		NBABS100
ABS Air-bag stopper	125		NBABS125
ABS Air-bag stopper	150		NBABS150

Please contact us to rent the appropriate insertion device.

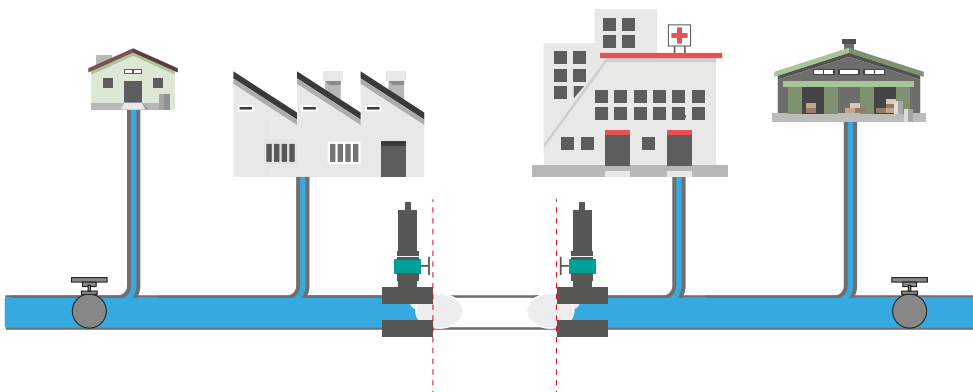
— ABS plugging system



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WITHOUT ABS SYSTEM
The water is cut off between the 2 valves



WITH ABS SYSTEM
Water shut-off is targeted

Wayve smart box

Smart box

Patented, controlled 3-position system

Battery-powered

External sensors

IP 67 / IP 68



WAYVE
GROUPE CLAIRE



1 Automated and customised management

- 3-position smart valve (Open/Closed/Limited Flow)
- Remote controlled

2 Mobile application

- Programming
- System control and geolocation
- History and statistics

3 Web platform

- Data transfer
- Remote control
- Monitoring and geolocation of all equipment
- Notifications
- History and statistics

4 Communications

GSM network connectivity

5 Range of applications

- Non-compliant VCM levels, stagnant or poorly flowing water
- Pipes exposed to frost, water contaminated by heat

MINIMISED OPERATING COSTS

Water is replenished automatically
and under controlled conditions
Fewer team movements

WATER QUALITY IS PRESERVED

PIPES PROTECTED FROM EXTREME TEMPERATURES



Watch the **installation tutorials**
on our channel



Wayve CLEAN smart box

Maintaining water quality sometimes poses serious health problems. The consistency of water quality is directly linked to two factors: customer consumption and water temperature. With this device, a flush operation can be organised periodically to automatically replenish the water in

a branch of the network that is not interconnected or in a section where usage is low. By automating the system, water quality is maintained at all times, while controlling the volumes of water that are flushed and limiting the need for teams to move around.



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WAYVE
GROUPE CLAIRE

CLEAN BOX

Smart box / Applications: non-compliant VCM levels, stagnant water, networks with low water circulation, closed circuits

Designation	Ref.
CLEAN box	-

PRESENTATION

- This robust purge system is completely energy self-sufficient, compact and easy to incorporate into existing networks. The application, which can be downloaded onto a smartphone or tablet, uses a Bluetooth connection to: carry out automatic flushing operations at a predefined and reprogrammable frequency, record flushing volumes, and facilitate sampling operations for analysis where necessary.
- **Applications:** non-compliant VCM levels, stagnant water, networks with low water circulation, closed circuits

CHARACTERISTICS

- **Equipment:**
 - DN 15 smart box
 - Programmable CLEAN solution with 3/4" threaded AVC inlet and 3/4" threaded outlet, DN 15, without connector
 - Bluetooth connection
 - Programming of times and volumes, flow restriction
 - Mobile application to download from Playstore or Applestore
 - Pre-equipped for GSM network (subscription not included)
- **Protection:**
 - IP 68 protection class
- **Power supply and battery life:**
 - Self-contained with interchangeable lithium battery
 - Service life 10 years (used every day)
- **Working pressure:** 3 bar (preset pressure reducer supplied)



Wayve CLEAN smart box



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This system can be installed in two versions:



Complete installation with supply of manhole designed for a moving load equivalent to 1.5 T. This load can be increased to 12.5 T by adding a reinforcing frame (optional).



Installation in an existing manhole



TEMP smart box

For above-ground networks and pipes exposed to frost or extreme heat, the TEMP smart box is the turnkey solution. It protects water and networks from extreme temperatures (water quality, pipe bursts) by creating a regular, controlled and automatic flow of water, programmed according to temperature thresholds. Field trips are optimised and operating costs are reduced.

Connected mode enables all the equipment to be managed remotely: valve monitoring and control.

Repair & Connection

Stainless steel articulated repair clamp

Repair collar

Technical information on the external diameters of pipes according to their material, EIE repair parts cross-reference guide see p.136

For information on flange drilling templates, see p.137

Repair couplings/ clamps

Repair couplings/ clamps - Repair saddles

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Repair collars

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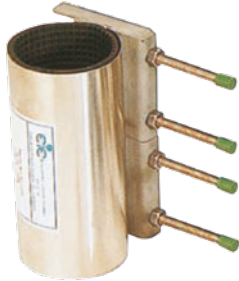
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Made-to-measure repairs

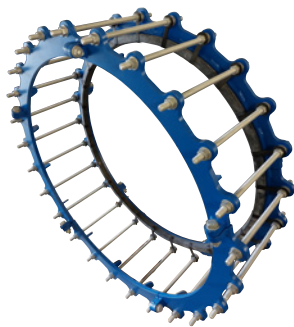
Made-to-measure repair parts

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- Temporary leak repairs on all types of pipes
- Unique patented design: compensates for any angular and in-line offset
- Easy to handle and tighten
- Lightweight to simplify operations in places that are difficult to access



- Repairing a leak on a socket joint or compression fitting
- The largest sizes on the market: up to DN 2000, with the option of manufacturing other made-to-measure sizes
- Easy to fit without the need for spacers or adapter lugs

Flange adaptors

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Sleeve couplings

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Flange converters

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Bolts

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Made-to-measure couplings

Made-to-measure sleeve couplings -
Made-to-measure flange adaptors - Made-to-measure tees

- Made-to-measure reducer couplings -
Other made-to-measure coupling parts

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— Cast iron repair couplings/clamps - Cast iron pipes



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Type 120 repair clamp

SG cast iron clamp / GEOMET bolts



Designation	Tolerance	Weight (kg)	Ref.
Normal length			
Type 120 clamp DN 60 length 140 mm	76 - 87	5.00	V120C060
Type 120 clamp DN 80 length 140 mm	95 - 103	6.00	V120C080
Type 120 clamp DN 100 length 140 mm	118 - 126	7.00	V120C100
Type 120 clamp DN 175 length 180 mm	193 - 203	12.00	N120C175
Double length			
Type 120 clamp DN 60 length 280 mm	76 - 87	10.00	V120L060
Type 120 clamp DN 80 length 280 mm	95 - 103	12.00	V120L080
Type 120 clamp DN 100 length 280 mm	118 - 126	14.00	V120L100
Type 120 clamp DN 125 length 245 mm	142 - 153	15.00	N120L125
Type 120 clamp DN 150 length 295 mm	168 - 184	19.00	N120L150
Type 120 clamp DN 175 length 395 mm	193 - 203	30.00	N120L175
Type 120 clamp DN 200 length 405 mm	220 - 230	38.00	N120L200

■ CHARACTERISTICS

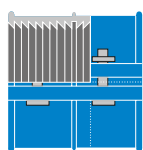
- **Housing:** SG cast iron.
- **Rubber:** EPDM for WATER, NITRILE for GAS.
Can be used on all GREY or G.S. CAST IRON pipes.
The packing seal covers the entire inner surface of the housings.
- **Working pressure:** WATER 16 bar.
- **Bolts:** géomet.

Cast iron repair couplings/clamps - Cast iron pipes

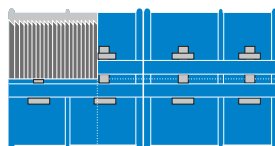


Type 101 repair clamp

SG cast iron clamp / GEOMET bolts



Normal length clamp



Double length clamp

Designation	Tolerance	Weight (kg)	Ref.
Normal length			
Type 101 clamp DN 40 length 120 mm	44 - 50	3.20	NMC04044
Type 101 clamp DN 40 length 120 mm	50 - 56	3.20	NMC04050
Type 101 clamp DN 40 length 140 mm	54 - 61	3.20	NMC040
Type 101 clamp DN 50 length 140 mm	60 - 68	4.40	NMC050
Type 101 clamp DN 60 length 140 mm	70 - 77	5.00	VMC060
Type 101 clamp DN 80 length 140 mm	87 - 98	6.00	VMC080
Type 101 clamp DN 100 length 140 mm	110 - 119	7.00	VMC100
Type 101 clamp DN 125 length 122 mm	133 - 144	8.00	NMC125
Type 101 clamp DN 150 length 150 mm	159 - 170	10.00	NMC150
Type 101 clamp DN 175 length 175 mm	185 - 193	12.50	NMC175
Type 101 clamp DN 200 length 200 mm	214 - 225	14.00	NMC200
Double length			
Type 101 clamp DN 40 SR length 200 mm	54 - 61	5.00	NML040
Type 101 clamp DN 50 length 200 mm	60 - 68	5.00	NML050
Type 101 clamp DN 60 length 280 mm	70 - 77	10.00	VML060
Type 101 clamp DN 80 length 280 mm	87 - 98	12.00	VML080
Type 101 clamp DN 100 length 280 mm	110 - 119	14.00	VML100
Type 101 clamp DN 125 length 245 mm	133 - 144	12.00	NML125
Type 101 clamp DN 150 length 295 mm	159 - 170	18.00	NML150
Type 101 clamp DN 175 length 400 mm	185 - 193	29.00	NML175
Type 101 clamp DN 200 length 405 mm	214 - 225	30.00	NML200
Type 101 clamp DN 225 length 450 mm	241 - 248	42.00	NML225
Type 101 clamp DN 250 length 450 mm	267 - 274	42.00	NML250
Type 101 clamp DN 300 length 500 mm	315 - 326	47.00	NML300

— Cast iron repair couplings/clamps - Multi-material



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Type 102 2-piece repair clamp

SG cast iron clamp / Zinc-plated steel bolts



Designation	Tolerance	Weight (kg)	Ref.
Clamp DN 1/2" length 75 mm	20 - 22	0.60	NM012
Clamp DN 3/4" OD 26.9 length 75 mm	26 - 28	1.20	NM03426
Clamp DN 3/4" OD 29.5 length 75 mm	28.5 - 30.5	1.20	NM03429
Clamp DN 1" length 95 mm	30 - 34	1.20	NM100
Clamp DN 1" 1/2 length 115 mm	44 - 50	1.90	NM112
Clamp DN 1" 1/4 length 95 mm	38 - 43	1.40	NM114
Clamp DN 2" length 135 mm	56 - 60	3.00	NM200

CHARACTERISTICS

- **Housing:** SG cast iron.
- **Rubber:** EPDM for WATER, NITRILE for GAS.
Can be used on all pipes.
Used to connect two pipes of the same OD within the tolerances shown in the table above.
- **Bolts:** zinc-plated steel or stainless steel on request.



2-piece repair clamp "ECO series"

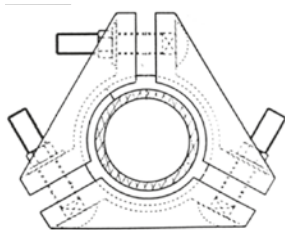
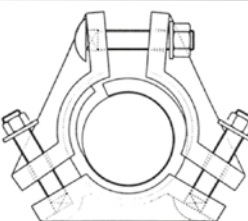
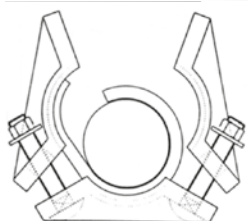
Designation	Tolerance	Weight (kg)	Ref.
Clamp DN 20 Length 120 mm	25 - 28	2.30	NM03429IT
Clamp DN 25 Length 120 mm	31 - 35	2.60	NM100IT
Clamp DN 32 Length 135 mm	41 - 45	3.00	NM114IT
Clamp DN 40 Length 140 mm	48 - 52	3.50	NM112IT
Clamp DN 50 Length 140 mm	57 - 61	3.60	NM200IT

Cast iron repair couplings/clamps - Multi-material



Type 110 3-part repair clamp

SG cast iron clamp / Zinc-plated steel or GEOMET bolts



Assembly diagram

Designation	Tolerance	Weight (kg)	Ref.
Water supply network			
Type 110 clamp DN 40 length 120 mm	48 - 54	5.00	N110040IT
Type 110 clamp DN 60 length 135 mm	69 - 89	5.50	V110060
Type 110 clamp DN 80 length 150 mm	87 - 108	8.00	V110080
Type 110 clamp DN 100 length 170 mm	108 - 128	10.00	V110100
Type 110 clamp DN 125 length 190 mm	135 - 160	12.00	N110125IT
Type 110 clamp DN 150 length 220 mm	159 - 184	17.00	V110150
Type 110 clamp DN 175 length 390 mm	190 - 220	20.00	N110175IT
Type 110 clamp DN 200 length 380 mm	210 - 240	21.00	N110200IT
Type 110 clamp DN 250 length 360 mm	260 - 288	60.00	N110250IT
Type 110 clamp DN 300 length 550 mm	312 - 345	72.00	N110300IT
Type 110 clamp DN 350 length 600 mm	360 - 390	90.00	N110350IT
Type 110 clamp DN 400 length 620 mm	410 - 460	107.00	N110400IT
Type 110 clamp DN 450 length 650 mm	460 - 510	115.00	N110450IT
Type 110 clamp DN 500 length 720 mm	510 - 570	130.00	N110500IT
Type 110 clamp DN 600 length 900 mm	620 - 680	140.00	N110600IT
Gas supply network			
Type 110 clamp DN 60 length 135 mm	69 - 89	5.50	V110060G
Type 110 clamp DN 80 length 150 mm	87 - 108	8.00	V110080G
Type 110 clamp DN 100 length 170 mm	108 - 128	10.00	V110100G
Type 110 clamp DN 150 length 220 mm	159 - 184	17.00	V110150G
Type 110 clamp DN 200 length 380 mm	210 - 240	21.00	V110200G
Type 110 clamp DN 250 length 360 mm	260 - 288	60.00	V110250G

CHARACTERISTICS

- **Housing:** SG cast iron.
- **Rubber:** EPDM for WATER, NITRILE for GAS.
- **Bolts:** zinc-plated or géomet.
- **Seal:** the packing covers the entire inner surface of the housings.
- **Working pressure:** 16 bar for WATER pipes, 4 bar for GAS pipes.

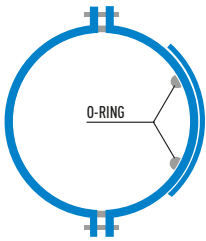
Steel repair saddles



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GROUPE CLAIRE

Steel repair saddle

Epoxy coated steel saddle / GEOMET bolts



Designation	Use	Pipe DN	Ref.
Width 200 mm			
Saddle width 200 mm, O-ring DN 100	For hole up to Ø 100 mm	150	VCR150
Saddle width 200 mm, O-ring DN 100		175	VCR175
Saddle width 200 mm, O-ring DN 100		200	VCR200
Saddle width 200 mm, O-ring DN 100		225	VCR225
Saddle width 200 mm, O-ring DN 100		250	VCR250
Saddle width 200 mm, O-ring DN 100		275	VCR275
Saddle width 200 mm, O-ring DN 100		300	VCR300
Saddle width 200 mm, O-ring DN 100		325	VCR325
Saddle width 200 mm, O-ring DN 100		350	VCR350
Saddle width 200 mm, O-ring DN 100		400	VCR400
Saddle width 200 mm, O-ring DN 100		450	VCR450
Saddle width 200 mm, O-ring DN 100		500	VCR500
Saddle width 200 mm, O-ring DN 100		550	VCR550
Saddle width 200 mm, O-ring DN 100		600	VCR600
Saddle width 200 mm, O-ring DN 100		700	VCR700
Saddle width 200 mm, O-ring DN 100		800	VCR800
Saddle width 200 mm, O-ring DN 100		900	VCR900
Saddle width 200 mm, O-ring DN 100		1000	VCR990
Saddle width 200 mm, O-ring DN 100		1100	VCR991

Other dimensions, please contact us.

CHARACTERISTICS

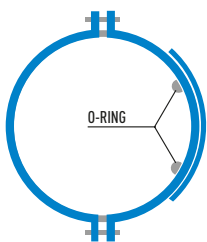
- **Body:** E24 steel plate, thickness 10 mm, rolled and mechanically welded.
- **Seal:** made with an 18-mm section O-ring placed in a recess in the steel plate and held on the outside by a counter-plate.
- **O-ring:** food-grade EPDM rubber for WATER, or NITRILE for GAS.
- **Tolerance:**
 - for CAST iron, same capacity as tapping clamps.
 - for STEEL, A.C. and P.V.C., outside diameter of pipe to be specified.
- **Working pressure:** 30 bar on WATER pipe.
- **Bolts:** géomet.
- **Paint:** Food-grade epoxy on surfaces in contact with WATER.
- **Use:** repairs a leak in a pipe with a clearly defined hole.
Fast, permanent repair of a hole in a pipe. Plugging of a tap to be removed.

Steel repair saddles



Steel repair saddle

Epoxy coated steel saddle / GEOMET bolts



Designation	Use	Pipe DN	Ref.
Width 300 mm			
Saddle width 300 mm, O-ring DN 200	For hole up to Ø 200 mm	250	VCR250A
Saddle width 300 mm, O-ring DN 200		300	VCR300A
Saddle width 300 mm, O-ring DN 200		350	VCR350A
Saddle width 300 mm, O-ring DN 200		400	VCR400A
Saddle width 300 mm, O-ring DN 200		450	VCR450A
Saddle width 300 mm, O-ring DN 200		500	VCR500A
Saddle width 300 mm, O-ring DN 200		600	VCR600A
Saddle width 300 mm, O-ring DN 200		650	VCR650A
Saddle width 300 mm, O-ring DN 200		700	VCR700A
Saddle width 300 mm, O-ring DN 200		800	VCR800A
Saddle width 300 mm, O-ring DN 200		900	VCR900A
Saddle width 300 mm, O-ring DN 200	1000	VCR990A	

Other dimensions, please contact us.

OTHER DIMENSIONS OR TOLERANCE ON REQUEST please contact us

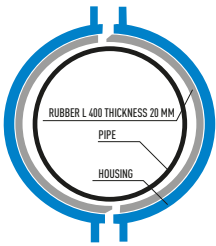
NOTE: For breaks and connections of 2 pipes end to end, refer to type 120 and 101 couplings on page 80; type 110 couplings on page 83; stainless steel couplings on pages 90 to 95, or steel couplings on page 86.

Steel repair couplings/clamps



2-piece steel clamps, type 120 A

Steel clamp / GEOMET bolts



Designation	Tolerance	Weight (kg)	Ref.
Type 120 A - Single length 400 mm			
Clamp, Type 120 A DN 125	142 - 152	26	V120A125L
Clamp, Type 120 A DN 150	168 - 178	32	V120A150L
Clamp, Type 120 A DN 175	193 - 203	40	V120A175L
Clamp, Type 120 A DN 200	220 - 230	42	V120A200L
Clamp, Type 120 A DN 250	270 - 280	51	V120A250L
Clamp, Type 120 A DN 300	322 - 332	58	V120A300L
Clamp, Type 120 A DN 350	373 - 383	63	V120A350L
Clamp, Type 120 A DN 400	422 - 432	73	V120A400L
Clamp, Type 120 A DN 450	475 - 485	79	V120A450L
Clamp, Type 120 A DN 500	526 - 536	86	V120A500L
Clamp, Type 120 A DN 600	628 - 638	97	V120A600L
Clamp, Type 120 A DN 700	733 - 743	105	V120A700L
Clamp, Type 120 A DN 800	837 - 847	115	V120A800L
Clamp, Type 120 A DN 900	940 - 950	135	V120A900L

CHARACTERISTICS

- **Body:** E24 steel plate, thickness 10 mm, rolled and mechanically welded.
- **Seal:** 20 mm thick rubber covering the entire inner surface of the clamp.
- **Rubber:** food-grade EPDM for WATER or NITRILE for GAS.
- **Single length:** 400 mm.
- **Bolts:** géomet.
- **Paint:** Epoxy on request.
- **Working pressure:** 16 bar up to and including DN 200. 10 bar from DN 300 to DN 400. 6 bar from DN 500 to DN 600.
- **Manufacturing diameter:** 125 to 1200 mm.

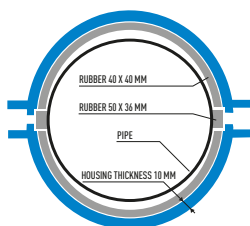
Steel repair couplings/clamps



E.I.E
GROUPE CLAIRE

2-piece steel clamps, type VP

Epoxy coated steel clamp / GEOMET bolts



Designation	Tolerance	Weight (kg)*	Ref.
TYPE VP - Length 200 mm (LN)			
Clamp, Type VP DN 250 LN	275 - 280	-	VVC250
Clamp, Type VP DN 300 LN	326 - 331	-	VVC300
Clamp, Type VP DN 350 LN	374 - 379	-	VVC350
Clamp, Type VP DN 400 LN	425 - 430	-	VVC400
Clamp, Type VP DN 450 LN	476 - 481	-	VVC450
Clamp, Type VP DN 500 LN	528 - 533	-	VVC500
Clamp, Type VP DN 600 LN	631 - 636	-	VVC600
Clamp, Type VP DN 650 LN	683 - 688	-	VVC650

TYPE VP - Length 400 mm (LD)			
Clamp, Type VP DN 250 LD	275 - 280	-	VVL250
Clamp, Type VP DN 300 LD	326 - 331	-	VVL300
Clamp, Type VP DN 350 LD	374 - 379	-	VVL350
Clamp, Type VP DN 400 LD	425 - 430	-	VVL400
Clamp, Type VP DN 450 LD	476 - 481	-	VVL450
Clamp, Type VP DN 500 LD	528 - 533	-	VVL500
Clamp, Type VP DN 600 LD	631 - 636	-	VVL600
Clamp, Type VP DN 650 LD	683 - 688	-	VVL650
Clamp, Type VP DN 700 LD	735 - 740	-	VVL700
Clamp, Type VP DN 800 LD	838 - 843	-	VVL800

* Weight: please contact us

Other lengths on request

CHARACTERISTICS

- **Body:** E24 steel plate, thickness 10 mm, rolled and mechanically welded.
- **Seal:** provided by a 40 x 40 circumferential rubber extrusion at each end and a 50 x 36 longitudinal extrusion between the jaws.
- **Rubber:** EPDM for WATER.
- **Width:** 200 or 400 mm.
- **Bolts:** géomet.
- **Paint:** Food-grade epoxy on surfaces in contact with water.
- **Working pressure:** 16 bar up to and including DN 200. 10 bar from DN 300 to DN 400. 6 bar from DN 500 to DN 600.

— Steel repair couplings/clamps - on PVC socket joint



PRESENTATION

- To REPAIR A LEAKING PVC SOCKET JOINT WITHOUT interrupting the water supply.
- MORE EFFICIENT AND SAFER than traditional solutions.



Repair clamp on PVC socket joint

Epoxy coated steel clamp / GEOMET bolts

Designation	Use	Weight (kg)	Ref.
Assembled in 2 parts			
Repair clamp DN 63	PVC socket joint	6	VMANCHONPVC63
Repair clamp DN 75		6.7	VMANCHONPVC75
Repair clamp DN 90		7	VMANCHONPVC90
Repair clamp DN 110		8.5	VMANCHONPVC110
Repair clamp DN 125		10	VMANCHONPVC125
Repair clamp DN 140		10.5	VMANCHONPVC140
Repair clamp DN 160		11	VMANCHONPVC160

Other dimensions: please contact us.

CHARACTERISTICS

- **Body:** E24 steel plate, rolled and mechanically welded.
- **Rubber:** food-grade EPDM for WATER
- **Bolts:** géomet, stainless steel on request.
- **Paint:** Food-grade epoxy on surfaces in contact with water.
- **Working pressure:** 16 bar.



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Steel repair couplings/clamps - on PE sleeve



Repair clamp on PE sleeve

Epoxy coated steel clamp / GEOMET bolts



PRESENTATION

- To REPAIR A LEAKING PVC CLAMP WITHOUT interrupting the water supply.
- MORE EFFICIENT AND SAFER than traditional solutions.

Designation	Use	Weight (kg)	Ref.
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Assembled in 2 parts
Secured by 2 external clamps to compensate for expansion.

Repair clamp DN 200	PE repair clamp	100	VMANCHONPE200
Repair clamp DN 250		95	VMANCHONPE250
Repair clamp DN 280		100	VMANCHONPE280
Repair clamp DN 315		110	VMANCHONPE315
Repair clamp DN 355		124	VMANCHONPE355
Repair clamp DN 400		152	VMANCHONPE400

Other dimensions: please contact us.



CHARACTERISTICS

- **Body:** E24 steel plate, rolled and mechanically welded.
- **Rubber:** food-grade EPDM for WATER
- **Bolts:** GEOMET, stainless steel on request.
- **Paint:** Food-grade epoxy on surfaces in contact with water.
- **Working pressure:** 16 bar.



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Stainless steel repair couplings/clamps with cast iron jaws



1-piece stainless steel clamp

Stainless steel clamp / Cast iron jaws / Zinc-plated bolts

Designation	Tolerance	Ref.
Length 200 mm		
Stainless steel clamp T.151 - DN 40	48 - 56	NMI1200
Stainless steel clamp T.151 - DN 50	56 - 64	NMI1201
Stainless steel clamp T.151 - DN 50	60 - 68	NMI1202
Stainless steel clamp T.151 - DN 60	68 - 78	NMI1203
Stainless steel clamp T.151 - DN 60	78 - 88	NMI1204
Stainless steel clamp T.151 - DN 80	88 - 98	NMI1205
Stainless steel clamp T.151 - DN 80	98 - 108	NMI1206
Stainless steel clamp T.151 - DN 100	108 - 118	NMI1207
Stainless steel clamp T.151 - DN 100	114 - 126	NMI1208
Stainless steel clamp T.151 - DN 100	126 - 138	NMI1209
Stainless steel clamp T.151 - DN 125	138 - 150	NMI1210
Stainless steel clamp T.151 - DN 125	140 - 153	NMI1211
Stainless steel clamp T.151 - DN 125	150 - 162	NMI1212
Stainless steel clamp T.151 - DN 150	168 - 182	NMI1213
Stainless steel clamp T.151 - DN 175	186 - 198	NMI1214
Stainless steel clamp T.151 - DN 200	210 - 223	NMI1215
Stainless steel clamp T.151 - DN 200	222 - 234	NMI1216
Stainless steel clamp T.151 - DN 200	243 - 255	NMI1217
Stainless steel clamp T.151 - DN 250	273 - 285	NMI1218
Stainless steel clamp T.151 - DN 250	316 - 326	NMI1219
Stainless steel clamp T.151 - DN 300	327 - 340	NMI1220
Stainless steel clamp T.151 - DN 350	368 - 380	NMI1221

Length 300 mm

Stainless steel clamp T.151 - DN 60	78 - 88	NMI1300
Stainless steel clamp T.151 - DN 60	88 - 98	NMI1301
Stainless steel clamp T.151 - DN 80	98 - 108	NMI1302
Stainless steel clamp T.151 - DN 80	108 - 118	NMI1303
Stainless steel clamp T.151 - DN 100	114 - 126	NMI1304
Stainless steel clamp T.151 - DN 100	126 - 138	NMI1305
Stainless steel clamp T.151 - DN 125	138 - 150	NMI1306
Stainless steel clamp T.151 - DN 125	140 - 153	NMI1307
Stainless steel clamp T.151 - DN 125	150 - 162	NMI1308
Stainless steel clamp T.151 - DN 150	168 - 182	NMI1309
Stainless steel clamp T.151 - DN 175	186 - 198	NMI1310
Stainless steel clamp T.151 - DN 200	210 - 223	NMI1311
Stainless steel clamp T.151 - DN 200	222 - 234	NMI1312
Stainless steel clamp T.151 - DN 200	243 - 255	NMI1313
Stainless steel clamp T.151 - DN 250	273 - 285	NMI1314

CHARACTERISTICS

- **Housing:** stainless steel plate, 304 L.
- **Jaws:** SG CAST IRON
- **Bolts:** zinc-plated.
- **Paint:** Epoxy.
- **Rubber:** food-grade EPDM for WATER
- **Working pressure:** 16 bar.

— Stainless steel repair couplings/clamps with cast iron jaws



1-piece stainless steel clamp

Stainless steel clamp / Cast iron jaws / Zinc-plated bolts



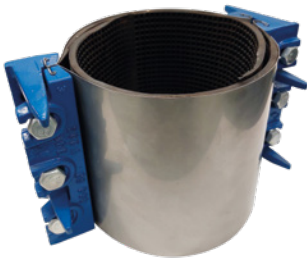
Designation	Tolerance	Ref.
Length 300 mm		
Stainless steel clamp T.151 - DN 250	316 - 326	NMI1315
Stainless steel clamp T.151 - DN 300	327 - 340	NMI1316
Stainless steel clamp T.151 - DN 350	368 - 380	NMI1317
Length 400 mm		
Stainless steel clamp T.151 - DN 100	126 - 138	NMI1400
Stainless steel clamp T.151 - DN 125	138 - 150	NMI1401
Stainless steel clamp T.151 - DN 125	140 - 153	NMI1402
Stainless steel clamp T.151 - DN 125	150 - 162	NMI1403
Stainless steel clamp T.151 - DN 150	168 - 182	NMI1404
Stainless steel clamp T.151 - DN 175	186 - 198	NMI1405
Stainless steel clamp T.151 - DN 200	210 - 223	NMI1406
Stainless steel clamp T.151 - DN 200	222 - 234	NMI1407
Stainless steel clamp T.151 - DN 200	243 - 255	NMI1408
Stainless steel clamp T.151 - DN 250	273 - 285	NMI1409
Stainless steel clamp T.151 - DN 250	316 - 326	NMI1410
Stainless steel clamp T.151 - DN 300	327 - 340	NMI1411
Stainless steel clamp T.151 - DN 350	368 - 380	NMI1412

— Stainless steel repair couplings/clamps with cast iron jaws



2-piece stainless steel clamp

Stainless steel clamp / Cast iron jaws / Zinc-plated bolts



CHARACTERISTICS

- **Housing:** stainless steel plate, 304 L.
- **Jaws:** SG CAST IRON
- **Bolts:** zinc-plated.
- **Paint:** Epoxy.
- **Rubber:** food-grade EPDM for WATER
- **Working pressure:** 16 bar.



Designation	Tolerance	Ref.
Length 200 mm		
Stainless steel clamp T.152 - DN 80	88 - 110	NMI2200
Stainless steel clamp T.152 - DN 100	114 - 137	NMI2201
Stainless steel clamp T.152 - DN 125	138 - 160	NMI2202
Stainless steel clamp T.152 - DN 150	160 - 182	NMI2203
Stainless steel clamp T.152 - DN 175	182 - 202	NMI2204
Stainless steel clamp T.152 - DN 200	217 - 240	NMI2205
Stainless steel clamp T.152 - DN 225	240 - 262	NMI2206
Stainless steel clamp T.152 - DN 250	262 - 284	NMI2207
Stainless steel clamp T.152 - DN 300	324 - 346	NMI2208
Stainless steel clamp T.152 - DN 350	365 - 387	NMI2209
Stainless steel clamp T.152 - DN 400	410 - 432	NMI2210
Length 300 mm		
Stainless steel clamp T.152 - DN 100	114 - 137	NMI2300
Stainless steel clamp T.152 - DN 125	138 - 160	NMI2301
Stainless steel clamp T.152 - DN 150	160 - 182	NMI2302
Stainless steel clamp T.152 - DN 175	182 - 202	NMI2303
Stainless steel clamp T.152 - DN 200	217 - 240	NMI2304
Stainless steel clamp T.152 - DN 225	240 - 262	NMI2305
Stainless steel clamp T.152 - DN 250	262 - 284	NMI2306
Stainless steel clamp T.152 - DN 300	324 - 346	NMI2307
Stainless steel clamp T.152 - DN 350	365 - 387	NMI2308
Stainless steel clamp T.152 - DN 400	410 - 432	NMI2309
Length 400 mm		
Stainless steel clamp T.152 - DN 175	182 - 202	NMI2400
Stainless steel clamp T.152 - DN 200	217 - 240	NMI2401
Stainless steel clamp T.152 - DN 225	240 - 262	NMI2402
Stainless steel clamp T.152 - DN 250	262 - 284	NMI2403
Stainless steel clamp T.152 - DN 300	324 - 346	NMI2404
Stainless steel clamp T.152 - DN 350	365 - 387	NMI2405
Stainless steel clamp T.152 - DN 400	410 - 432	NMI2406

All-stainless steel repair couplings/clamps



1-piece all-stainless steel clamps

Stainless steel clamp / Stainless steel jaws / Stainless steel bolts



Designation	Tolerance	Weight (kg)*	Ref.
Length 200 mm (VIC)			
Stainless steel clamp DN 40 T.141	54 - 58	1.70	VIC054
Stainless steel clamp DN 50 T.141	64 - 68	2.38	VIC064
Stainless steel clamp DN 60 T.141	75 - 82	2.40	VIC075
Stainless steel clamp DN 60 T.141	82 - 90	2.47	VIC082
Stainless steel clamp DN 80 T.141	96 - 103	2.55	VIC096
Stainless steel clamp DN 80 T.141	100 - 110	2.59	VIC100
Stainless steel clamp DN 100 T.141	114 - 124	2.80	VIC114
Stainless steel clamp DN 100 T.141	125 - 135	2.89	VIC125
Stainless steel clamp DN 125 T.141	140 - 150	2.99	VIC140
Stainless steel clamp DN 125 T.141	155 - 165	3.11	VIC155
Stainless steel clamp DN 150 T.141	167 - 177	3.22	VIC167
Stainless steel clamp DN 150 T.141	173 - 183	3.30	VIC173
Stainless steel clamp DN 175 T.141	184 - 194	3.35	VIC184
Stainless steel clamp DN 175 T.141	193 - 203	3.40	VIC193
Stainless steel clamp DN 200 T.141	218 - 228	3.60	VIC218
Stainless steel clamp DN 200 T.141	244 - 254	3.81	VIC244
Stainless steel clamp DN 250 T.141	270 - 280	4.30	VIC270
Stainless steel clamp DN 250 T.141	305 - 315	4.51	VIC325
Stainless steel clamp DN 300 T.141	325 - 335	4.75	VIC325
Stainless steel clamp DN 350 T.141	367 - 377	5.10	VIC367
Stainless steel clamp DN 400 T.141	422 - 432	5.50	VIC422



Length 400 mm (VIL)			
Stainless steel clamp DN 40 T.141	54 - 58	3.40	VIL054
Stainless steel clamp DN 50 T.141	64 - 68	4.68	VIL064
Stainless steel clamp DN 60 T.141	75 - 82	4.76	VIL075
Stainless steel clamp DN 60 T.141	82 - 90	4.94	VIL082
Stainless steel clamp DN 80 T.141	96 - 103	5.10	VIL096
Stainless steel clamp DN 80 T.141	100 - 110	5.18	VIL100
Stainless steel clamp DN 100 T.141	114 - 124	5.60	VIL114
Stainless steel clamp DN 100 T.141	125 - 135	5.68	VIL125
Stainless steel clamp DN 125 T.141	140 - 150	5.98	VIL140
Stainless steel clamp DN 125 T.141	155 - 165	6.22	VIL155
Stainless steel clamp DN 150 T.141	167 - 177	6.44	VIL167
Stainless steel clamp DN 150 T.141	173 - 183	6.50	VIL173
Stainless steel clamp DN 175 T.141	184 - 194	6.64	VIL184
Stainless steel clamp DN 175 T.141	193 - 203	6.80	VIL193
Stainless steel clamp DN 200 T.141	218 - 228	7.20	VIL218
Stainless steel clamp DN 200 T.141	244 - 254	7.62	VIL244
Stainless steel clamp DN 250 T.141	270 - 280	8.60	VIL270

All-stainless steel repair couplings/clamps



1-piece all-stainless steel clamps

Stainless steel clamp / Stainless steel jaws / Stainless steel bolts

Designation	Tolerance	Weight (kg)*	Ref.
Length 400 mm (VIL)			
Stainless steel clamp DN 250 T.141	305 - 315	9.02	VIL305
Stainless steel clamp DN 300 T.141	325 - 335	9.50	VIL325
Stainless steel clamp DN 350 T.141	367 - 377	10.10	VIL367
Stainless steel clamp DN 400 T.141	422 - 432	12.90	VIL422

Other dimensions available, please contact us.

2-piece all-stainless steel clamp

Stainless steel clamp / Stainless steel jaws / Stainless steel bolts

Designation	Tolerance	Weight (kg)*	Ref.
Length 200 mm			
Stainless steel clamp DN 60 T.142	75 - 90	3.40	VIC0752P
Stainless steel clamp DN 80 T.142	90 - 110	3.50	VIC0902P
Stainless steel clamp DN 100 T.142	108 - 128	3.80	VIC1082P
Stainless steel clamp DN 100 T.142	120 - 140	4.00	VIC1202P
Stainless steel clamp DN 125 T.142	138 - 158	4.15	VIC1382P
Stainless steel clamp DN 150 T.142	155 - 175	4.25	VIC1552P
Stainless steel clamp DN 150 T.142	170 - 190	4.40	VIC1702P
Stainless steel clamp DN 175 T.142	185 - 205	4.60	VIC1852P
Stainless steel clamp DN 200 T.142	218 - 238	4.80	VIC2182P
Stainless steel clamp DN 250 T.142	270 - 290	5.30	VIC2702P
Stainless steel clamp DN 300 T.142	311 - 331	5.65	VIC3112P
Stainless steel clamp DN 350 T.142	365 - 385	6.10	VIC3652P
Stainless steel clamp DN 400 T.142	420 - 440	6.65	VIC4202P

Length 400 mm

Stainless steel clamp DN 60 T.142	75 - 90	6.45	VIL0752P
Stainless steel clamp DN 80 T.142	90 - 110	6.60	VIL0902P
Stainless steel clamp DN 100 T.142	108 - 128	7.20	VIL1082P
Stainless steel clamp DN 100 T.142	120 - 140	7.60	VIL1202P
Stainless steel clamp DN 125 T.142	138 - 158	7.85	VIL1382P
Stainless steel clamp DN 150 T.142	155 - 175	8.05	VIL1552P
Stainless steel clamp DN 150 T.142	170 - 190	8.35	VIL1702P
Stainless steel clamp DN 175 T.142	185 - 205	8.70	VIL1852P
Stainless steel clamp DN 200 T.142	218 - 238	9.10	VIL2182P
Stainless steel clamp DN 250 T.142	270 - 290	10.00	VIL2702P
Stainless steel clamp DN 300 T.142	311 - 331	10.70	VIL3112P
Stainless steel clamp DN 350 T.142	365 - 385	11.60	VIL3652P
Stainless steel clamp DN 400 T.142	420 - 440	12.60	VIL4202P

Other dimensions available, please contact us.

CHARACTERISTICS

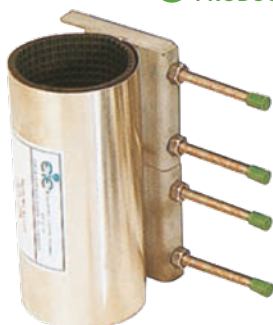
- **Housing:** stainless steel plate, 304 L.
- **Insert:** stainless steel plate, thickness 2 mm.
- **Jaws:** stainless steel plate, thickness 4 mm.
- **Bolts:** stainless steel U-bolts, 12 mm.
- **Rubber:** food-grade EPDM for WATER or NITRILE for GAS.
- **Normal length:** 200 mm
- **Articulated length:** 250 mm
- **Double length:** 400 mm.
- **Working pressure:** 16 bar up to DN 150, 10 bar above.



All-stainless steel repair couplings/clamps



PATENTED PRODUCT



All-stainless steel articulated clamp

Stainless steel clamp / Stainless steel jaws / Stainless steel bolts

Designation	Tolerance	Weight (kg)*	Ref.
Length 250 mm "Articulated"			
Stainless steel clamp DN 40 T.141, Articulated	54 - 58	2.50	VILL054
Stainless steel clamp DN 50 T.141, Articulated	64 - 68	3.10	VILL060
Stainless steel clamp DN 60 T.141, Articulated	65 - 75	3.15	VILL065
Stainless steel clamp DN 60 T.141, Articulated	75 - 82	3.30	VILL075
Stainless steel clamp DN 60 T.141, Articulated	82 - 90	3.37	VILL082
Stainless steel clamp DN 80 T.141, Articulated	96 - 103	3.45	VILL093
Stainless steel clamp DN 80 T.141, Articulated	100 - 110	3.50	VILL100
Stainless steel clamp DN 100 T.141, Articulated	114 - 124	3.70	VILL114
Stainless steel clamp DN 100 T.141, Articulated	125 - 135	3.80	VILL125
Stainless steel clamp DN 125 T.141, Articulated	140 - 150	3.90	VILL140
Stainless steel clamp DN 125 T.141, Articulated	155 - 165	4.00	VILL155
Stainless steel clamp DN 150 T.141, Articulated	167 - 177	4.10	VILL167
Stainless steel clamp DN 175 T.141, Articulated	193 - 203	4.30	VILL193
Stainless steel clamp DN 200 T.141, Articulated	219 - 229	4.50	VILL218
Stainless steel clamp DN 200 T.141, Articulated	244 - 254	4.71	VILL244
Stainless steel clamp DN 250 T.141, Articulated	270 - 280	5.20	VILL270
Stainless steel clamp DN 250 T.141, Articulated	305 - 315	5.45	VILL305
Stainless steel clamp DN 300 T.141, Articulated	325 - 335	5.70	VILL325

For other dimensions up to DN 1200, please consult us.

PRESENTATION

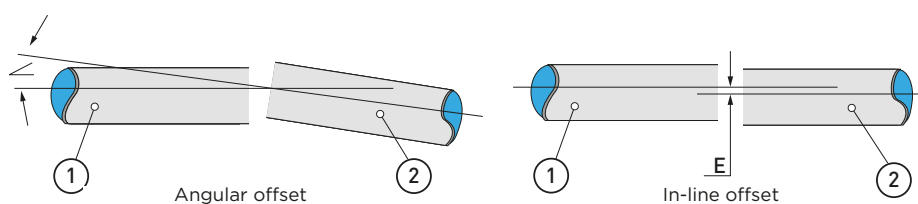
• This clamp is designed to temporarily repair leaks in pipes in the water distribution and wastewater treatment network that have suffered impacts, cracks or even outright bursts.

• **Size range:**
Diameters from DN 40 to DN 300 as standard, up to DN 1200 or larger on request.
It can be used on a wide range of materials such as: Cast iron, steel, PVC, HDPE, asbestos cement, etc.

• **Our stainless steel clamps are "ARTICULATED", an EIE patented product. THIS DESIGN IS UNIQUE ON THE MARKET.**

The process developed for our clamps compensates for:

- large angular offsets of up to 10° (on pipes < DN 300, 3° on larger pipes).
- in-line offsets of up to 15 mm for pipes with nominal diameters < 100 mm, and up to 7 mm for pipes with nominal diameters greater than 100 mm.
- large diameter tolerances (see table above).



These different compensations are achieved thanks to the presence of an articulation line created by 2 separate attachment plates. However, the assembly remains rigid by virtue of the specific design of the jaws.

- Our articulated clamps are easy to handle and tighten, thanks to 2 separate attachments on the same side.
- The honeycomb structure of the rubber stops the leaking flow.
- Its relatively light weight makes it a major asset when working on sites that are difficult or impossible to access with a vehicle, which means that repair parts have to be transported on foot (e.g. in the mountains)

Repair collars



Type 105 repair collar

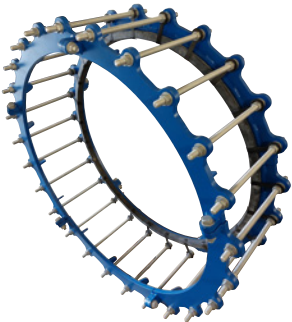
Cast iron or steel collar / Zinc-plated or GEOMET bolts



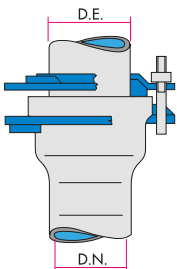
Collar



Compression fitting
(Please contact us)



Steel collar larger
than DN 1100



NOTE: repairing a leak on a socket joint or compression fitting.

Designation	DN	Tolerance	Weight (kg)*	Ref.
Repair collar	40	60 - 100	5	NB040IT
Repair collar	50	70 - 112	5	NB050IT
Repair collar	60	77 - 82	5	NB060IT
Repair collar	80	100 - 106	7	NB080IT
Repair collar	100	118 - 125	9	NB100
Repair collar	125	146 - 156	9.5	NB125IT
Repair collar	150	169 - 180	6.8	NB150
Repair collar	175	204 - 218	10	NB175IT
Repair collar	200	220 - 234	8.3	NB200
Repair collar	225	250 - 266	15.5	NB225IT
Repair collar	250	276 - 294	9	NB250IT
Repair collar	300	328 - 346	11.6	NB300IT
Repair collar	350	380 - 390	14.8	NB350IT

Other dimensions, please contact us.

PRESENTATION

- Used to prevent or repair leaks on a socket joint or collar/clamp.
- Installation with no need to interrupt the water supply.
- Easy to fit without the need for spacers or lugs to match the pipe.
- For use on lead joints, express seals and standard joints.

Repair collars



Type 105 repair collar

Cast iron or steel collar / Zinc-plated or GEOMET bolts



Designation	DN	Tolerance	Weight (kg)*	Ref.
Repair collar	400	425 - 433	21.9	VB400
Repair collar	450	476 - 484	28	VB450
Repair collar	500	528 - 536	36.6	VB500
Repair collar	600	631 - 639	56	VB600
Repair collar	700	734 - 742	60	VB700
Repair collar	800	838 - 846	71	VB800
Repair collar	900	941 - 949	94	VB900
Repair collar	1000	1044 - 1052	112	VB1000
Repair collar	1100	1148 - 1156	129	VB1100
Repair collar	1200	1251 - 1259	268	VB1200
Repair collar	1400	1458 - 1466	286	VB1400
Repair collar	1500	1561 - 1569	316	VB1500
Repair collar	1600	1664 - 1672	362	VB1600
Repair collar	1800	1871 - 1879	388	VB1800
Repair collar	2000	2078 - 2086	426	VB2000

Other dimensions, please contact us.

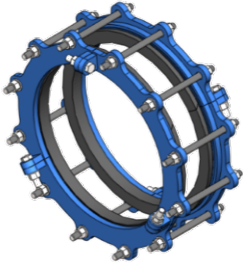
CHARACTERISTICS

- **Body:** SG cast iron up to DN 1100, mechanically-welded steel up to DN 2000.
- **Rubber:** food-grade elastomer.
- **Use:** repair or prevention of a leak on a socket joint. Can be used on lead joints, express seals and standard joints or compression fittings.
- **Bolts:** zinc-plated or géomet.

Repair collars



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Compression fitting on base type 105

Epoxy coated steel compression fitting / GEOMET bolts / Double seal

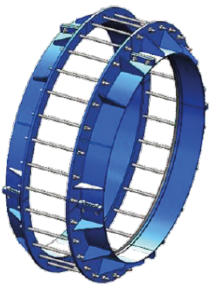
PRESENTATION

- This type of part is used to prevent or repair a leak on a cast iron pipe sleeve coupling.
- Installation requiring no interruption to the water supply.
- Easy to fit without the need for spacers or lugs to match the pipe.
- For use on lead joints, express seals and standard joints.

Made-to-measure parts

CHARACTERISTICS

- **Body:** Mechanically-welded steel, from DN 400.
- **Seal:** provided by the compression of a V-ring gasket. Food-grade elastomer.
- **Paint:** Epoxy.
- **Bolts:** GEOMET.



Collar 105 XL

Repair collar, type 105 XL

Epoxy coated steel collar / GEOMET bolts

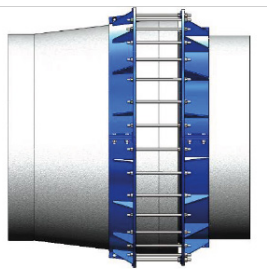
PRESENTATION

- Used to prevent or repair leaks on a socket joint on concrete and steel cylinder core concrete pipes. Installation with no need to interrupt the water supply.
- Easy to fit without the need for spacers or lugs to match the pipe.

Made-to-measure parts

CHARACTERISTICS

- **Body:** Mechanically-welded steel, from DN 300.
- **Seal:** provided by compression of an EPDM circumferential seal.
- **Paint:** Epoxy.
- **Bolts:** GEOMET.

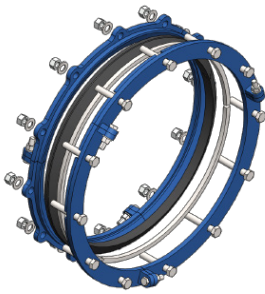


Repair collars



Repair kit on steel plate core for Bonna pipe

Epoxy coated steel kit / GEOMET bolts



DN	Outside ø (mm)	ø Steel plate core (mm)		Ref.
		Male end piece	Female end piece	
400	520	448	480	VKITBONNA400
500	630	548	588	VKITBONNA500
600	730	648	688	VKITBONNA600
700	840	752	792	VKITBONNA700
800	950	852	892	VKITBONNA800
900	1060	956	1006	VKITBONNA900
1000	1164	1056	1106	VKITBONNA1000

Reference in accordance with the dimensional characteristics of concrete pipes with steel cylinder cores type ATM.



PRESENTATION

- Used to repair a socket joint on a "Bonna" steel cylinder core concrete pipe.
- The seal between the male and female end pieces is made by removing the lead joint.

CHARACTERISTICS

- **Body:** mechanically-welded steel.
- **Seal:** EPDM V-ring gasket.
- **Paint:** Epoxy.
- **Bolts:** GEOMET.
- **Contents of the kit:**
 - 1 gasket
 - 1 steel square 14x14 to be welded to the female end piece
 - 1 collar (assembly of 3 to 4 segments depending on DN)
 - 1 companion pipe clamp (assembly of 3 to 4 segments depending on DN)
 - 1 set of M20 bolts to connect the collar/ companion collar (Qty depending on DN)
 - 1 set of M16 bolts to assemble the segments (Qty depending on DN)
 - 1 tube of food-grade glue

Made-to-measure repair parts

Double-cone coupling

Other special repair parts

Steel or stainless steel

All parts in contact with water coated with Epoxy paint with ACS certificate



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Made-to-measure

Highly flexible production facilities

All types of repairs

Parts of all shapes and sizes, for all pipe materials

Example: double-cone coupling

Repair of a leak on a pipe socket joint

Special or one-off repairs

Please contact us

RELIABLE REPAIRS

EIE expertise for a robust, high-quality part

A SOLUTION TAILORED TO YOUR NEEDS

Designed and manufactured to measure to match your environment



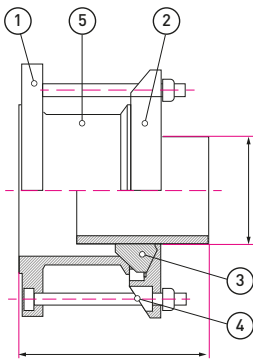
 **ASK FOR OUR DATA SHEETS** 

Flange adaptors



Flange adaptor

Cast iron adaptor / Galvanised bolts



CHARACTERISTICS

- 1 - Ductile cast iron body
 - 2 - Ductile cast iron companion pipe clamp
 - 3 - Food-grade rubber seal
 - 4 - Hot-dipped galvanised bolts (stainless steel available as an option)
 - 5 - Epoxy paint
- Working pressure = 16 bar

Designation	DN	Tolerance	Qty of bolts	Ref.
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Standard tolerance

Standard tolerance adaptor	50	59 - 72	4 Ø 12	NADBR50
	60-65	72 - 85	4 Ø 12	NADBR60
	80	88 - 103	4 Ø 12	NADBR80
	100	109 - 128	4 Ø 12	NADBR100
	125	132 - 146	4 Ø 12	NADBR125
	125 T	138 - 153	4 Ø 12	NADBR125T
	150	159 - 182	4 Ø 16	NADBR150
	175	192 - 210	4 Ø 16	NADBR175
	200	218 - 235	4 Ø 16	NADBR200
	225-250	250 - 267	4 Ø 16	NADBR225
	250	272 - 289	4 Ø 16	NADBR250
	300	322 - 339	4 Ø 16	NADBR300
	300 T	332 - 349	4 Ø 16	NADBR300T

Designation	DN	Tolerance	Qty of bolts	Ref.
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High tolerance

High tolerance adaptor	40 / 50	39 - 69	4 Ø 12	NADBR40GT
	40 / 50 T	46 - 76	4 Ø 12	NADBR40TGT
	50 / 60 / 65	57 - 87	4 Ø 12	NADBR50GT
	65 / 80	78 - 108	4 Ø 12	NADBR65GT
	80	87 - 117	4 Ø 12	NADBR80GT
	100	100 - 130	4 Ø 12	NADBR100GT
	100 T	117 - 147	4 Ø 12	NADBR100TGT
	125	129 - 159	4 Ø 12	NADBR125GT
	150	152 - 182	4 Ø 16	NADBR150GT
	200	198 - 228	4 Ø 16	NADBR200GT
	225 - 250	245-280	4 Ø 16	NADBR225GT
	300	314 - 349	4 Ø 16	NADBR300GT

Other dimensions, please contact us.



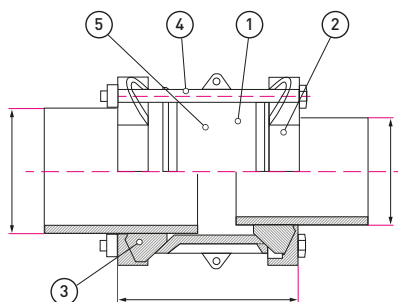
STAINLESS STEEL BOLTS ON REQUEST

Sleeve couplings



Sleeve coupling

Cast iron sleeve / Galvanised bolts



CHARACTERISTICS

- 1 - Ductile cast iron body
 - 2 - Ductile cast iron pipe clamp
 - 3 - Food-grade rubber seal
 - 4 - Hot-dipped galvanised bolts (stainless steel available as an option)
 - 5 - Epoxy paint
- Working pressure = 16 bar

Designation	DN	Tolerance	Qty of bolts	Ref.
Standard tolerance				
Standard tolerance sleeve coupling	40	48 - 60	4 Ø 12	NMR40
	50	59 - 72	4 Ø 12	NMR50
	60 - 65	72 - 85	4 Ø 12	NMR60
	80	88 - 103	4 Ø 12	NMR80
	100	109 - 128	4 Ø 12	NMR100
	125	132 - 146	4 Ø 12	NMR125
	150	159 - 182	4 Ø 16	NMR150
	175	192 - 210	4 Ø 16	NMR175
	200	218 - 235	4 Ø 16	NMR200
	225-250	230 - 247	4 Ø 16	NMR225
	250	272 - 289	4 Ø 16	NMR250
300	322 - 339	4 Ø 16	NMR300	

Designation	DN	Tolerance	Qty of bolts	Ref.
High tolerance				
High tolerance sleeve coupling	40 / 50	39 - 69	4 Ø 12	NMR40GT
	40 / 50 T	46 - 76	4 Ø 12	NMR40TGT
	50 / 60	57 - 87	4 Ø 12	NMR50GT
	65 / 80	78 - 108	4 Ø 12	NMR65GT
	80	87 - 117	4 Ø 12	NMR80GT
	100	100 - 130	4 Ø 12	NMR100GT
	100 T	117 - 147	4 Ø 12	NMR100TGT
	125	129 - 159	4 Ø 12	NMR125GT
	125 T	138 - 168	4 Ø 12	NMR125TGT
	150	152 - 182	4 Ø 16	NMR150GT
	175	172 - 202	4 Ø 16	NMR175GT
	175 T	186 - 216	4 Ø 16	NMR175TGT
	200	198 - 228	4 Ø 16	NMR200GT
	200 - 225	218-253	4 Ø 16	NMR225GT
	225 - 250	245-280	4 Ø 16	NMR250GT
	250 - 275	266-301	4 Ø 16	NMR275GT
	300	314 - 349	4 Ø 16	NMR300GT

Other dimensions, please contact us.



STAINLESS STEEL BOLTS ON REQUEST

Flange converter



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Flange converter

Epoxy coated steel flange

Manufactured up to DN 2000 on request.

Please indicate: Side 1: DN...

PN...

Side 2: DN...

PN...



PRESENTATION

- Flange to connect 2 parts of different DN or PN, made to measure, with the option of single or double studs with nuts and washers.
- Can be made for VP-type studs (Ville de Paris).

CHARACTERISTICS

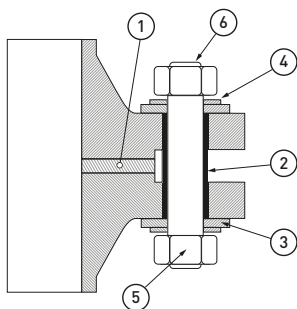
- **Body:** S235 steel plate flange.
- **Paint:** Epoxy.
- **Bolts:** Stainless steel on request.

Bolts



Insulation kit

Zinc-plated steel bolts



CHARACTERISTICS

- 1 - Central seal made from 3T bakelised fabric to standard DIN HGW2083, laminated with two Klinger-Sil seals
- 2 - Insulating tube in HP2065 standard bakelised paper
- 3 - Peripheral insulating washers made of bakelised fabric 4/5/6
- Zinc-plated CI bolts 8.8

Designation	DN	Bolts		Weight (kg)	Ref.
		Qty	Dimensions		
Insulation kit DN 50 - PN10-16	50				NKIT05010
Insulation kit DN 60 - PN10-16	60				NKIT06010
Insulation kit DN 80 - PN10-16	80				NKIT08010
Insulation kit DN 100 - PN10-16	100				NKIT10010
Insulation kit DN 125 - PN10-16	125				NKIT12510
Insulation kit DN 150 - PN10-16	150				NKIT15010
Insulation kit DN 200 - PN10	200				NKIT20010
Insulation kit DN 200 - PN16	200				NKIT20016
Insulation kit DN 250 - PN10	250				NKIT25010
Insulation kit DN 250 - PN16	250				NKIT25016
Insulation kit DN 300 - PN10	300				NKIT30010
Insulation kit DN 300 - PN16	300				NKIT30016

For other dimensions and other PN: please contact us.



ASK FOR OUR DATA SHEET



Kit comprising: central insulating ring, insulating tubes on bolts, insulating washers and complete zinc-plated steel bolts.

For OTHER DIMENSIONS and OTHER PN: please contact us.

Made-to-measure coupling parts

Coupling

Flange adaptor

Tee

Reducer parts

Steel or stainless steel

All parts in contact with water coated with Epoxy paint with ACS certificate



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Stepped coupling



Flange adaptor



Asymmetric tee

Made-to-measure

Highly flexible production facilities

All couplings

Parts of all shapes and sizes, for all pipe materials

Examples:

Stepped coupling

Flange adaptor

Asymmetric tee

Special or one-off coupling

Please contact us

RELIABLE COUPLING

EIE expertise for a robust, high-quality part

A SOLUTION TAILORED TO YOUR NEEDS

Designed and manufactured to measure to match your environment



ASK FOR OUR DATA SHEETS



— Made-to-measure sleeve couplings



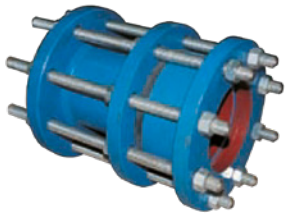
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GROUPE CLAIRE



Stepped coupling

Steel or stainless steel coupling

Use	Ref.
Coupling of 2 smooth-ended pipes of different diameters and/or types.	Please contact us



Restrained coupling

Steel or stainless steel coupling

Use	Ref.
To fit your accessories.	Please contact us

— Made-to-measure flange adaptor



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Flange adaptors

Steel or stainless steel adaptor

Use	Ref.
Coupling of a flanged pipe to a plain-end pipe with different or identical nominal diameters.	Please contact us

ALL PARTS IN CONTACT WITH WATER COATED WITH EPOXY PAINT WITH ACS CERTIFICATE.

Manufacture of parts of all sizes to match your requirements: steel or stainless steel



ASK FOR OUR
DATA SHEETS



Made-to-measure Tees



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Special tee

Steel or stainless steel tee

Use	Ref.
Any type of "Tee" can be made on request.	Please contact us



Asymmetric tee

Steel or stainless steel tee

Use	Ref.
Coupling of 2 pipes with creation of a branch.	Please contact us



Cross tee

Steel or stainless steel tee

Designation	Ref.
Steel or stainless steel cross fitting, any DN or PN.	Please contact us

Made-to-measure reducer couplings



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Reducing flange or Flange converter

Steel or stainless steel flange

Use	Ref.
To connect 2 flanges of different diameters / DN / PN. Option of single or double studs, zinc-plated or stainless steel bolts.	Please contact us



Taper reducer

Steel or stainless steel taper reducer

Designation	Ref.
Taper reducers on request, any DN and any PN.	Please contact us

— Other made-to-measure coupling parts



Temporary standpipe

Use	Ref.
Easy to install on existing site.	Please contact us



Straight segment DN 250 - Outlet DN 100



Stainless steel spool piece DN 150



Stainless steel coupling spool



Paddle spade

Manufacture of parts of all sizes to match your requirements: steel or stainless steel



ASK FOR OUR DATA SHEETS



— Other made-to-measure coupling parts



A few examples of parts in the field



Metalwork

Inspection hatch

Anchor clamps

**Inspection
hatches**

Page

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**Ladders and
Rungs**

Ladders - Rungs

Page

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**Anchor
clamps**

Page

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- Access to water systems
- Assisted, safe opening
- A range of models: from 600x600 to 1200x1000 and other dimensions on request
- Load class A15, B125 or C250



- Make it easier to fit and connect pipes
- Easy to install
- Broad range: from DN 60 to 500, with option of other diameters or lengths on request

Made-to-measure metalwork solutions

Page

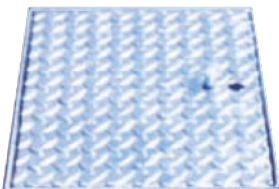
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— Inspection hatches

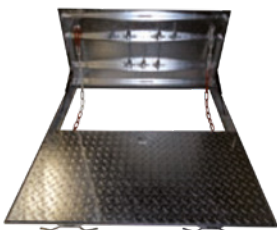


Inspection hatch for meter chamber or technical chamber

Manufactured from S235JR steel, suitable for GALVA to NF A35-503 / Galvanised to NF ISO 1461 in accordance with NFE88-002/NFE85-010 standards



Hatch 3.5T (A15)



Hatch 12.5T (B125)

Dimensions	Permitted load	Weight (kg)	Ref.	
600 x 600	3.5 T (A15)	51	VTRAPPE600	
700 x 700		56	VTRAPPE700	
800 x 800		61	VTRAPPE800	
900 x 900		65	VTRAPPE900	
1000 x 800		65	VTRAPPE	
1000 x 1000		74	VTRAPPE1000	
1000 x 1200		80	VTRAPPE10001200	
1100 x 900		65	VTRAPPE1100	
1100 x 1100		80	VTRAPPE11001100	
1200 x 800		74	VTRAPPE1200	
1200 x 1200		87	VTRAPPE12001200	
1500 x 1500		95	VTRAPPE1500	
1900 x 1000		-	VTRAPPE19001000	
600 x 600		12.5 T (B125)	66	VTRAPPE600B
700 x 700			72	VTRAPPE700B
800 x 800	79		VTRAPPE800B	
850 x 850	82		VTRAPPE850B	
900 x 900	84		VTRAPPE900B	
1000 x 800	85		VTRAPPEB	
1000 x 1000	96		VTRAPPE1000B	
1100 x 900	84		VTRAPPE1100900B	
1150 x 1150	110		VTRAPPE1150B	
1200 x 800	96		VTRAPPE1200B	
1200 x 1000	108	VTRAPPE12001000B		
1000 x 800	25 T (C250)	-	VTRAPPEC	
1000 x 1000		-	VTRAPPE1000C	
1100 x 900		-	VTRAPPE1100900C	
1200 x 800		-	VTRAPPE1200C	
1200 x 1000		-	VTRAPPE12001000C	

Other dimensions on request.



**CAN BE MANUFACTURED
IN ALUMINIUM OR
STAINLESS STEEL**

CHARACTERISTICS AND USE

- **Description:** galvanised steel inspection hatches for cementing in place.
- **Use:** closure of metering, backflow or technical chambers.
- **Health/Safety:** compensating cylinders reduce the force required to open the door. Signalling chains can be used to demarcate the opening (chains must not be used as fall protection). As standard, our inspection hatches can withstand a rolling load of 3.5 metric tons. Opened by EDF triangle key.
- **Standard dimensions:**
1000 x 800 mm - 1200 x 800 mm
1000 x 1000 mm - 1100 x 900 mm

— Inspection hatches

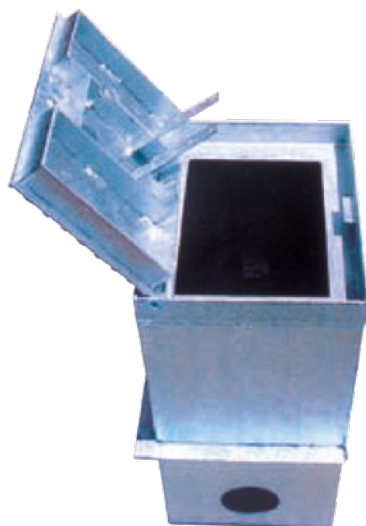


Accessories

Designation	Ref.
Reversible lock (right and left) for hatches	AWSERRURETRAPPE
Key for inspection hatches	VCLES

Other types of parts manufactured by EIE

Example: **Underground galvanised steel enclosure**



Underground galvanised steel enclosure



Magnetic cover lifter, see p. 122

All products manufactured on request up to a maximum load of 25T (standard EN 124)

CAN BE MANUFACTURED IN ALUMINIUM OR STAINLESS STEEL



Ladders



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SPECIFICATIONS

Price per metre of ladder
Masonry bracket (pair)
Mounting bracket (pair)
Handle Ø 25, lgth 1160
Handle bracket
Safety hoop Ø 710, per ml

Ladder

Manufactured from S235JR steel, suitable for GALVA to NF A35-503 / Galvanised to NF ISO 1461 in accordance with NFE88-002/NFE85-010 standards

Composition	Floor to floor dimensions	Ladder length	Ref.
-------------	---------------------------	---------------	------

Standard dimensions: width 350 mm

Composition	Floor to floor dimensions	Ladder length	Ref.
1 element 2 pairs of mounting brackets (to be fixed: hole Ø 12 mm, or to be cemented in place)	991 - 1270	780	
	1271 - 1550	1060	
	1551 - 1830	1340	
	1831 - 2110	1620	
	2111 - 2390	1900	
	2391 - 2670	2180	
	2671 - 2950	2460	
	2951 - 3230	2740	
3231 - 3510	3020		

Rungs



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Rung

Manufactured from S235JR steel, suitable for GALVA to NF A35-503 / Galvanised to NF ISO 1461 in accordance with NFE88-002/NFE85-010 standards

Composition	Ref.
-------------	------

To be cemented in place Ø 25 - Dimensions: 300 x 325 x 300

Smooth rung to be cemented in place - Rung Ø 25 round or square drilled face - Handle Ø 25, lgth 1160	
--	--

To be cemented in place Ø 30 - Dimensions: 300 x 400 x 300

Smooth rung to be cemented in place - Rung Ø 30 round or square drilled face - Handle Ø 30, lgth 1450	
--	--

Anchor clamps



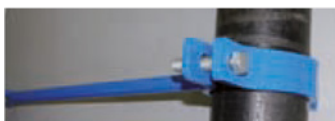
Anchor clamps

Epoxy coated steel saddle / Zinc-plated bolts

Designation	DN	Tolerance	Ref.
Length 520 mm			
Anchor clamps DN 60	60	68 - 88	VCOAN060
Anchor clamps DN 80	80	88 - 109	VCOAN080
Anchor clamps DN 100	100	107 - 128	VCOAN100
Anchor clamps DN 125	125	132 - 152	VCOAN125
Anchor clamps DN 150	150	158 - 182	VCOAN150
Anchor clamps DN 200	200	217 - 234	VCOAN200
Anchor clamps DN 250	250	274	VCOAN250
Anchor clamps DN 300	300	331	VCOAN300
Anchor clamps DN 400	400	426 - 432	VCOAN400
Anchor clamps DN 500	500	529-535	VCOAN500

CHARACTERISTICS

- **Body:** steel.
- **Paint:** Epoxy.
- **Bolts:** zinc-plated steel, diameter 16.
- **Clamp:** width 45 mm.
- **Shaft:** diameter 24 mm or square 22 mm, length 520 mm.
- **Available diameters** (cast iron standard): DN 60, DN 80, DN 100, DN 125, DN 150, DN 200, DN 250, DN 300, DN 400, DN 500. Other lengths or diameters on request



ANCHOR CLAMPS FOR PVC AND PE ON REQUEST

Made-to-measure metalwork solutions



Drawing on its **expertise** and **highly flexible production facilities**, EIE can respond to **all your metalwork requirements**.

If you have a project in mind, please do not hesitate to contact us.

Tools and maintenance

Ladder support bracket - Magnetop

Dual function test pump

Valve box tools

Valve box cleaning
tools - Valve operating
tools

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Manhole cover tools

Magnetic cover lifter

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Pipe tools

Cleaning and
preparation tools -
Cutting tools - Pipe
joining tool - PE pipe
straightening tool-
holding clamps

Page

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- Secure fixing of ladders on worksites
- Easy, magnetic installation
- Compatible with all standard ladders
- Guaranteed French Origin



- Pressure testing of pipes after work has been carried out or after installation
- Disinfection of the water supply network
- All with just one piece of equipment
- Saves time on commissioning

Pressure testing and network disinfection

Pressure recorder -
Test pumps - Test kit
for drilling machine

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Lead pipe extraction tools

Lead pipe extraction
winch - Accessories,
spare parts and tools
for lead pipe extraction

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Detection

Metal detectors - Cable
and pipe detectors

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Special tools

Portable pipe storage
racks - Formwork
removal tongs - Ladder
support bracket

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Valve box cleaning tools



Pinchers

Used to clean pipes in valve boxes and remove stones or any other object obstructing access to the valve stem square.

Designation	Ref.
Pinchers Lgth 1.30 m	NPINCE130
Pinchers Lgth 1.45 m	NPINCE145
Compact pinchers DN 60	NPINCE060

TECHNICAL CHARACTERISTICS

- Closing diameter: 55 mm
- Opening diameter: 100 mm
- Overall length: 1.30 and 1.45 m
- Finish: blue epoxy paint
- Weight: approx. 2.5 kg

Auger

Used to clean pipes in valve boxes, removes earth and sand from the bottom of the pipe.

Designation	Ref.	Designation	Ref.
Standard auger	NVRILSTAND	Stainless steel auger	NVRILINOX

TECHNICAL CHARACTERISTICS

- Overall length: 1.50 m
- Diameter: 75 mm
- Finish: epoxy paint or stainless steel
- Weight: approx. 2 kg

Pigtail

Used to clean pipes in valve boxes, removes earth and sand from the bottom of the pipe. Its shape enables the end of the valve stem square to be completely freed from any obstruction.

Designation	Ref.
Pigtail	NQUECOCH

TECHNICAL CHARACTERISTICS

- Overall length: 1.50 m
- Diameter: 75 mm
- Finish: galvanised
- Weight: approx. 2 kg

Cleaning scoop

Used to clean valve boxes.

Designation	Ref.	Designation	Ref.
Cleaning scoop	NCUILREC	Cleaning scoop with finger	NCUILRECD

TECHNICAL CHARACTERISTICS

- Body: steel tube Ø 20
- Handle Ø 20: length 0.35 m
- Overall length: 1.50 m
- Overall weight: approx. 1.85 kg
- Finish: colourless zinc coating

Valve operating tools



Double-headed operating key for 30 x 30 stem square

Used to operate isolating valves. Compact design, handle neatly stowed away in the body of the key.



Operating key

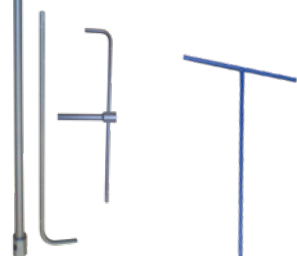
Designation	Ref.
2-headed valve key	NCLE2T

TECHNICAL CHARACTERISTICS

- Body: steel tube Ø 30
- Handle Ø 18: length 0.80 m
- Overall length: 1.50 m
- Overall weight: approx. 5 kg
- Finish: grey epoxy paint

Hydrant key for valve stem square 30 x 30

Used to operate isolating valves.



Hydrant key

Designation	Ref.	Designation	Ref.
Hydrant key Lgth 1 m	VBARRAGE10B	Hydrant key Lgth 1.80 m	VBARRAGE18B
Hydrant key Lgth 1.25 m	VBARRAGE125B	Hydrant key Lgth 2 m	VBARRAGE20B
Hydrant key Lgth 1.50 m	VBARRAGE15B	Hydrant key Lgth 2.50 m	VBARRAGE25B

Other dimensions: please contact us.

TECHNICAL CHARACTERISTICS

- Body: steel bar Ø 20
- Socket diameter: 55 mm
- Finish: blue epoxy paint

Extension rod for stem square 30 x 30

Used to operate isolating valves.



Extension rod

Designation	Ref.	Designation	Ref.
Extension rod Lgth 0.20 m	VAT020	Extension rod Lgth 0.80 m	VAT080
Extension rod Lgth 0.30 m	VAT030	Extension rod Lgth 1 m	VAT100
Extension rod Lgth 0.40 m	VAT040	Extension rod Lgth 1.20 m	VAT120
Extension rod Lgth 0.50 m	VAT050	Extension rod Lgth 1.50 m	VAT150
Extension rod Lgth 0.60 m	VAT060	Extension rod Lgth 3 m	VAT300

Other dimensions: please contact us.

TECHNICAL CHARACTERISTICS

- Body: steel bar Ø 24
- Socket diameter: 55 mm
- Finish: blue epoxy paint

Magnet

Used to open valve boxes.



Magnet

Designation	Ref.	Designation	Ref.
Multi-function magnet	NAIKMA3F	Single magnet	NAIMAS

TECHNICAL CHARACTERISTICS

- Magnet Ø 100
- Hammerhead handle
- Finish: colourless zinc coating

— Magnetic cover lifter



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Magnetic cover lifter

A device to lift most cast iron or steel street components, with a minimum of effort and in complete safety.



Cover lifter

Designation	Ref.
Magnetic cover lifter with extension kit	VLEVETAMPON
Magnetic cover lifter (base)	VLEVETAMPONNG

► PRESENTATION

• This simple, practical and economical device can be used to lift most cast iron or steel street fittings from pavements, curbs, etc., with a minimum of effort and in complete safety.

- Puncture-proof notched wheels for all types of terrain
- Takes up very little space in the vertical position
- Easy to transport

Option

- Wheel spreader to lift manhole covers (EDF electricity supply covers)



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■ CHARACTERISTICS

- **Body:** Mechanically-welded steel.
- **Finish:** colourless zinc coating.
- **Max load:** 80 kg.

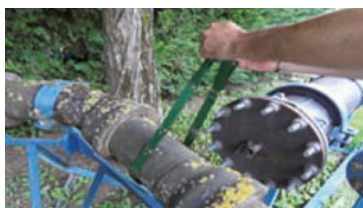


Cleaning and preparation tools



Pipe scraper

Used to clean pipes before installing a branch fitting or repair part.



Designation	Max pipe DN (mm)	Ref.	Designation	Max pipe DN (mm)	Ref.
Pipe scraper Lgth 1 m	200	VG1	Pipe scraper Lgth 2 m	500	VG2
Pipe scraper Lgth 1.25 m	300	VG125	Pipe scraper Lgth 2.50 m	700	VG250
Pipe scraper Lgth 1.50 m	350	VG150	Pipe scraper Lgth 3 m	900	VG3

USE

Operated by a back and forth movement on either side of the pipe, this pipe scraper removes various deposits before a part is fitted onto the pipe. Use it to ensure that your service is successful.

PRESENTATION

- Flexible polyester strap, 30 mm wide and varying in length from 1 to 3.5 metres, and longer on request.

- It is fitted with case-hardened steel scrapers, riveted in opposite directions on each half of the strap.
- Spacing between scrapers 60 mm.



Circumference tape

For fast, direct measurement of pipe diameters

Designation	Operating range	Ref.
Circumference tape	up to Ø 1000	NCIRCOMETRE
Circumference tape 5 m	up to Ø 1500	NCIRCO1500
Circumference tape 10 m	up to Ø 3100	NCIRCO3100

THIS PRODUCT CAN BE CUSTOMISED WITH YOUR LOGO OR COMPANY NAME: please contact us
(minimum quantities are required)

Deburring cone

Used to remove internal and external burrs from plastic tubes



Designation	Use	Ref.
Deburring cone 20-40	20-40	NCONE40
Deburring cone 20-63	20-63	NCONE63

TECHNICAL CHARACTERISTICS

- Painted steel

- For pipes up to 63 mm in diameter



PE pipe deburring tool 25-32 and 50

Used to remove a layer around the outside diameter of PE pipes, to obtain a clean, non-oxidised surface for optimal pipe welding

CHARACTERISTICS

- Polyamide body and handles
- Steel cutting inserts

Designation	Use	Ref.
PE pipe deburring tool	25 - 32 - 50	VEBAVUREUR2550

— Cutting tools



PE pipe cutter

Ratchet pipe cutter for PE or PVC pipes / Effortless cutting, without crushing the pipe



Designation	Working diameter (mm)	Weight (kg)	Ref.
PE pipe cutter Ø 42	42	0.44	NCP42
PE pipe cutter Ø 50	50	0.61	NCP50
PE pipe cutter Ø 63	63	-	NCP63

Chain pipe cutter

Designed to cut cast iron pipes, it can also be used on concrete or earthenware pipes / Equipped with chains with cutter pins, it cuts pipes by means of a rotating tightening action



Designation	Operating range	Weight (kg)	Ref.
Mod. 246 cement cast iron asbestos earthenware	DN 50 - 150	11.3	N246
Mod. 246S cement cast iron asbestos earthenware	DN 50 - 200	12	N246S
Mod. 246L cement cast iron asbestos earthenware	DN 50 - 300	15	N246 L
Mod. 248 cement cast iron asbestos earthenware	DN 50 - 450	19	N248
Mod. 228 pipe cutter with joint	DN 50 - 200	10.3	N228
Mod. 226 cement cast iron asbestos earthenware	DN 50 - 150	8.3	N226

Replacement cutter pins: please contact us.

Steel pipe cutter - Grey/ductile cast iron

Four cutting wheels to cut steel, most stainless steels, grey cast iron and ductile cast iron / Handle swing clearance from only 90° to 110°. Requires only 9 cm of space around most pipes / Guides ensure perfect positioning to cut perfectly at right angles



Designation	Operating range (mm)	Weight (kg)	Ref.
Type H	Ø 32 - 76	3.6	NCF32
Type H	Ø 60 - 125	6.3	NCF60
Type H	Ø 114 - 182	10	NCF114
Type H	Ø 168 - 240	13	NCF168
Type H	Ø 219 - 356	18	NCF219
Type RC	Ø 159 - 246	18.6	NCR159
Type RC	Ø 266 - 358	22.7	NCR266
Type RC	Ø 368 - 462	27.3	NCR368
Type RC	Ø 476 - 572	40.5	NCR476
Type RC	Ø 584 - 660	48.6	NCR534
Type RC	Ø 698 - 864	128.6	NCR698

— Pipe joining tool



Iron pipe joining tool

Robust, easy-to-use device to join cast iron pipes from DN 100 to DN 300.



Designation	Weight (kg)	Ref.
4-GRIP VERSION: locked joints		
Pipe joining tool 100 - 125	22	VEMBTUB1004
Pipe joining tool 150 - 200	38	VEMBTUB14
Pipe joining tool 250 - 300	42	VEMBTUB24

Other dimensions: please contact us.



Pipe joining tool

► PRESENTATION

• Made from mechanically-welded steel, these pipe joining tools are robust and easy to use. They are designed for locked joints with 4 grips for a secure hold.

• They are designed to adapt to 2 diameters by adding or removing certain parts.
 • The special, case-hardened grips are hard-wearing and will fit securely onto the pipe in all conditions (sand, grease, water, etc.). Their special profile is designed not to damage the pipe coating.

■ CHARACTERISTICS

- 4 grips for locked joint
- Serrated grips made from case-hardened steel
- Adapter parts for use on 2 diameters



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PE pipe joining tool

Robust, easy-to-use device to join PE pipes.

Please contact us.

PE pipe straightening tool-holding clamps



Multi-diameter alligator

System to straighten and hold PE pipes before welding an electrofusion part.



CHARACTERISTICS

- Mechanically-welded steel
- For use on diameters 63-75-90-110 and 125

Designation	Operating range (mm)	Weight (kg)	Ref.
Complete alligator + Kit for 5 pipe diameters (63 - 75 - 90 - 110 - 125)	63 - 75 - 90 110 - 125	31	VALICOL
Storage case for Alligator only		-	VALICAISSE
Straightening and holding alligator (excluding clamp)		-	VALINU
Set of 4 clamps for alligator DN 63	63	-	VALICOL63
Set of 4 clamps for alligator DN 75	75	-	VALICOL75
Set of 4 clamps for alligator DN 90	90	-	VALICOL90
Set of 4 clamps for alligator DN 110	110	-	VALICOL110
Set of 4 clamps for alligator DN 125	125	-	VALICOL125

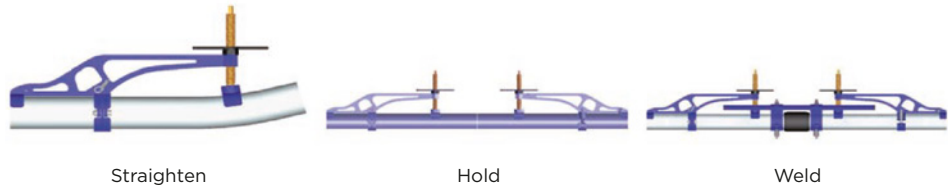


Complete case

PRESENTATION

- Multi-diameter system for straightening and holding HDPE pipes of any nominal diameter.
- For a perfect weld.

- Outside diameter: 63 - 75 - 90 - 110 - 125.
- For Diameter 140 and 160: please contact us.



Straighten

Hold

Weld



Presentation - assembly

— Pressure recorder



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Pressure recorder

Complete measurement and data logging kit for pipe pressure tests / Product can be used in conjunction with the internal combustion engine test pump ref: VPOMPE and the dual function test pump ref: VPOMPESKID20B

Designation	Operating range	Ref.
Complete measurement and data logging kit.	0 - 50 bar	NKITENREGISTREUR
Printer with connecting cables	-	NKITIMP
Replacement probe	-	NKITSONDE

CHARACTERISTICS

- **Max pressure:** 50 bar
- **Battery:** 4 batteries 1.5V type AA
- **Battery life:** 200 hours with alkaline batteries
- **Protection:** IP67
- **Measuring range:** 1 s to 1 h
- **OPTION:** printer

— Test pumps



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Internal combustion engine test pump

This internal combustion engine pump is designed for testing pipes after carrying out work or after installing.

Designation	Operating range	Ref.
Internal combustion engine test pump Max pressure 40 bar	0 - 40 bar	VPOMPE

CHARACTERISTICS

- **Max pressure:** 40 bar, with pressure regulator and pressure gauge
- **Output:** 50 l per minute
- 5.7-HP petrol engine, 3.6-l fuel tank capacity
- 30-litre water top-up tank, drained at the bottom
- Fully galvanised frame for longer life
- Easy to transport on the worksite thanks to large-diameter wheels,
- Puncture-proof notched all-terrain wheels, mounted in the frame,
- Can be fitted with a paper-free pressure recorder and external memory card



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— Test pumps



Dual-function pump: testing and disinfection

This internal combustion engine pump is designed for testing pipes after carrying out work or after installing, while injecting disinfectant into the water system.

Designation	Operating range	Weight (kg)	Ref.
20-bar skid-pressure test and disinfection pump	0-20 bar	113	VPOMPESKID20B

■ CHARACTERISTICS

- Max pressure: 20 bar
- Weight: 113 kg empty, 623 kg filled
- Dimensions: 1500 x 940 x 1360 mm, can be loaded into a van through the side door.

Manual test pump

This hand pump is designed to test the tightness of branch fittings (e.g. tapping clamp) on the pipe.



Designation	Operating range	Weight (kg)	Ref.
60-bar manual test pump (single action), with 12 L tank	0 - 60 bar	8	NPOMPE60

■ CHARACTERISTICS

- Max pressure: 60 bar
- 12-litre water tank
- Single-action pump with pressure gauge

— Test kit for drilling machine



Test kit for drilling machine 50-200

This kit is used to check the tightness of the clamp or tee on the pipe before drilling under pressure.

Designation	Operating range	Weight (kg)	Ref.
Kit comprising: Blind flanges DN 60 to 200 with express coupling Metal case Fasteners (4 x M16 pins and 8 x M20 pins) Complete drain valve	Drilling DN 50 to DN 200	50	VKITSECURITE

This kit is used with the test pump and swarf discharge flanges of the EIE 50-200 drilling machine. It ensures effective degassing.

Lead pipe extraction winch



Complete winch

Lead pipe extraction winch

Designation	Use	Weight (kg)	Ref.
Extractor with strut			
Complete winch with return strut	Volvo EC15 bucket link	300	VTREUIL

CHARACTERISTICS

- CEV MH160 winch, a model that has been used since the Extractor® was first introduced (proven reliability)
- Installation on mini-excavator quick coupling (please specify quick coupling references and supplier)
- Emergency stop located on the winch
- The strut can be adjusted to suit the depth of the connection
- Can be operated on an independent hydraulic power unit
- **Max pressure:** 180 bar
- **Required output:** 20 l/minute (60 recommended)

ADVANTAGES

- Return strut system enabling positioning at the top of the excavation. Eliminates the need for contractors and reduces the size of excavations.
- The lead pipe is gradually cut off as it is extracted, limiting the need for subsequent cutting operations using a disc cutter, thereby reducing the risk of blood lead contamination.

Lead pipe extraction accessories, spare parts and tools



Couplings and options

Designation	Use	Weight (kg)	Ref.
Couplings according to mini-excavator model			
MORIN M1 additional part	-	On request	VTIREMM1
MORIN M0 additional part	-		VTIREMM0
VOLVO EC20 additional part	-		VTIREEC20
VOLVO EC25 additional part	-		VTIREEC25
Limiters / Reversers for hydraulic control. For remote control from the mini-excavator to the winch.	Ask for our data sheet		VLIMITEUR

— Lead pipe extraction accessories, spare parts and tools



Spare parts

Designation	Use	Weight (kg)	Ref.
Complete aluminium return strut	-	On request	VJAMBE
Swivel coupling for winch	-		VNOIXPIV

Tools

Designation	Range	Weight (kg)	Ref.
-------------	-------	-------------	------

Towing heads

Towing head for PE pipe	PE DN25	0.139	VTIREPE25
Towing head for PE pipe	PE DN32	0.315	VTIREPE32
Towing head for PE pipe	PE DN40	0.507	VTIREPE40
Towing head for PE pipe	PE DN50	0.640	VTIREPE50

Conical cutting head to cut lead pipe

1-Blade slitter head	DN 20	0.168	VCONECOUT20
1-Blade slitter head	DN 25	0.213	VCONECOUT25
1-Blade slitter head	DN 32	0.230	VCONECOUT32
1-Blade slitter head	DN 40	0.535	VCONECOUT40
2-Blade slitter head	DN 20	0.166	VCONECOUT20L2
2-Blade slitter head	DN 25	0.188	VCONECOUT25L2
2-Blade slitter head	DN 32	0.230	VCONECOUT32L2
2-Blade slitter head	DN 40	0.532	VCONECOUT40L2
3-Blade slitter head	DN 20	0.170	VCONECOUT20L3
3-Blade slitter head	DN 25	0.220	VCONECOUT25L3
3-Blade slitter head	DN 32	0.235	VCONECOUT32L3
3-Blade slitter head	DN 40	0.540	VCONECOUT40L3

Please contact us for other spare parts (ask for our exploded views of the machines).
Our workshops can restore your winches to working order and carry out any necessary repairs.

— Metal detectors



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Master I

This easy-to-use metal detector, with just two control buttons, offers good valve box detection depth and outstanding reliability. With its distinctive, highly visible yellow and black colours, its specifications and ease of use, it has made a name for itself in the drinking water, public works, construction, industry and other sectors.



Designation	Use	Weight (kg)	Ref.
Master I detector	Simple detector	-	NDMASTER

CHARACTERISTICS

- Disc, 21 cm
- Static mode
- Preset discrimination
- 9V battery (not supplied)
- Headphone output
- Valve box 40/50 cm
- With carry case

Master II

This metal detector is equipped with a concentric search disc, giving it a high level of sensitivity and search depth for its category. Featuring the "Pinpoint" button, it can be used to pinpoint targeted searches. In addition to its traditional applications in the water and industrial sectors, the MASTER II is highly effective in searching for large steel or cast iron plates.



Designation	Use	Weight (kg)	Ref.
Master II detector	Simple detector	-	NDMASTER2

CHARACTERISTICS

- 24-cm waterproof disk
- Static mode
- Manual or automatic discrimination
- Pinpoint button for precise centring
- 9V battery (not supplied)
- Headphone output
- Valve box 50/60 cm
- With carry case

— Cable and pipe detectors



Receiver (1)



Transmitter (2)



Accessories

C.A.T4™ et Genny4™

This latest-generation tool uses the most advanced technologies. It consists of a receiver (1) and a transmitter (2). It uses a frequency of 33 kHz, which means it can be used in a wide range of applications without any risk of interference.

Designation	Use	Weight (kg)	Ref.
Receiver (1) C.A.T4™	See below	3	NRECEPTEUR
Transmitter (2) Genny4™	See below	6	NEMETTEUR

► USE

- The receiver (1) is used on its own to detect live electric cables. Depending on the configuration of the site, it can also detect metal pipes.

- Used with the transmitter (2), it can be used to trace the path of a metal pipe or an electrical cable that is not live at the time of detection.

Optional accessories

(Please contact us)

Transmitter clamps

When placed around a cable or pipe (with a maximum diameter of 220 mm), they allow the Genny4 signals to be transmitted over a cable without interrupting the power supply.

Sensor

Battery-operated signal generator that can be attached to a push rod to detect and follow the path of non-metallic networks.

Live plug / live cable connector

Enables Genny4 signals to be transmitted directly over electrical transmission networks, without having to isolate the power supply first.

FlexiTrace™

Highly flexible 50-m push rod with integral probe powered by the Genny4, designed to follow the path of small-diameter non-metallic pipes (with a minimum diameter of 15 mm).

Magnet

Enables Genny4 signals to be easily transferred by contact to any metal part, particularly street lighting columns.

Portable pipe storage racks



Portable storage racks for cast iron pipes



Designation	Permitted load	Weight (kg)	Ref.
Storage rack for cast iron pipes	3.5 T	94	VBERCEAUX

PRESENTATION

- Portable pipe storage racks for cast iron pipes, designed to store and stow your cast iron pipes safely and efficiently on your worksites or in your equipment yards.

- Accepts all pipe bundles from DN 60 to DN 300.
- They are made of painted steel, with a plastic coating to avoid damaging the outside of your cast iron pipes.

Formwork removal tongs



"Castor" formwork removal tongs

Steel / Epoxy paint coating



Designation	Permitted load	Weight (kg)	Ref.
Steel formwork removal tongs, blue epoxy paint coating	250 kg	7	VCASTOR

PRESENTATION

- The "CASTOR" formwork removal tongs are designed to remove wooden formwork:
 - in complete safety,
 - effortlessly, as the system is self-clamping,
 - economically, leaving the boards undamaged and reusable,
 - easily with its 2 strap loops.

— Ladder support bracket



Magnetop ladder support bracket

Support to secure ladders in position on worksites



Designation	Weight (kg)	Ref.
Magnetic safety support bracket for ladder	3.2	VMAGNETOPV3
Magnetic safety support bracket for ladder, width 700 mm	3.4	VMAGNETOPL700V3

► PRESENTATION

- The ideal system to secure your ladders to metal surfaces, for even greater safety on your worksites
- Easy, magnetic installation

- Compatible with all standard worksite ladders
- Easy to remove

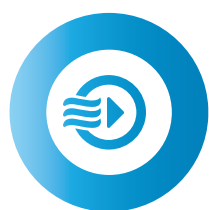
■ CHARACTERISTICS

- Removal resistance: 320 kg



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Technical information



CROSS-REFERENCE TABLE FOR OUTSIDE PIPE DIAMETERS

DIAMETER		PIPE MATERIAL					Repair parts					
DN	INCHES	SG	GREY MIN	GREY MAX	STEEL	PVC/PE	CAST IRON		STEEL		STAINLESS STEEL CLAMP	
							2 parts	3 parts	Steel	EIE patent	Cast iron jaw	Type 141 / 142
15	1/2"	21.3			20.0		•					
					21.3		•					
20	3/4"	26.9			25.0	20	•					
					26.9		•					
25	1"	33.7			33.7	25	•					
					38.0		•					
32	1 1/4"				42.4	32	•					
					44.5		•					
40	1 1/2"	57	54.5	58	48.3	40	•					
		66	64.5	68	54.0	50	•	•	•	•	•	•
50	2"				57.0	63	•	•	•	•	•	•
					60.3		•	•	•	•	•	•
60	2 1/4"	77	75.5	82	70.0	63	•	•	•	•	•	•
					73.0	75	•	•	•	•	•	•
	2 1/2"				76.1		•	•	•	•	•	•
					82.5		•	•	•	•	•	•
80	3"	98	96.5	102	88.9	90	•	•	•	•	•	•
			106.5	110	101.6		•	•	•	•	•	•
100	4"	118	116.5	123	108.0	110	•	•	•	•	•	•
					114.3		•	•	•	•	•	•
					127.0		•	•	•	•	•	•
125	5"	144	142.5	149	133.0	125	•	•	•	•	•	•
			153.5	157	139.7	140	•	•	•	•	•	•
					141.3		•	•	•	•	•	•
					152.4		•	•	•	•	•	•
150	6"	170	168.5	175	159.0	160	•	•	•	•	•	•
			180.5	184	165.1	180	•	•	•	•	•	•
					168.3		•	•	•	•	•	•
					177.8		•	•	•	•	•	•
175	7"	196	193.5	201	193.7	180	•	•	•	•	•	•
200	8"	222	219.5	227	219.1	200	•	•	•	•	•	•
225			245.5	249	244.5	225	•	•	•	•	•	•
250	10"	274	270.5	279	273.0	250	•	•	•	•	•	•
275			296.5	300	298.5	280	•	•	•	•	•	•
300	12"	326	322	331	323.9	315	•	•	•	•	•	•
325			348	352	344.0		•	•	•	•	•	•
350	14"	378	374	378	355.6	355	•	•	•	•	•	•
375			399	403	368.0		•	•	•	•	•	•
400	16"	429	425	429	406.4	400	•	•	•	•	•	•
					419.0		•	•	•	•	•	•
450	18"	480	476	480	457.0	450	•	•	•	•	•	•
500	20"	532	528	532	508.0	500	•	•	•	•	•	•
550	22"		580	584	558.8	560	•	•	•	•	•	•
600	24"	635	631	635	610.0	630	•	•	•	•	•	•
650	26"		683	687	660.4		•	•	•	•	•	•
700	28"	738	734	738	711.2	710	•	•	•	•	•	•
750	30"		786	790	762.0		•	•	•	•	•	•
800	32"	842	838	842	812.8	800	•	•	•	•	•	•
900	36"	945	941	942	914.4		•	•	•	•	•	•
1000	40"	1048	1044	1048	1016.0		•	•	•	•	•	•
1100	44"	1151	1148	1152	1118.0		•	•	•	•	•	•
1200	48"	1255			1219.0		•	•	•	•	•	•
1300	52"				1320.8		•	•	•	•	•	•
1400	56"	1462			1422.4		•	•	•	•	•	•
1500	60"	1565			1524.0		•	•	•	•	•	•
1600	64"	1668			1625.6		•	•	•	•	•	•

Note: for STEEL and ASBESTOS, please specify the outside diameter of the pipe. All our couplings can be fitted to A.C. pipes, but it is essential to specify the OD of the pipe excluding the turned end.

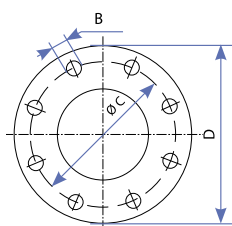
Technical information



DRILLING TEMPLATES

Standardised in accordance with:

- NF EN 1092-2
- ISO 7005-2



Holes off axis

STANDARD FLANGES

DN	ISO PN 6			Bolts		ISO PN 10					ISO PN 16			Bolts			
	D	C	B	N°	Ø	D	C	B	N°	Ø	L	D	C	B	N°	Ø	L
40	130	100	14	4	12	see ISO PN 25					see ISO PN 25						
50	140	110	14	4	12	see ISO PN 25					see ISO PN 25						
(60)*						see ISO PN 16					see ISO PN 25						
65	160	130	14	4	12	see ISO PN 16					175	135	19	4	16	70	
80**	190	150	19	4	16	see ISO PN 16					185	145	19	4	16	70	
100	210	170	19	4	16	see ISO PN 16					200	160	19	8	16	70	
125	240	200	19	8	16	see ISO PN 16					220	180	19	8	16	70	
150	265	225	19	8	16	see ISO PN 16					250	210	19	8	16	70	
(175)*	295	255	18	8	16	see ISO PN 16					285	240	23	8	20	80	
200	320	280	19	8	16	340	295	23	8	20	80	340	295	23	12	20	80
250***	375	335	19	12	16	395	350	23	12	20	80	405	355	28	12	24	100
300***	440	395	23	12	20	445	400	23	12	20	80	460	410	28	12	24	100
350	490	445	23	12	20	505	460	23	16	20	80	520	470	28	16	24	100
400	540	495	23	16	20	565	515	28	16	24	100	580	525	31	16	27	110
450	595	550	23	16	20	615	565	28	20	24	100	640	585	31	20	27	110
500	645	600	23	20	20	670	620	28	20	24	100	715	650	34	20	30	130
600	755	705	28	20	24	780	725	31	20	27	110	840	770	37	20	33	140
700	860	810	28	24	24	895	840	31	24	27		910	840	37	24	33	
800	975	920	31	24	27	1015	950	34	24	30		1026	950	40	24	36	
900	1075	1020	31	24	27	1115	1050	34	28	30		1125	1050	40	28	36	
1000	1175	1120	31	28	27	1230	1160	37	28	33		1255	1170	43	28	39	
1200	-	-	-	-	-	1455	1380	41	32	36		1485	1390	50	32	45	

* For reference - compliant with previous standards.

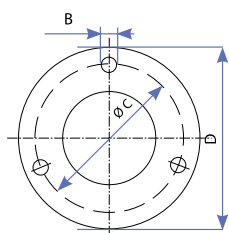
** 4-hole drilling is retained for a transitional period.

*** For SG cast iron flanges, the dimension D is the same for ISO PN 10 and ISO PN 16: 400 for DN 250, 455 for DN 300.

STANDARD FLANGES

VILLE DE PARIS (VP)

DN	ISO PN 25			Bolts		L	ISO PN 40			Bolts		Ville de Paris			Bolts	
	D	C	B	N°	Ø		D	C	B	N°	Ø	D	C	B	N°	Ø
40	150	110	19	4	16	70	150	110	19	4	16	176	125	18	3	16
50	165	125	19	4	16	70	165	125	19	4	16	188	147	18	3	16
(60)*	175	135	19	8	16	70	175	135	19	8	16	210	165	21	3	18
65	185	145	19	8	16	70	185	145	19	8	16					
80**	200	160	19	8	16	70	200	160	19	8	16	230	185	21	3	18
100	235	190	23	8	20	80	235	190	23	8	20	250	205	21	4	18
125	270	220	28	8	24	100	270	220	28	8	24	279	232	21	4	18
150	300	250	28	8	24	100	300	250	28	8	24	306	257	21	6	18
(175)*	330	280	28	12	24	100	350	295	30	12	27	338	287	21	6	18
200	360	310	28	12	24	100	375	320	31	12	27	358	306	21	6	18
250***	425	370	31	12	27	110	450	385	31	12	30	411	358	21	6	18
300***	485	430	31	16	27	110	515	450	34	16	30	474	418	21	8	18
350	555	490	34	16	30	130	580	510	37	16	33	528	468	24	10	20
400	620	550	37	16	33	140	660	585	40	16	36	582	522	24	10	20
450	670	600	37	20	33	140	685	610	40	20	36	632	572	24	10	20
500	730	660	37	20	33	140	755	670	43	20	39	682	622	24	12	20
600	845	770	40	20	36	140	890	795	49	20	45	782	726	24	16	20
700	960	875	43	24	39											
800	1085	990	49	24	45											
900	1185	1090	49	28	45											
1000	1320	1210	56	28	52											
1200	1530	1420	56	32	52											



A hole must always be located on the vertical axis and at the top of the flange

* For reference - compliant with previous standards.

** 4-hole drilling is retained for a transitional period.

*** For SG cast iron flanges, the dimension D is the same for ISO PN 10 and ISO PN 16: 400 for DN 250, 455 for DN 300.

AFNOR Certification certifie que le système de management mis en place par :
AFNOR Certification certifies that the management system implemented by:

EIE EQUIPEMENT INDUSTRIEL EUROPEEN

pour les activités suivantes :
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DESIGN, MANUFACTURE AND SALE OF REPAIR, PRESSURIZED DRILLING AND INTERVENTION EQUIPMENT FOR WATER, SEWERAGE AND GAS NETWORKS (DRILLING MACHINES, TOOLS, CLIPS, TAILORED SPECIAL PARTS, REPAIR COUPLINGS, FITTINGS).

a été évalué et jugé conforme aux exigences requises par :
has been assessed and found to meet the requirements of:

ISO 14001 : 2015 - ISO 9001 : 2015 - ISO 45001 : 2018

et est déployé sur les sites suivants :
and is developed on the following locations:

16 RUE DU HAINAUT ZI DE SEPT SORTS BP 23 FR 77260 LA FERTE SOUS JOUARRE

Le détail des activités et sites certifiés par norme est mentionné sur les certificats suivants :
The description of certified activities and locations per standard is mentioned on the following certificates:

Certificat ISO 14001 : 2015 n° 51608
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Certificates ISO 9001 and ISO 14001 issued under accreditation n°4-0001

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2021-10-21

Jusqu'au
Until

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General terms of sale

1. General information. These general terms apply to the contractual relationship between the "Supplier" and the customer company, hereinafter referred to as the "Customer". They serve as the legal basis for all contracts, unless otherwise specified in writing and accepted by the Supplier.

2. Formation of the contract. Unless stated otherwise, the offer is valid for one (1) month. After this period, the terms and prices shown on the offer may be subject to change. The contract is only deemed to be complete following the Supplier's written acceptance of the order.

3. Content of the contract. The contract will be strictly limited to the supplies and services expressly mentioned by the parties on the basis of the data supplied by the Customer. The Supplier reserves the right to replace the supplies covered by the contract with supplies of equivalent specification, provided that this does not result in an increase in price or a deterioration in quality for the Customer. The Supplier reserves the right to subcontract all or part of the design, supplies and services covered by the contract.

4. Documents. The information, photos, weights, prices and drawings featured in the catalogues, prospectuses, documents and price lists are given for information only and are not contractually binding. The Supplier reserves the right to make any changes to them.

5. Cancellation of the contract. The order expresses the Customer's irrevocable consent; therefore, the Customer may not cancel it, unless the Supplier has given its express prior consent. In this case, the Customer will compensate the Supplier for all costs arising from the cancellation, which may not be less than 30% of the cancelled amount. The Supplier is not under any obligation to take back any new equipment returned to it.

6. Amendment to the contract. Any amendment to the contract requested by the Customer is subject to the Supplier's express acceptance, which will be exempt from the deadlines and conditions agreed for its performance, and will give rise to an amendment to the contract. In this case, the Customer will compensate the Supplier for all costs incurred, and for all the direct and indirect consequences arising therefrom (in particular the cost of any requested supplements, restocking, logistics costs, tests and inspections, etc.). All amendments to the contract may be subject to a new delivery deadline, a new price and new shipping conditions.

7. Ownership of designs, drawings and documents. The Supplier retains full intellectual property rights to its designs, drawings, photographs and all other documents. All reproductions require the Supplier's prior written consent. If design studies carried out at the Customer's request or documents supplied to the Customer are not followed by an order for products, the Customer will be invoiced for the costs incurred and the documents must be returned. All intellectual property rights and expertise contained in the forwarded documents, the products delivered and the services provided remain the Supplier's exclusive property. Any transfer of intellectual property rights or expertise must be covered by a contract with the Supplier.

8. Prices. The prices, fixed at the time of acceptance of the order, are exclusive of tax, customs duties, carriage, insurance, "standard" packaging and "ex works". They are calculated net, without discount, payable within forty-five (45) days of the end of the month (see article 9.1). The Supplier reserves the right to revise its prices or terms should an event occur outside its control that compromises the balance of the contract (in particular, in the event of changes in the price of raw materials, changes in customs duties, changes in exchange rates, changes in legislation).

9. Terms of payment.

9.1 Terms of payment – In accordance with article L.441-10 of the French Commercial Code, the period agreed between the parties for settling the sums due may not exceed forty-five (45) days end of month or sixty (60) days from the date of issue of the invoice. For the purposes of these general terms, the payment period is, unless agreed otherwise, forty-five (45) days from the end of the month, i.e. forty-five (45) days from the date of issue of the invoice until the end of the current month. The lead times and conditions set out in an order are only accepted by the Supplier and are only binding on the Supplier if the Customer complies with the terms of payment and payment on account.

9.2 Late payment – In accordance with Article L.441-10 of the French Commercial Code, any sum not paid by the due date will give rise to the application of late payment interest at the interest rate applied by the European Central Bank to its refinancing operation on the first day of the half-year, increased by ten (10) percentage points. In the event of late payment, the fixed indemnity for collection costs is set at forty (40) euros. This late payment interest and collection indemnity are

automatically payable and will be debited from the customer's account, without invoicing. Furthermore, the Supplier reserves the right to apply to the competent court to put an end to this non-performance, subject to a daily penalty for each day late. Any late payment on a due date, or deterioration in the Customer's financial situation noted by a financial institution, will result in the contractual term being terminated and all sums due becoming immediately payable. If the Supplier invokes one and/or other of these provisions, it will not be denied the right to invoke the retention of title clause stipulated in Article 14. In the event of late payment, the Supplier has a right to retain the manufactured products and related supplies.

9.3 Automatic debits – The Customer undertakes to refrain from any unlawful practice of automatic debit or credit, and in general to invoice the Supplier for all sums that have not been expressly recognised by the latter under its liability.

10. Delivery times. The lead time for supplying the equipment, before acceptance, begins when the following conditions are satisfied: 1° All the information required for the proper performance of the contract has been received. 2° Any deposits due on the order have been received. Unless stated otherwise, delivery times are given purely as an indication and without guarantee. They notably depend on the availability of the shipping company and the order in which the orders arrive. The Supplier will endeavour to comply with the delivery deadlines indicated on acceptance of the order and to fulfil orders, except in the event of force majeure or circumstances beyond its control. Delays in delivery do not entitle the buyer to cancel the sale or refuse the goods. They may not give rise to deductions, compensation, penalties or damages.

11. Technical acceptance, tests, inspections and certificates. The Customer must check the product thoroughly on receipt. If no reserves are received within four (4) days, the product will be deemed to be in compliance with the contract. All inspections, tests and certificates requested by the Customer are at the Customer's expense. These additional operations will be carried out in the factory or on site at the Supplier's discretion. If the Customer is notified of the date of these operations and does not attend, a report will be sent to them and acceptance will be deemed to have taken place.

12. Packaging, delivery, transport, insurance and customs. The agreed terms of delivery are interpreted in accordance with the INCOTERMS in force on the date the contract is concluded. If no special delivery terms have been agreed, delivery is "ex works". In the absence of any special request from the Customer, the need for packaging remains at the Supplier's discretion. Packaging is always payable by the Customer and is not returnable to the Supplier. Once the products have been supplied, the Customer assumes responsibility for any damage that the products may sustain or cause. The transfer of risks on the products sold by our company takes place when the products are handed over to the shipping company or when the products leave our warehouses. Any product that has not been the subject of reservations, upon receipt, on the transport slip with the shipping company, a copy of which will be sent to the Supplier, will be considered to have been accepted by the Customer. No goods may be returned by the Customer without the Supplier's express prior written consent. The return costs will be borne by the customer except if there is a proven defect.

13. Installation and commissioning. Unless agreed otherwise, they are carried out by the Customer, under their sole responsibility and in accordance with best practices.

14. Retention of title clause. The Supplier retains full ownership of the goods covered by the contract until full payment of the principal and ancillary costs has been made. Failure to pay any of the due instalments may result in the goods being reclaimed. Any clause to the contrary included in the general terms of purchase is deemed to be unwritten, in accordance with Article L.624-16 of the French Commercial Code. In the event that the Customer goes into receivership or goes into liquidation, the orders in progress will be automatically cancelled and the Supplier reserves the right to reclaim the goods in stock. This clause does not prevent the risks associated with the goods from being transferred to the buyer as soon as they are delivered to the buyer.

15. Guarantee. Unless stated otherwise, and without prejudice to the provisions of the legal guarantee, the Supplier provides a guarantee of twelve (12) months from the date the products are delivered to the Supplier's premises. It solely covers the repair of equipment recognised as defective and returned to the Supplier's workshops. The guarantee does not apply: - to components that, due to the nature of their materials or their function, are subject to wear and tear, - in the event of deterioration or accidents resulting from: • installation or use that does not comply with best practices, • failure to comply

with installation, use and maintenance instructions, • poor supervision, storage or maintenance, • modification or work carried out by the Customer on the original product. It does not apply if the Customer fails to pay, and the Customer may not take advantage of this situation to suspend or defer payments.

16. Liability. The Supplier's civil liability, for all causes with the exception of personal injury and gross negligence, is limited to the amount of the sums received under the contract. The Supplier expressly excludes all other liability for indirect material damage and/or direct and indirect immaterial damage, and compensation for any financial loss resulting in particular from loss of profit, the denial of a right, or the interruption of a service provided by a person or property, insofar as such limitations or exclusions are compatible with the legal provisions in force, which are mandatory in nature.

17. Force majeure. None of the parties to this contract may be held liable for its delay or failure to perform any of its obligations under the contract if this delay or failure is the direct or indirect effect of a case of force majeure as understood in a broader sense than French case law, such as: the occurrence of a natural disaster, earthquake, storm, fire, flood, conflict, war, terrorist attack, labour dispute, total or partial strike, compulsory injunction by the public authorities (import ban, embargo), operating or transport accident, machine breakdown, explosion, serious shortcomings on the part of suppliers. Each party will inform the other party, without delay, of the occurrence of a case of force majeure of which it is aware and which, in its opinion, is likely to affect the performance of the contract.

18. Personal data protection. As part of the performance of these General Terms of Sale, the Supplier collects and processes the Customer's personal data in connection with the Contract. In this respect, the Supplier guarantees that it will process this data in compliance with the rights and obligations arising from French Law n°78-17 of 6 January 1978 on data processing, data files and individual liberties, as amended, known as the "Informatique et Libertés" Law (Data Protection Act), and the General Data Protection Regulation (GDPR). This data may be communicated to subcontractors responsible for the execution, processing, management and payment of orders. It is expressly agreed between the Parties that the Supplier, as data controller, will do everything in its power to ensure the security and confidentiality of the personal data entrusted to it. Customers whose personal data is processed have the right to access, rectify, update, port and delete information concerning them, in accordance with the provisions of articles 39 and 40 of the French Data Protection Act (Loi Informatique et Libertés) as amended, and the provisions of articles 15, 16 and 17 of the General Data Protection Regulation (GDPR). In accordance with the provisions of article 38 of the French Data Protection Act (Loi Informatique et Libertés) as amended, and with the provisions of article 21 of the GDPR, the Customer may also, for legitimate reasons, object to the processing of data concerning them, without giving any reason or incurring any costs. The Customer may exercise these rights, upon providing proof of identity, either by sending an e-mail to rgpd@groupe-claire.com, or by sending a letter to the address of the Supplier's registered office.

19. Resolutive clause. If payment is not made within 8 days of the date of dispatch of a formal notice by registered letter, the Supplier may terminate the contract. In addition, the Supplier may obtain compensation for the entire loss suffered. If, as a result of events of force majeure, such as those described in Article 17, performance of the contract becomes impossible within a reasonable period, each of the parties has the right to withdraw from the contract, by simple written notification, without having to apply to a court for termination. Termination of the contract for any reason whatsoever is without prejudice to claims already due between the parties.

20. Disputes. In the event of any dispute whatsoever relating to a supply or its payment, and irrespective of the terms of sale and the method of payment accepted, even in the event of a third party claim or multiple defendants, and unless an amicable agreement is reached, the commercial court within the jurisdiction of the Supplier's registered office will have sole jurisdiction to settle the dispute. French law applies exclusively.

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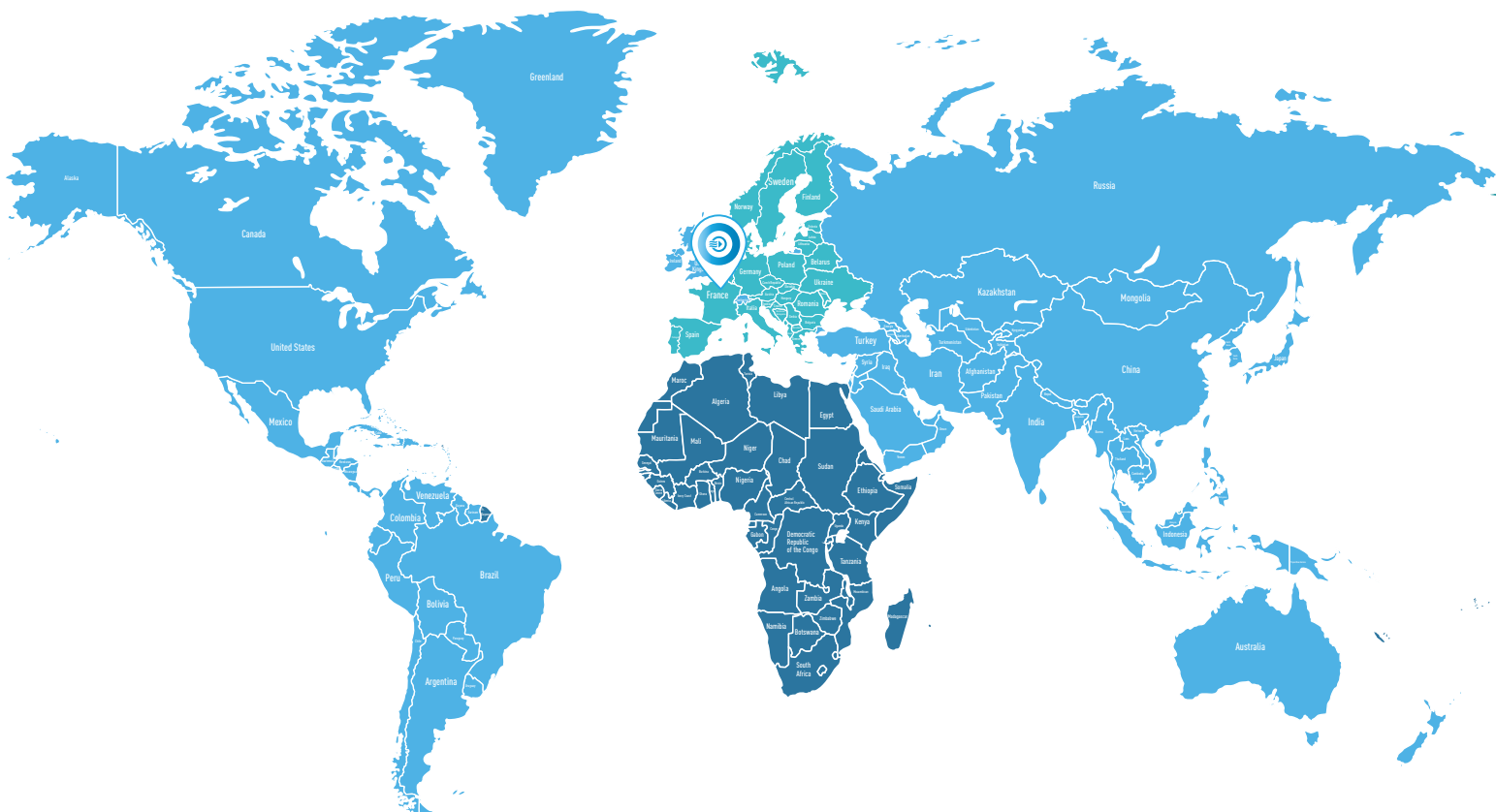
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