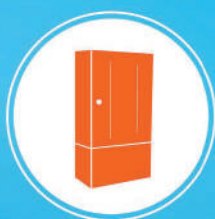


2 0 2 3



High innovation capacity for gas networks



GAS
CABINETS



NETWORK
PROTECTION



CATHODIC
PROTECTION



ATEX



SIGNAGE

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EXPERTISE AND CUSTOMIZED SERVICES

PCh is a manufacturer of equipment for gas and water networks.

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Prioritize customer satisfaction.

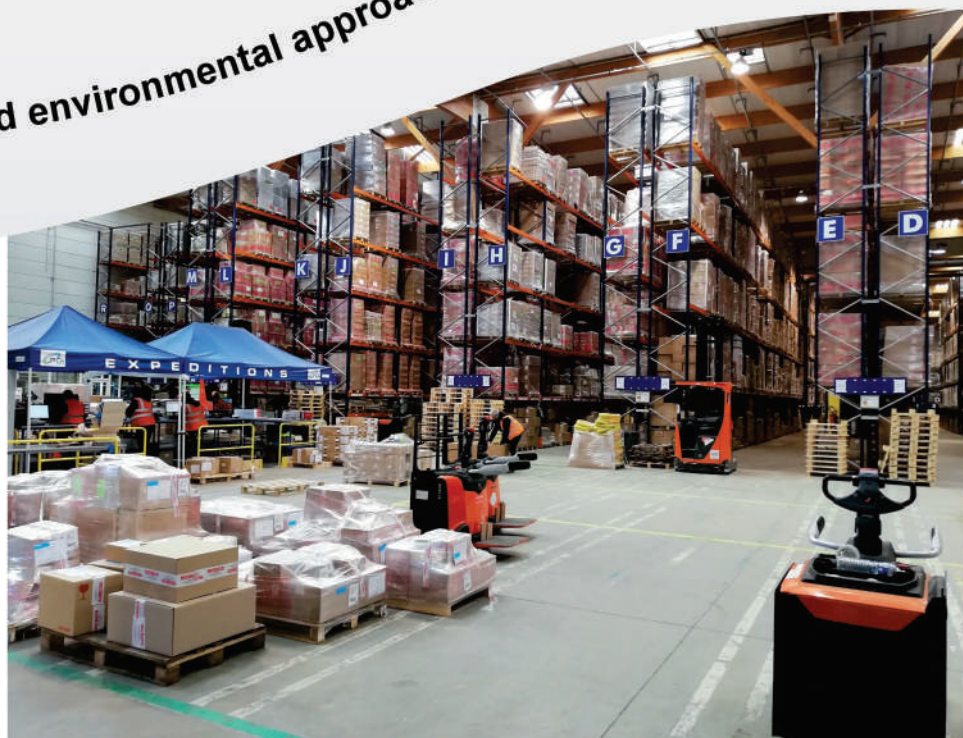
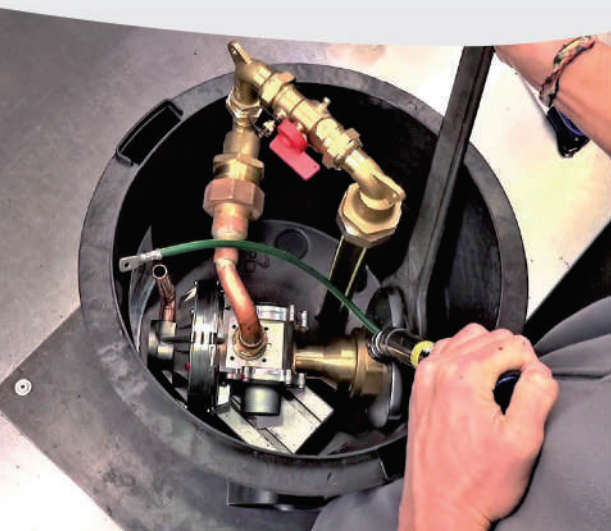


SUSTAINABLE DEVELOPMENT

Cultivate our social and environmental approach.



PCH, a responsible and environmental approach





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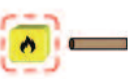

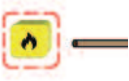









VI • OTHER SPECIFIC EQUIPMENT FOR GAS CUSTOMERS

IP - INTERNATIONAL PROTECTION MARRING

- It falls under the NF EN 60-529 standard.

It consists of 2 digits, the first digit indicates protection against solid objects, the second indicates protection against liquids such as water.

1 ST number		2 nd number	
0	No protection.	0	No protection.
1	 Protected against solid objects with a diameter greater than 50mm (back of hand).	1	 Protected against vertically water falling drops (condensation).
2	 Protected against solid objects with a diameter greater than 12mm (finger).	2	 Protected against drops of water up to 15° of inclination.
3	 Protected against solid object with a diameter greater than 2.5mm (wires, tools).	3	 Protected against rainwater up to 60° of inclination.
4	 Protected against solid object with a diameter greater than 1mm.	4	 Protected against water projections from all directions.
5	 Protected against dust (no harmful deposit).	5	 Protected against water jets from all directions.
6	 Dust proof.	6	 Protected against powerful water jets.
		7	 Protected against the effects of immersion.
		8	 Protected against prolonged effects of immersion under pressure.

IK - PROTECTION AGAINST MECHANICAL IMPACTS

- It falls under the NF EN 62-262 standard and consists of 2 digits ranging from 00 to 10.

	00	01	02	03	04	05	06	07	08	09	10
ENERGY IMPACT (in joules)	Not protected	0.15	0.2	0,35	0,5	0,7	1	2	5	10	20
EQUIVALENT IMPACT (Weight at 10 cm)	Not protected	150 g	200 g	350 kg	500 g	700 g	1 kg	2 kg	5 kg	10 kg	20 kg

PRODUCTS COMPLIANCE

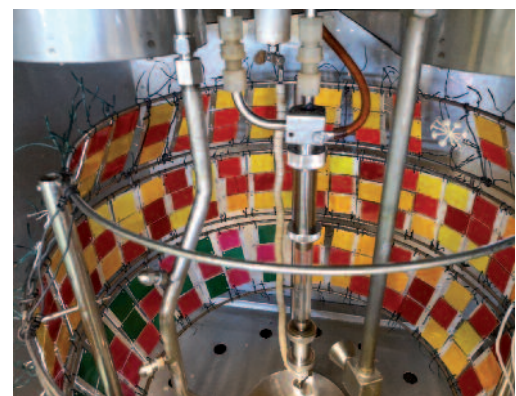
QUALIFICATION TESTS

- Our engineering teams work every day to offer to you the most innovative solutions.
- Our products are qualified according to applicable standards through external laboratories to guarantee their compliance.



RECURRENT TESTS

- Throughout the product's life, recurrent tests are carried out in the factory by our quality teams.
- They perform statistical sampling in the components, work-in-progress, and finished products stocks, with the aim of ensuring flawless quality.
- The equipped cabinets are individually validated by passing then through the sealing test bench according to GRDF standards.







CABINETS, ENCLOSURES AND GAS STATIONS



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Video of our
cabinets fabrication



BURIED CABINET



USAGE

- Installation on medium-pressure network (up to 4 bar) or low-pressure network (up to 50 mbar).
- Realization of cut-off and expansion connection.
- Installation under the sidewalk with the provided cast iron manhole cover of C250 class (250KN).
- Possible installation on the roadway with a D400 class (400KN) (not provided).
- Ensures a flow rate of 6 to 65 m³/h depending on the versions.
- Also available in a low-pressure version transformable to medium-pressure.
- Flow rate up to 100 m³/h.

ADVANTAGES

- Sliding composite frame adjustable at the road level.
- Removable and repositionable sealing system for inputs and outputs.
- Lid = multiple ventilation opening, waterproof against runoff water.

ADVANTAGES OF VERTICAL OUTPUT

- Bend vertical output ensuring compliance with the minimum load requirement: depth of copper output > 50 cm.
- Facilitated alignment of the input and output, allowing compliance with class A connection (according GRDF standard).
- Gas pipe input with a margin of manoeuvre, facilitating installation and avoiding tension during compaction.



DESCRIPTION

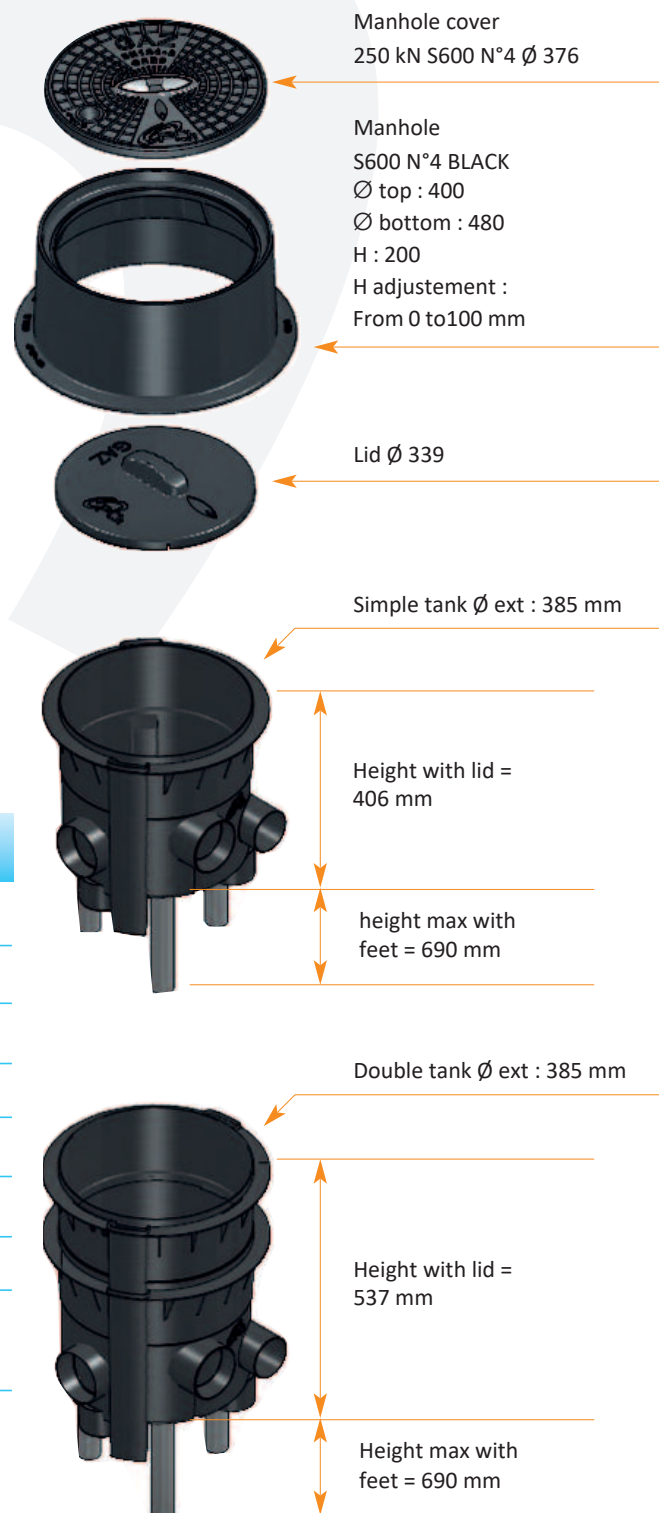
MATERIALS USED :

- Tank and cover: thermoplastic material.
- Manhole: cast iron with a capacity of 250 KN.
- Manhole frame: synthetic materials according to NF EN 124-5 standard.
- Sealing system for inputs/outputs: flexible thermoplastic.
- PVC feet with a diameter of 40mm.

DEGREE OF PROTECTION

- IPX1 according to 60529.
- IK09 according to EN 62262.

RANGE	PIPE ENTRY mm	PIPE EXIT mm	TANK
B6	PE Ø 20	Ø 28 Copper	Simple
B10 & B25	PE Ø 20	Ø 35 Copper	Simple
C40 & C65 C100	PE Ø 32	Ø 54 Copper	Double
LP/MP C25	PE Ø 32	Ø 28 Copper	Simple
LP/MP	PE Ø 40	Ø 35 Copper	Simple
Simple cut	PE Ø 20	PE Ø 20	Simple



GAS CABINET



GRDF STANDARDS :

MCOF205 / MCOE361 / MCOE364 / SBLD900

BURIED CABINET, HORIZONTAL EXIT



CUT-OFF AND REGULATOR REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA400	✓	Buried cabinet. B6NE 21MB with manhole	85 00 476
XA401	✓	Buried cabinet. B6NE 27MB with manhole	85 00 478
XA402	✓	Buried cabinet. B10NE 21MB with manhole	85 00 485
XA403	✓	Buried cabinet. B10NE 27MB with manhole	85 00 487
XA404	✓	Buried cabinet. B25NE 21MB with manhole	85 00 493
XA405	✓	Buried cabinet. B25NE 27MB with manhole	85 00 495
XA408	✓	Buried cabinet. C40E CU50 A REG ROB EA with manhole	85 00 529
XA409	✓	Buried cabinet. C65E CU50 A REG ROB EA with manhole	85 00 536

CUT-OFF LOW PRESSURE, MEDIUM PRESSURE CHANGEABLE

CODE		DESIGNATION	GRDF NOMENCLATURE
XA406	✓	Buried cabinet LP/MP C25 ROB E1A with manhole	85 00 506
XA407	✓	Buried cabinet LP/MP with manhole	85 00 507

BURIED CABINET, VERTICAL ENTRY-EXIT



Range B6 à B25 & BCH 30NE



Range C40 à C65, C100, CCH50E & CCH80E



Single cut-off range

CUT-OFF AND REGULATOR REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA420	✓	Buried cabinet. Vertical entry-exit B6NE 21MB with manhole	85 00 500
XA421	✓	Buried cabinet. Vertical entry-exit B6NE 27MB with manhole	85 00 502
XA422	✓	Buried cabinet. Vertical entry-exit B10NE 21MB with manhole	85 00 503
XA423	✓	Buried cabinet. Vertical entry-exit B10NE 27MB with manhole	85 00 504
XA424	✓	Buried cabinet. Vertical entry-exit B25NE 21MB with manhole	85 00 508
XA425	✓	Buried cabinet. Vertical entry-exit B25NE 27MB with manhole	85 00 509
XA426	✓	Buried cabinet. Vertical entry-exit C40E 21MB with manhole	85 00 514
XA451	✓	Buried cabinet. Vertical entry-exit C40E 27MB with manhole	85 00 551
XA427	✓	Buried cabinet. Vertical entry-exit C65E 21MB with manhole	85 00 521
XA452	✓	Buried cabinet. Vertical entry-exit C65E 27MB with manhole	85 00 553
XA439	✓	Buried cabinet. Vertical entry-exit C100E 21MB with manhole	85 00 541
XA450	✓	Buried cabinet. Vertical entry-exit C100E 27MB with manhole	85 00 555
XA430	✓	Buried cabinet. Vertical entry-exit BCH30NE with manhole	85 00 534
XA431	✓	Buried cabinet. Vertical entry-exit CCH50E with manhole	85 00 548
XA432	✓	Buried cabinet. Vertical entry-exit CCH80E with manhole	85 00 549

NEW

NEW

CUT-OFF REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA428	✓	Buried cabinet with vertical entry-exit, equipped with single cut-off type E DN15 with manhole	85 00 526
XA29	✓	Buried cabinet vertical entry-exit, equipped with single cut-off type E DN25 with manhole	85 00 527



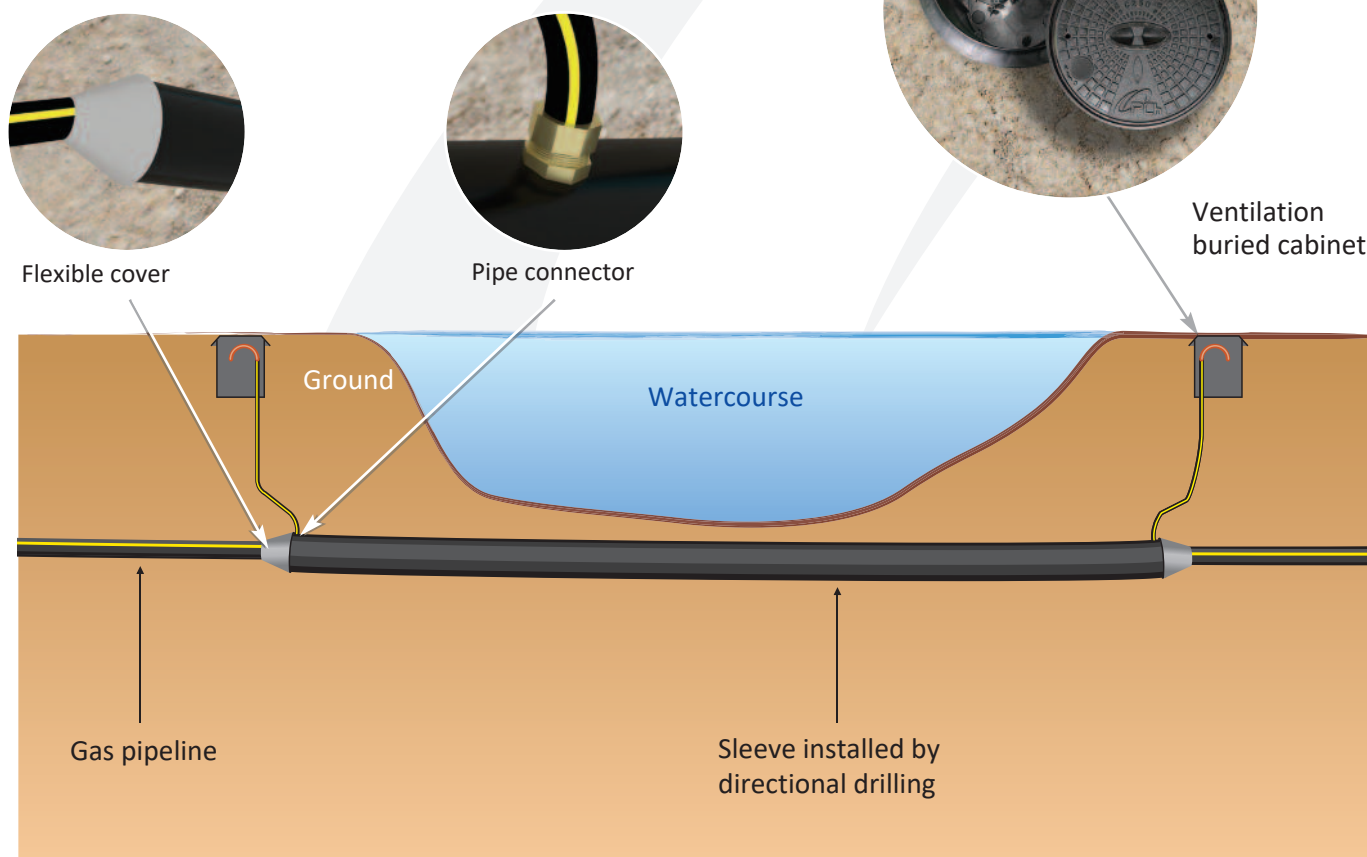
BURIED PIPE VENTILATION CABINET FOR DIRECTIONAL DRILLING USAGE

USAGE

- Ventilation of the directional drilling sleeve used to protect the gas pipeline (road or river crossing).
- Accessibility for periodic verification.

ADVANTAGES

- Buried tank and internal components approved by GRDF.
- Integrated connection allowing the installation of a flare stack.
- Easy access for the verifications.
- Delivered with composite frame and cast-iron manhole cover.
- Cover that adapts to drillings sleeves with a diameter of 125 to 315 mm.



NEW

DESCRIPTION

COMPOSITION :

- Tank and cover: thermoplastic material.
- Manhole: cast iron with a capacity of 250 kn.
- Manhole cover: synthetic materials according to the NF EN 124-5 standard.
- Sealing system for gas pipe input : Flexible thermoplastic.
- PVC feet Ø 40 mm.
- Kit XA435: two mechanical gas pipe connectors and one drill.
- Kit XA436: two sealing covers with clamps and tape.
- Kit XA437: two XA434 cabinets, one XA435 kit and one XA436 kit.

DEGREES OF PROTECTION:

- IPX1 according to EN 60529.
- IK09 according to EN 62262.



REFERENCES

CODE	DESIGNATION	AVAILABILITY
XA434	Buried ventilation cabinet	Product in stock, available on order
XA435	PE Ø 32 pipe connector	Product in stock, available on order
XA436	Sleeve cover kit	Product in stock, available on order
XA437	Full kit for 2 cabinets	Product in stock, available on order

NEW

GAS CABINET



GRDF STANDARDS :
CAO970 / SCOF240

S2400 CABINETS



USAGE

- This range of enclosures allowing to realize the connections for cut-off, regulation/ metering of 6 m³/h and for cut-off/ regulation of 6 to 65 m³/h.
- Modular range: the cabinet can be transformed into a higher cabinet by adding a high or low base.
- The flow can go up to 100 m³/h.

ADVANTAGES

- Compatible with electronic gas meter.
- Modern and consistent design with new low-voltage network and public lighting emergencies .
- The connection can be made for both low-pressure and medium-pressure networks.



XA005



XA006



XA003

NEW

DESCRIPTION

MATERIAL OF THE CABINET :

- Molded cabinet made of polyester reinforced with fiberglass.

CABINET COLOR :

- Ivory RAL 1015.

FIXATION :

- Flush-mounted or surface-mounted, mountable on a base.

WIDTH*HEIGHT*DEPTH (mm) :

- 350 x 485 x 195

LOCK :

- Closure by a device manoeuvrable with a rectangular key.



DEGREE OF PROTECTION

- IP33 according to EN 60529.
- IK10 according to EN 62262.

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA003	✓	S2400 RM LP cabinet for PE 63	85 04 010
XA004	✓	S2400 MP 37MB ROB E1 cabinet	85 04 012
XA005	✓	S2400 LP ROB E1 cabinet	85 04 015
XA006	✓	S2400 C40 21MB ROB E1A cabinet	85 04 020
XA007	✓	S2400 C40 27MB ROB E1A cabinet	85 04 021
XA008	✓	S2400 C65 21MB ROB E1A cabinet	85 04 022
XA009	✓	S2400 C65 27MB ROB E1A cabinet	85 04 023
XA010	✓	S2400 C100 21MB ROB E1A-AC60 cabinet	85 04 026
XA011	✓	S2400 C100 27MB ROB E1A-AC60 cabinet	85 04 027
XA017	✓	S2400 high-base	85 00 658
XA018	✓	S2400 low-base	85 04 002

NEW



CUT-OFF CABINET FOR SINGLE UNITS



USAGE

- The French decree of February 23, 2018 defines a single unit as an buildings complex consisting of individual and/or collective housing units whose indoor gas installations are supplied by a common gas distribution network.
- These new units must be equipped with a main tap (general cut-off device) at the property boundary and a secondary tap (complementary cut-off device) before the entrance of each building.



XA020

ADVANTAGES

- Equipped with the new hingeless panel reduced maintenance and ease of access to the inside of the cabinet.
- Mounting possible on high base, low base or flush-mounted.
- Cut-off visible on cabinet with general cut-off device by simply removing the input/output copper connection and placing caps on the outlets.

NEW

DESCRIPTION

MATERIAL OF THE CABINET :

- Molded cabinet made of polyester reinforced with fiberglass.

COLOR:

- Ivory RAL 1015.

FIXATION :

- Flush-mounted or surface-mounted, mountable on a base.

WIDTH*HEIGHT*DEPTH (mm) :

- 50 x 485 x 195.

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DEGREE OF PROTECTION :

- IK10 according to EN 62262.
- IP43 according to EN 60529.



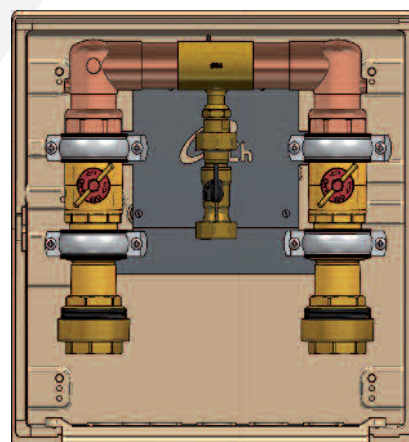
XA023



XA022



XA024



XA216

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA020	✓	S2400 O.C.G. MPB ROB E1A PE40/32 SC cabinet	85 04 014
XA003	✓	S2400 cut-off cabinet LP ROB C CARRE PE63/50 PG	85 04 010
XA024	✓	S2400 cut-off cabinet LP ROB CA SECU PE63/50 PG	85 04 011
XA022	✓	S2400 cut-off cabinet MPB ROB E1A PE32/25 SC	85 04 019
XA023	✓	S2400 cut-off cabinet MPB ROB E1A PE40/32 SC	85 04 031
XA216	✓	S300 GCD ROB EA 50 cabinet	85 04 009



GRDF REFERENCES:

Adaptability on enclosures following SCOF240

S2400/S2300 PANEL RENOVATION KIT

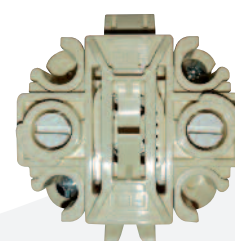


USAGE

- Repair or replacement of S2400/S2300 enclosure doors with a hingsless removal panel.

ADVANTAGES

- Compatible with all generations and brands of S2300 and S2400 cabinets or high cabinets.
- Simplified access to the inside of the cabinet.
- Increased interior space to facilitate the installation of communicating meters.
- More robust solution than hinged doors.
- Easy to implement using a simple flathead screwdriver.
- Reversible lock with ¼ turn captive screws (adapatation to different brands).
- Durable maintenance.



Reversible lock



DESCRIPTION

COMPOSITION :

- Adapter strip + fixing screws.
- Reversible double bolt lock.
- Panel made of polyester reinforced with fiberglass.

COLOR :

- Ivory RAL 1015.

FIXATION :

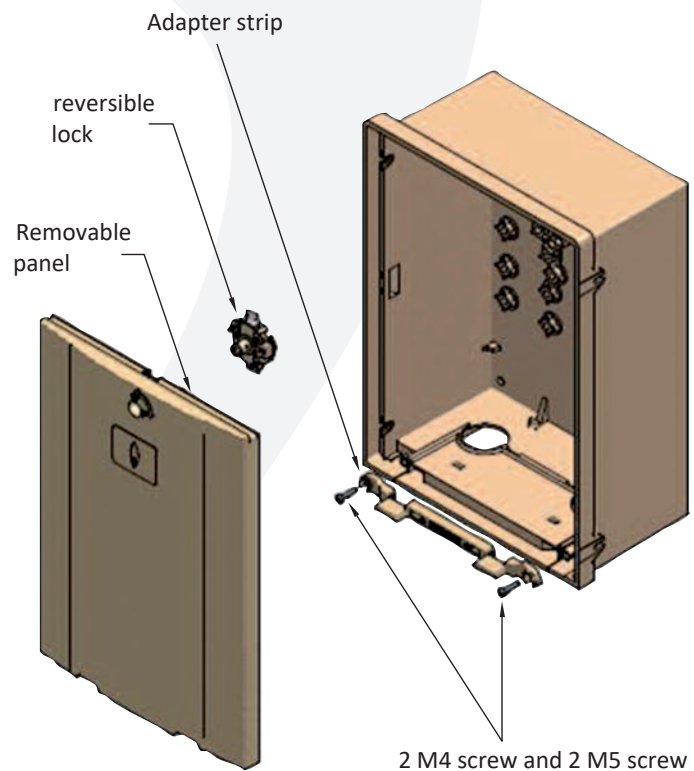
- Flush-mounted or surface-mounted, mountable on a base.

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DEGREE OF PROTECTION :

- IP33 according to EN 60529.
- IK10 according to EN 62262.



REFERENCE

CODE		DESIGNATION	GRDF NOMENCLATURE
XA015	✓	S2400/S2300 panel renovation kit	85 04 003



S22 CABINET



USAGE

- Allows the realization of connections/cut-off/ regulation from 6 to 30m³/h.

ADVANTAGES

Cabinet available in three possible configurations:

- Low cabinet .
- Tall cabinet.
- High cabinet.

DESCRIPTION

CABINET MATERIAL :

- Molded cabinet made of polyester reinforced with fiberglass.

CABINET COLOR :

- Ivory RAL 1015.

FIXING :

- Flush-mounted or surface-mounted, mountable on a base.

WIDTH*HEIGHT*DEPTH (mm) :

- Low cabinet: 230 x 340 x 180.
- Tall cabinet: 230 x 485 x 180.
- High cabinet: 230 x 692 x 180.

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DEGREE OF PROTECTION

- IP43 according to EN 60529.



XA100



XA107



XA117

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA100	✓	S22 B6N 21MB ROB E1 low cabinet	85 00 918
XA113	✓	S22 B6N 27MB ROB E1A low cabinet	85 02 001
XA102	✓	S22 B10N 21MB ROB E1A low cabinet	85 00 928
XA114	✓	S22 B10 27MB ROB E1A low cabinet	85 02 002
XA101	✓	S22 B25N 21MB ROB E1A low cabinet	85 00 921
XA115	✓	S22 B25N 27MB ROB E1A low cabinet	85 02 003
XA103	✓	S22 B6N 21MB ROB E1A tall cabinet	85 00 930
XA106	✓	S22 B6N 21MB ROB E1A tall cabinet	85 00 942
XA104	✓	S22 B25N 21MB ROB E1A tall cabinet	85 00 933
XA105	✓	S22 LP/MP ROB E1A tall cabinet	85 00 939
XA107	✓	S22 LP/MP ROB E1A 25/32 tall cabinet	85 00 944
XA108	✓	S22 B6N 21MB ROB E1 high cabinet	85 00 945
XA111	✓	S22 B10N 21MB ROB E1A high cabinet	85 00 957
XA116	✓	S22 B10N 27MB ROB E1A high cabinet	85 02 021
XA109	✓	S22 B25N 21MB ROB E1A high cabinet	85 00 948
XA117	✓	S22 B25N 27MB ROB E1A high cabinet	85 02 022
XA110	✓	S22 LP/MP ROB E1 high cabinet	85 00 954
XA112	✓	S22 LP/MP ROB E1A 25/32 high cabinet	85 00 959
XA118	✓	Empty low cabinet S22 flame	85 00 910
XA119	✓	Low cabinet door S22 flame	85 00 911
XA120	✓	Empty tall cabinet S22 flame	85 00 912
XA122	✓	Tall cabinet door S22 flame	85 00 914
XA121	✓	Empty high cabinet S22 flame	85 00 913
XA123	✓	Empty base S22 flame	85 00 915

GAS CABINET



GRDF REFERENCES :

CAO970 / MCOF303 / BRCM91

S300 CABINET



USAGE

- Allows for double cut-off/détente/metering connections, up to 6 m³/h or single up to 30 m³/h.

DESCRIPTION

CABINET MATERIAL :

- Cabinet in molded polyester reinforced with fiberglass or PVC depending on the references.

CABINET COLOR :

- Ivory RAL 1015.

WIDTH*HEIGHT*DEPTH (mm) :

- 532 x 520 x 202

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DEGREE OF PROTECTION :

- IP43 according to EN 60529.
- IK10 according to EN 62262.

IMPLEMENTATION :

- Can be recessed or placed on a base according to the MCOF303 standard.
- The implementation specifications are defined in the BRCM91 standard.



XA221



XA225

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA220	✓	S300 2 electronic meters LP G4 cabinet	84 53 751
XA221	✓	S300 electronic meter MP 2G4 B6N 21MB cabinet	84 53 752
XA222	✓	S300 electronic meter MP 2G4 B6N 27MB cabinet	84 53 753
XA223	✓	S300 electronic meter MP B10N 21MB E1A cabinet	84 53 754
XA224	✓	S300 electronic meter MP B10N 27MB E1A cabinet	84 53 755
XA225	✓	S300 electronic meter MP B25N 21MB E1A cabinet	84 53 756
XA226	✓	S300 electronic meter MP B25N 27MB E1A cabinet	84 53 757
XA227	✓	S300 electronic meter LP G6/10 E1A cabinet	84 53 758
XA228	✓	S300 electronic meter BCH30N 300MB E1A cabinet	84 53 759
XA209	✓	S300 ivory base	84 53 750
XA210	✓	S300 ivory empty cabinet	85 00 301
XA511	✓	S300 ivory empty cabinet for electronic meter	85 00 305
XA214	✓	S300 ivory door	85 00 394
XA513	✓	S300 ivory door for electronic meter	85 00 381
XA211	✓	S300 grey door	85 00 391
XA212	✓	S300 special grey door	85 00 392
XA213	✓	S300 ivory door with window	85 00 393
XA215	✓	S300 special ivory door	85 00 395
XA512	✓	S300 grey door for electronic meter	85 00 382

GAS CABINET



GRDF REFERENCES :

MCOE270 / MCOF350 / MCOF351

HORIZONTAL RENOVATION CABINET



USAGE

- Low-height equipped cabinet for 6m³/h 21 mb or 27 mb.
- Ideal solution for flush mounted in situations of limited height. See CA0970 standard.

ADVANTAGES

- Replacement solution for the old version of the horizontal renovation cabinet (8500960).
- Easy connection due to a large working width.
- Suitable for flush mounted in a wall with the new generation of S2400 type of cabinet.
- Modern and consistent design with the new generation of S2400 type or with the new low-voltage network and public lighting cabinets.

EXAMPLES OF INTEGRATION



XA301



XA304



DESCRIPTION

CABINET MATERIAL :

- Molded cabinet made of polyester reinforced with fiberglass.

CABINET COLOR :

- Ivory RAL 1015.

WIDTH*HEIGHT*DEPTH (mm):

- 428 x 364 x 204

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DOOR :

- Opens up to 90 degrees to the right and equipped with a removal system for easy access to the contents of the cabinet.

CABINET PAINT :

- Surface preparation (cleaning with solvent, light sanding with fine sandpaper).
- Painting with a special plastic primer, then use an exterior finishing paint.

EQUIPMENT OF THE METAL MOUNTING AND LOW-PROTECTION PLATE :

- 1 brass tap MPB type E1/ 15 gauge (84 03 036).
- 1 pressure regulator 21 mb or 27 mb / b6 N gauge (84 50 123 or 84 50 126).
- 90-degree JPC coude / 20 gauge (82 21 189).
- Outlet connection for renovation cabinet/ 20 gauge (8234 110).
- Not provided: 110 mm G4 meter (41 21 xxx) and flat meter join DN 20 (82 72 040).

DEGREE OF PROTECTION :

- IP43 according to EN 60529.
- IK10 according to EN 62262.

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA301	✓	Horizontal renovation cabinet B6 N – PE15/CU22 21 MB	85 00 967
XA302	✓	Horizontal renovation cabinet B6 N – PE15/CU22 27 MB	85 00 969
XA300	✓	Empty horizontal renovation cabinet	85 00 964
XA304	✓	Door for horizontal renovation cabinet	85 00 965

GAS CABINET :

GRDF REFERENCES :
MCOF350 / MCOF352



HORIZONTAL RENOVATION ADAPTATION KIT FOR ELECTRONIC METER



USAGE

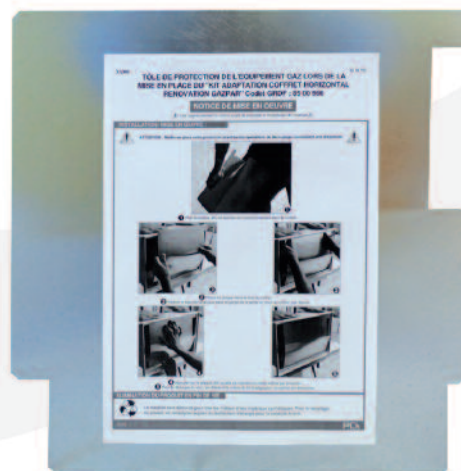
- Allows the modification of an already flush mounted horizontal renovation cabinet (GRDF codes 85 00 962 and 85 00 963) for the integration of a new electronic gas meter without changing the entire cabinet.



XA303

ADVANTAGES

- Adaptation of the kit for all flush mounted horizontal renovation cabinets with a height greater than or equal to 60 mm compared to the finished-floor level.
- Allows the deployment of a electronic meter without changing the already flush mounted tank.
- Quick implementation.
- Allows to maintain the gas connection at a location where the available height is limited.
- Reduced cost.
- Reliability of the solution in the long term.



XA305

DESCRIPTION

CABINET MATERIAL :

- Polyester reinforced with fiberglass

CABINET COLOR :

- Ivory RAL 1015.

WIDTH*HEIGHT*DEPTH (mm) :

- Door : 414*356*47.
- Protective steel sheet: 361*355*1.

LOCK :

- Closure by a device manoeuvrable with a rectangular key.

DOOR :

- Opens up to 90 degrees to the right and equipped with a removal system for easy access to the contents of the cabinet.

CABINET PAINT :

- Surface preparation (cleaning with solvent, light sanding with fine sandpaper).
- Painting with a special primer for plastic, then use an exterior finishing paint.

COMPOSITION DU KIT :

- 1 still hinge.
- 1 removable hinge.
- 1 removable hinge lock.
- 2 self-drilling screws PH 3.9*32 mm.
- 2 TR plastic screws 4*12 mm.
- 1 door.
- 1 lock.
- 1 cover.
- 1 wall-cutting template.
- 1 spiral sleeve for protection of the PE gas pipe.

Protection of the gas equipment in the horizontal renovation cabinet during the installation of the XA303 kit:

- Use of the mandatory mechanical protective steel sheet (MCOF352).

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA303	✓	electronic meter Adaptation kit – horizontal renovation cabinet	85 00 966
XA305	✓	Protection steel sheet for mounting the electronic meter conversion kit (sales unit: 10)	85 00 972
XA306	*	horizontal renovation cabinet removable door	85 00 992

* Product to be order by quotation



DIVERSE CABINETS AND ACCESSORIES



REFERENCES

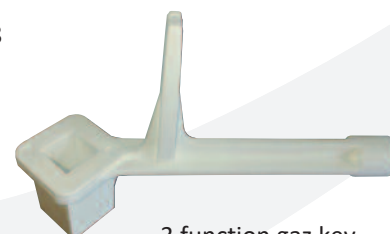
CODE		DESIGNATION	GRDF NOMENCLATURE
XA500	✓	key for rectangle holes 5x10 + square M14	84 33 538
XA501	✓	key for triangle M11 + square M14	84 33 542
XA502	✓	S200 grey door	85 00 270
XA506	✓	S2200 ivory door	85 00 554
XA507	✓	Gas cabinet triangular lock	85 00 990
XA508	✓	Gas cabinet rectangular lock	85 00 991
XA509	✓	S50 high cabinet with connection terminal	86 01 106
XA510	✓	Grey door for S250 with electronic meter	85 00 273
XA514	✓	Ivory door for S2200 with valve access	85 00 556



XA510



XA508



3 function gas key

CABINET GROUND FIXATION ADAPTATION KIT



USAGE

- Change of a high cabinet with another one that could have a different feet layout without concrete rework.
- In the case of same feet layout, the kit allows to modify the alignment of the high cabinet.

ADVANTAGES

- Kit compatible with all cabinet brands, regardless of the size and generation.
- Avoids the full excavation.
- Adaptable to already sealed feet.
- Easy and simple cabinet replacement.
- Compatible with all feet layout S2300, S2400, S22, S300.



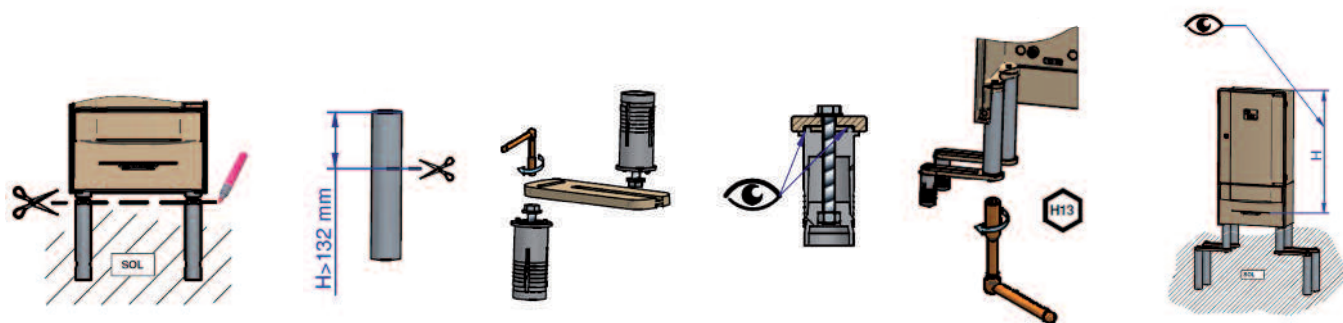
DESCRIPTION

MATERIALS USED :

- PVC fixation system.
- Bolts : galvanized steel and stainless steel.

COMPOSITION :

- 4 support plate.
- 8 fixations system with 32 mm diameter.
- 8 cones with 40 mm diameter.



- Cut the feet to be replaced at the appropriate level.
- Cut the feet of the new cabinet, leaving at least 132 mm.
- Choose the appropriate fixation system and assemble them with the support plate without locking them.
- Fix the feet to the cabinet and then insert the 4 fixation system.
- Orient the support plate and adjust the distance to be aligned with the old feet.

REFERENCES

CODE	DESIGNATION	GRDF NOMENCLATURE
X799	Cabinet ground fixation adaptation kit \varnothing 32 et \varnothing 40	85 00 982



CABINET GROUND FIXATION ELONGATION REPAIR KIT



USAGE

- Repair of cabinet feet when their feet blocked in concrete are broken.
- Raising of cabinet during the refurbishment of sidewalks or roadways.
- Can only be used if the breakage of the feet is less than 250 mm from the point of support of the cabinet.
- Compatible with all cabinet with $\varnothing 32$ or $\varnothing 40$ mm feet.

ADVANTAGES

- Adaptable on pre-sealed feet.
- Avoids the full resumption of the excavation.
- Easy positioning in the existing feet.
- Quick and simplified cabinet replacement.
- Easy to implement.

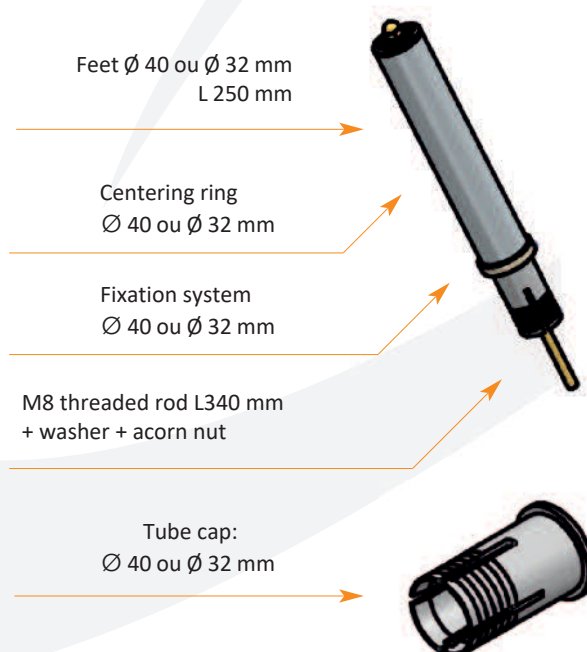
DESCRIPTION

MATERIALS USED :

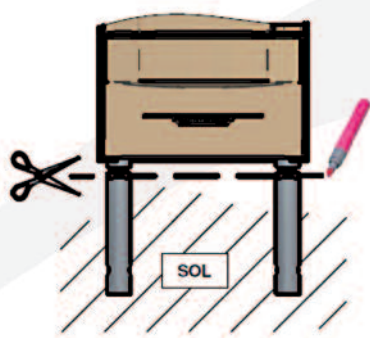
- Fixation system : PVC.
- Feet : PVC.
- Bolts: steel.
- Other parts: PVC.

COMPOSITION :

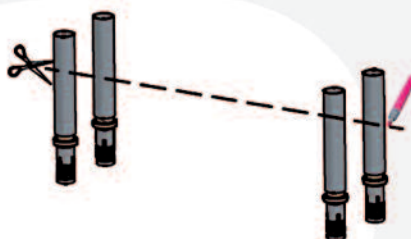
- 4 feet of length 250 mm.
- 4 fixation system.
- 4 threaded rods of length 340 mm.
- 4 washers / 4 acorn nut / 4 tube caps.



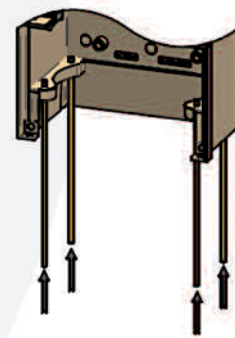
IMPLEMENTATION



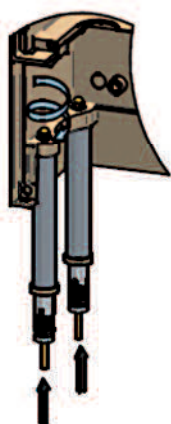
- 1 • Cut the feet that needs to be replaced at the right level.



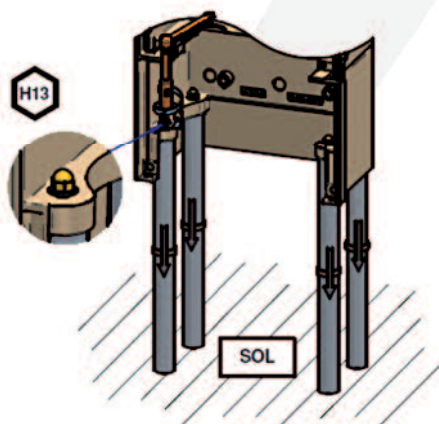
- 2 • Mark and cut the feet at the right level.



- 3 • Remove the acorn nuts and washers. Place the threaded rods through the tank.



- 4 • Replace the washers and the acorn nuts. Pre-screw by hand the feet and the fixation system onto the threaded rods.



- 5 • Mount the box equipped with its repair kit onto the previously cut feet and tighten the threaded rods tightly.

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
X797	✓	32 Repair cabinet feet kit	85 00 980
X798	✓	40 Repair cabinet feet kit	85 00 981



OUTDOOR GAS TECHNICAL ENCLOSURE



USAGE

- The outdoor gas technical enclosure allow the installation of 3 to 10 G4 gas meters. They are used to connect collective buildings to gas distribution networks. Their main advantage is to connect several customers to a single connection point.
- The outdoor gas technical enclosure are available with regulators (21, 27 and 37 mbars) or without regulators for connection to low-pressure networks, with or without base.

DESCRIPTION

ENCLOSURE COMPONENTS :

- Aluminium Base.
- Aluminium enclosure with ventilated door.
- Certified NF ROB-GAZ tap.
- Grounding kit (optional).
- Mounted cut-off bar (optional).

ENCLOSURE MATERIALS :

- Painted aluminium enclosure and base.
- Copper pipe.
- Brass connectors.

COLORS :

- Ivory RAL 1015.

Width*height*depth (mm) :

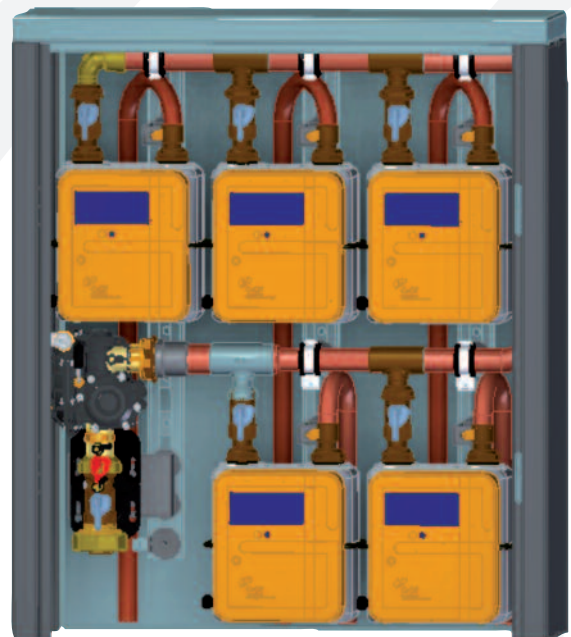
- Enclosures for 3-4-5 meters: 690*800*250.
- Enclosures for 6-8 meters: 1100*800*250.
- Enclosures for 10 meters: 1300*800*250.

LOCK :

- Rectangular lock.

DEGREE OF PROTECTION :

- IP33 according to EN 60529.
- IK10 according to EN 62262.



Outdoor gas technical enclosure



REFERENCES

DESIGNATION	WITHOUT BASE		WITH BASE	
	CODE	GRDF NOMENCLATURE	CODE	GRDF NOMENCLATURE
PTG 3 COMPT MPB-21MBAR	XE210	85 01 101 XE213		85 01 111
PTG 3 COMPT MPB-27MBAR	XE211	85 01 141 XE214		85 01 151
PTG 3 COMPT MPB-37MBAR	XE212	85 01 161 XE215		85 01 171
PTG 3 COMPT PB	XE216	85 01 121 XE217		85 01 131
PTG 4 COMPT MPB-21MBAR	XE218	85 01 102 XE221		85 01 112
PTG 4 COMPT MPB-27MBAR	XE219	85 01 142 XE222		85 01 152
PTG 4 COMPT MPB-37MBAR	XE220	85 01 162 XE223		85 01 172
PTG 4 COMPT PB	XE224	85 01 122 XE225		85 01 132
PTG 5 COMPT MPB-21MBAR	XE226	85 01 103 XE229		85 01 113
PTG 5 COMPT MPB-27MBAR	XE227	85 01 143 XE230		85 01 153
PTG 5 COMPT MPB-37MBAR	XE228	85 01 163 XE231		85 01 173
PTG 5 COMPT PB	XE232	85 01 123 XE233		85 01 133
PTG 6 COMPT MPB-21MBAR	XE234	85 01 104 XE237		85 01 114
PTG 6 COMPT MPB-27MBAR	XE235	85 01 144 XE238		85 01 154
PTG 6 COMPT MPB-37MBAR	XE236	85 01 164 XE239		85 01 174
PTG 6 COMPT PB	XE240	85 01 124 XE241		85 01 134
PTG 8 COMPT MPB-21MBAR	XE242	85 01 105 XE245		85 01 115
PTG 8 COMPT MPB-27MBAR	XE243	85 01 145 XE246		85 01 155
PTG 8 COMPT MPB-37MBAR	XE244	85 01 165 XE247		85 01 175
PTG 8 COMPT PB	XE248	85 01 125 XE249		85 01 135
PTG 10 COMPT MPB-21MBAR	XE250	85 01 106 XE253		85 01 116
PTG 10 COMPT MPB-27MBAR	XE251	85 01 146 XE254		85 01 156
PTG 10 COMPT MPB-37MBAR	XE252	85 01 166 XE255		85 01 176
PTG 10 COMPT PB	XE256	85 01 126 XE257		85 01 136

OPTIONS

Equipped grounded kit	XE258	84 60 160
Mounted cut-off bar	XE259	85 01 002



KITCHEN SUPPLY TECHNICAL ENCLOSURE



USAGE

- These enclosures are installed in buildings without individual meters.
- The system are offered in an enclosure or on a steel sheet for an inside application without metering.

DESCRIPTION

ENCLOSURE COMPONENTS :

- Aluminium base (optional).
- Aluminium bottom lock plate (optional).
- Aluminium enclosure with ventilated door.
- Certified NF ROB-GAZ tap.

ENCLOSURE MATERIALS :

- Steel plate.
- Painted aluminium enclosure and base.
- Copper pipe.
- Brass connectors.

COLORS :

- Ivory RAL 1015.

Width*height*depth (mm):

Enclosure :

- 690*800*250.

LOCK :

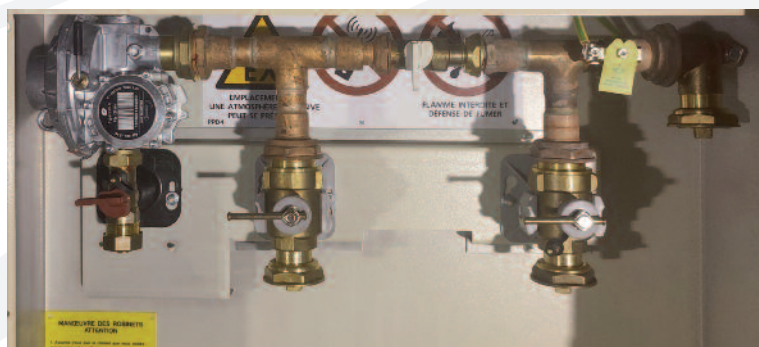
- Rectangular lock.

DEGREE OF PROTECTION :

- IP33 according to EN 60529.
- IK10 according to EN 62262.



Kitchen supply technical enclosure



XE261 - Interior view



XE266



XE260
To
XE263

XE264

REFERENCES

XE260	✓	KITCHEN ENCLOSURE MP B10-E1A	85 01 180
XE261	✓	KITCHEN ENCLOSURE MP B25-E1A	85 01 181
XE262	✓	KITCHEN ENCLOSURE LP-E1A	85 01 182
XE263	✓	KITCHEN ENCLOSURE LP-EA	85 01 183
XE264	✓	KITCHEN ENCLOSURE BASE	85 01 184
XE265	✓	BOTTOM LOCK PLATE	85 01 185
XE266	✓	Mounted steel sheet without meter G6	85 01 186
XE267	✓	Mounted steel sheet without meter G4	85 01 187



DOUBLE CONNECTION UNDERGROUND NETWORK STATIONS

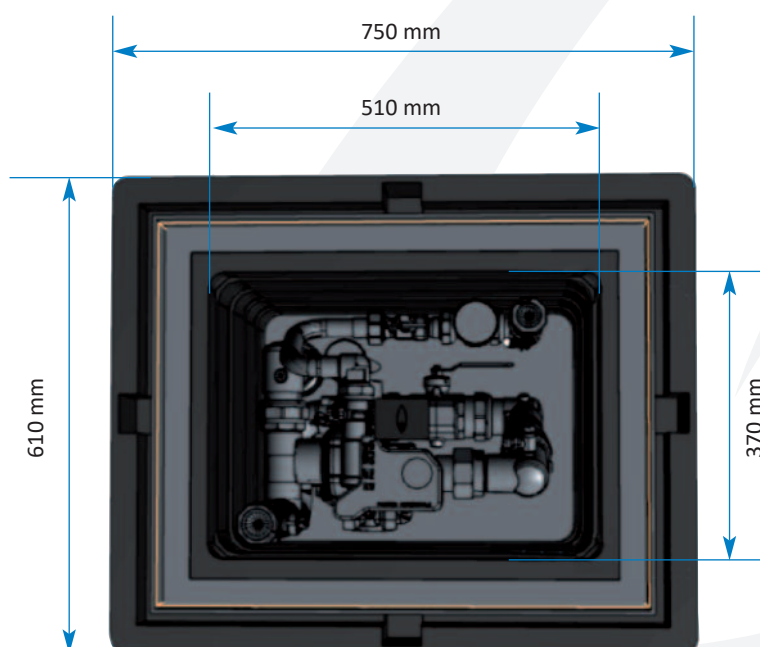


USAGE

- These buried enclosure supply gas to a low-pressure in a derivated network.

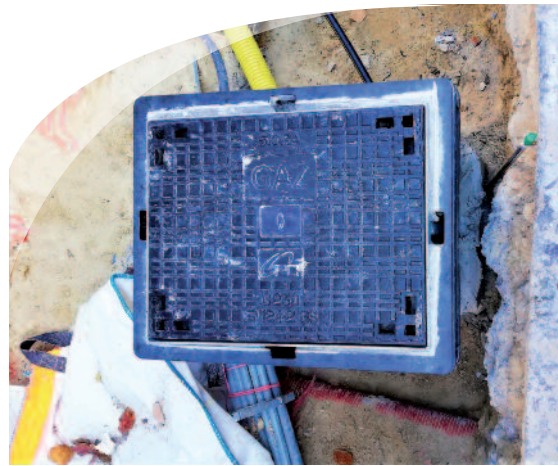
ADVANTAGES

- These systems allow the installation of a bypass to maintain the delivery in gas to the customers.
- Regulators are installed in a high position in the enclosure to facilitate the maintenance interventions.
- The same enclosure and the same internal components can allow a switch from an R100 model to an R25 by changing the regulator and installing a pipe adapter.



DESCRIPTION

- Thermoplastic tank.
- C250 cast iron manhole cover according to the EN 124-2.
- Network regulator R100E or R25E depending on the version.
- All internal components are approved by GRDF.



REFERENCES

CODE	DESIGNATION
XE800	Underground R25E pressure regulating station with double connection.
XE801	Underground R100E pressure regulating station with double connection.





NETWORK PROTECTION

D • MECHANICAL PROTECTION

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E • PASSIVE PROTECTION

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METER BOARD FOR BUILDING NETWORK



USAGE

- This meter board serves as a support for the meter during the installation of the rising column and ensures its installation in compliance with the rules of the art.
- It supports the weight of the meter, without any constraint on the upstream welds and independently of the connected outlet.

ADVANTAGES

The meter board allows to guarantee the following points:

- The installation and removal of the meter without stressing the welds.
- The space between the entry and exit of the gas meter (110 mm).
- L'altimétrie of the two input/output connections.
- The location of the GRDF identification plate.
- The installation of the "shunt".
- The downstream compatibility of both copper and PLT meters.



NEW

DESCRIPTION

MATERIAL :

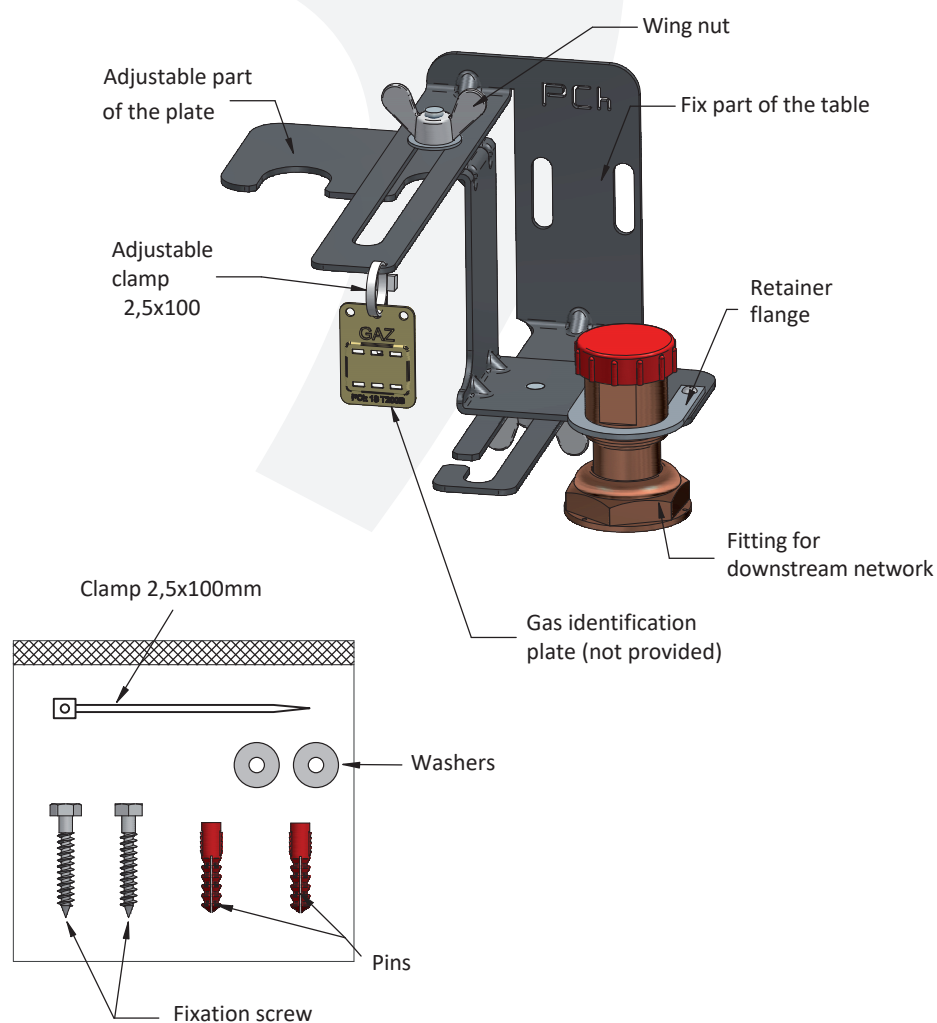
- Galvanized steel sheet.

COMPONENTS :

- Fixed plate for wall mounting.
- Adjustable plate.
- Tight screws.
- Brass connectors for customer network connection with copper or PLT cross.
- Fixing accessories included.

WIDTH*HEIGHT*DEPTH (mm)

- 160 x 110 x 170.



REFERENCES

CODE	DESIGNATION	GRDF NOMENCLATURE
XE001	Meter mounting plate	82 21 222



PIPING SYSTEM



USAGE

- Centering and protection of the PE gas pipe during the tubing operation.

ADVANTAGES

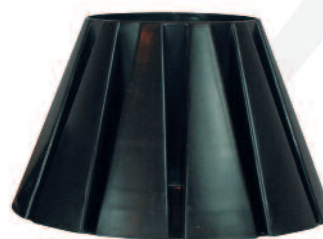
- Protects against injuries caused by the ends of the metal pipe during the tubing operation.
- Prevents sand from flowing into the tubed pipe while allowing the escape of any gas leaks.
- Mandatory to prevent road collapses.
- Eco-production: made from recycled materials.
- The kits of 10 tubings include all necessary elements for the implementation:
 - 10 cones and shells.
 - 10 installation kits (fixing brackets and strap).
 - 10 covers.
 - 1 guidance tool.



X251



X252



X253

Ø Minimal interior of the sleeve (in mm)	Ø Minimum allowed interior diameter			PE 40	PE 63	PE 110	PE 125	PE 160	PE 200
	Cast iron Ø int/ext	Steel Ø int/ext	Bituminous metal sheet Ø int/ext						
80		82/89	81/83	Casing cone for PE63 into pipe 80-100					
100	105/118	107/114	108/110						
150	157/170	161/168	162/164	Casing cone for PE125 into pipe 150-200					
200	209/222	212/219	216/218						
250	312/324	316/326	300/304	Casing shell for PE200 into pipe 250-400					
300 (*)									

* The shell is sized for the sleeve casing up to 400mm of internal diameter.

DESCRIPTION

CONES AND SHELLS :

- Injected thermoplastic.
- Two identical half-shells per diameter.
- Entrance flange to facilitate the penetration of the PE during piping.
- Longitudinal ribs to ensure degassing in case of leakage.

CONE (X255) OR SHELL (X256) INSTALLATION KIT :

- 4 fixation lugs model adapted according to a cone or shell installation.
- 1 clamping belt (X255 : 2m, X256 : 5m).

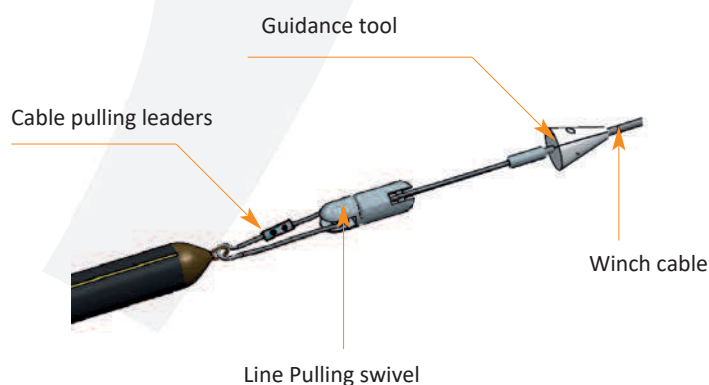
BACKFILL INTRUSION PROTECTION

SYSTEM : GEOTEXTILE COVER:

- 2 models : one for cone (X257) and one for shell (X258).
- Geotextile cover + 1 adjustable clamp + 2 adjustment buckle.

GUIDANCE TOOL :

- Two half thermoplastic shells and two assembly screw.
- Allows the guiding and centering of the pulling cable.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
X251	✓	Cône tubage PE63 / Fourr. 80-100	86 20 461
X252	✓	Cône tubage PE125 / Fourr. 150-200	86 20 462
X253	✓	Coque tubage PE200 / Fourr. 250-400	86 20 468
X255	✓	Cone installation kit	86 20 469
X256	✓	Shell installation kit	86 20 471
X257	✓	Geotextile cover for cone	86 20 470
X258	✓	Geotextile cover for shell	86 20 472
X259	✓	Outil guidage cône/coque de tubage	86 20 473
X254	✓	10 pipings (tubage) kit PE63 / Fourr. 80-100	86 20 474
X260	✓	10 pipings (tubage) PE125 / Fourr. 150-200	86 20 475
X261	✓	10 piping (tubage) PE200 / Fourr. 250-400	86 20 476



HDPE GAS NETWORK PROTECTION PLATES



USAGE

- Protection against transverse and longitudinal pulling of buried gas pipelines.
- Used for pipe under infrastructures or in areas with high density of buried structures.
- Suitable for all distribution pipelines with a maximum operating pressure (MOP) of 4 bar (medium pressure) or polyethylene pipelines with a maximum operating pressure of 8 bar (high pressure).
- Replace in an effective way the protection of gas pipelines to/into concrete and allows for easy intervention if necessary.

DESCRIPTION

MATERIAL USED :

- Virgin HDPE (high-density polyethylene) compliant with NF EN I 1872-1.

THICKNESS :

- 15 mm.

OPERATING TEMPERATURE RANGE :

- -25°C à +50°C.

DENSITY :

- > 930 kg/m³.

MINIMUM LIFESPAN :

- 60 years (regulatory requirements).

COUPLING :

- Longitudinal and T-shaped by (jumper link).

COLOR :

- Yellow (mass-colored HDPE).

ADVANTAGES

- Detections and the identification of the facilitated network during excavation.
- Provides permanent and durable mechanical protection.
- Easy to transport and install, especially compared to/for a concrete protection.
- Easy to store.



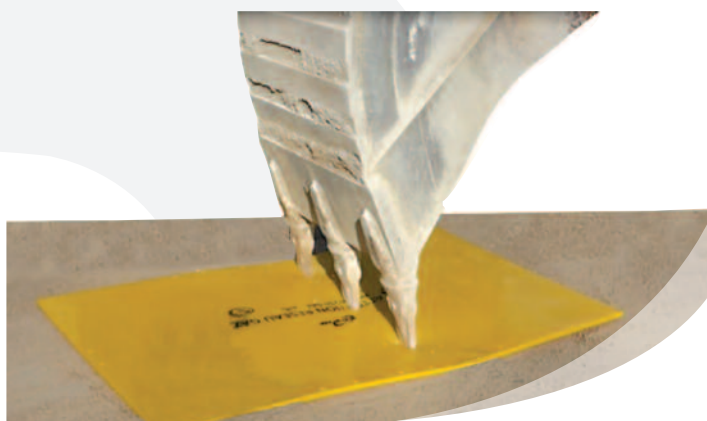
X011



X010 linked with X012

RESISTANCE

- Resistance to vertical impacts without perforation (test with an 18-ton mechanical excavator bucket falling from a height of 100cm).
- Resistance to longitudinal excavation impacts.
- Transverse protection of the pipeline (no access to the pipe).



REFERENCES

CODE	DESIGNATION	External diameter of the MPB pipeline to be protected.	External diameter of the PE, MPC pipeline to be protected.	External diameter of the steel MPC pipeline to be protected.	GRDF NOMENCLATURE
X010	✓ PPR 50050 GAZ	Can be used to complement the protection of the excavation and avoid cutting other plates.			86 23 128
X012	✓ PPR 50150 GAZ	Customer connection up to diameter 40 and network in diameter 40.			86 23 123
X013	✓ PPR 57150 GAZ	Ø ext. < 70	Ø ext. < 70		86 23 124
X014	✓ PPR 72150 GAZ	Ø ext. < 220	Ø ext. < 165	Ø ext. < 120	86 23 125
X015	✓ PPR 82150 GAZ	Ø ext. < 420		Ø ext. < 220	86 23 126
X016	✓ PPR 101150 GAZ			220 ≤ Ø ext. ≤ 410	86 23 127
X011	✓ Jumper link PPR GAZ 15 mm	—	—	—	86 23 122



PROTECTIVE SLEEVE



USAGE

- Protection and guidance of PE gas pipes (compliance with the minimum bending radius, mandatory when going up to GAS cabinet).

ADVANTAGES

- Mechanical, thermal, permanent and unalterable protection.
- Eco-production: made from recycled materials.

DESCRIPTION

MATERIAL USED :

- PVC (Polyvinyl chloride).

FEATURES :

- Rigid tube of TPC 1 type (tube for pipeline 1).

COLOR :

- Yellow.

COMPLIANT WITH IMPACT TEST :

- According to NF EN 1411, 20 J à 0°.



bayonet sleeve



straight sleeve



curved sleeve

REFERENCES

CODE		DESIGNATION	DIAMETER	GRDF NOMENCLATURE
X224	✓	Yellow bayonet sleeve Ø 50	50	86 20 403
X225	✓	Yellow curved sleeve Ø 50 with self locking	50	86 20 353
X227	✓	Ø 50 Yellow curved sleeve	50	86 20 352
X229	✓	Ø 50 Yellow straight sleeve	50	86 20 372
X235	✓	straight sleeve Ø 50 L= 250 mm (extension)	50	86 20 380
X236	✓	Joining sleeve F/F Ø 50 L= 65 mm	50	86 20 385
X226	✓	PVC reducing sleeve Ø 63-50	50-63	86 20 420
X223	✓	Ø 63 Yellow Bayonet sleeve	63	86 20 405
X228	✓	Ø 63 Yellow curved sleeve	63	86 20 354
X230	✓	Ø 63 Yellow straight sleeve	63	86 20 375
X237	✓	Joining sleeve F/F Ø 63 L= 78 mm	63	86 20 386

UNIVERSAL GAS PIPE PROTECTION SLEEVE FOR CABINET



USAGE

- Protection and guidance of PE gas pipes (compliance with the bending radius, mandatory in rising on gas cabinet).

ADVANTAGES

- Simple and intuitive implementation.
- Continuity of the protection.
- System of blockage in the box: prevents the sleeve from rising during compaction.
- High thermal protection.
- Indication of the charge depth in the cabinet.
- Anti-rodent protection: prevents the gas pipe from being damaged in the cabinet. The system slides to allow emergency crushing.
- Only one reference for the PE diameters ranging from 20 to 40mm.

DESCRIPTION

COMPOSITION :

- Rigid curved HDPE tube.
- High resistance HDPE corrugated conduit.
- Anti-rodent protection.
- Label.

MATERIAL USED :

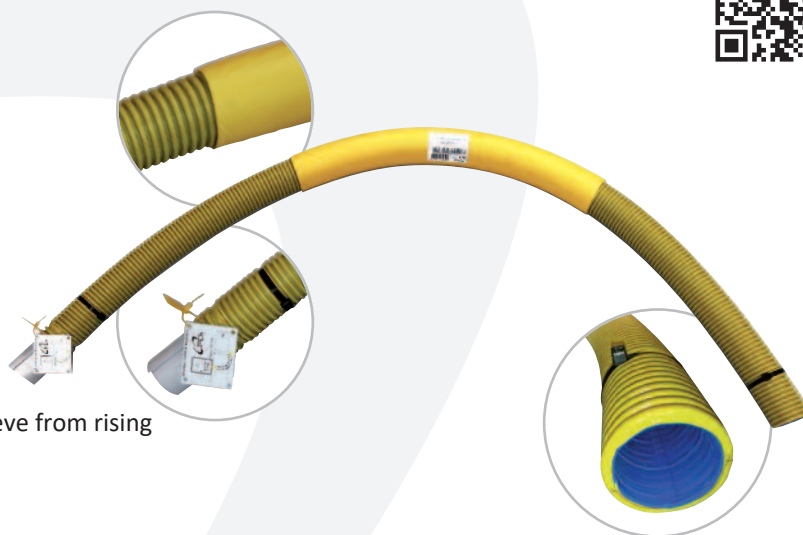
- HDPE.

COLOR :

- Yellow.

DEGREE OF PROTECTION :

- IK 10 according to NF EN 1411.



REFERENCES

CODE	DESIGNATION	DIAMETER	GRDF NOMENCLATURE
X238 ✓	Ø20 to Ø 40 PE universal sleeve	63	86 20 406



COLD-SHRINK SEALING CAPS



USAGE

- Covering of PE gas pipes to ensure tightness during storage, unwinding, and waiting for the joining.
- Closure of the sleeve in case of pulling or for protection from excessive water or backfill flows.

ADVANTAGES

- Easy and tool-free installation.
- Effective sealing even in case of gas pipe handling on the construction site.
- Quick implementation.
- Flexible elastomer treated to ensure good UV resistance.



Ø : 16 - 27
PE 20
X017



Ø : 26 - 48
PE 32 - 40
X018



Ø : 46 - 80
PE 63
X019



PE PIPE



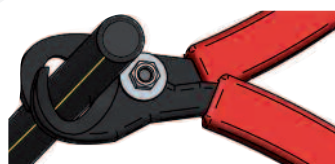
PE SLEEVE

DESCRIPTION

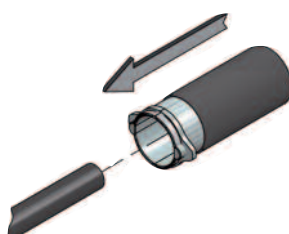
MATERIAL USED :

- Elastomer.

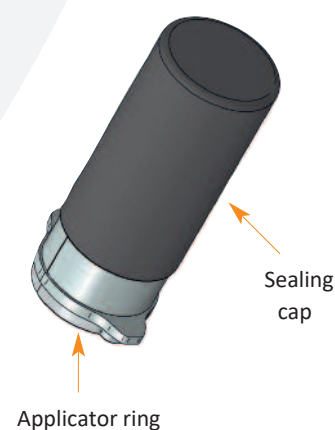
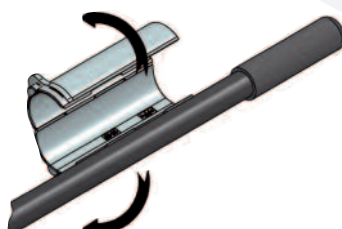
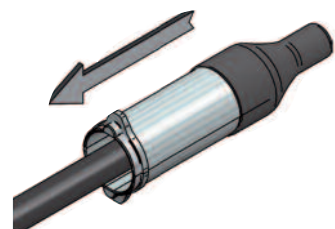
IMPLEMENTATION :



- 1 • Make sure the tube cut is clean.



- 2 • Slide the sealing cap onto the end of the tube.



- 3 • Remove the applicator ring until the cap is fully retracted onto the tube.

REFERENCES

CODE		DESIGNATION	CAPACITY	GRDF NOMENCLATURE
X017	✓	CRC RF PE 20 cap	20 PE pipe of application: 16 to 27 mm	80 10 980
X018	✓	CRC RF PE 32-40 cap	32 or Ø 40 PE pipe of application: 26 to 48 mm	80 10 981
X019	✓	CRC RF PE 63 cap	63 PE pipe of application: 46 to 80 mm	80 10 982



ALUMINIUM PROTECTION SLEEVE



USAGE

- Metal protective sleeves are used to secure gas pipelines that are accessible along the exterior facades up to a height of 2.75 meters.

ADVANTAGES

- Lightweight.
- Resistant.
- Anti-vandalism.
- Several materials and colors available.

DESCRIPTION

MATERIAL USED :

- Aluminum.

DEGREES OF PROTECTION :

- IK 10 according to EN 62262.



Metallic (GPC) sleeve



REFERENCES

CODE		DESIGNATION	LENGTH	DIAGRAM	GRDF NOMENCLATURE
X047	✓	Metallic sleeve 35.35	2m75		86 23 190
X048	✓	Metallic sleeve 60.60	2m75		86 23 191
X049	✓	Metallic sleeve 90.90	2m75		86 23 192
X050	✓	Metallic sleeve 120.120	2m75		86 23 193

ISOLATION CENTERING CLAMPS



USAGE

These clamps have a dual function:

- They allow to electrically isolate the pipe from a sleeve.
- They center the pipeline during the passage into a sleeve to avoid friction.



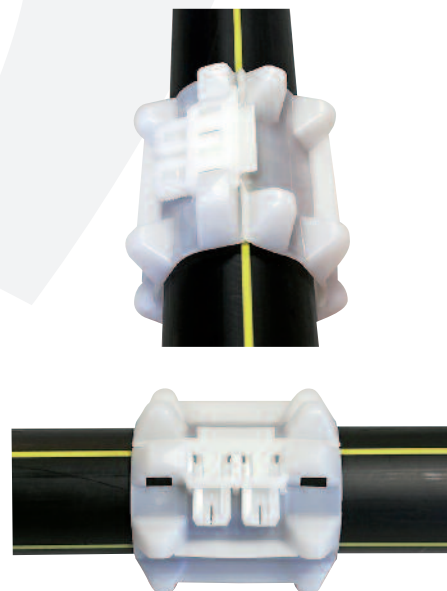
DESCRIPTION

COMPOSITION :

- HDPE.

DIELECTRIC STRENGTH :

- >37kV /mm.



REFERENCES

CODE		DESIGNATION	NOMINAL DIAMETER	EXTERNAL DIAMETER	GRDF NOMENCLATURE
X262	✓	Iso clamp. PR, AC or PE DN32 pipe	32	42,4	86 02 053
X263	✓	Iso clamp. PR, AC or PE DN50 pipe	50	60,3	86 02 055
X264	✓	Iso clamp. PR, AC or PE DN100 pipe	100	114,3	86 02 060
X265	✓	Iso clamp. PR, AC or PE DN150 pipe	150	168,3	86 02 062
X266	✓	Iso clamp. PR, AC or PE DN200 pipe	200	219,1	86 02 065
X267	✓	Iso clamp. PR, AC DN250 pipe	250	273	86 02 068
X268	✓	Iso clamp. PR, AC DN300 pipe	300	323,9	86 02 070



GRDF STANDARDS :
SJET300 / MJET108



BOLT AND GASKET KITS FOR FLANGES

USAGE

- These kits allow the replacement of the gasket and the entire set of bolts during an intervention on a flange.
- These sets are installed on gas networks and connections operated at a maximum pressure of 25 bar.

ADVANTAGES

- Complete kit for an intervention: bolts, nuts, washers, and gasket.
- Gasket protected from UV during storage and transportation.

DESCRIPTION

BOLTS :

- Class 8.8 bolts and washers, treated with zinc electrolyte coating.

GASKET :

- Synthetic fiber, elastomer compliant with standard NF-E29-533.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD170	✓	Bolts and gaskets kit for PN 25/40 DN 100 flanges, including 8 bolts 8.8 M 20*80 and 1 gasket	22 00 113
XD171	✓	Bolts and gaskets kit for PN 25/40 DN 150 flanges, including 8 bolts 8.8 M 24*90 and 1 gasket	22 00 114
XD172	✓	Bolts and gaskets kit for PN 25 DN 200 flanges, including 12 bolts 8.8 M 24*100 and 1 gasket	22 00 115
XD173	✓	Bolts and gaskets kit for PN 25 DN 300 flanges, including 16 bolts 8.8 M 27*110 and 1 gasket	22 00 117
XD174	✓	Bolts and gaskets kit for PN 10 brass taps (robinets) DN 25 flanges, including 4 bolts 6.8 M 12*50 and 1 gasket	22 00 210
XD175	✓	Bolts and gaskets kit for PN 10 brass taps (robinet) DN 32 flanges, including 4 bolts 6.8 M 16*55 and 1 gasket	22 00 211
XD176	✓	Bolts and gaskets kit for PN 10 brass taps (robinet) DN 50 flanges, including 4 bolts 6.8 M 16*55 and 1 gasket	22 00 212
XD177	✓	Bolts and gaskets kit for PN 10 brass taps (robinet) DN 50 flanges, including 4 bolts 6.8 M 16*55 and 1 gasket	22 00 300
XD178	✓	Bolts and gaskets kit for PN 10/40 DN 32 flanges, including 4 bolts 8.8 M 16*70 and 1 gasket	22 00 301
XD179	✓	Bolts and gaskets kit for PN 10/40 DN 40 flanges, including 4 bolts 8.8 M 16*70 and 1 gasket	22 00 302
XD180	✓	Bolts and gaskets kit for PN 10/40 DN 50 flanges, including 4 bolts 8.8 M 16*70 and 1 gasket	22 00 321
XD181	✓	Bolts and gaskets kit for PN 10/16 DN 65 flanges, including 4 bolts 8.8 M 16*70 and 1 gasket	22 00 327
XD182	✓	Bolts and gaskets kit for PN 10/40 DN 80 flanges, including 8 bolts 8.8 M 16*70 and 1 gasket	22 00 322
XD183	✓	Bolts and gaskets kit for PN 10/16 DN 100 flanges, including 8 bolts 8.8 M 16*70 and 1 gasket	22 00 323
XD184	✓	Bolts and gaskets kit for PN 10/16 DN 150 flanges, including 8 bolts 8.8M 20*80 and 1 gasket	22 00 324
XD185	✓	Bolts and gaskets kit for PN 10 DN 200 flanges, including 10 bolts 8.8 M 20*80 and 1 gasket	22 00 318
XD186	✓	Bolts and gaskets kit for PN 10 DN 250 flanges, including 12 bolts 8.8 M 20*80 and 1 gasket	22 00 319
XD187	✓	Bolts and gaskets kit for PN 10 DN 300 flanges, including 12 bolts 8.8 M 20*80 and 1 gasket	22 00 320
XD188	✓	Bolts and gaskets kit for PN 16 DN 200 flanges, including 12 bolts 8.8 M 20*80 and 1 gasket	22 00 326



JOINTING PASTE FOR THREADED METAL ASSEMBLY



USAGE

- This product allows sealing of threaded metal fittings.
- It polymerizes when confined in the absence of air between metal surfaces with a small clearance.
- This product should be stored close in a dry room between 8 and 21°C.

ADVANTAGES

- Prevents loosening and leaks due to shocks and vibrations.

DESCRIPTION

- Conforms to EN 751-1 class H standard and certified DVGW.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD192	✓	577 Loctite, 50ml tube	82 79 088

SEALING PRODUCTS

USAGE

- This product allows the repair of leaking joints or micro cracks on above-ground low pressure structures.
- It is to be used on raised (building network) structures made of copper, lead, steel or stainless steel.

ADVANTAGES


- This product can be used on a gas-free or gas-containing structure.

DESCRIPTION

- Epoxy resin with metal powder and incorporated hardener.
- Temperature for use between 5 and 25°C.
- Delivered with nitrile gloves.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD196		Epoxy stick for copper or steel	82 42 951



EQUIPMENT FOR SECURING BRANCH VALVES



USAGE

- Following the French decree of 23/02/2018, it is necessary to have a locking system for all gas cut-off devices.

There are different solutions depending on the encountered :

- Outcropping valves: XA851 - covering plate.
- Flushed valves : XA854 condemnation round plate with glue to impeach the access or XA856 condemnation paste.
- Locking tee valves : XA860 wrapping condemnation tissue.
- Buried valves : XA835, XA836 et XA861 adjustable round cap.
- Valves with pin : XA865 et XA866 metallic seals.

These solutions can be temporary and reversible or permanent.
Note that they are sold without adjustable clamps and without informative stickers.

* to choose p. 72.



Round cap XA835



Round cap XA836



XA846



Round adjustable cap XA861

NEW

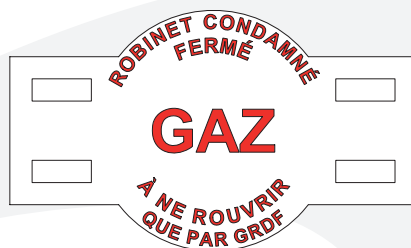
DESCRIPTION

COLOR :

- Yellow RAL 1023.

DIMENSIONS :

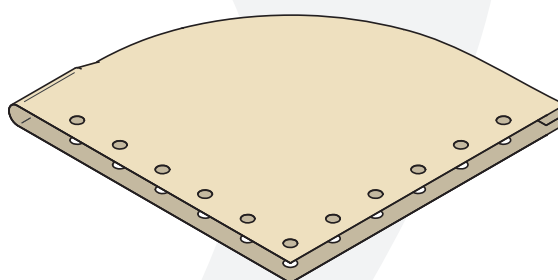
- XA835: external diameter 220 mm.
- XA836: external diameter 375mm.
- XA861: external diameter 400mm.
- XA854: diameter 44mm.
- XA860 : 220 x 220 mm.



XA851



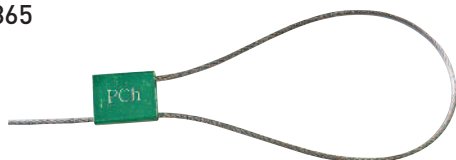
XA854



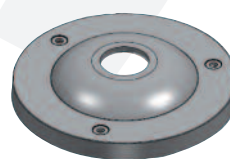
XA860



XA865



XA866



Obturator
front side view



Back side view of
the wall mount

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA835	✓	220 – 100 Adjustable plate	86 15 002
XA836	✓	375 – 250 adjustable plate	86 15 001
XA861	✓	400 – 80 adjustable plate	86 15 003
XA851	✓	Condemnation plate	86 15 021
XA854	✓	Condemnation round plate	86 15 023
XA855	✓	White adhesive sealant tube 70ml	86 15 050
XA856	✓	Bi-component sealing paste	86 15 022
XA860	✓	Condemnation cover	86 15 024
XA865	✓	Metal seal 1.0 mm	86 15 033
XA866	✓	Metal seal 2.5 mm	86 15 032
XA852	✓	Condemned obturator	86 15 044



RIGID MOLD RESIN COATING KIT



USAGE

- Kit for corrosion protection of metal parts by bi-component resin coating.

ADVANTAGES

- Guaranteed results and long-term reliability.
- Quick installation.
- GRDF validated bi-component resin.
- Simplified waste management (elimination as “common industrial waste” after mixing the bi-pouch resin).



DESCRIPTION

KIT COMPOSITION :

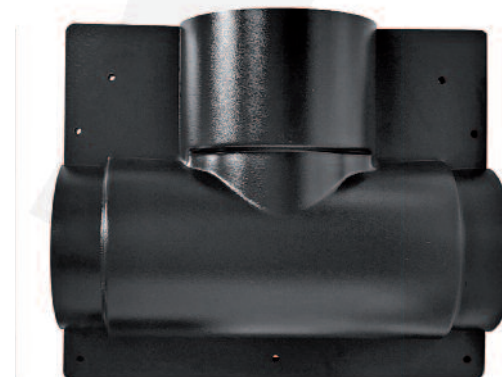
- Thermoplastic mold made of recycled material.
- Sealing tape.
- Screws and butterfly nuts.
- Two-component resin (not CMR substances).
- Nitrite gloves.
- Site protection tarpaulin.
- Transparent trash bag.



XD090



XD070
XD071
XD072



XD080 - XD081

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD070	✓	Coating/ shutter tapping P&TDW D.100	86 03 833
XD071	✓	Coating/ shutter tapping TDW D.150	86 03 829
XD072	✓	Coating/ shutter tapping TDW D.200	86 03 831
XD080	✓	Kit wil. cylindrical encirclement obturation D.150	86 03 969
XD081	✓	Kit Wil. cylindrical encirclement obturation D.200	86 03 976
XD090	✓	Kit Wil. spherical encirclement obturation D.100	86 03 978
XD050	✓	0.45l bi-pouch resin	86 03 905
XD053	✓	1.75l bi-pouch resin	86 03 907

Other references for Piedfort, Arias, Muller, and TD Wiliamson will be available in 2023.



FLEXIBLE RESIN COATING KIT



USAGE

These kits allow, depending on the application:

- To wrap a steel or lead connection when abandoning a branch.
- To protect certain metal parts from corrosion (such as cast-iron heads or flanged collars).

ADVANTAGES

- Minimum resin thickness guaranteed by a mechanical system integrated into the covers.
- Bi-component resin (no CMR substances) validated by GRDF.
- Maximum thickness limited by the application of specific bands.
- Integrated vents to facilitate degreasing, visualize proper filling, and allow filling at different points as needed depending on the level of the part to be wrapped.
- Fulfilled with a bi-component resin pouch: implementation without any contact with the resin, can be done by a single operator.
- Simplified waste management (ordinary industrial waste elimination).



DESCRIPTION

KIT COMPOSITION :

- Waterproof fabric soft cover, with injection nozzle and vent.
- Compression band.
- Internal lining ensuring a minimum thickness of resin.
- Adjustable clamp.
- Sealing tape.
- Non-carcinogenic two-component resin.
- Nitrile gloves.
- Site protection tarpaulin.
- Transparent garbage bag.



XD060



XD063



XD062

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD060	✓	Connection end cover in lead size 25 to 50	78 43 394
XD061	✓	Condemnation cover DN 60 à 150	78 43 381
XD062	✓	Condemnation cover DN 175 à 300	78 43 387
XD063	✓	Connection end cover	78 43 389
XD050	✓	0.45l bi-pouch resin	86 03 905
XD053	✓	1.75l bi-pouch resin	86 03 907





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NEW

CATHODIC PROTECTION



GENERAL PRINCIPLE :

A metal pipeline must be protected against corrosion using two complementary methods :

- Its external coating that isolates it from the surrounding soil (referred to as passive protection).
- Its placing under cathodic protection by reducing its electrical potential to limit the corrosion mechanism (typically less than a volt).

welding electrical connection

USAGE

- Joining of a potential socket through “welding/brazing”.
- Protection of this socket by coating (epoxy resin).

ADVANTAGES

- Joining of a copper core cable ranging from 10 mm² to 5 mm².
- GRDF validated epoxy resin.
- Bi-component pouch and injection nozzle that facilitates the application of the coating.
- Preserves the mechanical integrity of the pipelines.
- Simplified waste management (OIW) (Ordinary industrial waste).

DESCRIPTION

COMPLETE KIT INCLUDING

- Bi-component pouch and over-molding mold.
- The electrical outlet to be weld: in steel (arc welding) or brass (soft brazing).
- The terminals, washers and bolts necessary to connect the cable.
- Tin for the brass kit.
- A metal handle and an anti-corrosion patch for the steel kit.



XB125



XB126

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XB125	✓	Steel Potential socket kit (prise de potentiel)	86 01 234
XB126	✓	Brass Potential socket kit (prise de potentiel)	86 01 235

Aluminothermy kit

USAGE

- Joining of a potential socket (prise de potentiel) to a metal pipeline using pyrometallurgical welding.
- Protection of this socket/outlet by coating (epoxy resin).

ADVANTAGES

- GRDF validated epoxy resin.
- Bi-component pouch and injection nozzle that facilitate the application of the coating.
- Preserves the mechanical integrity of the pipelines.
- Guaranteed results and long-term reliability.
- Simplified waste management (OIW) (Ordinary industrial waste).

DESCRIPTION

ALUMINOTHERMY KIT

- Weld-on Potential socket by thermite welding process allowing the joining of cables ranging from 10 to 70 mm².
- Over-molding mold.
- Bi-component pouch for anti-corrosion protection by coating.

ÉLECTRONIC IGNITER :

- Electronic ignition box enabling remote ignition with a 1.8m cord.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XB120	✓	10-70 Aluminothermy potential socket/outlet kit	86 01 222
XB121	✓	Allumeur à distance câble 1,8 m	86 01 223
XD050 *	✓	0.45l Epoxy Bi-pouch resin	—

* Other conditioning/packaging on consultation.



NEW

Connection and gel box

- The box allows to protect, to insulate and to makes it waterproof in a single step.
- The gel doesn't expire.
- Clean implementation.



REFERENCES

CODE	DESIGNATION	GRDF NOMENCLATURE
XB010	Quicky gel connection box 86*47*27	—
XB011	Quicky gel connection box (K1) 147*55*3	—
XB012	Quicky gel connection box (K2) 180*69*40	86 01 508
N707	Bi-component gel bottle of 1l	—
N755	Bi-component gel cartridge of 265 ml	—

Resin connection box

USAGE

- Electrical cable connection, followed by encapsulation of the connection with epoxy resin.

ADVANTAGES

- GRDF and ENEDIS validates epoxy resin.
- U.V. resistant casting box.
- Bi-component pouch and injection nozzle facilitating the implementation.
- Guaranteed results and long-term reliability.
- Simplified waste management (OIW) (Ordinary industrial waste).

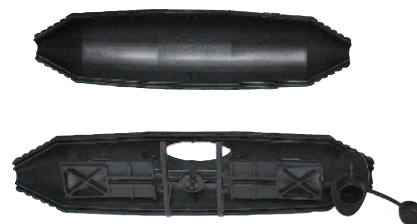
DESCRIPTION

KIT COMPOSITION

- Thermoplastic mold.
- Sealing strip.
- Bi-component resin (no CMR substances).
- Nitrile gloves.
- Electrical connectors not included.



XD097



XD098

REFERENCES

CODE	DESIGNATION	GRDF NOMENCLATURE
XD097	kit with two connection boxes of 200ml each	
XD098	400 ML connection box kit	



NEW



Measurement device

The new MiniLog2 is a waterproof universal measuring instrument. Used in data logger mode, the MiniLog2 simultaneously records DC and AC voltage values for two channels. The MiniLog2 is capable of performing DCVG and CIPS surveys while storing GPS position for each measurement point taken.



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XB070		Measurement terminal 2.5 to 16 mm ²	86 01 703
XB071		2-way measurement terminal, flexible cable	86 01 530
XB072		2-way measurement terminal, rigid cable	—
XB073	✓	Minilog 2	86 01 605
XB074	✓	License 2.0 Winlog	86 01 630
XB075	✓	2.0 Winlog update 1 year	—
XB082	✓	1mA 100mV shunt	86 01 614
XB083	✓	100mA 100mV shunt	86 01 616

* Order under Popay

Anode

- Ferro-silicon anode for the cathodic protection of large or poorly insulated pipelines against corrosion by imposed current.
- 35kg Ferro-silicon (according to BS 1591/75 grade Si 14).
- Material consumption : 0.5kg/year



REFERENCE

CODE	DESIGNATION	GRDF NOMENCLATURE
XB042	35kg Ferro-silicon anode	86 01 304
XB043	20kg Ferro-silicon anode	—

Other products on consultation.

Heat shrinkable sleeve

- Flexible polyolefin sleeve coated with thermofusible adhesive.
- Shrink capacity of 4/1.
- Operating temperature : - 45°C / + 105°C.
- 5 m roll.
- Recycled cardboard dispenser.



REFERENCES

CODE	DESIGNATION	GRDF NOMENCLATURE
XB001	16/4 Heat shrinkable sleeve	—
XB002	24/6 Heat shrinkable sleeve	—
XB003	32/8 Heat shrinkable sleeve	—





ATEX

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ATEX TOOLS



USAGE

- This range of anti-spark tools allows for secure use on construction sites.

ADVANTAGES

- The copper-beryllium alloy used in the tools allows for the use of metallic tools in gas construction sites without emitting sparks.
- The handles are made of antistatic wood or plastic.

DESCRIPTION

MATERIAL :

- Copper-beryllium alloy.
- Antistatic handle.

REFERENCES



CODE		DESIGNATION	TOOL LENGTH	GRDF NOMENCLATURE
XD125	✓	Spark-resistant "chisel/bedane"	200 mm	77 36 46
XD126	✓	Spark-resistant "pin/broche"	150 mm	77 36 49
XD127	✓	Spark-resistant "chisel/burin" 200*22	200 mm	77 36 32
XD128	✓	Spark-resistant "chisel/burin" 250*24	250 mm	77 36 34
XD129	✓	Stiff painter's scraper	200 mm	77 36 50
XD130	✓	Spark-resistant hammer 340G	300 mm	77 36 03
XD131	✓	Spark-resistant hammer 450G	325 mm	77 36 05
XD132	✓	Spark-resistant sledgehammer 3kg	700 mm	77 36 26
XD133	✓	Spark-resistant mallet 1kg	400 mm	77 36 16
XD134	✓	Spark-resistant mallet 500 G	310 mm	77 36 14
XD135	✓	Spark-resistant tarracing shovel	990 mm	82 00 22
XD136	✓	Spark-resistant terracing pickaxe	910 mm	82 00 25

ATEX SIGNAGE

PVC CHAIN gas enclosure :

- Yellow and black.
- Height of 900mm, diameter of 50mm, weight of 4Kg.
- Equipped with 2 rings for chain attachment.



XA870

CHAIN KIT + PANELS :

- Yellow and black.
- Length of 25m, diameter of 10mm.
- 4 PVC panels of 300*450 mm.
- 8 panel fixing hooks.



XA871



WARNING TAPE :

- ATEX black and yellow signage.
- Width of 75 mm, length of 250 m.
- Material: PE.



XA872

REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XA870	✓	PVC ATEX zone gas enclosure	370 2008
XA871	✓	25M ATEX zone chain + 4 panels	370 2060
XA872	✓	250m*75mm ATEX warning tape	969 6001

ATEX LIGHTING



ADVANTAGES

- This range of lighting equipment ensures safe use in ATEX zone 0 construction sites.
- The large inspection lamp (XD138) has an articulated head.
- The zone lighting (XD137) comes with a magnetic base for 360-degree rotation and proper light placement. The lamp also features an adjustable steel handle for transportation. The product is delivered in a case with a 180 cm mast.

DESCRIPTION

CERTIFICATION :

- ATEX Zone 0.

AUTONOMY :

- XD 137: integrated rechargeable li-ion battery life of 6 hours (1200 lumens) to 12 hours (6500 lumens).
- XD 138: 3 AA 4.5v batteries included, with a life of 6 hours (329 lumens), 14 hours (185 lumens) to 15 hours (174 lumens).
- XD 139/ XD 141: included 3 AA 4.5v batteries, with a battery life of 19 hours (138 lumens).
- XD 140: included 3 AAA 4.5v batteries, with a battery life of 19 hours (30 lumens) to 47 hours (14 lumens).



XD140



XD138



XD139



XD141





XD137



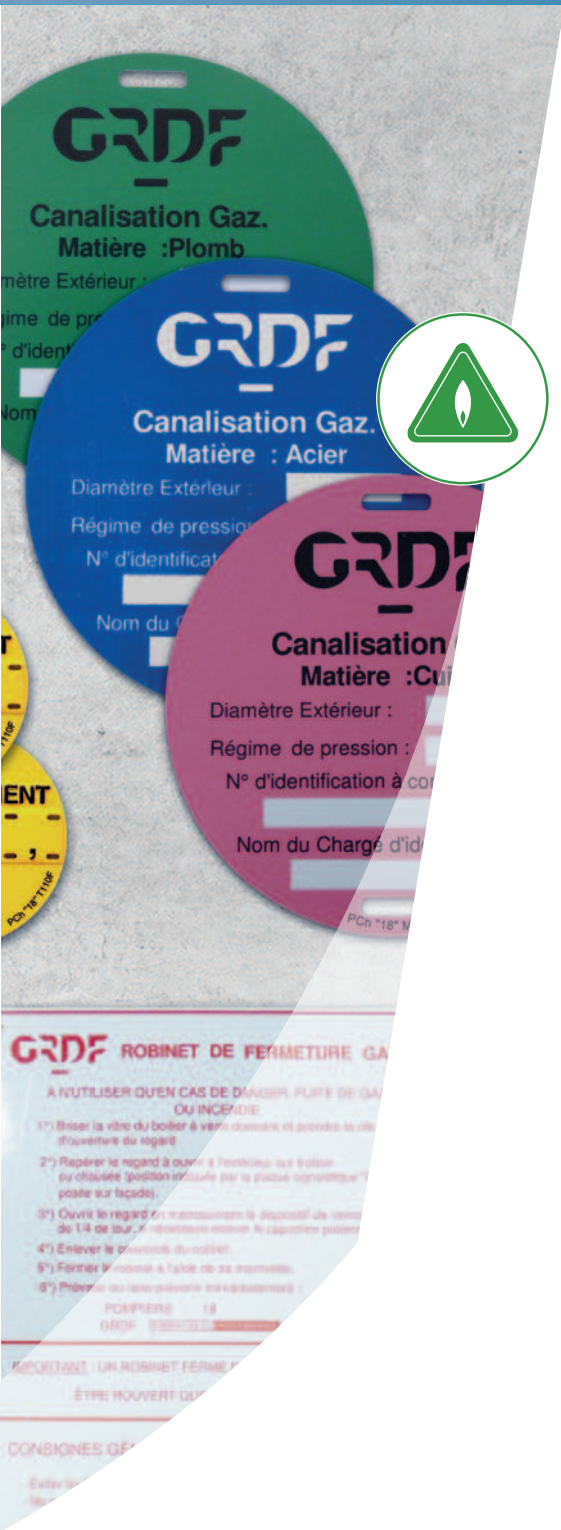
XD137 case



REFERENCES

CODE		DESIGNATION	GRDF NOMENCLATURE
XD137	✓	Autonomous ATEX zone 0 Lightning	81 10 12
XD138	✓	Large ATEX zone 0 inspection torch	81 10 11
XD139	✓	ATEX zone 0 flashlight	81 00 16
XD140	✓	ATEX zone 0 headlamp	81 00 35
XD141	✓	ATEX Zone 0 torch for F1 helmet	81 00 34





SIGNAGE

Signage.....	76
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SIGNAGE

Wide range of signage plate for GRDF: 300 references.
Other models can be developed on demand.

SUPPORT:

- Aluminum thickness 1mm including reflectorizing version.
- PVC.
- High UV resistance varnish on all plates.
- 10 year warranty.

GROUND MARKING OF THE PLATES:

- Numbers and letters:
 - 6*12 blue on beige background.
 - 6*12 black on yellow background.
 - 12*20 black on beige background.
- To be hammered.
- Marker on PVC plate.



SIGNAGE CASES



GRDF nomenclature PCh CODE	DESIGNATION
 <p>86 42 127 XA801 ✓</p>	<p>Large case of numbers and letters for T200B plates.</p>
 <p>86 42 132 XA802 ✓</p>	<p>Small case of numbers for T200B plates.</p>

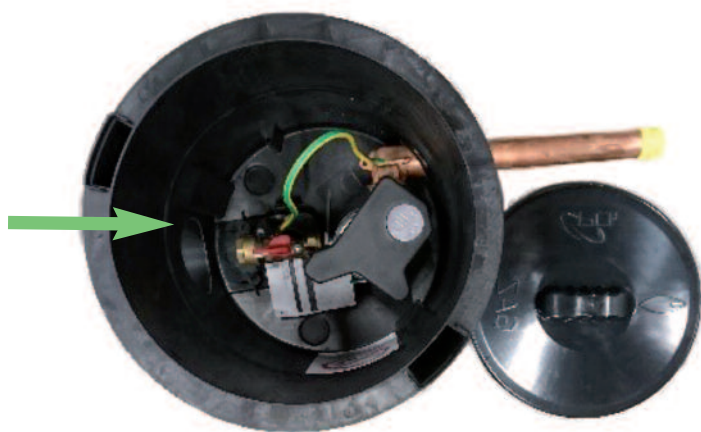
GAS EQUIPMENT DEVELOPED ON DEMAND

PCH develops gas equipment specially tailored to the requirement of other clients (gas utilities and export clients).

Here are examples of products we have developed:

EQUIPPED CABINET

- Buried cabinets for Régaz B10 and B25, PE gas pipe input not included (XA440/XA441).
- S2400 cabinet with hingless panel (XA001).
- S2400 B6 37mb cabinet with hingless panel (XA012).



XA440
XA441



XA012

ADVANTAGES

- These cabinets are derived from GRDF-approved equipment and customized to meet the specific needs of certain clients (such as network depth specification, reduced maintenance requirement, etc...).

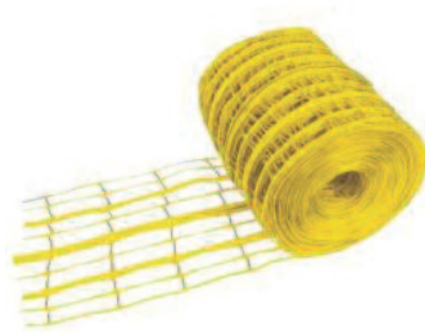
All the components used are GRDF and NF approved.

Customized signage



XA848

Warnin mesh



X280

- This product is certified NF EN 12613.
- It is packed in rolls of 10 meters by 30 cm wide.





PCh

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