



Quantum 200T LPG



Parts Manual



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REVISION RECORD

Date	Revision	Page	Issue	Reason
21/07/2005	1	All	A	Original Issue

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Issue A

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1 INTRODUCTION

1.1 How To Use This Manual

It is recommended that all relevant persons familiarise themselves with the contents of this manual prior to carrying out any operations or procedures.

This manual is divided into sections which are described as follows: -

Section 1 - Introduction

This section contains information on how to use the manual, the scope of equipment covered, recommendations on qualified technicians and contact information. It also includes relevant health and safety information required for the safe practice of common maintenance procedures.

Section 2 - Cladding & Framework

This section contains the part identification list for the dispenser cladding and framework.

Section 3 - Hoses & Nozzles

This section contains the part identification list for the hose and nozzle options.

Section 4 - Dispenser Hydraulics

This section contains the part identification list for the dispenser hydraulics.

Section 5 - Dispenser Electronics

This section contains the part identification list for the dispenser electronics.

Section 6 - Recommended Spare Parts

This section contains the Installation kits and list of spare parts for common maintenance procedures.

1.1.1 DRAWING INTERPRETATION

This Parts Manual is designed to show the maximum number of options and configurations using the minimum number of drawings. Therefore in many cases, the drawings will not correspond to a particular dispenser configuration and the engineer must take care to identify the required arrangement on the drawing.

For clarity, the following guidelines have been applied to the Parts Manuals:-

- Item quantities are not shown on the drawings or parts lists.
- If there are multiple sub-assemblies displayed on the same drawing then only one instance is exploded.
- Where possible, duplication has been avoided.

1.2 Product Scope

The equipment and models covered by the contents of this manual are the Quantum 200T LPG range of fuel dispensers only. For information on other Quantum LPG or fuel dispensers, refer to the relevant manual as provided by Tokheim.

1.3 Authorised Technicians

Only qualified technicians familiar with the contents of this manual should carry out the procedures contained herein.



WARNING: ANY ATTEMPTS TO CARRY OUT THE PROCEDURES OF THIS MANUAL, BY UNQUALIFIED OR UNAUTHORISED PERSONS, MAY RESULT IN SERIOUS INJURY OR LOSS OF LIFE.

NOTE: - THIS MANUAL IS NOT INTENDED TO REPLACE THE SERVICES OF A FULLY QUALIFIED TECHNICIAN.

1.4 Contact Information

For information relating to the contents of this manual please contact: -

Technical Author
Tokheim UK Ltd.
Dundee, Scotland

For technical assistance please contact the appropriate service division listed on the back cover of this manual.

1.5 Health & Safety

1.5.1 SAFETY CHECKLIST

- It is obligatory that this checklist be fully complied with during all work at the fuel station, particularly construction or repair work.
- It is the duty of the contractor to ensure that all workers employed by him obey each and all of the relevant laws, directives and other regulations.

Areas where special caution is required

- The insides of tanks, tubes, dome shafts, filling shafts, change over shafts, vessels and dispensers.
- All areas in which fuel vapour that is heavier than air can accumulate, e.g. fuel separator, draining shafts, low located rooms, cellars, excavations, pipe trenches etc.
- The areas around the outlets of tank ventilation pipes, especially during the filling phase.
- All areas near dispensers, tanker lorries and other vehicles while they are being tanked up, and particularly when there is a lack of wind.
- A radius of 1.0 metres around fuel carrying pipes, as well as pipes that are not vapour free.
- Silt traps.

1.5.2 DUTIES OF THE EMPLOYEES

- To ensure optimal accident prevention in our company, in addition to general rules applying to worker's protection, it is necessary to take into account all the national protection of workers legislation and to actively support all measures which enhance safety standards.
- It is an employee's duty to follow all company directives regarding the prevention of accidents, unless such directives can be proved to be unfounded.
- Employees should not follow any instructions that go against safety standards.
- Employees are only permitted to use equipment for its original purpose, and this is defined by the company alone.
- If an employee detects equipment that is deficient in terms of safety, he shall eliminate this deficiency immediately. If such safety rectification is not part of his defined area of activities, or if his knowledge is insufficient to carry out such work he must immediately inform his superior about the detected safety deficiency.

This equally applies to:

- 1) **Work Materials** which have not been correctly packed or correctly marked in order to meet safety requirements.
- 2) **Work Methods** or work processes which have not been correctly coordinated or controlled in order to meet safety requirements.
- 3) **Where dangerous activities are carried out by several persons**, the need for a permanent faultless communication between them in order to avoid dangerous events shall require the appointing of one person in order to carry out overall supervision.

1.5.3 HAZARDS

Prior to starting work, the dispenser must be isolated (i.e. entirely disconnected from the mains supply) and the mains supply switch locked in the OFF position. The LPG pump and control signals from the dispenser must also be isolated. This is done to provide safety for the technician. As a further precaution, switch off the mains supply in the service station shop and place a clear notice on the switch to avoid it being turned on again inadvertently.



WARNING: - THE CONNECTION AND DISCONNECTION OF ELECTRICAL CONNECTIONS MAY ONLY BE CARRIED OUT BY QUALIFIED PERSONNEL AUTHORISED FOR SUCH ACTIVITIES. WORK IN DANGEROUS AREAS MUST BE MADE SAFE BY OBSERVING ALL THE NATIONAL SAFETY REQUIREMENTS IN FORCE.

It is not permitted to put a fuel dispenser into operation before an authorised official has inspected it and released it. This depends upon the national regulations in force.

Dismantled packaging and cladding must be stored in such a way as to avoid damage to components or injuries to persons. Covers that can be opened, such as the calculator housing, should be handled with care. Ensure that the retaining catch is placed in the correct position to prevent the cover falling onto the head of the service engineer or other persons in the area.

At unattended service stations, every end-user should be able to read the User Instructions. They should be visible on a notice board or integrated into the DIT and should be sufficiently well lit so that they can be read at night.

At LPG service stations, break away couplings must always be used to reduce the danger caused by a motorist driving off with the nozzle still in the tank.

1.5.4 WARNING SIGNS

The following warning signs are fitted as standard, on the dispenser, however they may vary according to individual country requirements or customer specifications.

SIGN	MEANING	POSITION
	Do not use mobile phones	Visible from both sides of dispenser
	Naked flames and smoking forbidden	Visible from both sides of dispenser
	Stop vehicle engine	Visible from both sides of dispenser
	Trucks only	At Diesel high speed dispensers near the nozzle boots
	Do not drive away with nozzle in tank	Visible from both sides of dispenser
For more information see User Manual available at this station		Next to User Instructions near the nozzle boot

1.5.5 PERSONAL PROTECTIVE EQUIPMENT (PPE)

PROTECTIVE CLOTHING

The following clothing should be worn **at all times** during installation and maintenance procedures:-

- Protective helmet.
- Protective shoes (conductive).
- Protective gloves and/or protective hand cream.
- Anti static clothing.
- Eye protection.

SAFETY EQUIPMENT FOR WORKING IN HAZARDOUS AREAS

The following safety equipment is required for working in hazardous areas:-

- Only spark free tools are permitted for work on dispensers.
- Work on bearings is only permitted using the standard workshop tools authorised for this kind of work.
- The use of all electrical tools is strictly prohibited.
- Only the use of explosion protected work lights is permitted.
- The use of telecommunications equipment in hazardous areas is strictly prohibited.

SAFETY INSTRUCTIONS

The following safety instructions must be adhered to during installation and maintenance procedures:-

- Inhalation of fuel vapour must be avoided. Suitable precautions must be taken and where necessary respirators used.
- Avoid direct contact of fuel with the skin.
- Use suitable protective clothing, protective gloves and/or protective hand cream.
- Avoid fuel spills.
- No smoking, no naked flames are permitted.
- Long hair and ties can get caught in moving parts. Hair must be suitably covered.

1.5.6 LPG CONTACT - FIRST AID PROCEDURES

Although colourless and naturally odourless, LPG has added stenching agent to make any leakages evident. LPG is only slightly toxic, however due to the rapid evaporation of liquid LPG and subsequent volume expansion, any accidental release of LPG could result in the formation of large clouds of gaseous LPG, displacing the air. The result would be a reduction of the oxygen in the air content and possible asphyxiation. Other personal hazards are eye injuries, frostbite from contact with liquid LPG and skinburn in the event of fire.

In the event of such emergencies, the following procedures should be carried out immediately:-

ASPHYXIATION

Do NOT enter the danger zone without adequate protection including respiratory mask and/or aforementioned protective clothing.

If a person is in danger of asphyxiation :-

- If possible, remove the victim out of the danger zone into fresh air.
- Lay the victim down and loosen their clothing.
- Call for medical assistance.
- If the victim is unconscious, place them in the recovery position.
- If necessary, trained personnel should apply oxygen or artificial respiration to the victim.

EYE INJURIES

If the eyes have come into contact with liquid LPG:-

- Pour water over the eyes immediately.
- Open the eyes carefully.
- Continue to rinse the eyes with water for at least fifteen minutes.
- Seek medical advice.

FROST BITE

If the skin has come into contact with liquid LPG:-

- DO NOT RUB frozen parts of the body.
- Pour water over the affected area.
- Carefully remove all clothing which has been in contact with the liquid LPG.
- Rinse the skin with ample water for at least fifteen minutes.
- Apply aseptic bandages to the affected areas.
- Seek medical advice.

BURNS FROM FIRE

If a person's clothing is on fire, extinguish the flames with water (if available) otherwise wrap the victim in a blanket, coat or similar and roll the victim over on the ground until the flames are extinguished.

- DO NOT try to remove the clothing from a person with serious burns.
- Rinse any burns caused by fire with water for five to ten minutes.
- Apply aseptic bandages to the affected areas.
- Wrap the victim in a clean blanket or sheet and seek medical advice.

1.6 Standards & Certificates

The LPG Dispenser is constructed in conformity with the requirements of all the applicable European Directives (Machinery 98/37/EC; EMC 89/336/EEC; ATEX 94/9/EC, PED 97/23/EC).

The components used within the dispenser, including connection facilities, are selected in accordance with the European Standard EN 50014 (Electrical apparatus for potentially explosive atmospheres), and the supplementary Standards listed therein.

The measurement accuracy of the LPG dispenser is confirmed as Accuracy Class 1.0 "OIML International Recommendations Measuring Systems for Liquids other than Water 1995". Compliance is verified in NMI Test Report No CVN-10129906.

Currently, no European legislation exists to cover the metrology of LPG. Therefore national implementing legislation will apply.

The production and end test is controlled through the Quality Assurance systems within the Tokheim Manufacturing Centres, and has received Quality Assurance Notification from a Notified Body.

No modification to the dispenser may be performed without express permission from Tokheim and must always use original components or Tokheim retrofit kits. Failure to comply with the above will invalidate product conformance with the relevant European Directives and Tokheim will no longer accept product liability.

NON-ELECTRICAL APPARATUS

All non-electrical apparatus used in Tokheim LPG Dispensers have been selected in accordance with prEN 13643-1. Pipes and pipe fittings used in the hydraulic system conform to the requirements of Annex A of ISO 118. The dispenser housing and cladding are manufactured from minimum 1mm steel designed to withstand an impact test according to EN 50014 Group II and provide mechanical protection for the internal components.

ELECTRICAL SYSTEMS

The construction of Tokheim LPG Dispensers respect provisions EN 60204-1 and EN 600079-14 and components are selected suitable for the particular zone of hazard. Cables used within the hazardous areas of LPG Dispensers satisfy the requirements of EN 60079-14 and HD 21-13.

EXPLOSION PROTECTION MEASURES

Tokheim LPG Dispensers are designed, constructed, tested and declared to satisfy the requirements of the explosion prevention and protection concepts and methodology as detailed in EN 1127-1.

All components and protective systems used within the dispenser are suitable for explosion group IIA, temperature class T2 as defined in EN 50014.

1.6.1 DISPENSER MARKING FOR THE ATEX DIRECTIVE

The dispenser is labelled by Tokheim in accordance with the requirements of the ATEX Directive. This labelling includes:-

- The CE mark (CE conformity)
- The specific explosion protection mark, together with the mark indicating the equipment group and category; and, relating to equipment group II, the letter "G" (concerning explosive atmospheres caused by gases and vapours)
- The "Tokheim" name or logo and manufacturing location
- The dispenser type and serial number including the year of production

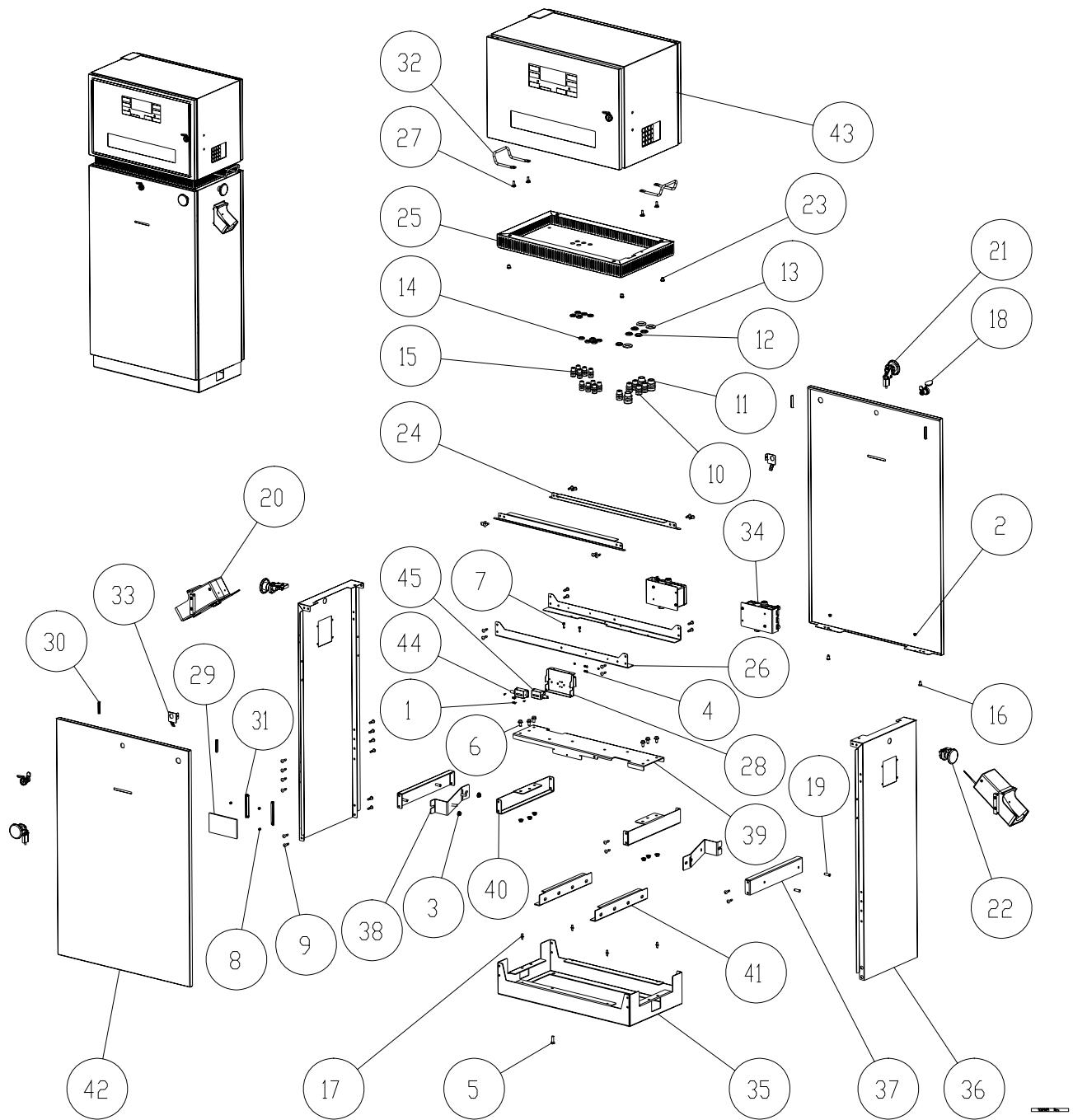
Labels can either be plastic stickers or metal plates and may vary according to national requirements. A typical example of a label follows:-



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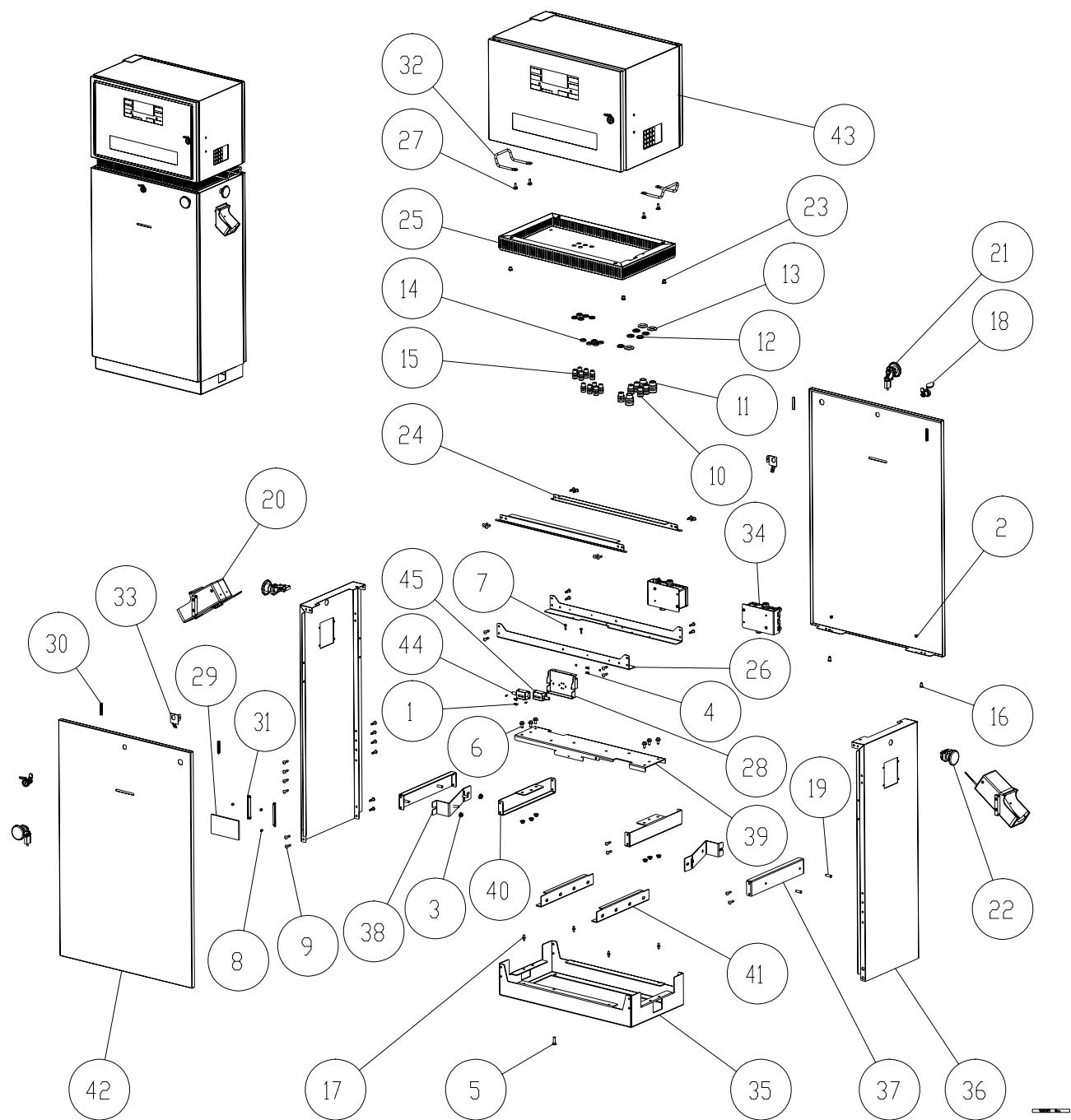
Issue A

2 CLADDING & FRAMEWORK

2.1 Q200T LPG Frame & Cladding Assembly

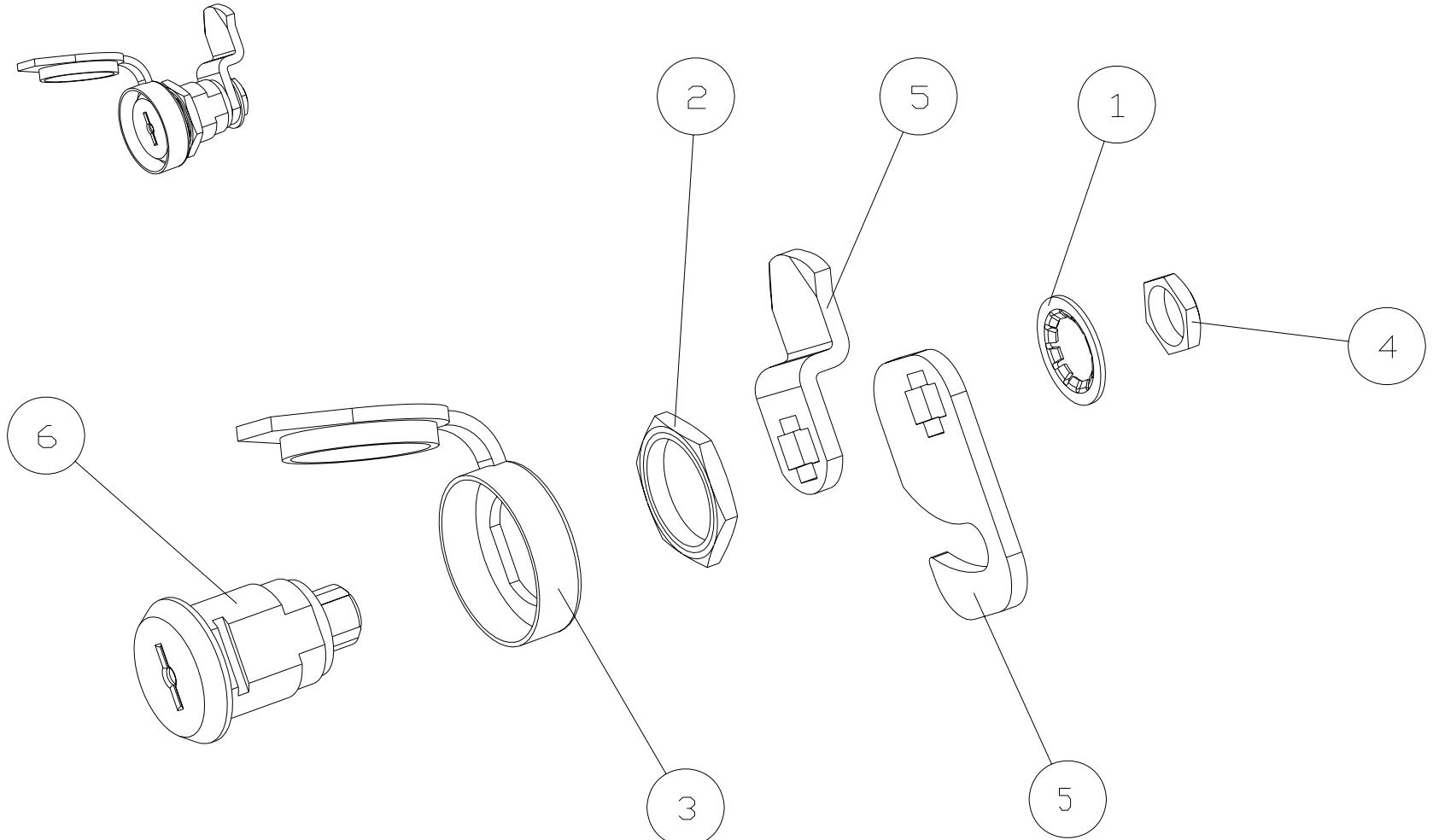
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	M3 x 8 vis t.cylindr. fendue	900007-008	
2	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-008	
3	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
4	Nut Hex Self Lock M3	Ecrou Et Rondelle Eventail M3	900013-006	
5	Screw HH M8x25	Vis H M8x25	900015-012	
6	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
7	Screw HWHT ST4,2x19	Vis Autotaraud Hex ST4,2x19	900020-001	
8	Spacer 4.2x8.0x6.0	Entretoise Cyl 4.2x8.0x6.0	900024-007	
9	Rivet Blind Domed 6.5x24.8	Rivet Pop Bomb 6.5x24.8	900025-002	
10	GLAND M20X1,5 Eexe II 8-13n	PE M20X1,5 Eexe II 8-13mm	900064-001	
11	GLAND M25X1,5 Eexe II 13-19	PE M25X1,5 Eexe II 13-19mm	900065-001	
12	Nut Hex M20 x 1,5 (Bartec)	Ecrou Hex M20 x 1,5 (Bartec)	900088-001	
13	Nut Hex M25 x 1,5 (Bartec)	Ecrou Hex M25 x 1,5 (Bartec)	900088-002	
14	Nut Hex M16 x 1,5 (Bartec)	Ecrou Hex M16 x 1,5 (Bartec)	900088-005	
15	GLAND M16X1,5 Eexell 5-8mn	PE M16X1,5 Eexell/ 5-8mm	900362-001	
16	Buffer - Rubber D8	Butee Caoutch D8	900593-001	
17	Pin - location Dia 6 / M6	Axe verrouillage	900595	
18	Assembly Lock DIT Blind Door	Ass Serrure Porte DIT Aveugle	900914	
19	Selfclinching Stud M8x25	Goujon Serti M8x25	901334-006	
20	Nozzleboot Butagaz 2S assy	Boitier Butagaz à 2 contact as	902121	
	Assy Nozzleboot Elaflex LPG	Repose Buse Asm Elaflex GPI	902183	
	Nozzleboot Nettuno T4 nozzle	Boitier buse Nettuno T4 asm	902320	
	Nozzleboot LG30 + Flapper	Repose Buse LG30+Obturateu	902083	
21	Button Assy - Dead man	Bouton H-M Asm	902507	
22	Button Assy - Emergency sto	Bouton A-U Asm	902508	
23	Air gap assy	Air gap assemblé	903504	
24	Rain gutter	Gouttière	903507	
25	Air gap complete	Air gap équipé	903519	
26	Meter bracket - L bracket	Traverse support mesureur	903582	
27	Screw round head square bolts	Vis tête bombe av collet carre	903709-004	
28	Bracket for mechanical totali	Support totalisateurs mecaniqu	903789	
29	Glass for totalizer	Verre pour totalisateur	903790	
30	Seal adhesif UH11369 lg 50	Joint adhesif UH11369 lg 50	903793-001	
31	Totalizers glass - Clamp	Fixation glace pour totalisateur	903855	
32	Hook - retaining hose	Crochet flexible	904127	
33	Bracket - hydraulic door earth	Support fil de masse porte hyd	904401	

(Cont.)



2.1 Q200T LPG Frame & Cladding Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
34	Bracket Bernstein box assy	Support boite Bernstein asm	906391	
35	Base Q200T LPG	Embase Q200T GPL	907518	
36	Panel blank Panel blank Sst Panel - E-Stop button Panel - E-Stop button Sst Panel - NETTUNO NB Panel - NETTUNO NB Sst Panel - BUTAGAZ NB Panel - BUTAGAZ NB Sst Panel - LG30 NB Panel - LG30 NB Sst Panel - ELAFLEX NB Panel - ELAFLEX NB Sst	Habillage aveugle Habillage aveugle inox Hab - Bouton arrêt Urgence Hab - Bouton arrêt Urgence inc Hab - Repose Buse NETTUNO Hab - RB NETTUNO ino Hab - RB BUTAGAZ Hab - RB BUTAGAZ inox Hab - Repose Buse LG30 Hab - Repose Buse LG30 inox Hab - Repose Buse ELAFLEX Hab - RB ELAFLEX inox	907520 907521 907522 907523 907524 907525 907526 907527 907528 907529 907530 907531	
37	Air separator - Bracket 1 asm	Support dégazeur 1 asm	907533	
38	Air separator - Bracket 2	Support dégazeur 2	907534	
39	LPG meter - Support	Traverse mesureurs GPL	907536	
40	LPG meters support - Bracket	Support traverse mesureurs GF	907537	
41	Bracket - Breakaway coupling	Support raccords cassants	907538	
42	Door Hydraulic blank Door Hydraulic blank SS Door Hydraulic 2 totes Door Hydraulic 2 totes SS Hydr. door 2 tot. + DM welded Hydr. door 2 totes + DM Sst Hydr. door DM Button welded Hydr door -DM Button Sst	Porte hydraulique aveugle nue Porte hydraulique aveugle nue inox Porte hyd 2 totalisateurs Porte hyd 2 totalisateurs inox Porte hyd 2 tot. + Bout. HM soudé Porte hydr. 2 tot. + HM inox Porte hydr - Bout. HM soudé Porte hyd - Bouton HM inox	904307 904308 904311 904312 907658 907661 907682 907684	
43	Pres keyp head Sst welded IP	Tête prétréte inox soudée IP54	907676	
44	Mechanical Totaliser Left	Totalisateur meca. Gauche	907907-001	
45	Mechanical Totaliser Right	Totalisateur méca. Droit	907907-002	



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2.2 Lock Assembly

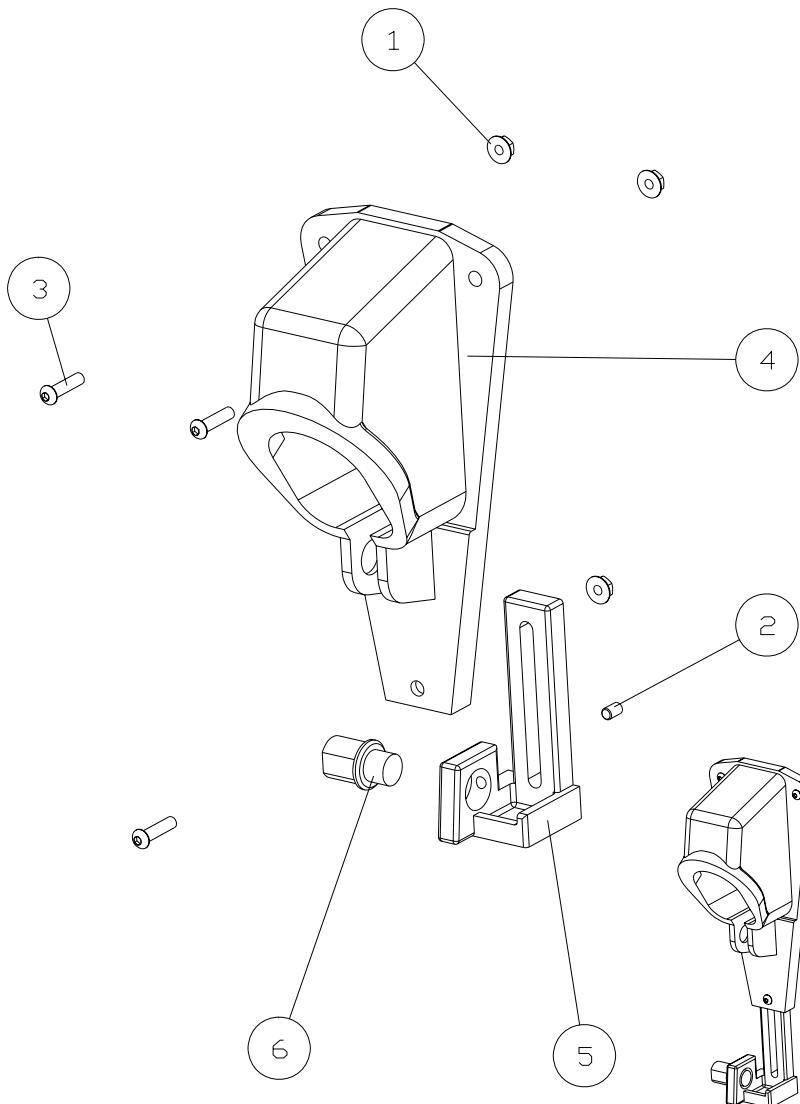
Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Int M10	Rondelle a Dents DIC M10	900021-001	
2	Nut Hex 3/4 - 24 UNS	Ecrou Hex 3/4 - 24 UNS	900041-001	
3	Cap SOUTHCO 90-2 (Cover)	Bouchon SOUTHCO 90-2 (Chapeau)	900042	
4	Nut Hex M10 x 1.00 For Lock	Ecrou M10 x 1.00 Pour Serrures	900043-001	
5	Cam - lock Lock Cam Calc Door Lock Cam DIT door Lock Cam Top cover Lock Cam Hydr Door	Came de serrure Came De Serrure Porte Calc Came de serrure porte DIT Came de serrure top Came de serrure porte hydr	900181 900985 900986 900978 907495	Q100T&200T WWC Calc Head; Q300T Dispenser; Q400T Calc Doors Q500T & 500T1 Calc Head; Q100T Cecli2 Head Q500T & 500T1 DIT & Vidium Doors; Q100T&200T Hydraulic Doors; Q400T DIT & Hydraulic Doors Q500T Hydraulic top cover only Q500T1 Hydraulic Door only
6	Lock	Serrure	900389	

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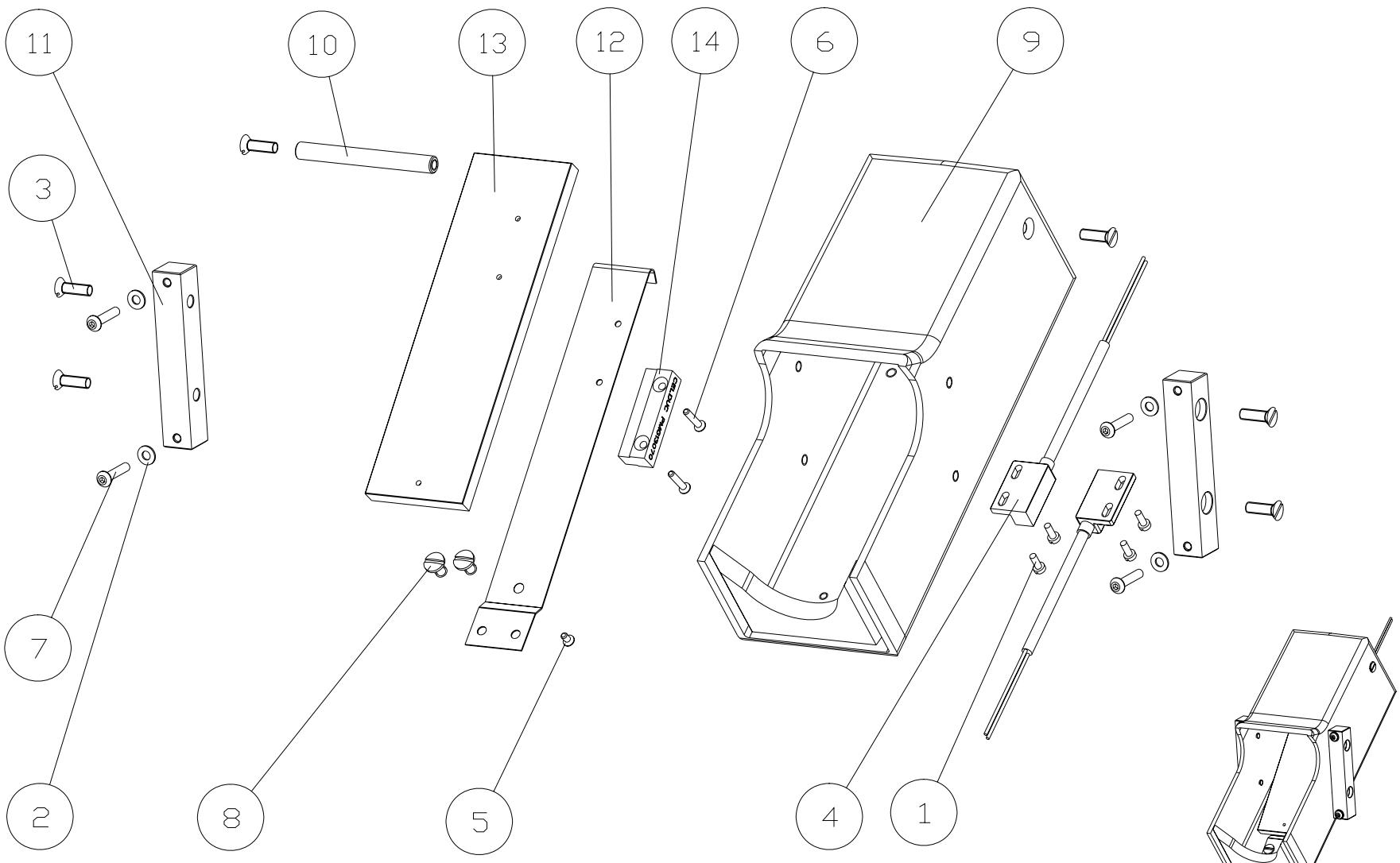
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3 HOSES & NOZZLES

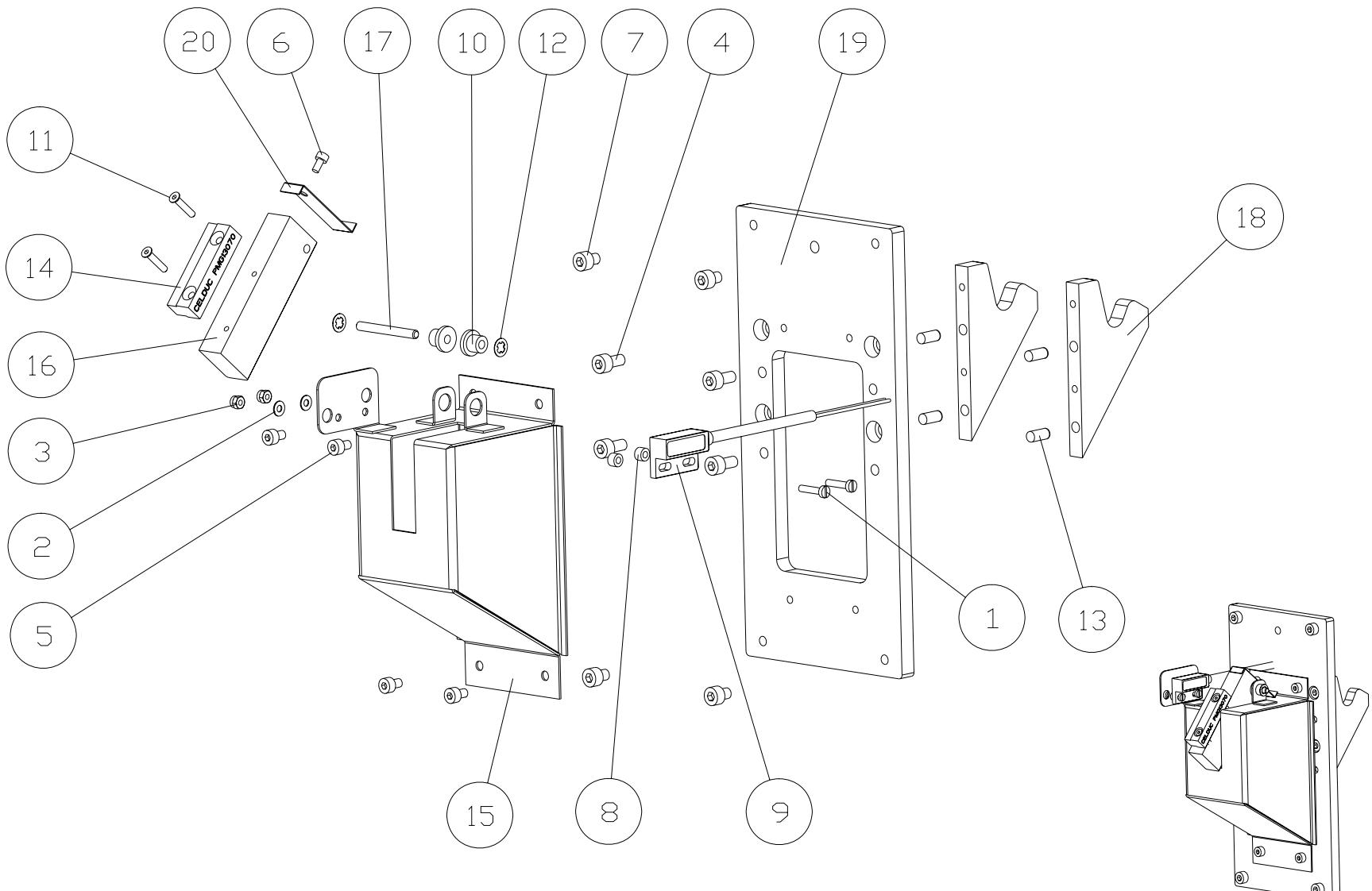
3.1 Nozzle Boot Assembly - Elaflex

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
3	Screw HSB M6x25	Vis M6x25	900795-003	
4	Nozzle Holder LPG Upper	Support Buse GPL	902179	
5	Nozzle Holder Lower Ela	Support inferieur Buse Elaflex	902180	
6	Cylindrical Lock LPG Elaflex	Serrure Cylindrique Elaflex	902181	



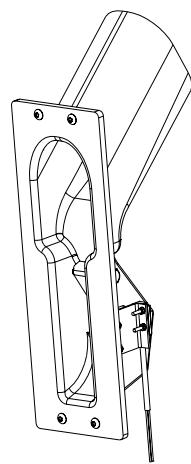
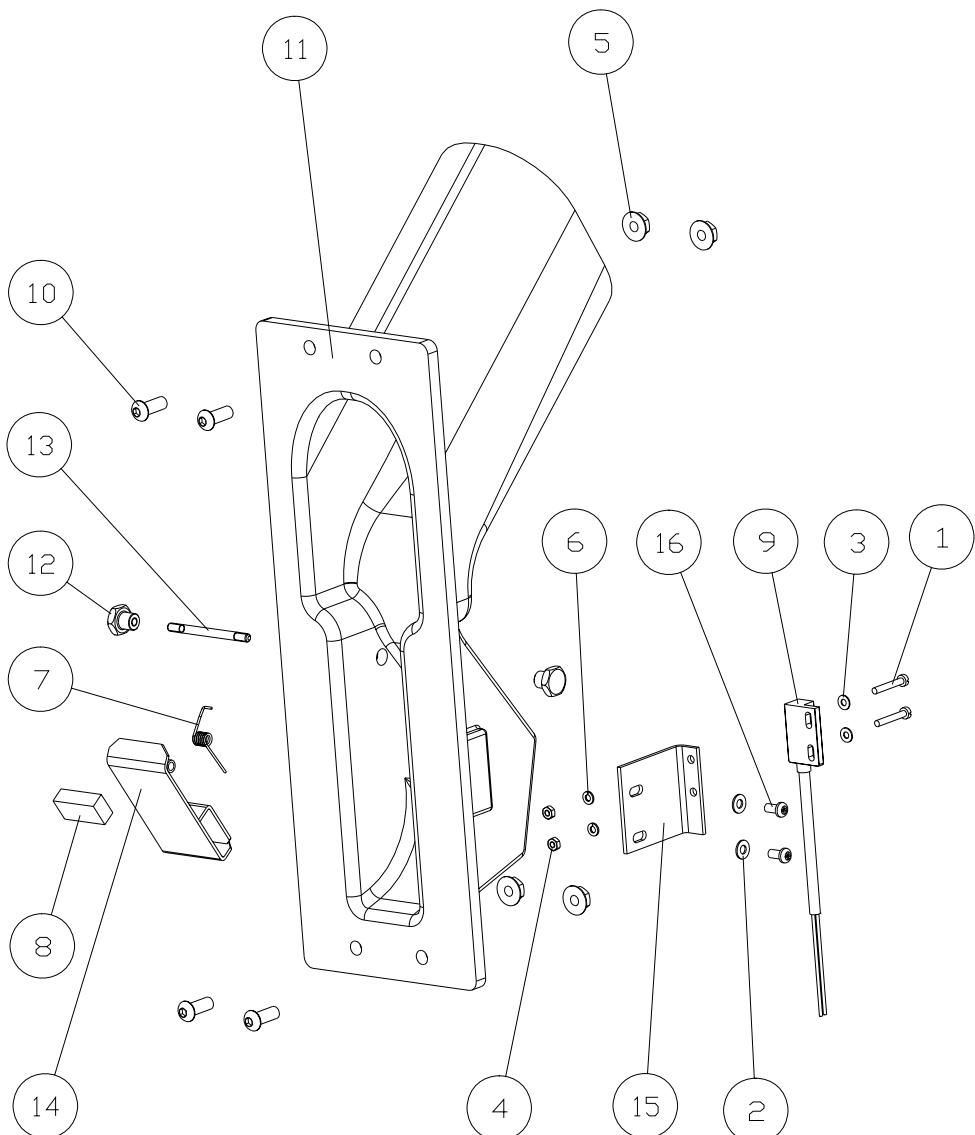
3.2 Nozzle Boot Assembly - Butagaz

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	Vis CS M3x8	900007-008	
2	Washer PI M4	Rondelle PI M4	900008-009	
3	Screw SCS M5x16	Vis FS M5x16	900014-005	
4	Magnetic Proximity Switch	Contact magnétiq de proximité	900387-001	
5	Screw HSC M3x6	Vis FHC M3x6	900643-004	
6	Screw HSC M3x16	Vis FHC M3x16	900643-005	
7	Screw HSB M4x20	Vis M4x20	900795-004	
8	Screw SRH M4x8	Vis RLS M4x8	901361-002	
9	Nozzle boot butagaz assy	Boitier butagaz asm	902122	
10	Shaft - nozzle flap	Axe de butee languette	902126	
11	Block - Nozzle boot mount	Réglette de fixation boitier	902127	
12	Spring - nozzle boot flap	Lamelle boitier	902128	
13	Flap - Nozzle boot	Languette boitier	902129	
14	Magnet - CELDUC PMG 13070	Aimant CELDUC PMG 13070	902293-001	



3.3 Nozzle Boot Assembly - Nettuno

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x14	Vis CS M3x14	900007-012	
2	Washer PI M3	Rondelle PI M3	900008-010	
3	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
4	Screw HSHC M5x10	Vis CHC M5x10	900017-013	
5	Screw HSHC M4x6	Vis CHC M4x6	900017-015	
6	Screw HSHC M3x6	Vis CHC M3x6	900017-016	
7	Screw HSHC M5x6	Vis CHC M5x6	900017-023	
8	Spacer 3.1x6x4	Entretoise Cyl 3.1x6x4	900024-009	
9	Magnetic Proximity Switch	Contact magnétiq.de proximité	900387-001	
10	Bearing 4x8x8	Coussinet C4x8x8	900497-006	
11	Screw HSC M3x16	Vis FHC M3x16	900643-005	
12	Washer Spring Retain Shaft D4	Anneau D'Arret Pour Axe D4	901313-002	
13	Parallel Pin 5x12mm	Goup Cylind C 5x12mm	901348-002	
14	Magnet - CELDUC PMG 13070	Aimant CELDUC PMG 13070	902293-001	
15	Housing - Nozzle boot welded	Cater de buse asm	902314	
16	Flap - nozzle boot	Palette de raz	902315	
17	Shaft - nozzle flap	Axe de palette	902316	
18	Support - Nozzle	Support buse	902317	
19	Plate - nozzle boot face	Platine de façade	902318	
20	Spring - leaf	Lame de ressort	902319	

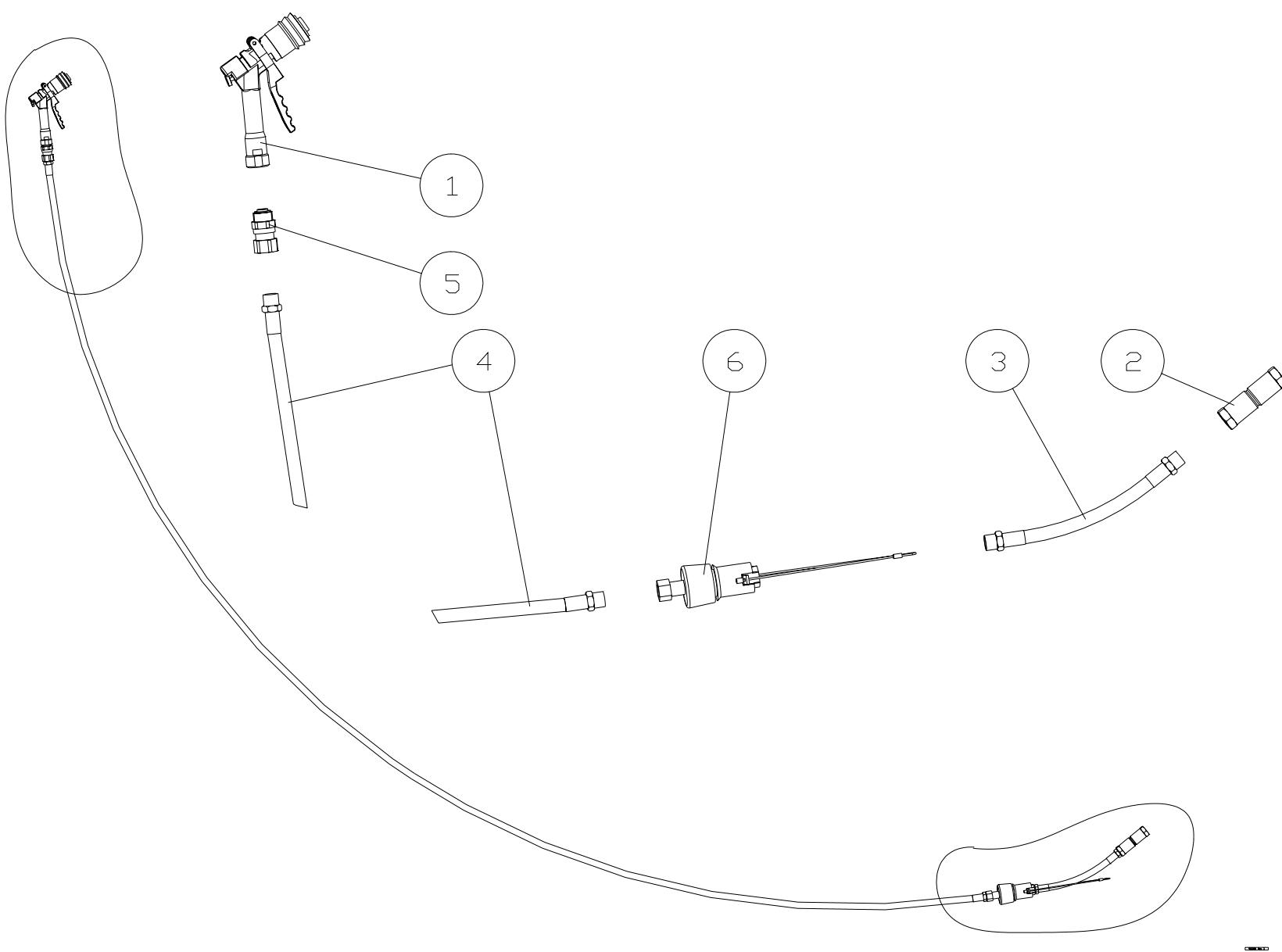


3.4 Nozzle Boot Assembly - LG30

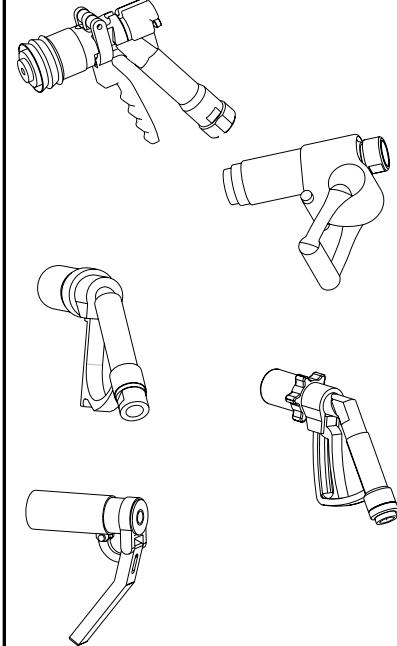
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x20	Vis CS M3x20	900007-002	
2	Washer PI M4	Rondelle PI M4	900008-001	
3	Washer PI M3	Rondelle PI M3	900008-010	
4	Nut Hex M3	Ecrou H M3	900011-008	
5	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
6	Washer Spring Lock M3	Rondelle Elast W 3	900051-002	
7	Flapper Torsion Spring CEN	Ressort torsion obturateur CEN	900090	
8	Nozzle Switch Magnet	Aimant interrupteur injecteur	900092	
9	Magnetic Proximity Switch	Contact magnétiq.de proximité	900387-001	
10	Screw HSB M6x16	Vis M6x16	900795-002	
11	Nozzle Boot LPG LG30	Repose Buse LG30	901234	
12	Nut Flapper Noz Sw LPG LG30	Ecrou Obturateur Buse SW LG30	902064	
13	Pin F Flapper Noz Sw LPG LG30	Pin P Obturateur Sw BUSE GPL	902066	
14	Flapper F Noz Sw LPG LG30	Obturateur P Sw Buse LG30	902067	
15	Bracket Noz Switch LPG LG30	Support Switch GPL LG30	902068	
16	Screw Threadform M4x8	Ecrou M4x8	902081-001	

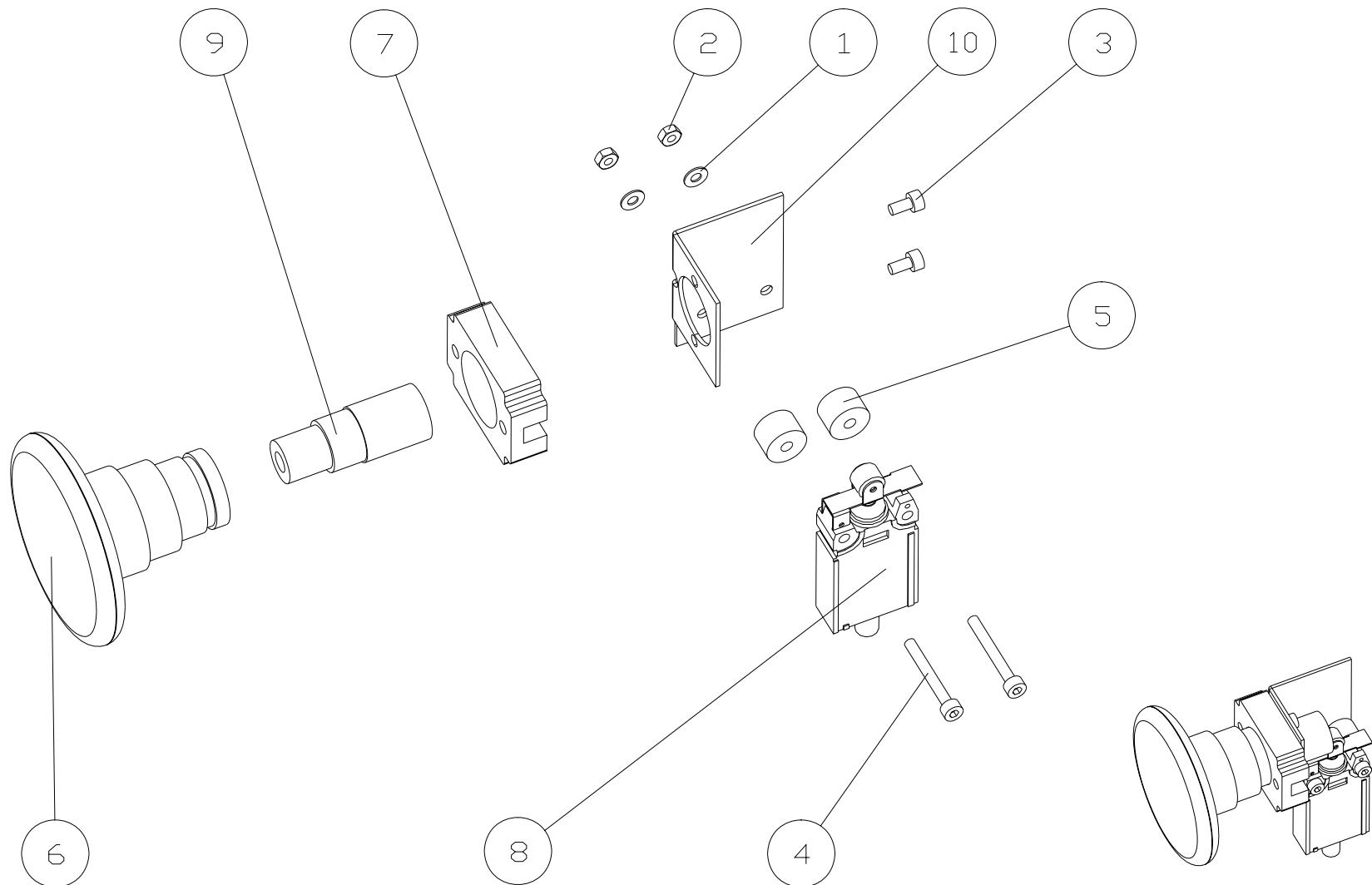
Hoses & Nozzles

Quantum 200T LPG Parts Manual



3.5 Hose to Nozzle Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nozzle - Nettuno T4 Nozzle - LPG Butagaz Nozzle LG30 LPG 3/4 Nozzle Elaflex LPG 3/4" NPT Nozzle Boosekoop LPG 3/4	Buse GPL Nettuno T4 Buse GPL Butagaz Nozzle LG30 LPG 3/4 Buse Elaflex GPL 3/4" NPT Buse Boosekoop GPL 3/4	902047-001 902048-001 901235-001 901445-001 901447-001	
2	Break Coupling - 3/4" NPT	Raccord Cassant 3/4" NPT	902363-001	French option
3	Hose - LPG 0.3m M/M 3/4" NPT	Flex GPL 0.3 m M/M 3/4" NPT	902364-001	
4	Hose - LPG 4.5m M/M 3/4" NPT	Flex GPL 4.5 m M/M 3/4" NPT	902364-002	
5	Conn safety swivel 3/4" NPT M/F Conn safe swivl 3/4"NPT F/G1" M	Raccord Cassant Tourn 3/4" NPT M/F Racc cass tourn 3/4"NPT F/G1" M	902366-001 902366-002	French standard option French option
6	Coupling Break ARGUS AK 3/4" NPT Coupling Break ELAFLEX Coupling Break BATCHEN Break Coupling STAUBLI 200N Break Coupling STAUBLI 280N	Raccord Cassant ARGUS AK 3/4" NPT Accouplement sécurité ELAFLEX Accouplement de coupure GPL BATCHEN Raccord déboitable STAUBLI 200N Raccord déboitable STAUBLI 280N	902411-001 902517-001 904169-001 906424-001 906424-002	



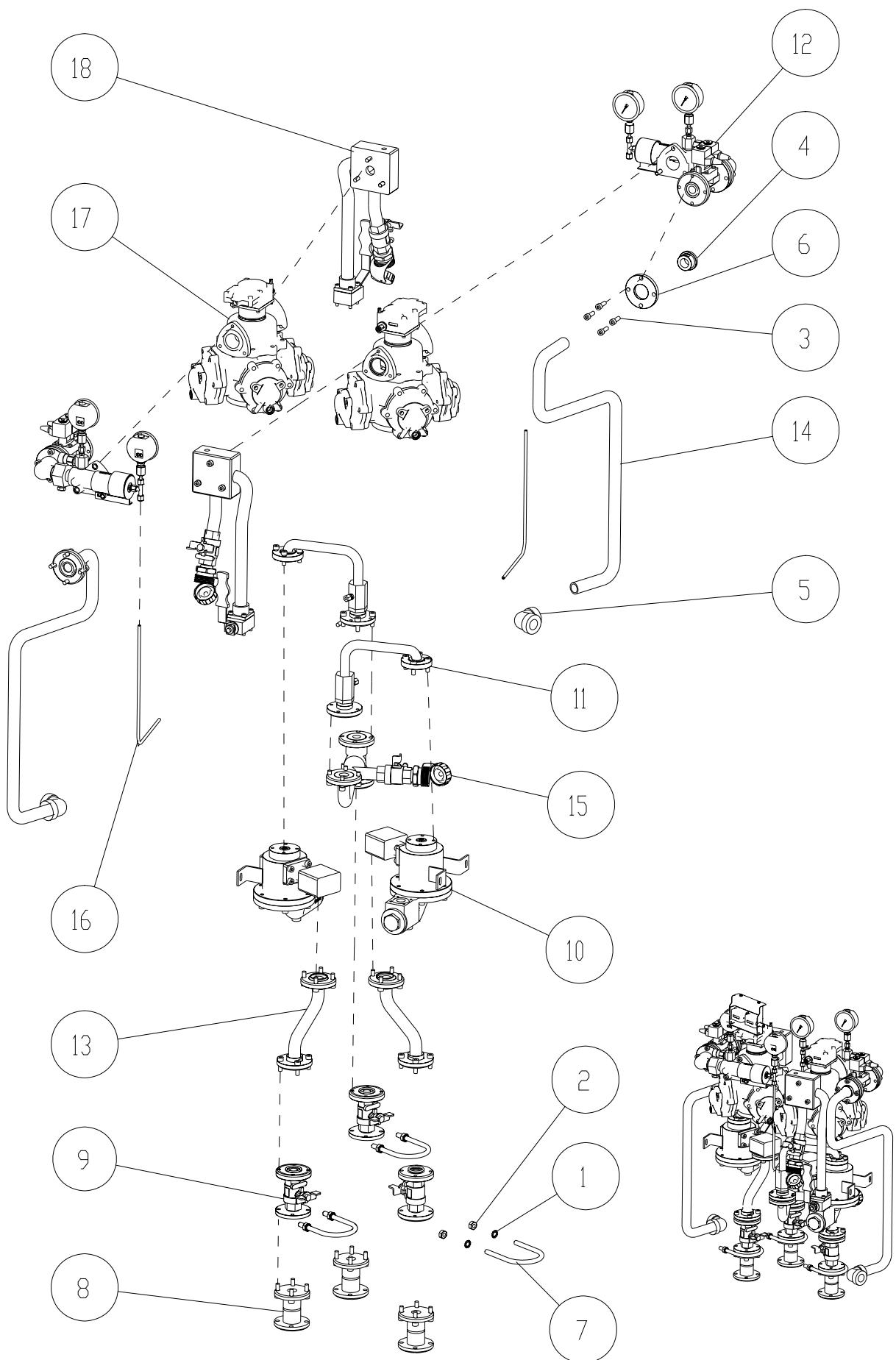
3.6 Push Button Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M3	Rondelle PI M3	900008-010	
2	Nut Hex M3	Ecrou H M3	900011-008	
3	Screw HSHC M3x6	Vis CHC M3x6	900017-016	
4	Screw HSHC M3x25	Vis CHC M3x25	900017-017	
5	Spacer 3.5x12x8	Entretoise Cyl 3.5x12x8	900024-010	
6	Push Button - Green	Bouton Poussoir Vert	902501-001	Dead Mans Button
	Push Button - Red	Bouton Poussoir Rouge	902501-002	Emergency Stop Button
7	Mount - Switch	Embase	902502-001	
8	Microswitch	Microrupteur Inverseur	902503-001	
9	Spacer - Switch Operating	Entretoise De Fixation	902504	
10	Bracket Push Button	Support Bouton	902506	

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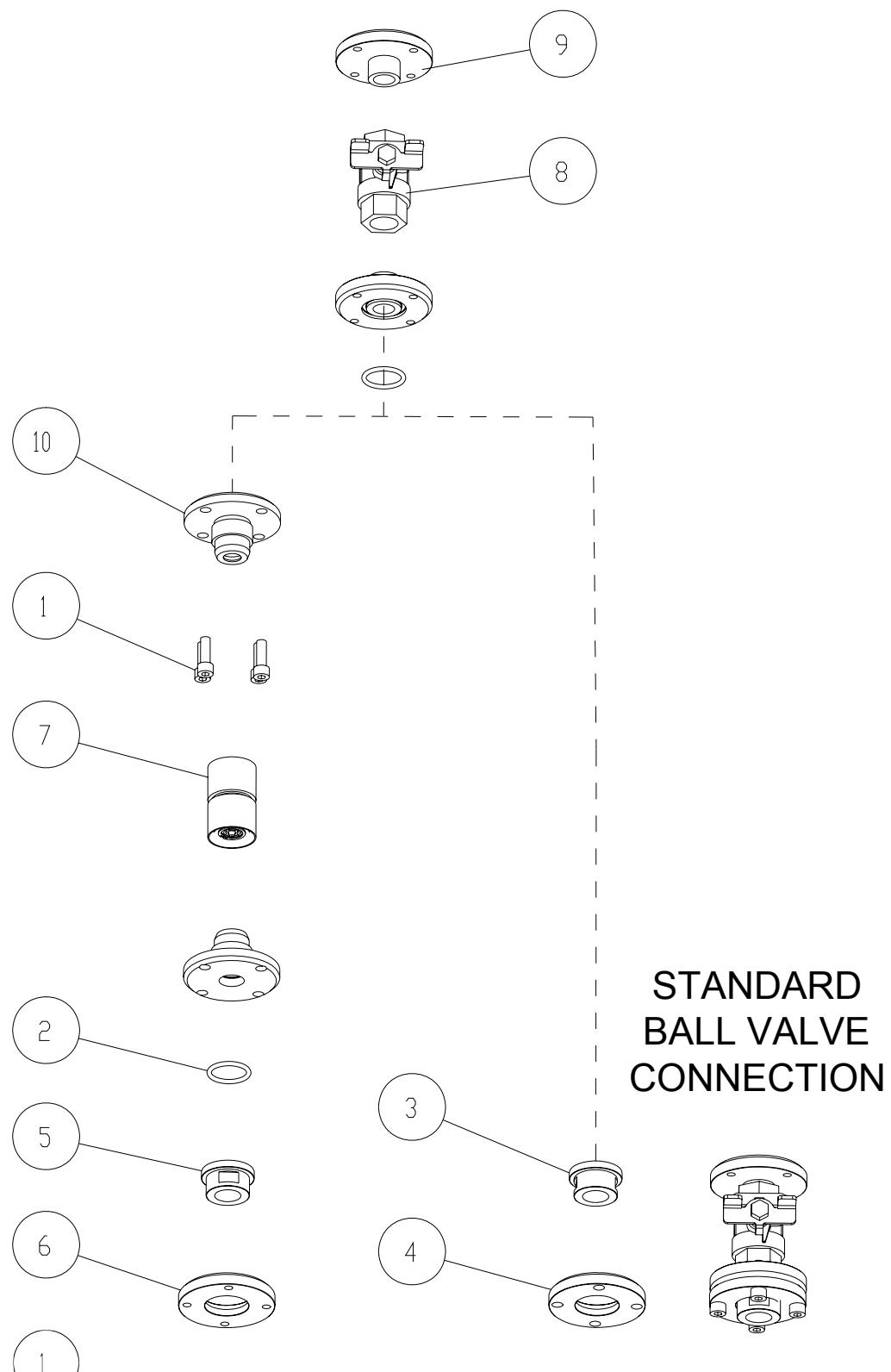
4	DISPENSER LPG HYDRAULICS	4-2
4.1	Q200T LPG Hydraulic Stack Assembly	4-2
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4 DISPENSER LPG HYDRAULICS

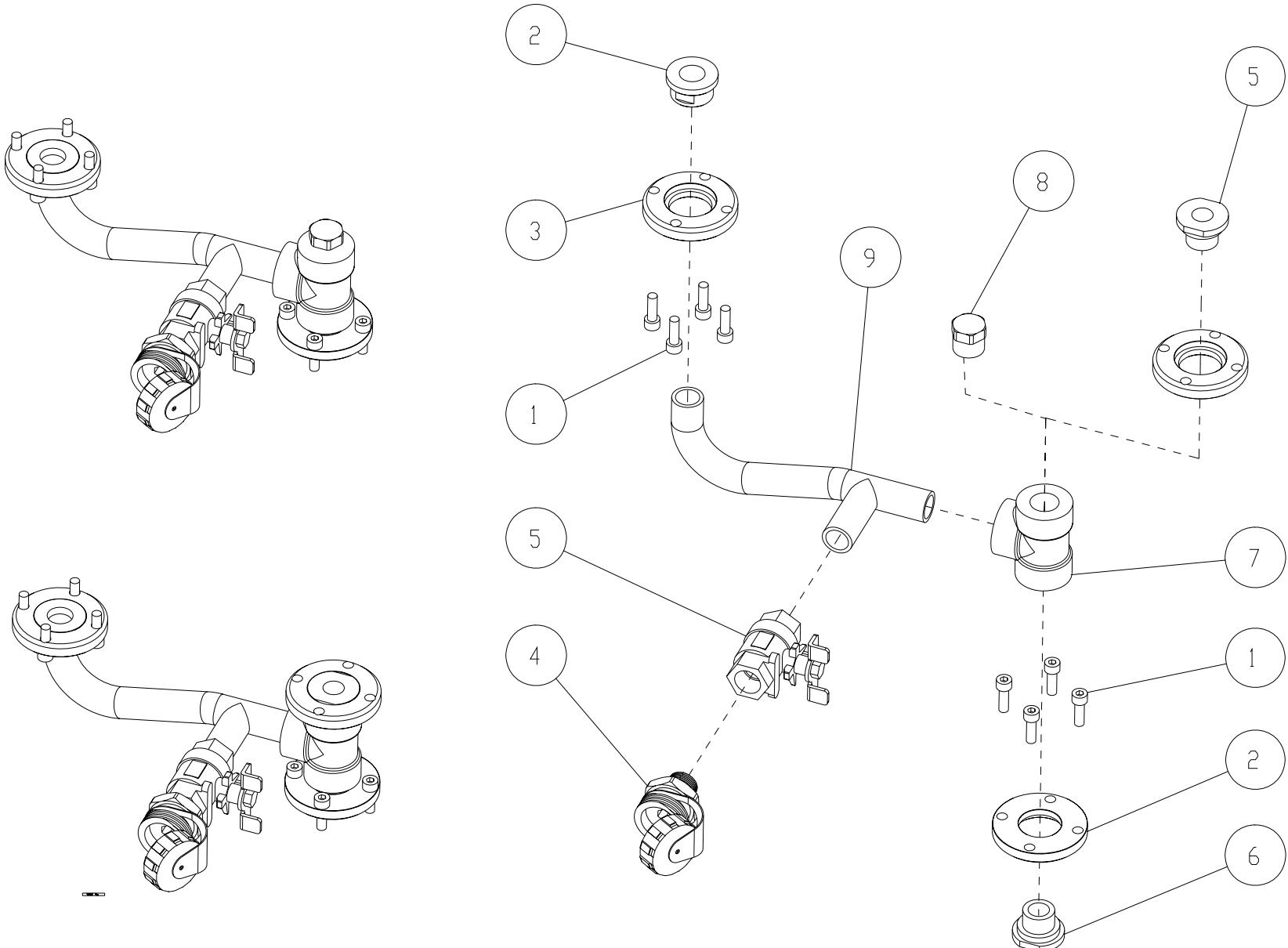
4.1 Q200T LPG Hydraulic Stack Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M10	Rondelle a Dents DEC M10	900009-007	
2	Nut Hex M10	Ecrou H M10	900011-004	
3	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
4	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	
5	Elbow - F/F 3/4" NPT	Coude F/F 3/4" NPT	902361-001	
6	Flange - rotating	Bride tournante trous lisses	902400	
7	U-Bolt 2"1/2	Collier 2"1/2	903160-003	
8	Valve - shear flanged	Raccord sécurité à brides asm	903500	
9	Isolation valve assembly	Vanne d'isolation	904665	
10	Air separator w/o extension	Degazeur sans extension asm	906382	
11	Outlet assy - Gas separator	Sortie degazeur	906467	
12	Diff valve/prst val w/o purge	Vanne diff. EV 2 débits s/ purg	906475	
13	Pipe Assy -air separ. -- Valve	Tube asm - dégazeur --Vanne	907558	
14	Pipe Meter - hose connection	Tube - mes -connect. flex	907559	
15	Gas Return Line - Double Side	Ens. retour phase gaz. double	907620	
16	Pipe - check valve to gauge	Tube clapet manomètre	907622	
17	LPG meter w/ pulser EZ12	Mesureur GPL + Em. EZ12 éq	907635	
18	Assy meter oulet + test	ens sortie mesureur + echantil	907656	



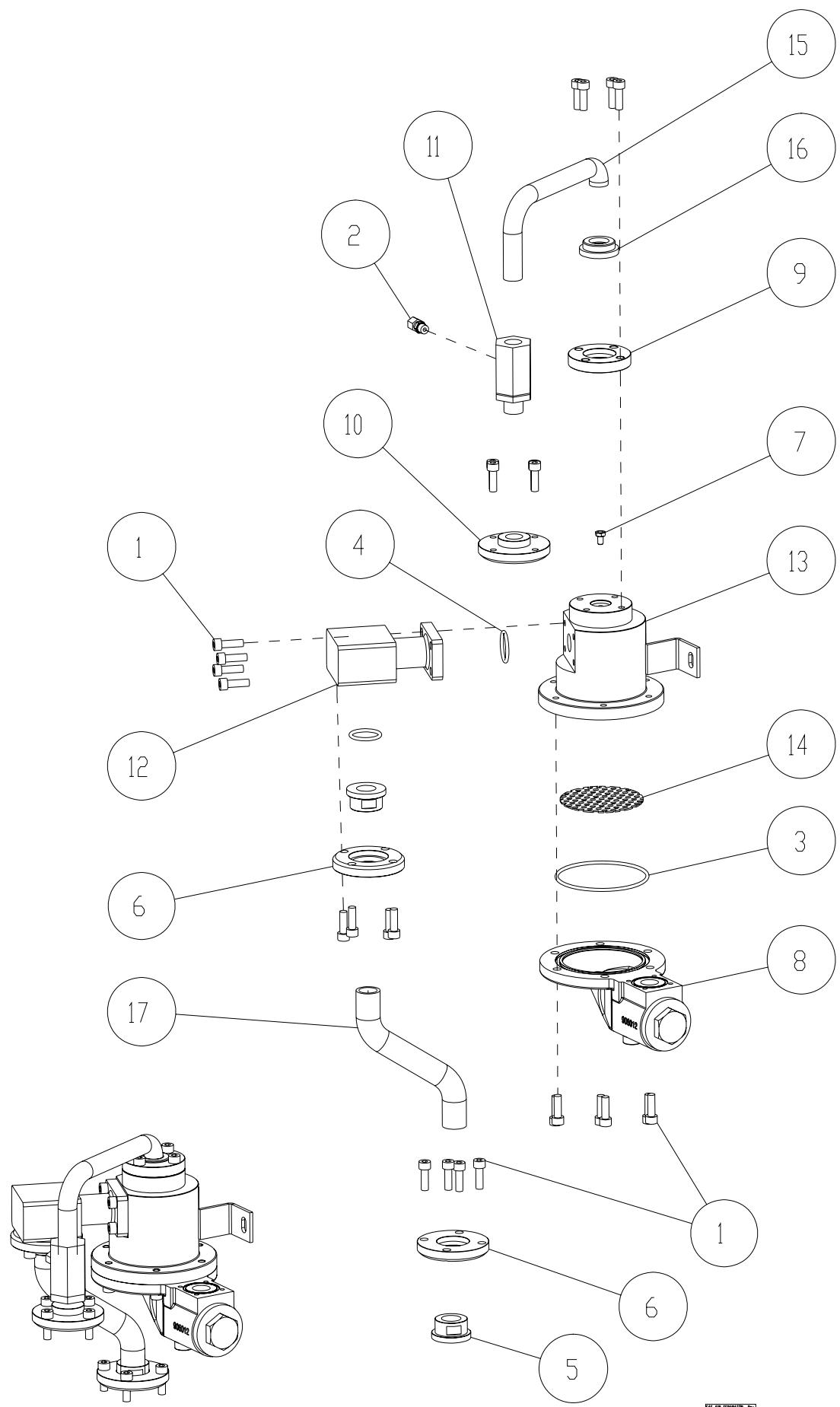
4.2 Ball Valve & Shear Valve Connections

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	O-ring 29,30x3,60	Joint Torique 29,30x3,60 (R22)	900050-040	
3	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	
4	Flange - rotating	Bride tournante trous lisses	902400	
5	Adapter F 3/4 NPT grooved	Embout F 3/4 NPT avec gorge	902944	
6	Flange - rotating threaded	Bride tournante trou taraude	902945	
7	Valve - shear flanged	Raccord sécurité à brides asm	903500	
8	Valve- b/fly 1/4 turn ball 3/4"NF	VANNE BOISS SPHER. PAP.	904243	
9	Flange - male 3/4NPT w groove	Bride électrovanne mâle 3/4 NF	904462	
10	Flange threaded G1	Siège de clapet/bride	904588	



4.3 Gas Return Line Assembly

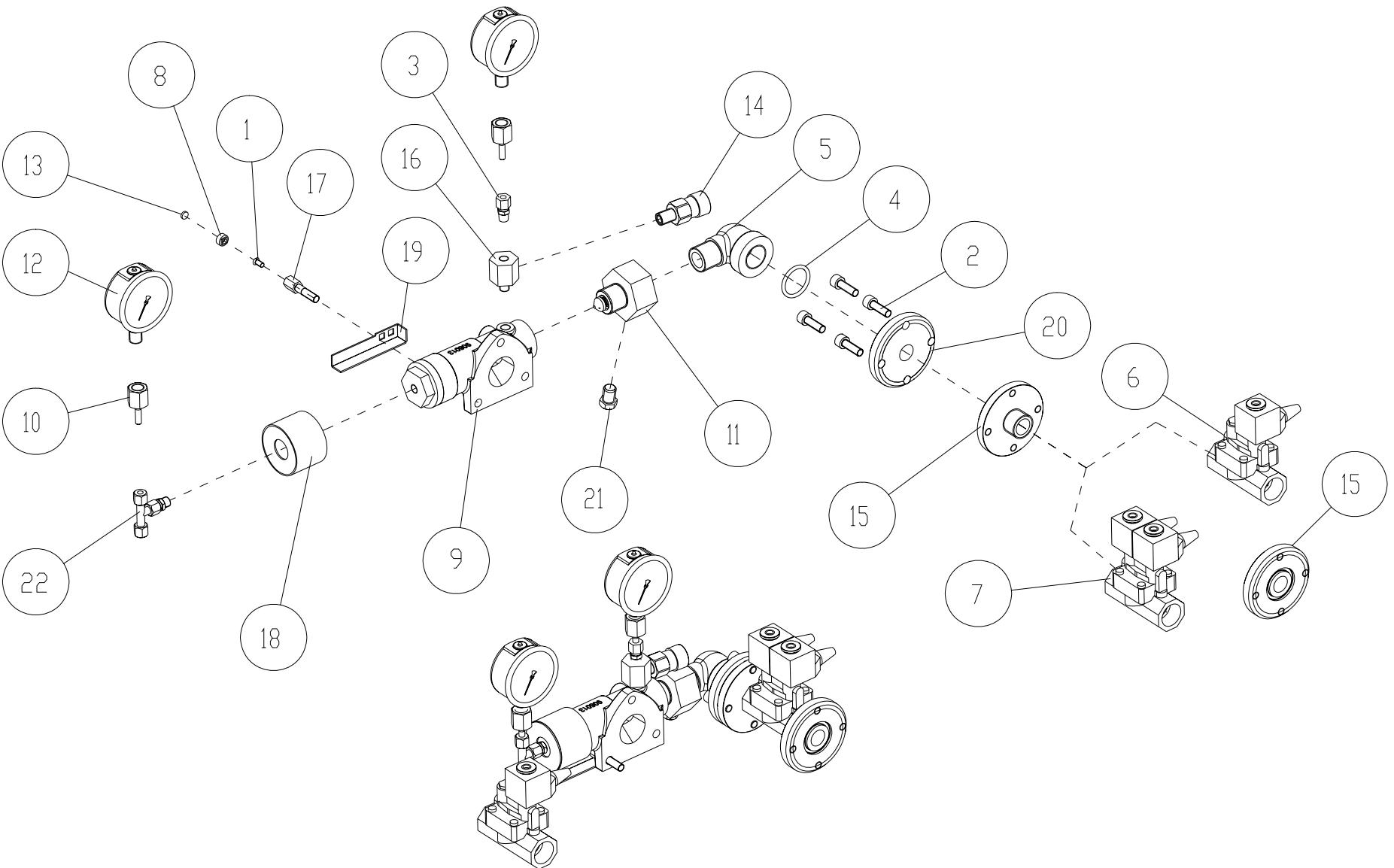
Item No	Description	Désignation Français	Part No	Comments
1	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	
2	Flange - rotating	Bride tournante trous lisses	902400	
3	VALVE DOUBLE CHECK FILLER LPG	CLAPET ANTI -RETOUR DBL LPG	904203	
4	Valve- b/fly 1/4 turn ball 3/4"NPT	VANNE BOISS SPHER. PAP. 3/4"NPT	904243	
5	Adaptor - male 3/4"NPT w/o gr	Embout male 3/4 NPT ss gorge	904261	
6	Tee F/F/F 3/4"NPT	Raccord TE femelle 3/4 NPT	904527	
7	PLug - male 3/4"NPT	Bouchon male 3/4 NPT	904593	
8	Pipe - gas return line	Tubulure retour phase gazeuse	907619	
9	Gas Return Line - Double Sided	Ens. retour phase gaz. double	907620	



Issue A

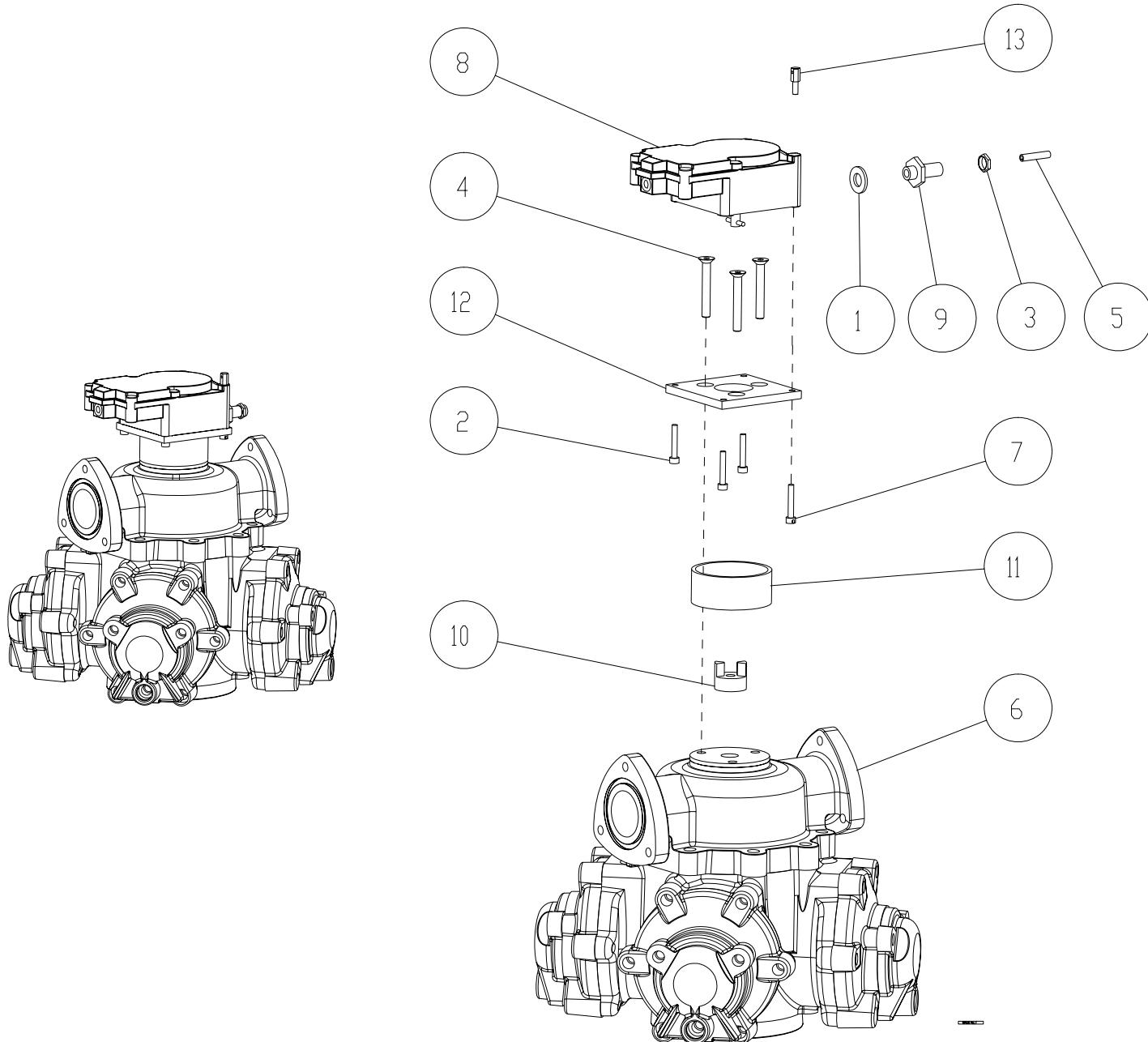
4.4 Gas Separator Assembly incl. Inlet & Outlet

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	Straight compr 1/8NPT - 6mm	Rac Piq Male 6 - 1/8 NPT	900032-006	
3	O-ring 98,00x3,50	Joint Torique 98,00x3,50	900050-037	
4	O-ring 29,30x3,60	Joint Torique 29,30x3,60 (R22)	900050-040	
5	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	
6	Flange - rotating	Bride tournante trous lisses	902400	
7	Jet air separator	Gicleur du dégazeur	902721	
8	Check valve assembly	Emsemble clapet anti retour	902728	
9	Flange - gas pipe fixing	Bride fixation tubulure ph gaz	904655	
10	Flange - F 1/2"NPT with groove	Bride F 1/2 NPT avec gorge	904658	
11	Valve assy - non-return	Clapet anti retour monte	904668	
12	Coupling inlet liquid	Raccord entrée liquide	905355	
13	Body LPG air seapator assy	Corps de degazeur GPL asm	905358	
14	Filter assembly	Filtre assemble	905362	
15	Pipe - Gas phase - Weld assy	Tube - dégazeur - vanne	906466	
16	Pipe -air separator -- valve	Tube - dégazeur -- Vanne	907557	



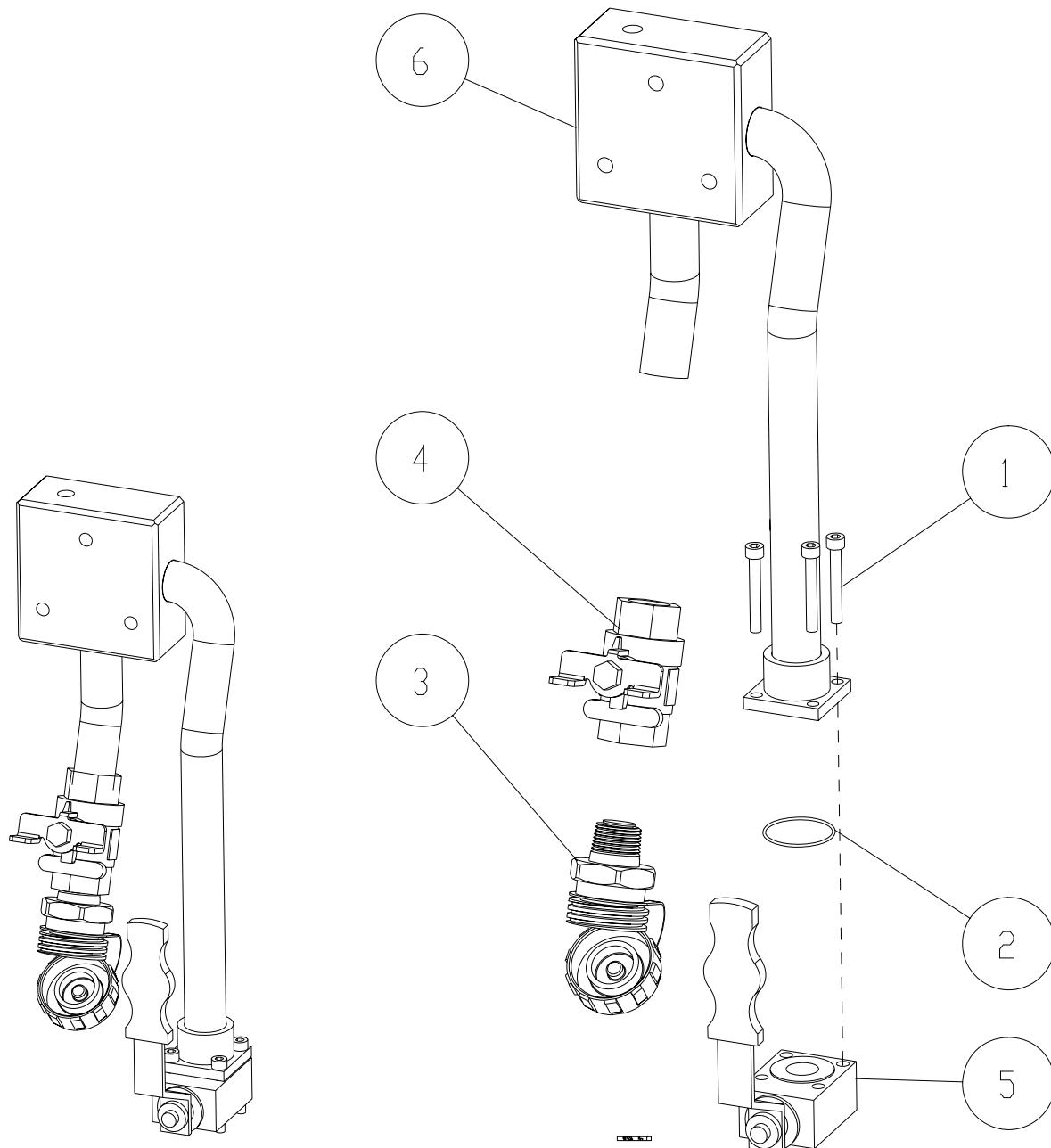
4.5 Differential Valve & Gauge Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCS M5x10	Vis FS M5x10	900014-008	
2	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
3	Straight Compr 1/8" NPT 6mm	Rac Piq Male 6 - 1/8 NPT	900032-004	
4	O-ring 29.30x3.60	Joint Torique 29.30x3.60	900050-040	
5	Elbow M/F 3/4" NPT	Coude M/F 3/4" NPT	902362-001	
6	Valve Assy LPG One Solenoid	Electrovanne / Un Bobine GPL	902647	Non-preset valve only
7	Valve Assy LPG Two Solenoid	Electrovanne / Deux Bobines GPL	902648	Preset valve only
8	Cup - Lead seal	Coupelle de plombage	902789	
9	Valve Differential Assy	Vanne Differentielle asm	902980	
10	Adaptor manometer	Embase pour manometre	902984	
11	Excess flow valve assy	Limiteur de debit asm	902985	
12	Gauge 63mm 0-40 bar R1/4	Manometre 63mm 0-40 bar R1/4	903033-001	
13	Seal - Lead (cup type) D8x2	Plomb à sceller D8x2	903177-001	
14	Valve Rego 1/4" NPT	Soupape Rego 1/4" NPT	904198-001	
15	Flange - male 3/4NPT w groove	Bride électrovanne mâle 3/4 NPT	904462	
16	Connector - press relief valve	Embase soupape	904540	
17	Screw - sealing, for Diff. valve	Vis de plombage	904592	
18	Cup seal assy for Diff. valve	Coupelle de plombage asm	904603	
19	Cup seal Bracket	Patte de plombage	904761	
20	Flange - male 3/4NPT w/o groove	Bride mâle 3/4 NPT (lg 30)	904880	
21	Plug Male 1/4" NPT	Bouchon Mâle 1/4" NPT	906477-001	
22	Assembly Tee 6 x 6 x 1/8 NPT	Assemblage Te 6x6x1/8" NPT	907005	



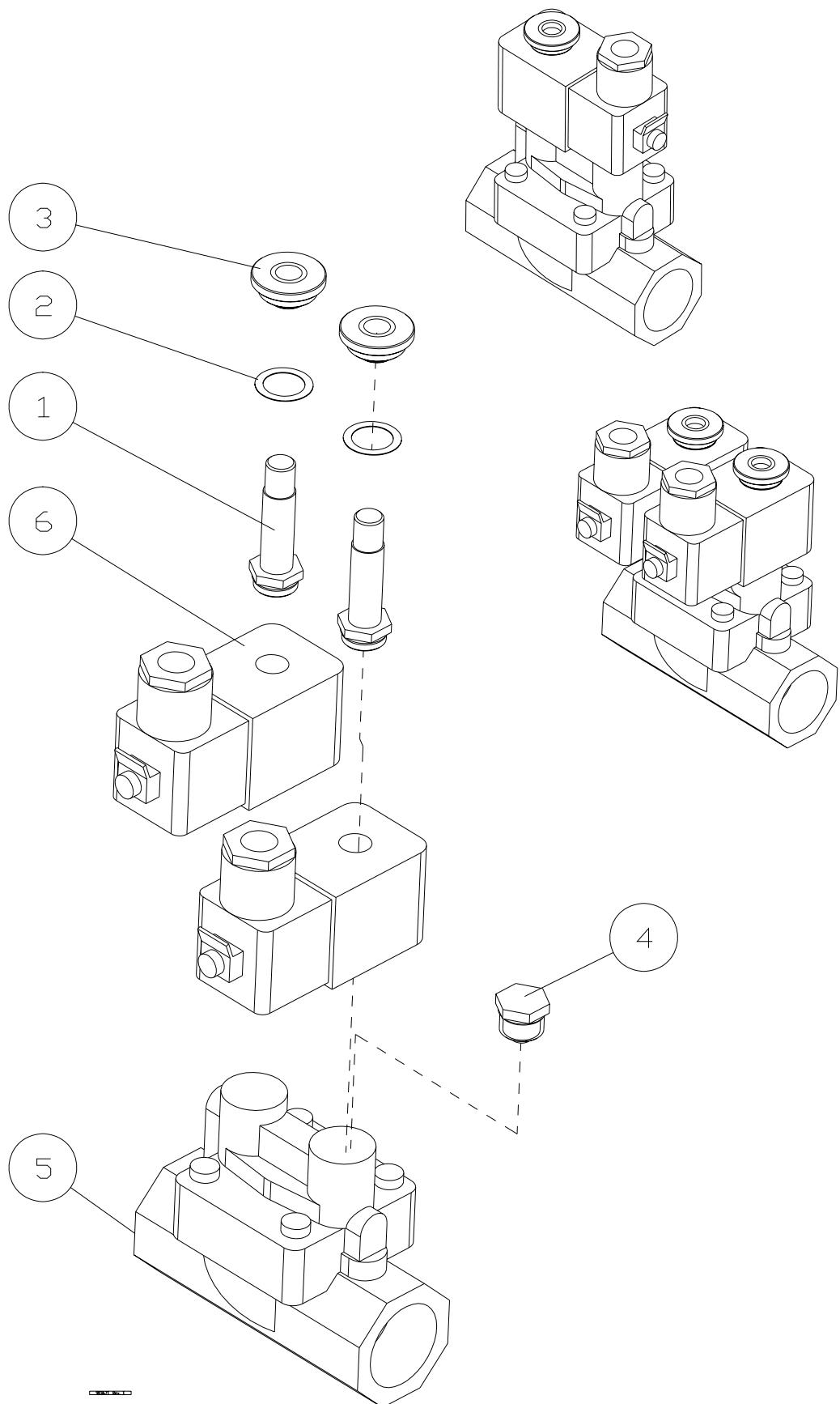
4.6 Meter & Pulser Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M10	Rondelle PI M10	900008-014	
2	Screw HSHC M4x25	Vis CHC M4x25	900017-020	
3	Nut Hex M10 x 1,00 For Lock	Ecrou M10 x 1,00 Pour Serrures	900043-001	
4	Screw HSC M6x45	Vis FHC M6x45	900643-006	
5	Adapter Meter Totaliser	Adapteur Mesureur Totalisateur	902624	
6	Meter LPG 700 assy	Mesureur GPL 700 assemble	902770	
7	Totaliser Flex Drive Cable 900	Cable D'entrainment De Tot 900	903062-002	
8	Screw HSHC M4x25 Drilled	Vis CHC M4 x 25 Percee	903811-006	
9	Pulser with tote EZ12 Pulser - Eltomatic with tote Pulser ELTO without tote	Emmeteur avec tote EZ12 Emmeteur ELTO avec tote Emmeteur ELTO sans tote	907509 903607 903031	External mech tote Internal mech tote No tote
10	Adaptor for totalizer	Adaptateur pour totalisateur	907633	
11	Pulser driver	Entraineur émetteur	907650	
12	Spacer for pulser	Entretoise émetteur	907651	
13	Bracket - pulser	Support emetteur	907652	
14	Sealing screw for pulser	Vis de plombage emetteur	907653	



4.7 Meter Pipe & Test Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M6x45	Vis CHC M6x45	900017-018	
2	O-ring 37,00x1,50	Joint Torique 37,00x1,50	900050-039	
3	Valve Double Check Filler LPG	Clapet anti-retour dbl GPL	904203	
4	Valve - b/fly 1/4 turn ball 3/4"NPT	Vanne Boiss Spher pa. 3/4"NPT	904243	
5	Valve - 1/4 turn flanged	Vanne 1/4 de tour	904589	
6	Pipe air separator assy	Tube sortie degazeur asm	907655	



Issue A

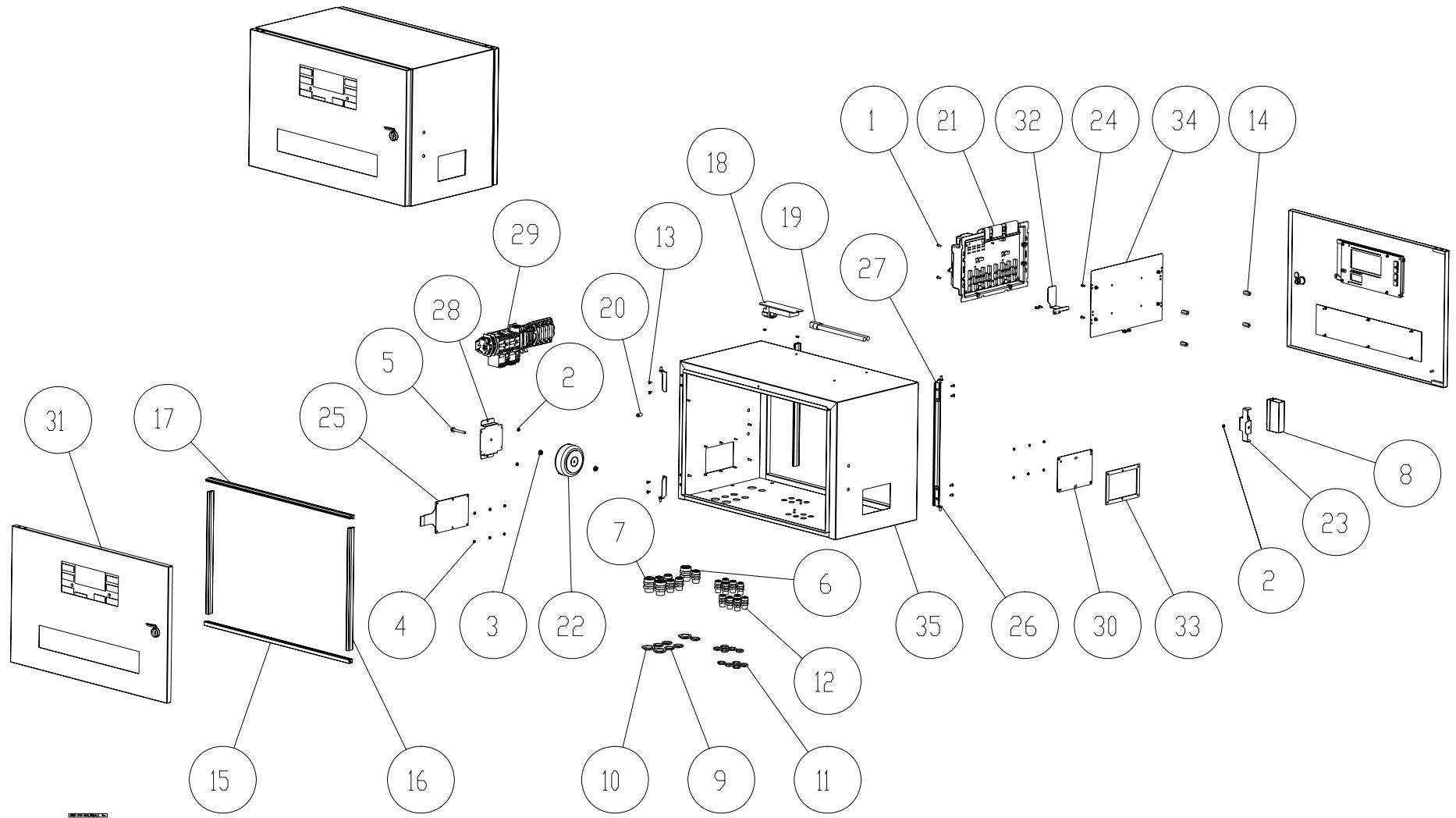
4.8 Solenoid Valve Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Plungerhouse + plunger	Plongeur complete	900723	
2	Spring for plunger	Ressort de plongeur	900724	
3	Nut for plunger	Ecrou par plongeur	900725	
4	Stop+seal inline valve	Bouchon soupape	900726	
5	Valve Body 3/4" LPG	Electrovanne Corps 3/4" GPL	902637	
6	Solenoid 24V Solenoid 230V	Bobine 24V Bobine 230V	902646 903046	For Gas Return only

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5.4	Terminal Rail	5-10

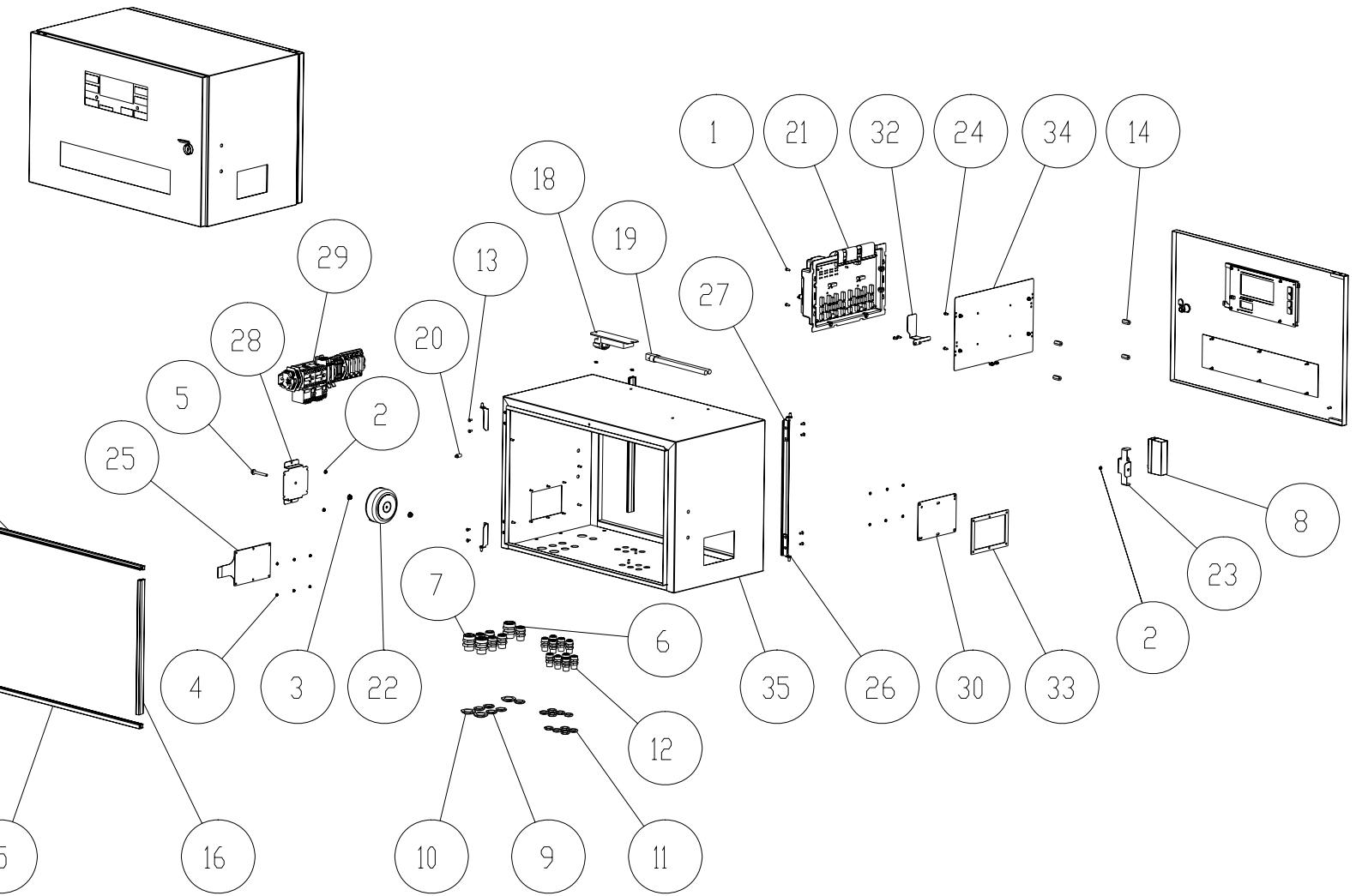


5 DISPENSER ELECTRONICS

5.1 Q200T LPG WWC T1 Calculator Head Assembly

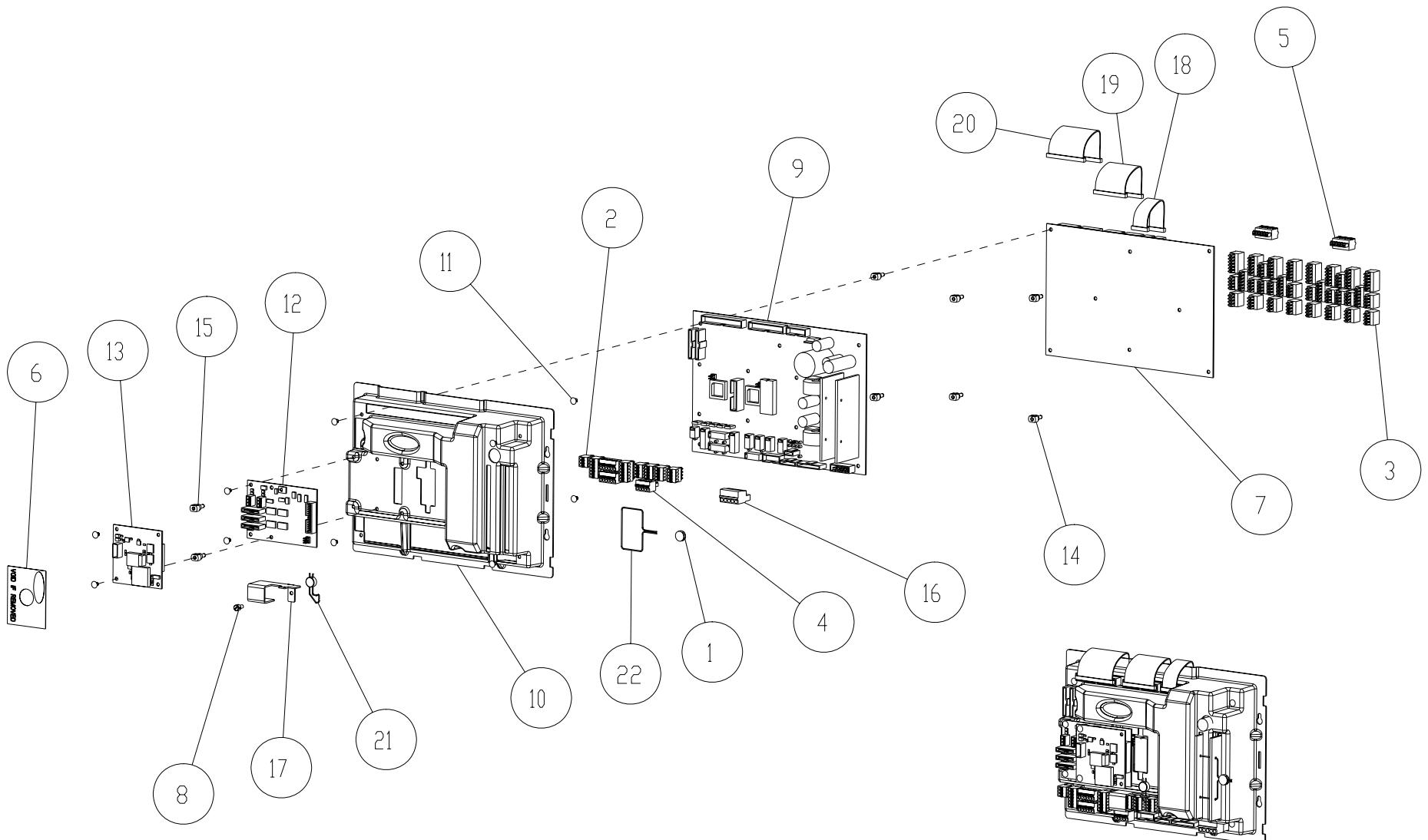
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x10	Vis CS M4x10	900007-001	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Screw HFHSL M6x50	Vis Hex Br Autobl M6x50	900016-005	
6	Gland M20X1,5 Eexe II 8-13mm	PE M20X1,5 Eexe II 8-13mm	900064-001	
7	Gland M25X1,5 Eexe II 13-19mm	PE M25X1,5 Eexe II 13-19mm	900065-001	
8	Battery 6V	Batterie 6V	900075	
9	Nut Hex M20 x 1,5 (Bartec)	Ecrou Hex M20 x 1,5 (Bartec)	900088-001	
10	Nut Hex M25 x 1,5 (Bartec)	Ecrou Hex M25 x 1,5 (Bartec)	900088-002	
11	Nut Hex M16 x 1,5 (Bartec)	Ecrou Hex M16 x 1,5 (Bartec)	900088-005	
12	Gland M16X1,5 Eexell 5-8mm	PE M16X1,5 Eexell/ 5-8mm	900362-001	
13	Screw HSC M4x10	Vis FHC M4x10	900643-002	
14	Spacer Thr Hex FF M4x22x11	Entretoise Hex FF M4x22x11	900711-014	
15	Seal EMKA 1011-06 length 620 mm	Joint tube EMKA 1011-06 Lg 620 mm	900729-005	
16	Seal EMKA 1011-05 length 385	Joint tube EMKA 1011-05 Lg 385	900730-009	
17	Seal EMKA 1011-05 length 615	Joint tube EMKA 1011-05 Lg 615	900730-010	
18	Ballast Socket Integrated	Ballast douille intégré	900738	
19	Lamp Fluorescent ORYX 11 W	Tube Fluo ORYX 11W	900739	
20	Silencer	Amortisseur Du Son	900748	
21	WWC 251 Cover Assy with IO board	WWC 251 Couvrir Asm avec IO	901441	Refer to separate WWC drawing
22	Toroidal Power Transformer	Toroidal Transformateur	901541	
23	Bracket Battery Calculator	Encadrer Calc de Batterie	901545	
24	M4x8 Sealing Screw 5-8 StZn	M4x8 Scellant Vis 5-8 StZn	901551-001	
25	Membrane Keyboard 4X4	Clavier Prede 4x4	902470	

(Cont.)



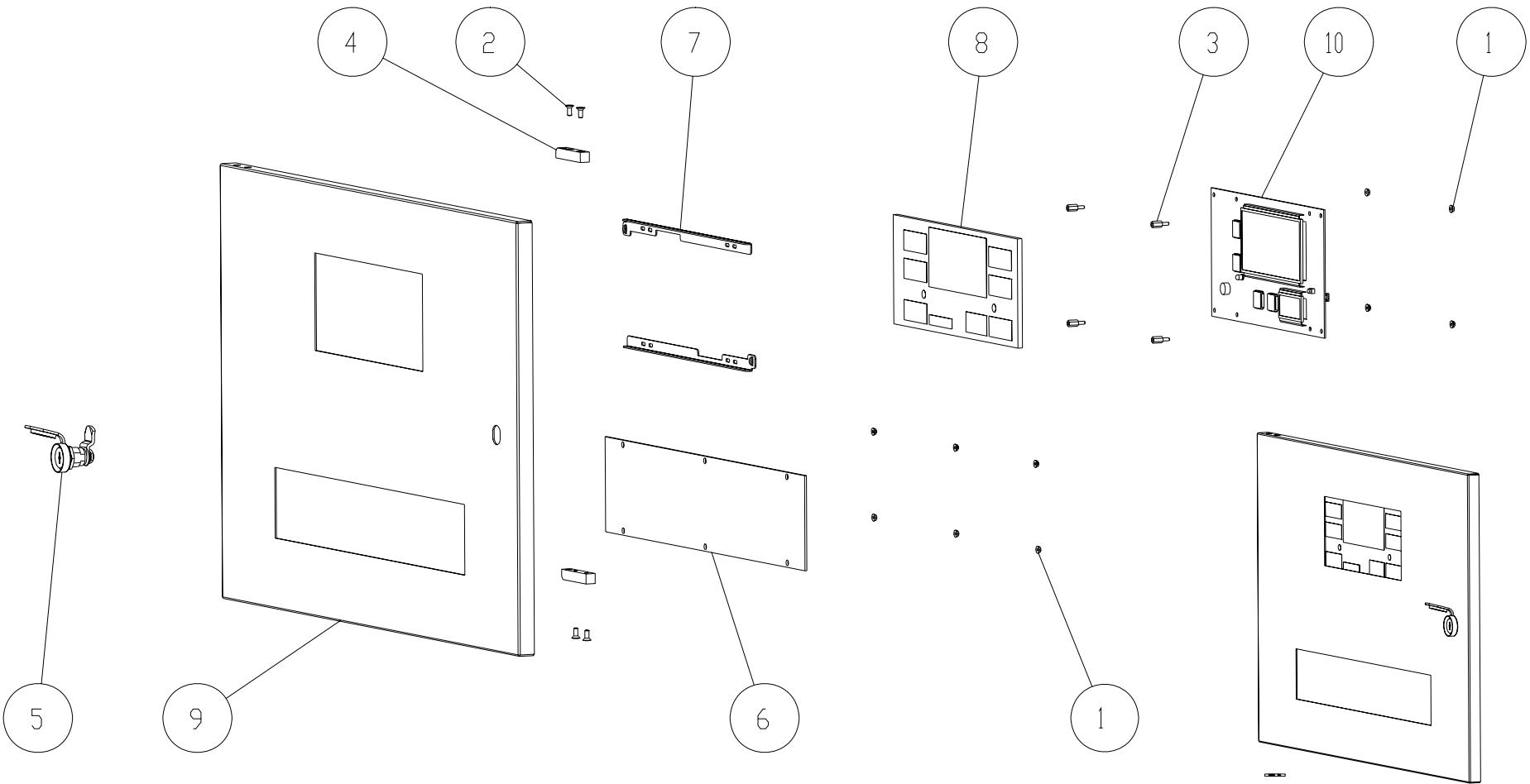
5.1 Q200T LPG WWC T1 Calculator Head Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
26	Hinge bracket low assy	Equerre basse nu asm	903562	
27	Hinge bracket high assy	Equerre haute nue asm	903564	
28	Transformer bracket	Support transformateur	903605	
29	Q100t-rail-assy-WWC	Q100T-Bornier-ass-WWC	903608	Refer to separate rail drawing
30	Full cap reset RàZ & Preset	Tôle obturation RaZ & Prédé	903752	
31	Door head double lighted assy	Portillon double éclairé asm	-	Refer to separate LCD Door drawing
32	Bracket pulser conn sealing	Encadrer pulser connection	904532	
33	Gasket preset full cap plate	Joint tôle obturation prétré	904853	
34	Calculator - Bracket assy	Support calculateur asm	905036	
35	Pres keyp head IP54 assy	Tête prétré IP54 soudée & asm	907674	
	Preset keypad head Sst welded IP54	Tête prétré inox soudée IP54	907676	



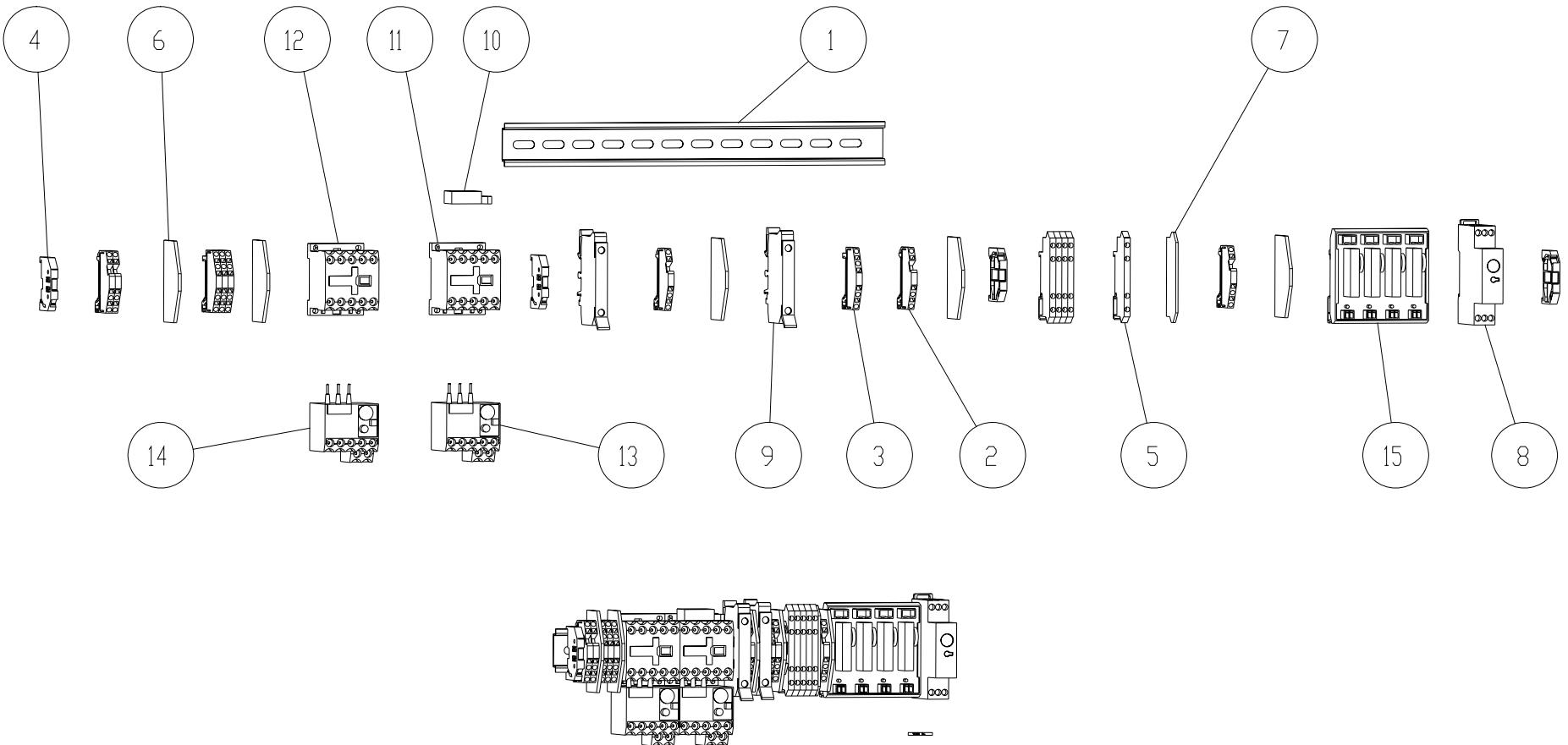
5.2 Q200T LPG WWC T1 Cover Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Sealing Lead	Plomb à pincer	900040	
2	Connector pitch 3.81mm 2p	Connector pitch 3.81mm 2p	900862-003	
3	Connector pitch 3.81mm 3p	Connector pitch 3.81mm 3p	900862-004	
4	Connector pitch 3.81mm 4p	Connector pitch 3.81mm 4p	900862-005	
5	Connector pitch 3.81mm 5p	Connector pitch 3.81mm 5p	900862-006	
6	Sticker Void if removed	Le Vide d'autocollant si enleve	901408	
7	WWC IO Board V5	WWC IO Board V5	901410	
8	M4x8 Sealing Screw 5-8 StZn	M4x8 Scellant Vis 5-8 StZn	901551	
9	WWC Mainboard V4	-	901553	
10	WWC-251-Cover	WWC-251-Couvrir	901559	
11	4MM NYLON RIVET	4mm nylon rive	901560-001	
12	PCB/WWC022/EIB/IO EXT BRD	PCB/WWC022/EIB/IO EXT MONTE	901561	
13	WWC Comms Board Gen	WWC Communication Monter Gen	901562	
14	9,5mm Nylon Board Support	9,5mm Nylon monter soutien	901563-001	
15	11mm Nylon Board Support	11mm Nylon monter soutien	901563-002	
16	Connector FKC 2.5	Connecteur FKC2.5	902042-005	
17	Pulser cover	Couvercle emmeteur	9400025980	
18	Assy flat cable MB I-O 16 pole	Asm flat cable MB I-O 16 pole	-	
19	Assy flat cable MB I-O 34 pole	Asm flat cable MB I-O 34 pole	-	
20	Assy flat cable MB I-O 40 pole	Asm flat cable MB I-O 40 pole	-	
21	Pulser wire seal	Métallique cacheter emmeteur	-	
22	Wire seal	Métallique cacheter	-	



5.3 Q200T LPG LCD Door Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
2	Screw HSC M4x10	Vis FHC M4x10	900643-002	
3	Spacer Thr Hex MF M3x10x8x8	Entretoise Hex MF M3x10x8x8	900711-013	
4	Hingebar brass	Gond porte colonne	900733	
5	Assembly Lock DIT Blind Door	Ass Serrure Porte DIT Aveugle	-	Refer to separate Lock drawing
6	Plexi - Lighted product indic.	Plexi rappel produit Brut	901071	
7	LCD glass-bracket	Support glace LCD	903697	
8	Glass LCD screen printing black	Glace LCD sérigraphiée noire	903698	
9	Door head double lighted assy Door head dble light assy sst Door head double assy Door head double assy sst Door head simple lighted assy Door head simple light assy sst Door head simple assy Door head simple assy sst Door head blind assy Door head blind assy sst	Portillon double éclaire asm Portillon dble éclair asm inox Portillon double asm Portillon double asm inox Portillon simple éclaire asm Portillon spé éclair asm inox Portillon simple asm Portillon simple asm inox Portillon aveugle assemblé Portillon aveugle asm inox	903865 904572 903520 904569 903866 904573 903704 904570 903701 904571	Double display & light Double display & light-Stainless Steel Double display Double display - Stainless Steel Single display & light Single display & light-Stainless Steel Single display Single display - Stainless Steel
10	Cust Sales Display LCD	Afficheur prix de vente LCD	904788	



5.4 Terminal Rail

Item No	Description	Désignation Français	Part No	Comments
1	Rail TS-35 L = 320mm	Rail de bornier TS-35 L = 320mm	901432-004	
2	Clamp 3 Way 2.5Qmm Green/yellow	Borne 3 Voies 2.5Qmm Verte/jaune	901710-001	
3	Clamp 4 Way 2.5Qmm Grey	Borne 4 Voies 2.5Qmm Gris	901711-001	
4	Endstop Grey 35mm 249-116	Extr Stop Gris 35mm 249-116	901712-001	
5	Clamp 2x2 Way Grey 280-626	Borne 2x2 Voies Gris 280-626	901714-001	
6	Separation Plate OG 280-318	Plaque Separation OG 280-318	901854-001	
7	Separation Plate OG 280-327	Plaque Separation OG 280-327	901855-001	
8	Timer	Temorisateur	903376	
9	Fuse Holder for 6,3x32 fuse	Porte Fusible section. 6.3x32	903482	
10	Protection set RC-DIL E 250	Module protection RC-DIL E 250	903613-001	
11	Relay DIL EM 10 Moeller	Cont DIL EM 10 Moeller	903614	
12	Relay DIL EM 10 24V Moeller	Cont DIL EM 10 24V Moeller	903614-002	
13	Thermal protection Moeller	Relais thermique Moeller	903615	
14	Thermal protect 0-2.4 ZE 2.4	Relais thermiq 0-2.4 ZE 2.4	903615-001	
15	Solid state relay board complete	Carte relais statique complète	903872	

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