



Quantum 500T1 LPG (Stand Alone / Combo)



Parts Manual



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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.

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 500T1 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
author@dundee.tokheim.com

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 box 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



Do not fill bottles with gas.



Do not fill balloons with gas.

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, EN14678-1).

The components used within the dispenser, including connection facilities, are selected in accordance with the European Standard EN BS 60079-0 (Electrical Apparatus for explosive gas 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 60079-14 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.

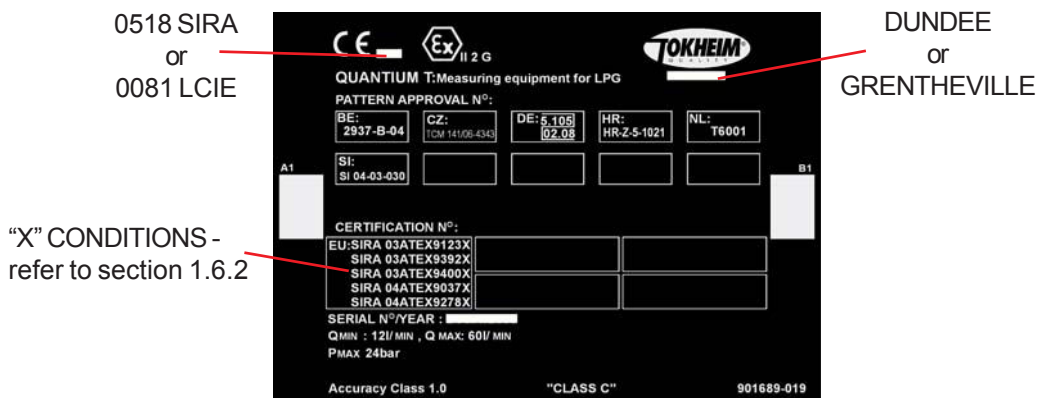
All components and protective systems used within the dispenser are suitable for explosion group IIA, temperature class T2 as defined in EN BS 60079-0.

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:-



1.6.2 SPECIAL CONDITIONS FOR SAFE USE

Certain models include Special Conditions for Safe Use which must be observed prior to putting the dispensers into operation. Failure to do so will invalidate the ATEX certification of the dispenser. These models can be identified by an X at the end of the certificate number as shown on the dispenser typeplate.

The Special Conditions for Safe Use are identified in the ATEX EC Type-Examination Certificates and are repeated below:-

- Where a dispenser is supplied without hoses and/or nozzles, they shall be fitted in accordance with:
 - Hoses: EN1762
 - Nozzles: EN13760 (Recommended Minimum Requirement)
- The remote pressure source supplying the dispenser must not exceed 25 bar. A vapour return path to the storage tank must be provided.

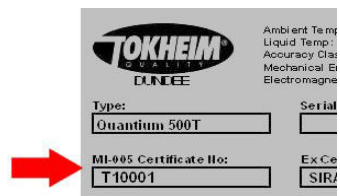
- The metering pumps and dispensers are designed for use in open air. Where a metering pump or dispenser is positioned within a building, incorporated into an enclosure, or integrated into a larger piece of equipment, additional measures shall be taken to ensure that the zoning diagrams illustrated in the schedule drawings are not compromised.

1.7 MID Dispensers

From mid 2007, Tokheim dispensers may be shipped from European factories in accordance with the Metrological Instruments Directive (MID). Such dispensers are calibrated and the relevant seals stamped in the factory so that the dispensers are fit for trade immediately upon installation without the need for a local Weights and Measures inspector to put them into use.

The dispenser is shipped with its own “MID datasheet” which documents the serial numbers of the prime components fitted in the dispenser. This datasheet must remain with the dispenser. Similarly dispensers are shipped with a Declaration of Conformance to the MID. This document must not be lost as it is an essential document to allow the continued use of the dispenser.

MID dispensers can be identified by the typeplate which contains a reference to the MID certificate number as shown:-



CHECKING THE SEALS

It is the responsibility of the Installer to check that all required seals are present and correct prior to putting the dispenser into use. This includes seals on the pumping unit, meter, pulser and calculator. **Under no circumstances must any seals be disturbed or broken during installation.**

METER CALIBRATION

A calibration check should be performed during Commissioning.

If a seal is damaged or missing, or if the calibration is outwith legal tolerances or in the unlikely event that any repair is required to a pumping unit, meter, pulser or calculator during installation, the factory MID verification is invalidated and a local National verification will need to be performed before the dispenser can be used.

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 2.1.1 LPG Springdrum Assembly 2-6

2.2 Q500T1 LPG Cladding Assembly 2-8

2.3 Q500T1 LPG Combo Cladding/Frame Assembly 2-14

2.4 LPG Hydraulic Chair/Cradle Assembly 2-16

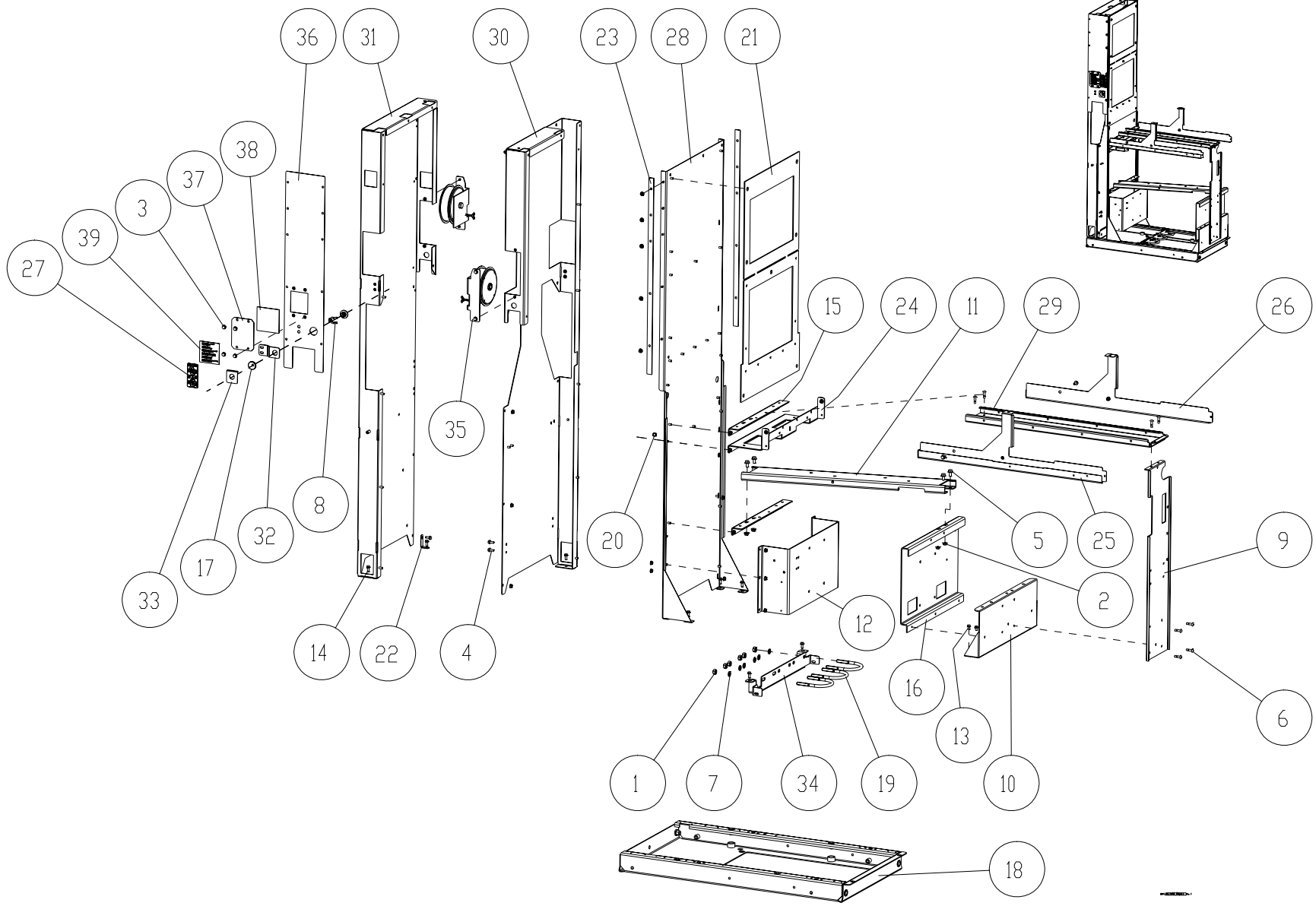
2.5 Lock Assembly 2-18

2.6 Emergency Stop/Deadman Button Assembly 2-20

2.7 Dead Man Button with Key Assembly (Optional) 2-22

Note : This section contains LPG parts only.

For Q500T1 parts please refer to the Q500T1 Parts Manual, Section 2.

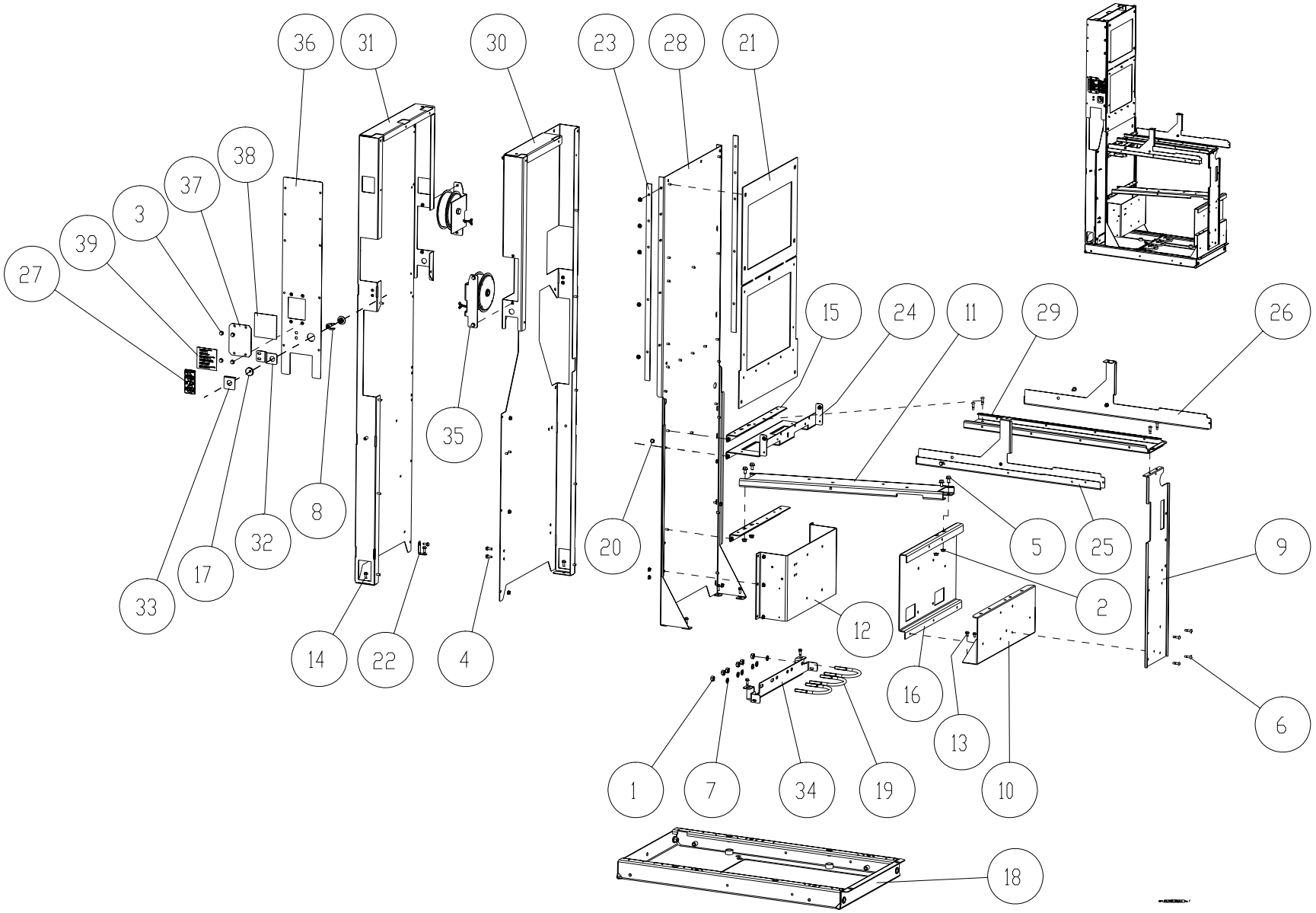


2 CLADDING & FRAMEWORK

2.1 Q500T1 LPG Frame Assembly

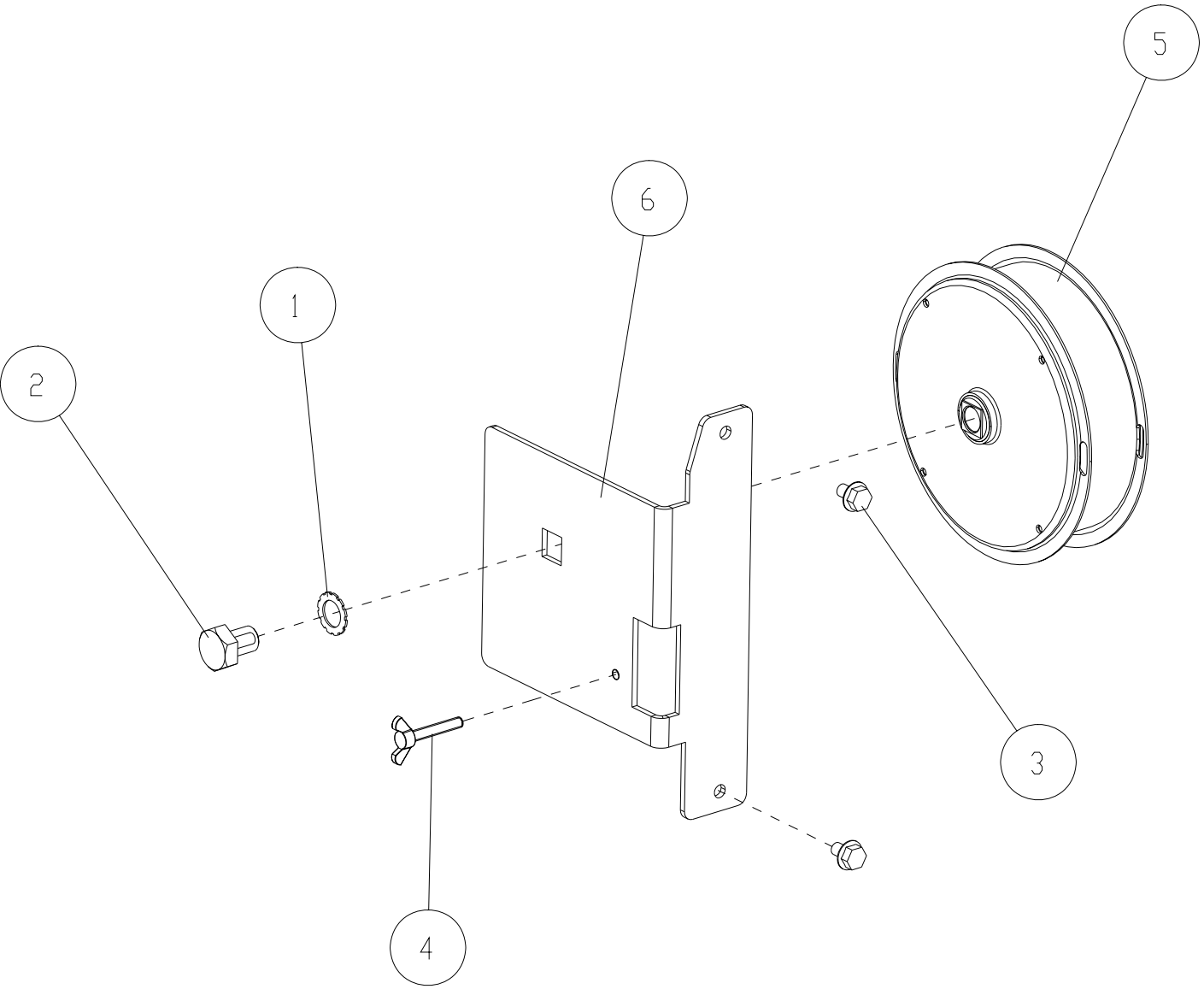
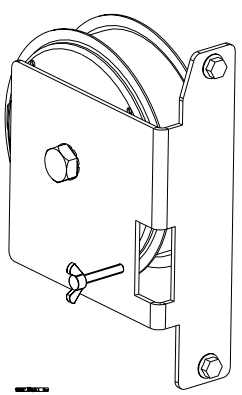
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex M10	Ecrou H M10	900011-004	
2	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
3	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
4	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
5	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
6	Rivet Blind Domed 6.5x24.8	Rivet Pop Bomb 6.5x24.8	900025-002	
7	Washer Spring Lock M10	Rondelle Elast. W 10	900051-004	
8	Horseshoe Clip	Horseshoe Fixation	900057	
9	Vertical Frame Hydr End	Chassis Vertic Extr Hydr	900369	
10	Pump Support End	Extr Support Pompe	900371	
11	Bracket Meter Support LPG	Traverse Support Mesureur GPL	900705	
12	Bkt Gas Sep Support HMS Side	Support dégazeur côté RDF	900707	
13	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
14	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
15	Bracket Hyd Support LPG HMS	Support Hydrauliqu GPL RDF	900750	
16	Bkt Gas Sep Support LPG	Support Dégazeur GPL	901134	
17	Outlet Cord	Guide Corde	901446	
18	Q500T Driptray LPG STD	Recuperation Egoutture LPG STD	902813	
19	U-Bolt 2"1/2	Collier 2"1/2	903160-003	
20	Snap Bush	Coussinet à Cliper	906230	
21	Gasket Single Head / F Barrier	Joint Elec Boite / F Barrier	906287	
22	Bracket End Column Support	Support Colonne de fin	906498	
23	Gasket HMS Vapour Cover	Joint couvercle pour HMS	906696	
24	Support Valvebox Assembly	Support Cage Soupape Assy	906741	
25	Rain Gutter RHS 2F Assy	Gouttiere Droite De Pluie 2F Assy	906749	

(Cont.)



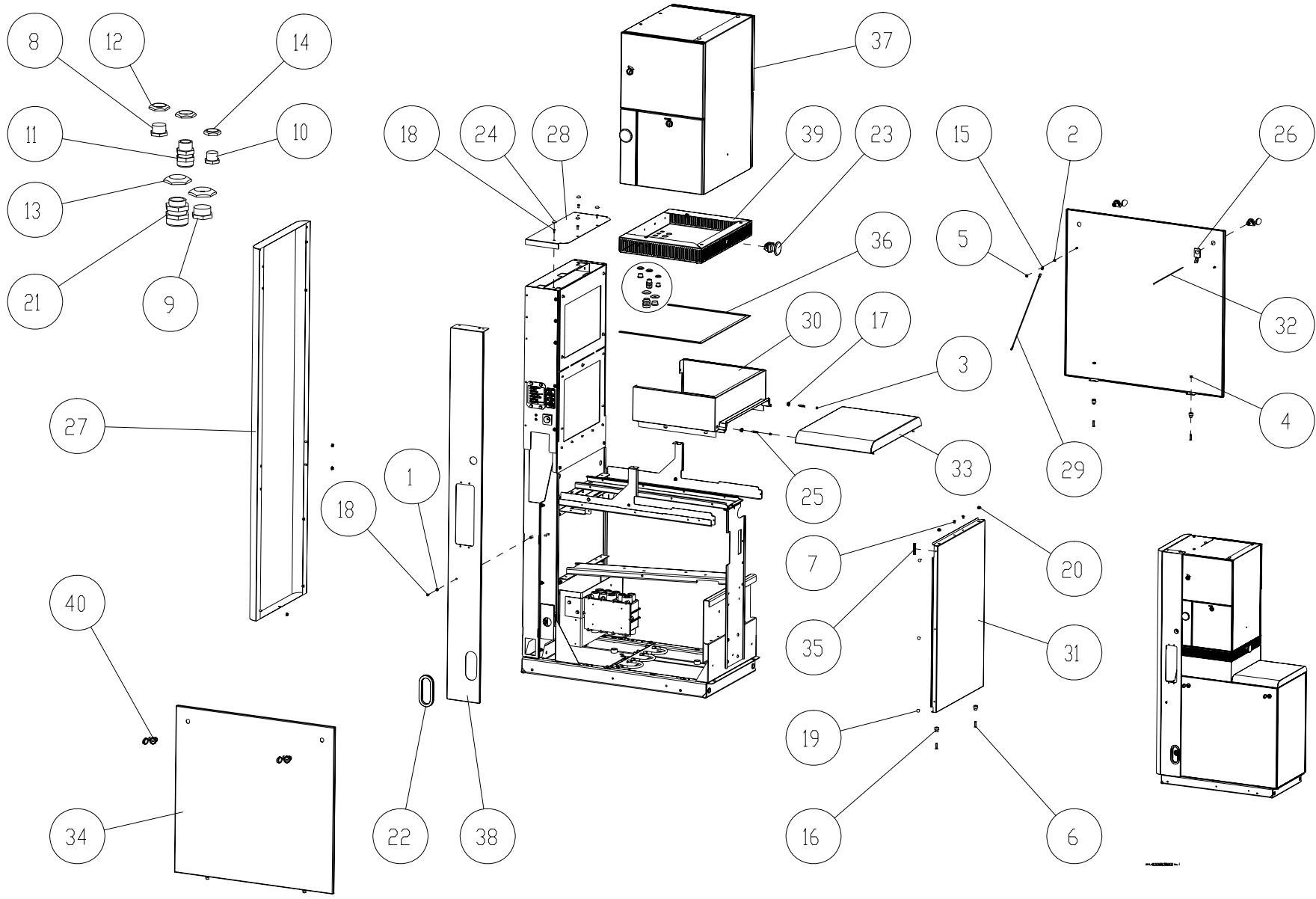
2.1 Q500T1 LPG Frame Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
26	Rain Gutter LHS 2F Assy	Gouttiere Gauche De Pluie 2F Assy	906754	
27	Sticker for Spring Drum	Adhésif pour Enrouleur	907738	
28	Fire Barrier Assy LPG	Ecran Feu Asm GPL	908393	
29	Frame Horiz Hydr LPG	Châssis Horiz Hydr GPL	908394	
30	HMS Frame Right Assy LPG	HMS Cadre Droit Asm GPL	908452	
31	HMS Frame Left Assy LPG	HMS Cadre Gauche Asm GPL	908454	
32	Bracket Outlet Cord	Support Guide Corde	909117	
33	Cover Retractor Outlet	Habillage Enrouleur	909118	
34	Bracket, LPG Shear Valve	Support GPL Raccord Cassant	909270	Shear Valve option only
35	Springdrum Assy LPG	Enrouleur GPL Asm	-	Refer to LPG Springdrum Assembly
36	HMS Vapour Cover LPG assy	Couvercle pour HMS GPL asm	940909	
37	Sheet HMS LPG	Plaque HMS GPL	940911	
38	Sealing of the HMS LPG	Joint plat du HMS GPL	940919	
39	Warning Sticker	Etiquette Adhesive - Attention -	941241	



2.1.1 LPG SPRINGDRUM ASSEMBLY

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M12	Rondelle a Dents DEC M12	900009-003	
2	Screw HH M12x16	Vis H M12x16	900015-007	
3	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
4	Wing Screw	Vis D Aile	904300	
5	Assy Springdrum	Enrouleur asm	906504	
6	Springdrum Bracket LPG	Support d'Enrouleur GPL	909677	

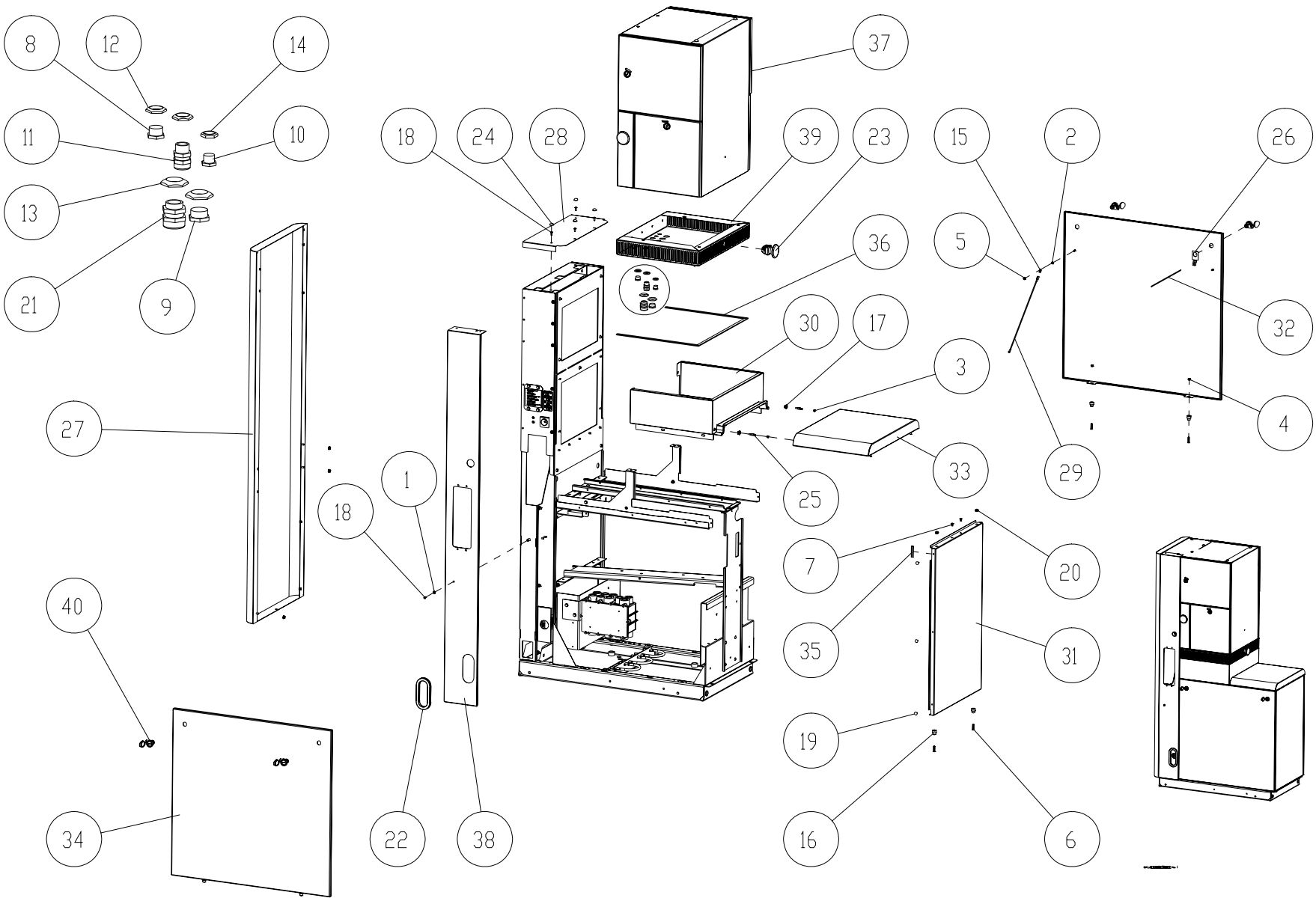


Issue A

2.2 Q500T1 LPG Cladding Assembly

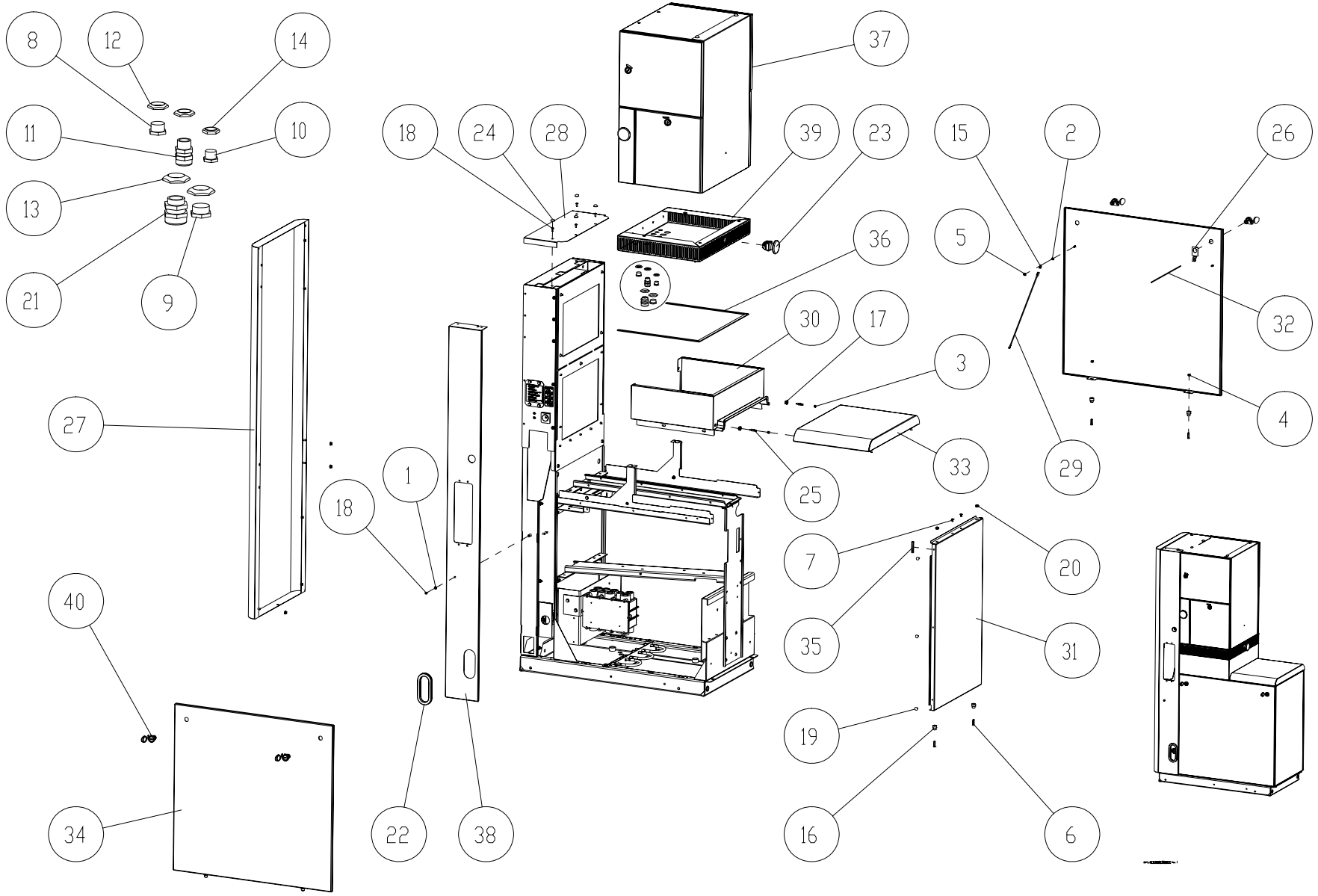
Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Washer Serr Lock Ext M5	Rondelle a Dents DEC M5	900009-005	
3	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
4	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
5	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
6	Screw SCS M6x25	Vis FS M6x25	900014-002	
7	Rivet Rokut	Rivet Expansion	900022-001	
8	Plug M20 x 1,5 EEXE/IP66	Bouchon PG M20 x 1,5 EEXE/IP66	900044-001	
9	Plug M25 x 1,5 EEXE/IP66	Bouchon PG M25 x 1,5 EEXE/IP66	900044-002	
10	Plug M16 x 1,5 EEXE/IP66	Bouchon PG M16 x 1,5 EEXE/IP66	900044-004	
11	Gland M20X1,5 Eexe II 8-13mm	PE M20X1,5 Eexe II 8-13mm	900064-001	
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	Ground Tag M5, 1/4" fast-on	Tag sol M5, 1/4" rapide	900353	
16	Adjustment Pin	Broche de Reglage	900403	
17	Bearing Vertical Roller	Palier de Rouleau Vertical	900505	
18	Screw HSB M5x12	Vis CBHC M5x12	900795-001	
19	Drive Fastener D5/13.5 T3 NA	Att à Pression D5/13.5 E3 NA	901058-001	
20	Skiffy Bushing	Passe-fils Skiffy	901937-003	
21	Gland M25X1,5 EExell/8-17mm	Gland M25X1,5 EExell/8-17mm	901990-001	
22	Hose Protector LPG Q500T	Protecteur Flexible	902174	
23	Emergency Stop Button Assy	Emergency Stop Button Assy	-	Refer to Emerg. Stop Button assy
24	Snap Cap White M6	Chapeau Vis Blanc M6	903192-001	
25	Adjustment Pin	Réglage Broche	903268	
26	Latch - Cord (lock)	Butee de Bequille (serrure)	903276	

(Cont.)



2.2 Q500T1 LPG Cladding Assembly (Cont.)

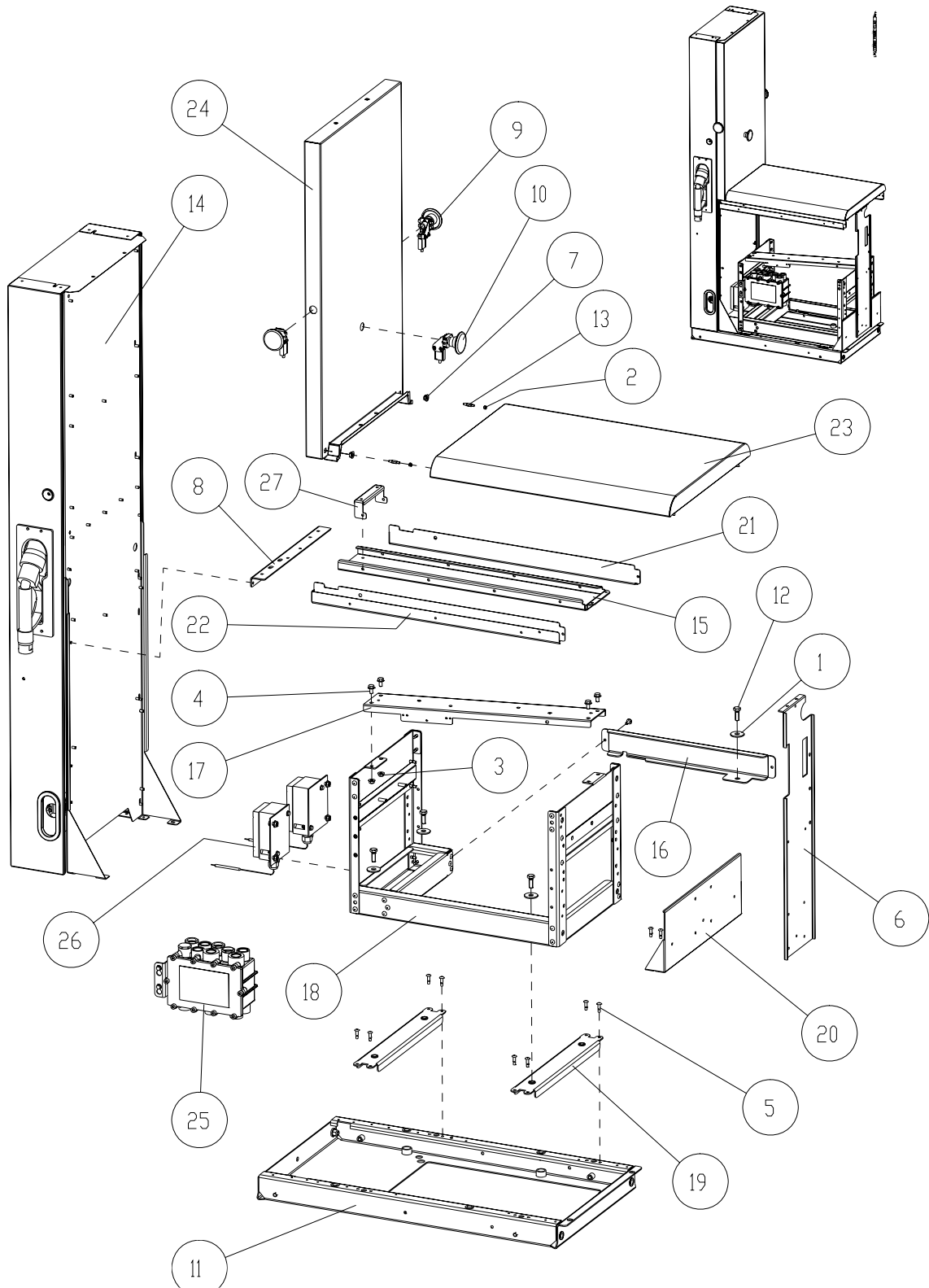
Item No	Description	Désignation Français	Part No	Comments
27	End Column Q500T1 Assy	Colonne de fin Q500T1 Assy	905852	Standard
	End Column Q500T1 Assy SS	Colonne de fin Q500T1 Assy SS	906778	Stainless Steel
	End Column Q500T1 Assy ACP	Colonne de fin Q500T1 Assy ACP	907068	Additional Corrosion Protection
28	HMS Roof Panel 1C	HMS Panneau de Toit 1C	905926	
29	Earth Cable for Hyd Door L=400	Câble Masse Porte Hyd L=400	905930-002	
30	VB Cladding Assembly	BV Revêtement Assemblee	906083	Standard
	VB Cladding Assembly SS	BV Revêtement Assemblee SS	906209	Stainless Steel
	VB Cladding Assembly ACP	BV Revêtement Assemblee ACP	907051	Additional Corrosion Protection
31	Hydraulic End Panel	Panel Fin Hydraulic	906119	Standard
	Hydraulic End Panel SS	Panel Fin Hydraulic SS	906207	Stainless Steel
	Hydraulic End Panel ACP	Panel Fin Hydraulic ACP	907050	Additional Corrosion Protection
32	Q400T Hyd Door Cord	Corde Hydraulique de Porte	906286-002	
33	Topplate 2 Frames Assembly	Plaque Sup 2 Chassis Assembly	906304	Standard
	Topplate 2 Frames Assembly SS	Plaque Sup 2 Chassis Assembly SS	906342	Stainless Steel
	Topplate 2 Frames Assembly ACP	Plaque Sup 2 Chassis Assembly ACP	907040	Additional Corrosion Protection
34	Hydraulic Door 2F Assembly	Porte Hydraulique 2F Assy	907347	Standard
	Hydraulic Door 2F Assembly SS	Porte Hydraulique 2F Assy SS	907351	Stainless Steel
	Hydraulic Door 2F Assembly ACP	Porte Hydraulique 2F Assy ACP	907355	Additional Corrosion Protection
35	Gasket Hyd End Panel	Garniture Panel Fin Hydraulic	907467	
36	Seal Assembly VB Cladding	Revetement De Assy De Joint VB	907742	
37	Calculator Head Assembly	Calculator Head Assembly	-	Refer to Calculator Head assembly



Issue A

2.2 Q500T1 LPG Cladding Assembly (Cont.)

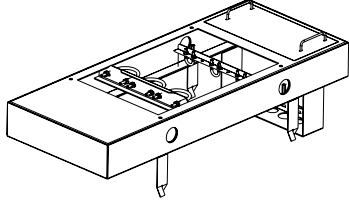
Item No	Description	Désignation Français	Part No	Comments
38	Elaflex Nozzle Panel (New Version)	Pann. Hab. Elaflex	908420	Standard
	Elaflex Nozzle Panel SS	Pann. Hab. Elaflex SS	908421	Stainless Steel
	Elaflex Nozzle Panel ACP	Pann. Hab. Elaflex ACP	908422	Additional Corrosion Protection
	Butagaz Nozzle Panel	Pann. Hab. Butagaz	908423	Standard
	Butagaz Nozzle Panel SS	Pann. Hab. Butagaz SS	908424	Stainless Steel
	Butagaz Nozzle Panel ACP	Pann. Hab. Butagaz ACP	908425	Additional Corrosion Protection
	Nettuno Nozzle Panel	Pann. Hab. Nettuno	908426	Standard
	Nettuno Nozzle Panel SS	Pann. Hab. Nettuno SS	908427	Stainless Steel
	Nettuno Nozzle Panel ACP	Pann. Hab. Nettuno ACP	908428	Additional Corrosion Protection
	LG30 Nozzle Panel	Pann. Hab. LG30	908429	Standard
	LG30 Nozzle Panel SS	Pann. Hab. LG30 SS	908430	Stainless Steel
	LG30 Nozzle Panel ACP	Pann. Hab. LG30 ACP	908431	Additional Corrosion Protection
	Fender Nozzle Panel	Pann. Hab. Fender	908432	Standard
	Fender Nozzle Panel SS	Pann. Hab. Fender SS	908433	Stainless Steel
	Fender Nozzle Panel ACP	Pann. Hab. Fender ACP	908434	Additional Corrosion Protection
	Blind Nozzle Panel	Pann. Hab. Aveugle	908435	Standard
	Blind Nozzle Panel SS	Pann. Hab. Aveugle SS	908436	Stainless Steel
Blind Nozzle Panel ACP	Pann. Hab. Aveugle ACP	908437	Additional Corrosion Protection	
39	Air Gap Assy EM Stop SS	Air Gap Asm EM Stop SS	908990	Stainless Steel
	Air Gap Assy EM Stop ACP	Air Gap Asm EM Stop ACP	908992	Additional Corrosion Protection
40	Lock Assy	Serrure Assy	-	Refer to Lock assembly



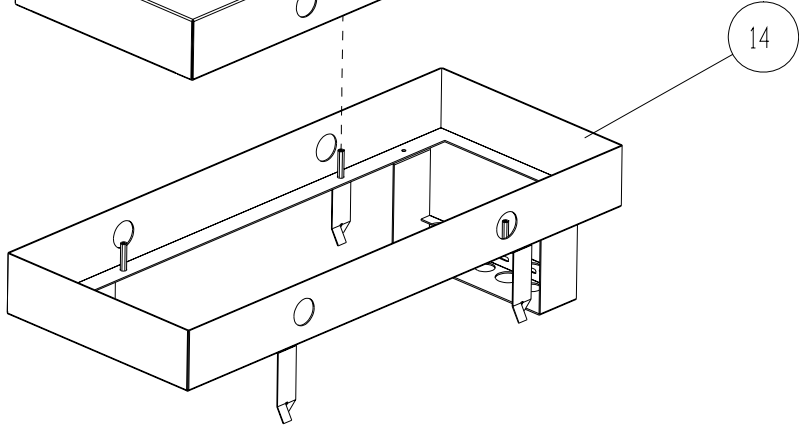
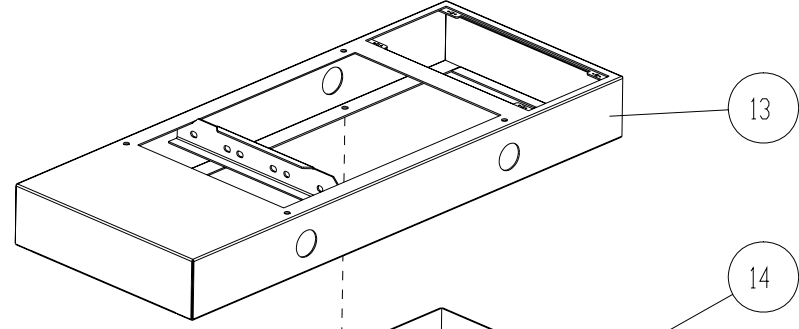
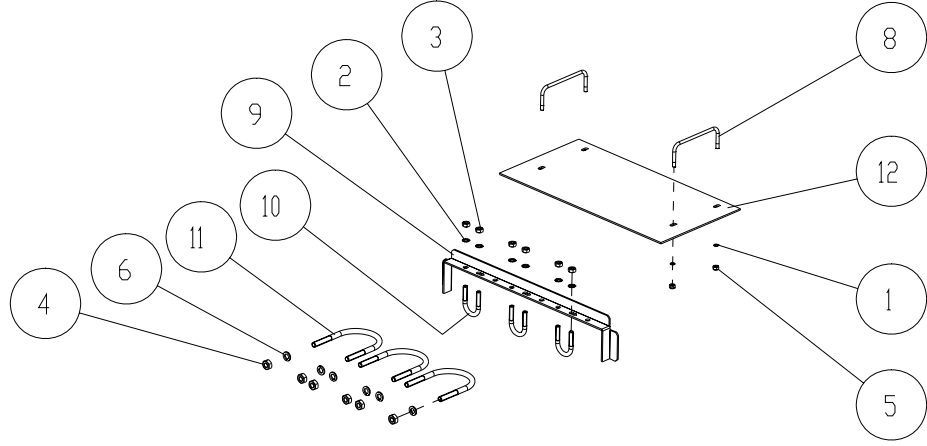
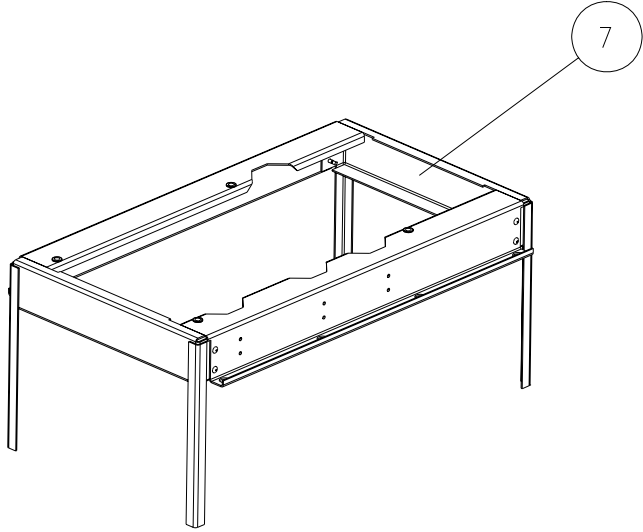
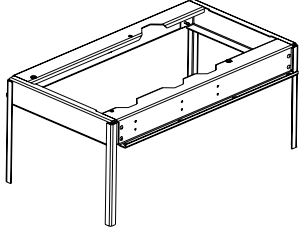
2.3 Q500T1 LPG Combo Cladding/Frame Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer 13*37*3	Rondelle 13*37*3	900008-024	
2	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
3	Nut Hex Self Lock M8	Ecrou Bride Autobloquant ...	900013-004	
4	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
5	Rivet Blind Domed 6.5x24....	Rivet Pop Bomb 6.5x24.8	900025-002	
6	Vertical Frame Hydr End	Chassis Vertic Extr Hydr	900369	
7	Bearing Vertical Roller	Palier de Rouleau Vertical	900505	
8	Bracket Hyd Support LPG H...	Support Hydrauliqu GPL RD...	900750	
9	Button - Dead Man	Bouton H-M Asm	-	Refer to Button Assembly
10	Button - Emergency Stop	Bouton A-U Asm	-	Refer to Button Assembly
11	Q500T Driptray LPG STD	Récupération égoutture LPG	902813	
12	Screw - Safety Shear	Vis de Securite	902906	
13	Adjustment Pin	Réglage Broche	903268	
14	Q500T1 LPG HMS Assy	Q500T1 GPL HMS Asm	-	Refer to separate drawing
15	Frame Horiz Hydr LPG	Châssis Horiz Hydr GPL	908394	
16	Accessability Bracket	Traverse d'Accès	942962	
17	Bracket - Meter	Support Mesureurs	942969	
18	Mini Chassis Combo	Mini Chassis Combo	942971	
19	Mini chassis - Bracket Assy	Support Mini Chassis Asm	942973	
20	Pump Support End	Support d'Extrémité de Chassi	942974	
21	Rain Gutter LHS 2F	Gouttière Droite	942975	
22	Rain Gutter RHS 2F	Gouttière Gauche	942976	
23	Top Hydr. Cover Sst w/stud	Dessus Hydr. Inox avec Goujo	942979	Stainless Steel
	Top Hydr. Cover Painted w/stu	Dessus Hydr. Peint avec Gouje	942987	Painted
	Top Hydr. Cover ACP w/stud	Dessus Hydr. ACP avec Goujd	944719	ACP
24	Column Cladding Sst Welded	Hab de Colonne Inox Soude	942993	Stainless Steel
	Column Cladding Welded	Hab de Colonne Soude	942994	
	Column Cladding ACP Welded	Hab de Colonne ACP Soude	942995	ACP
25	Junction box - Bracket Assy	Support Boite de Jonction...	-	Refer to J.Box assembly
26	Fire Detection Assy	Ensemble Détection de Feu	-	Refer to Fire Det. assy
27	Bracket Cladding Column	Support Habillage Colonne	943084	

Cradle with LPG Chair Option

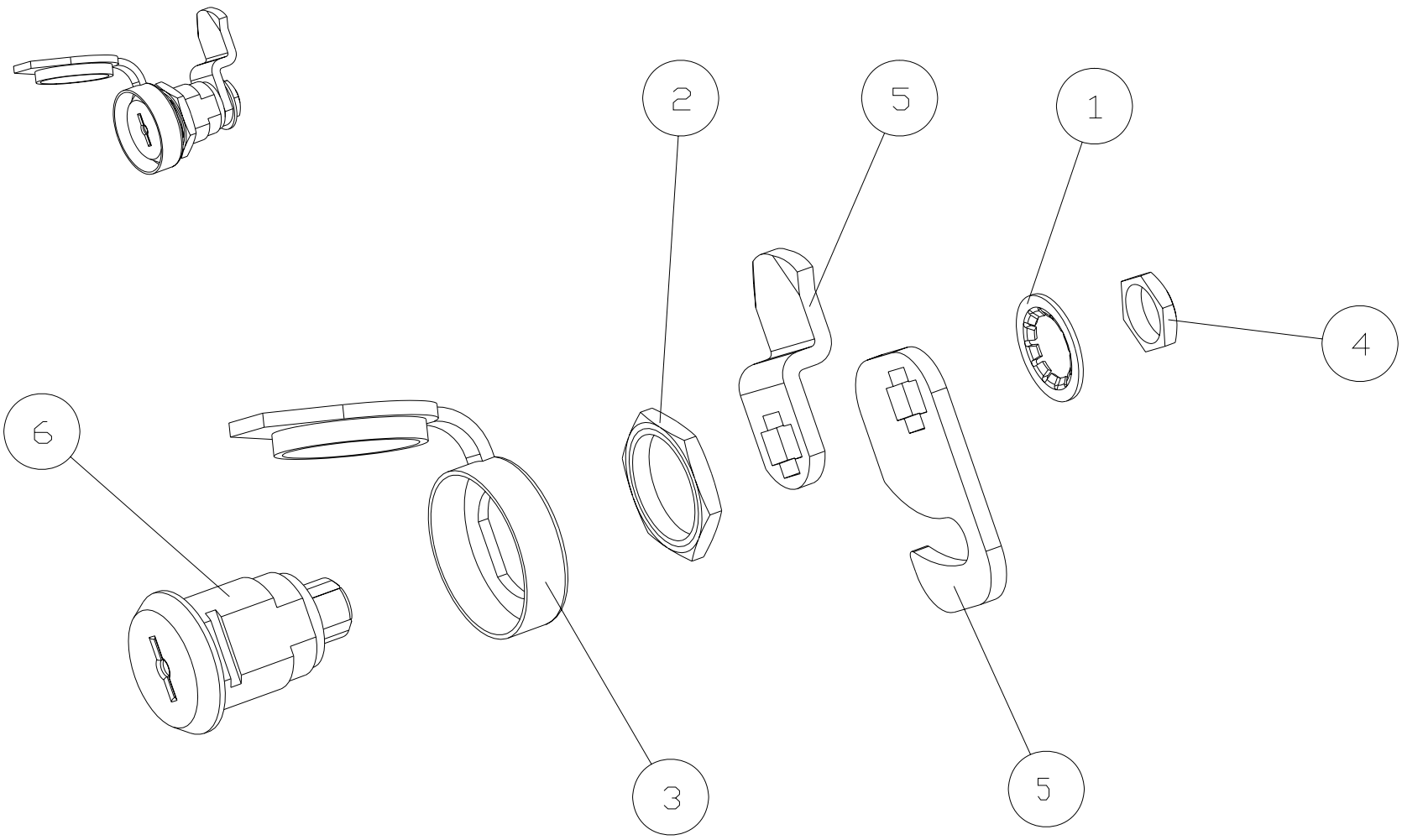


Cradle without LPG Chair Option



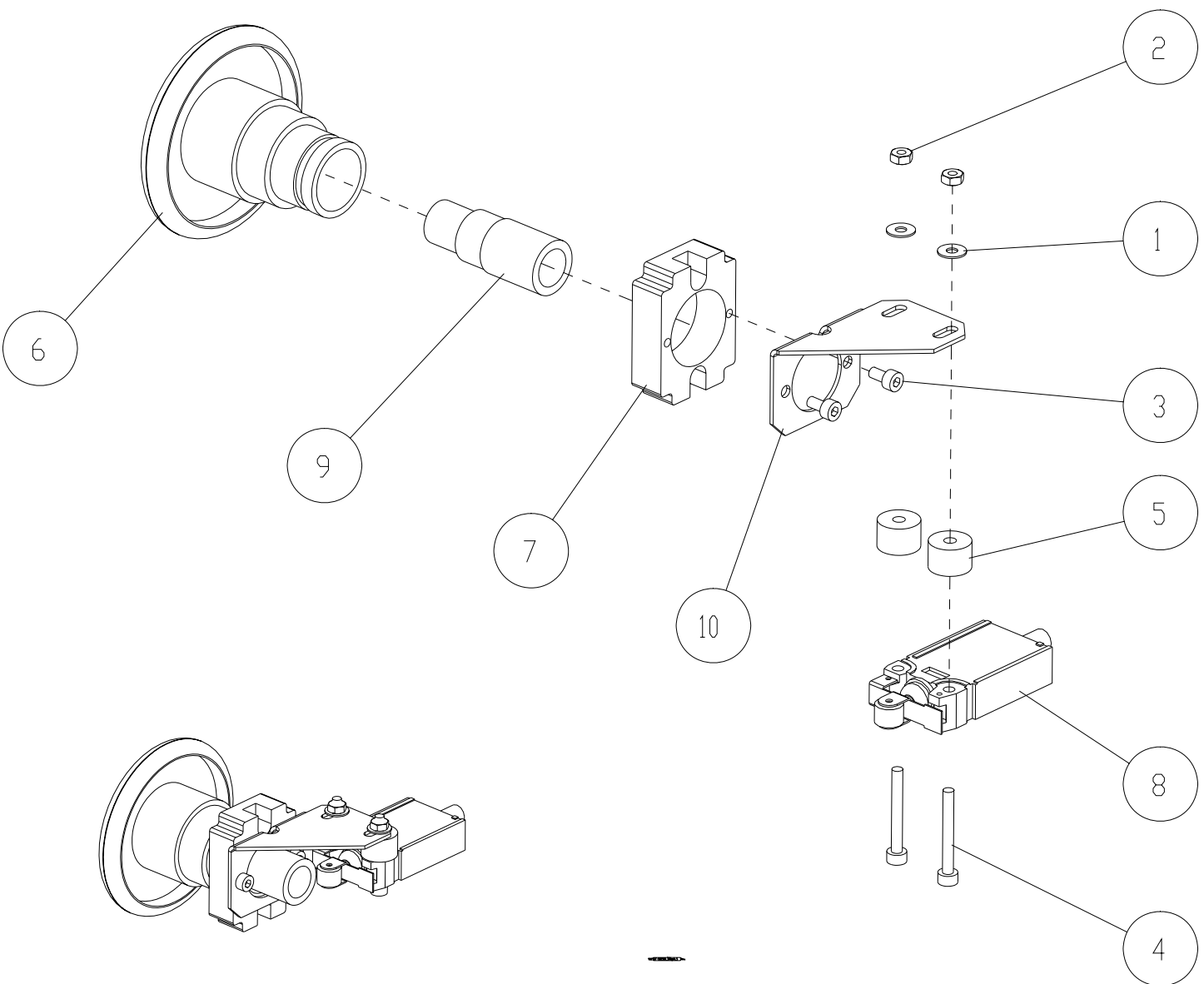
2.4 LPG Hydraulic Chair/Cradle Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI 6 (Shim)	Rondelle PI 6 (Shim)	900008-012	
2	Washer Serr Lock Ext M8	Rondelle a Dents DEC M8	900009-002	
3	Nut Hex M8	Ecrou H M8	900011-003	
4	Nut Hex M10	Ecrou H M10	900011-004	
5	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-008	
6	Washer Spring Lock M10	Rondelle Elast. W 10	900051-004	
7	Ground Frame (2F1C)	Cadre (2F1C)	901110	
8	Handle Chair QT LPG	Poignee De Trappe	901182	
9	Support - connection pipes	Traverse maintien tuyauteries	903159	
10	U-Bolt 3/4"	Collier 3/4"	903160-001	
11	U-Bolt 2"1/2	Collier 2"1/2	903160-003	
12	Weld Assy Chair Entrance	Trappe d'accès chaise soudée	906452	
13	Weld Assy Chair - Q300T LPG France LPG Chair Welded	Chaise Q300T GPL France soudée Chaise Combo GPL Soudee	906456 943078	Combo Model Only
14	Cradle Q300T LPG welded France LPG Cradle Combo Chair Welded	Cadre Q300T GPL soudé France Cadre GPL Chaise Combo Soude	906458 943080	Combo Model Only



2.5 Lock Assembly

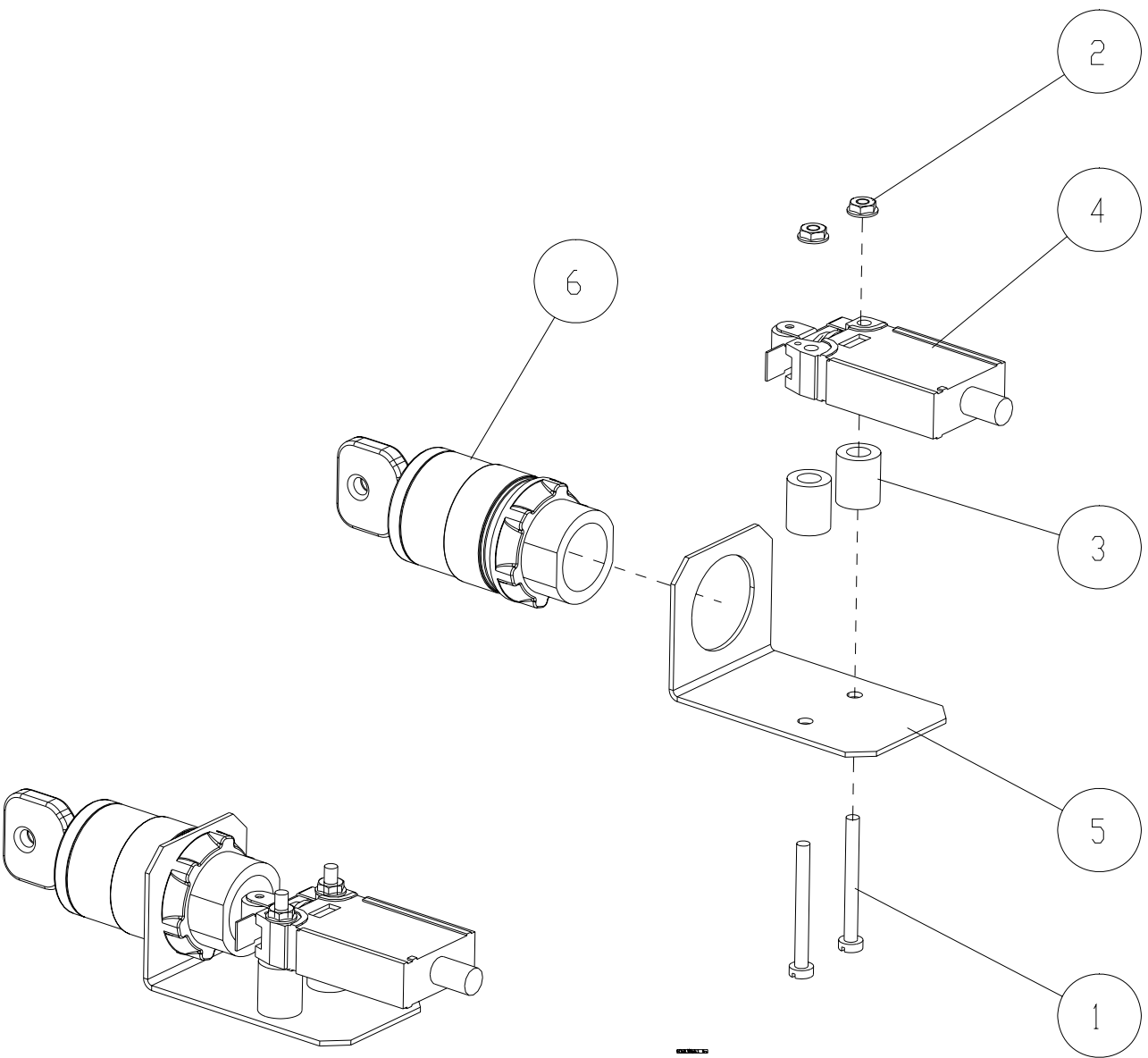
Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Int M10	Rondelle a Dents DIC M10	900021-001	
2	Nut Hex 3/4 - 24 UNS	Ecrou Hex 3/4 - 24 UNS	900041-001	
3	Cap SOUTHCO 90-2 (Cover)	Bouchon SOUTHCO 90-2 (Chapeau)	900042	
4	Nut Hex M10 x 1.00 For Lock	Ecrou M10 x 1.00 Pour Serrures	900043-001	
5	Cam - Lock	Came de serrure	900181	Q100T&200T WWC Calc Head; Q300T/Q300T1 Dispenser; Q400T Calc Doors
	Lock Cam Calc Door	Came de serrure porte calc	900985	Q500T&500T1 Calc Head; Q100T Cecli2 Head
	Lock Cam DIT Door	Came de serrure porte DIT	900986	Q500T&500T1 DIT & Vidium Doors; Q100T&200T Hydraulic Doors; Q400T DIT & Hydraulic doors; AdB dispensers; Q410 dispensers
	Lock Cam Top Cover	Came de serrure top	900978	Q500T Hydraulic top cover only
	Lock Cam Hydr Door	Came de serrure porte hydr	907495	Q500T1 Hydrualic door only
6	Lock	Serrure	900389	



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2.6 Emergency Stop/Deadman 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	Button Push Green Button Push Red	Bouton Poussoir Vert Bouton Poussoir Rouge	902501-001 902501-002	Dead Mans Button 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	



2.7 Dead Man Button with Key Assembly (Optional)

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x30	Vis CS M3x30	900007-015	
2	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
3	Spacer 5.5x10x12	Entretoise Cyl 5.5x10x12	900024-008	
4	Microswitch	Microrupteur Inverseur	902503-001	
5	DM Button with Key - Bracket	Support Bouton HM à Clé	943477	
6	Dead Man Button with Key	Bouton Homme Mort à Clé	943478	

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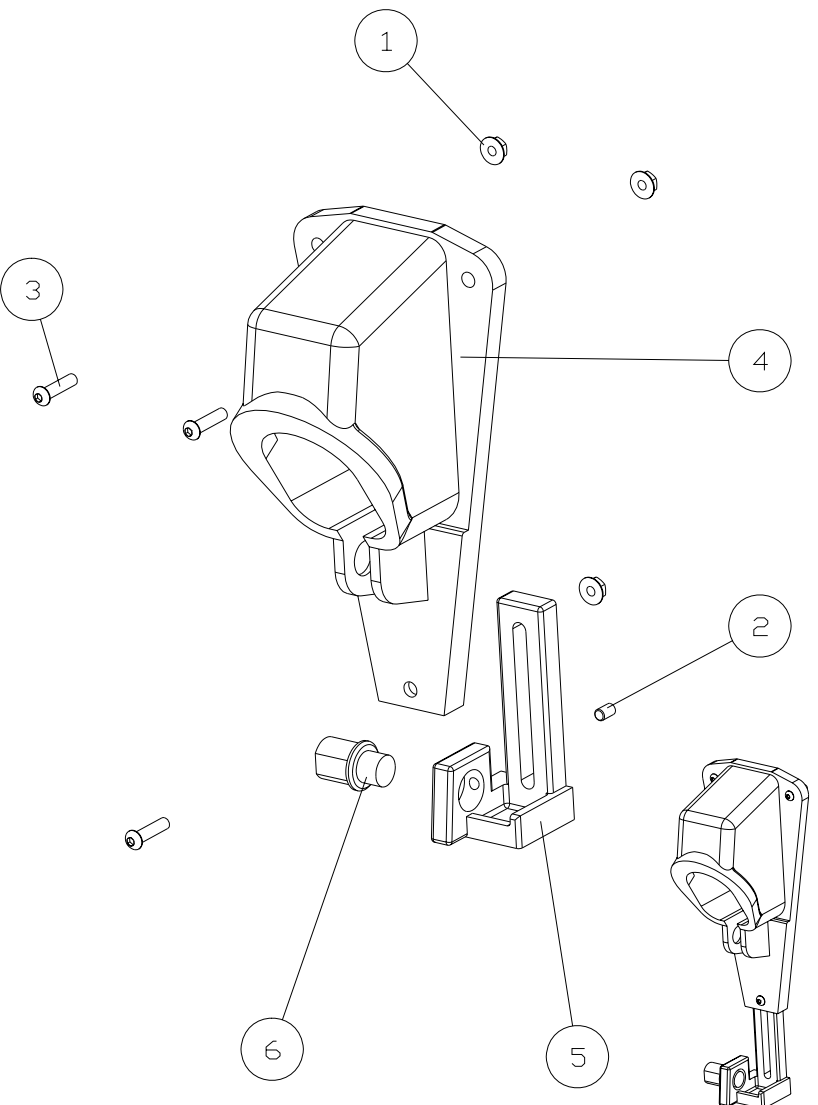
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- 3.2 Nozzle Boot Assembly - Butagaz 3-4
- 3.3 Nozzle Boot Assembly - Nettuno 3-6
- 3.4 Nozzle Boot Assembly - LG30 3-8
- 3.5 Hose to Nozzle Assembly 3-10

Note : This section contains LPG parts only.

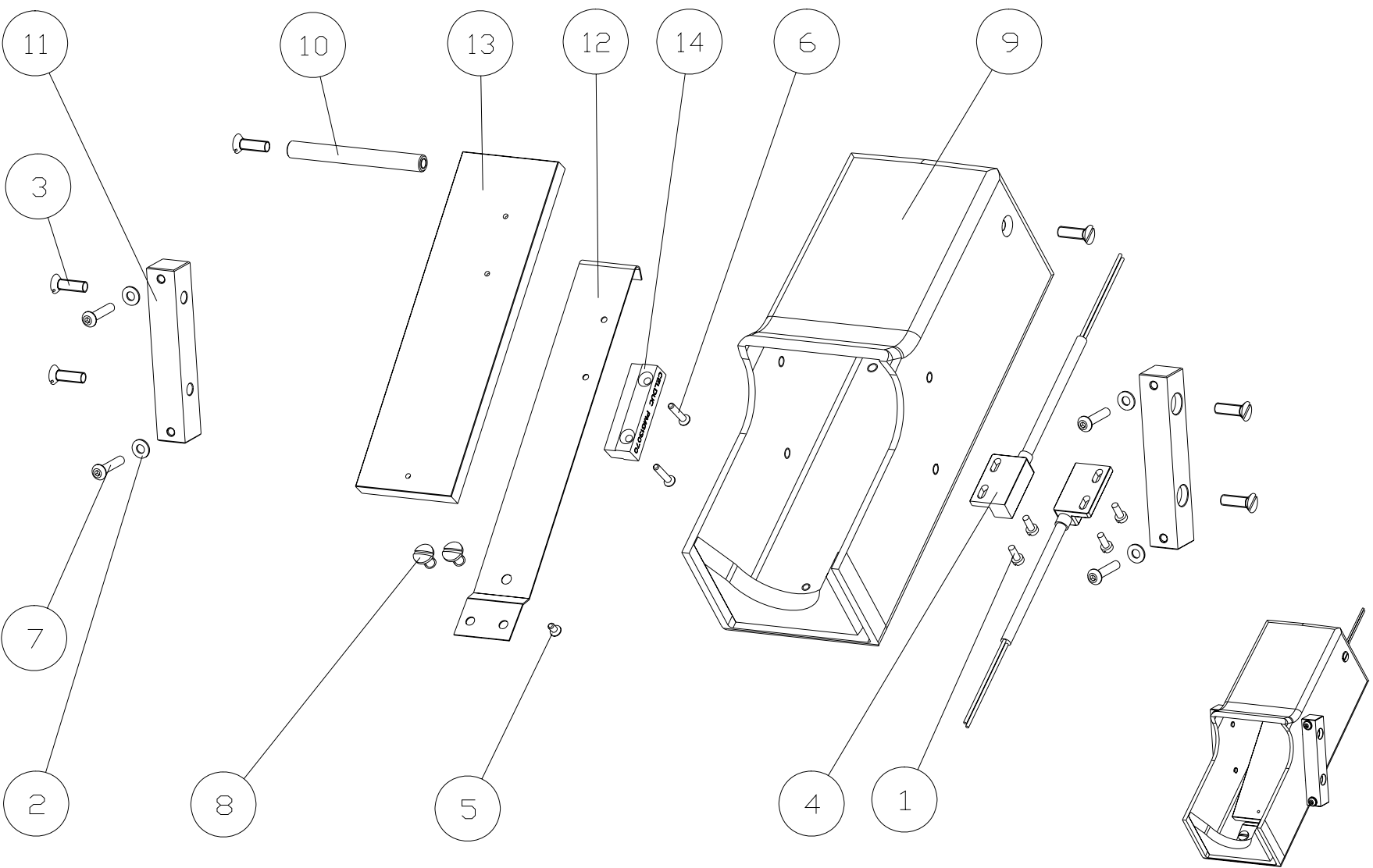
For Q500T1 parts please refer to the Q500T1 Parts Manual, Section 3.



3 HOSES & NOZZLES

3.1 Nozzle Boot Assembly - Elaflex

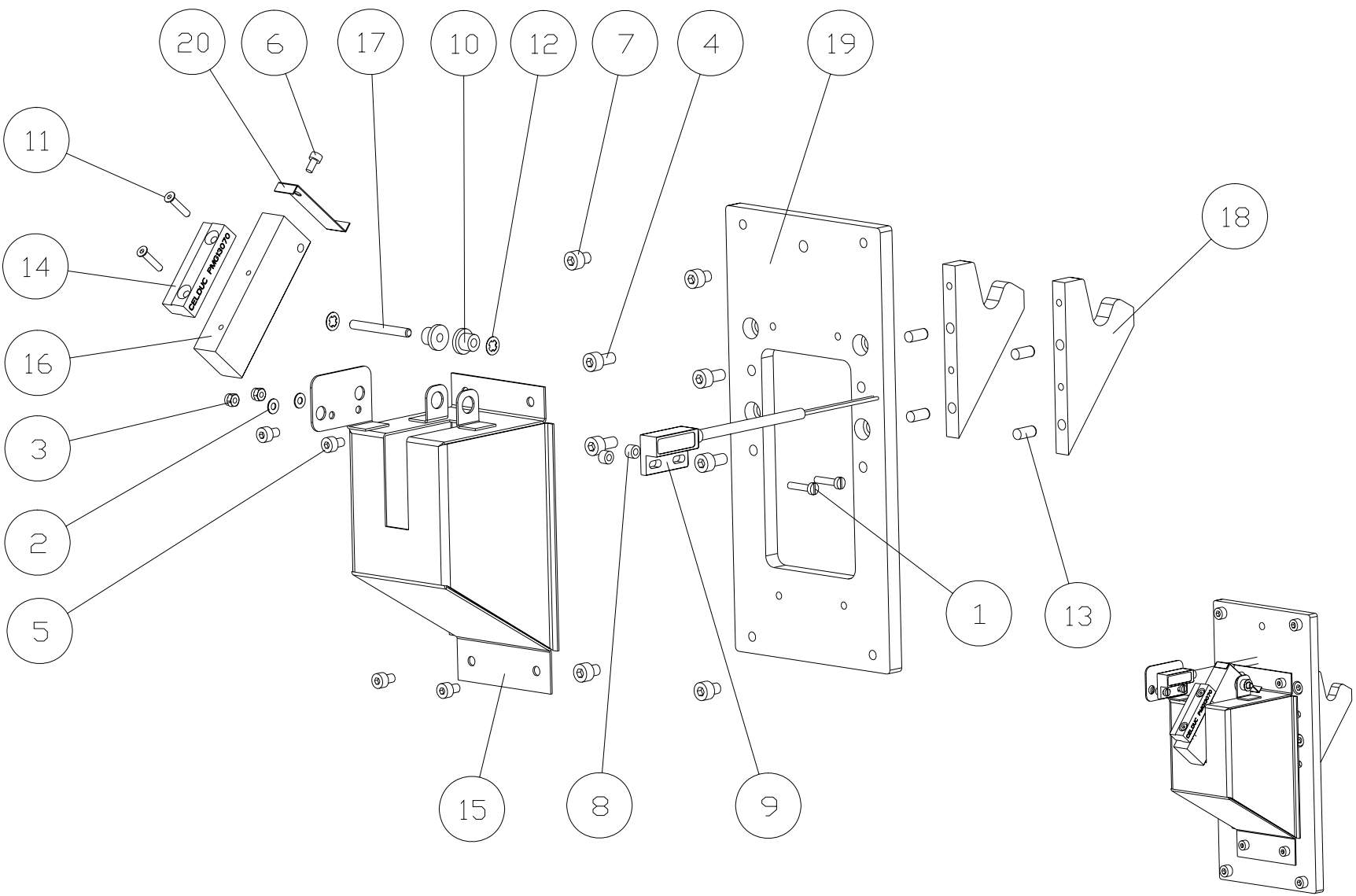
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
3	Screw HSB M6x25	Vis M6x25	900795-003	
4	Nozzle Holder LPG Upper	Support Buse GPL	902179	
5	Nozzle Holder Lower Ela	Support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



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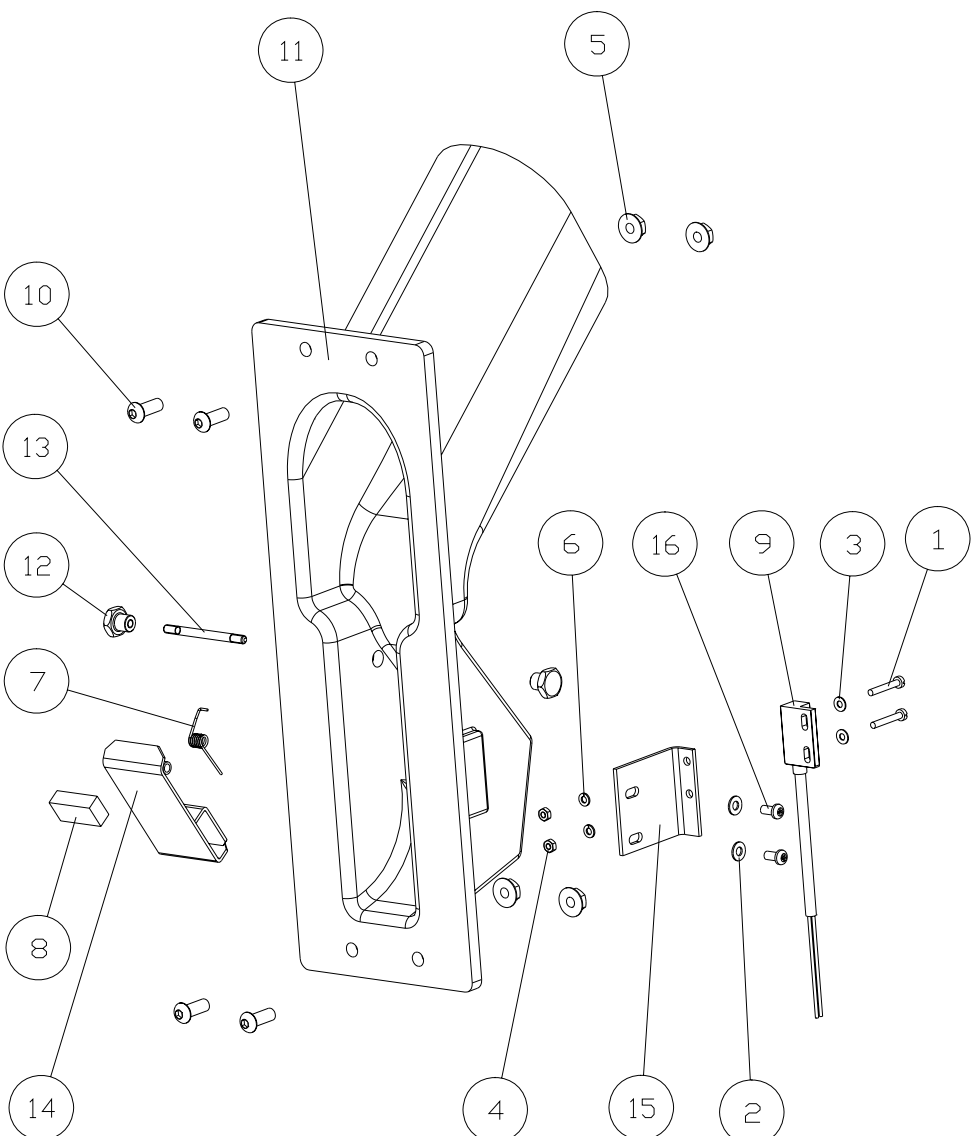
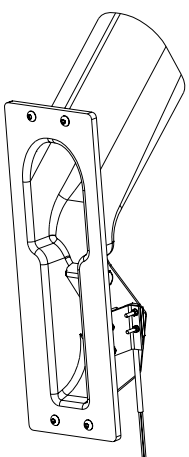
3.2 Nozzle Boot Assembly - Butagaz

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 magnetiq 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

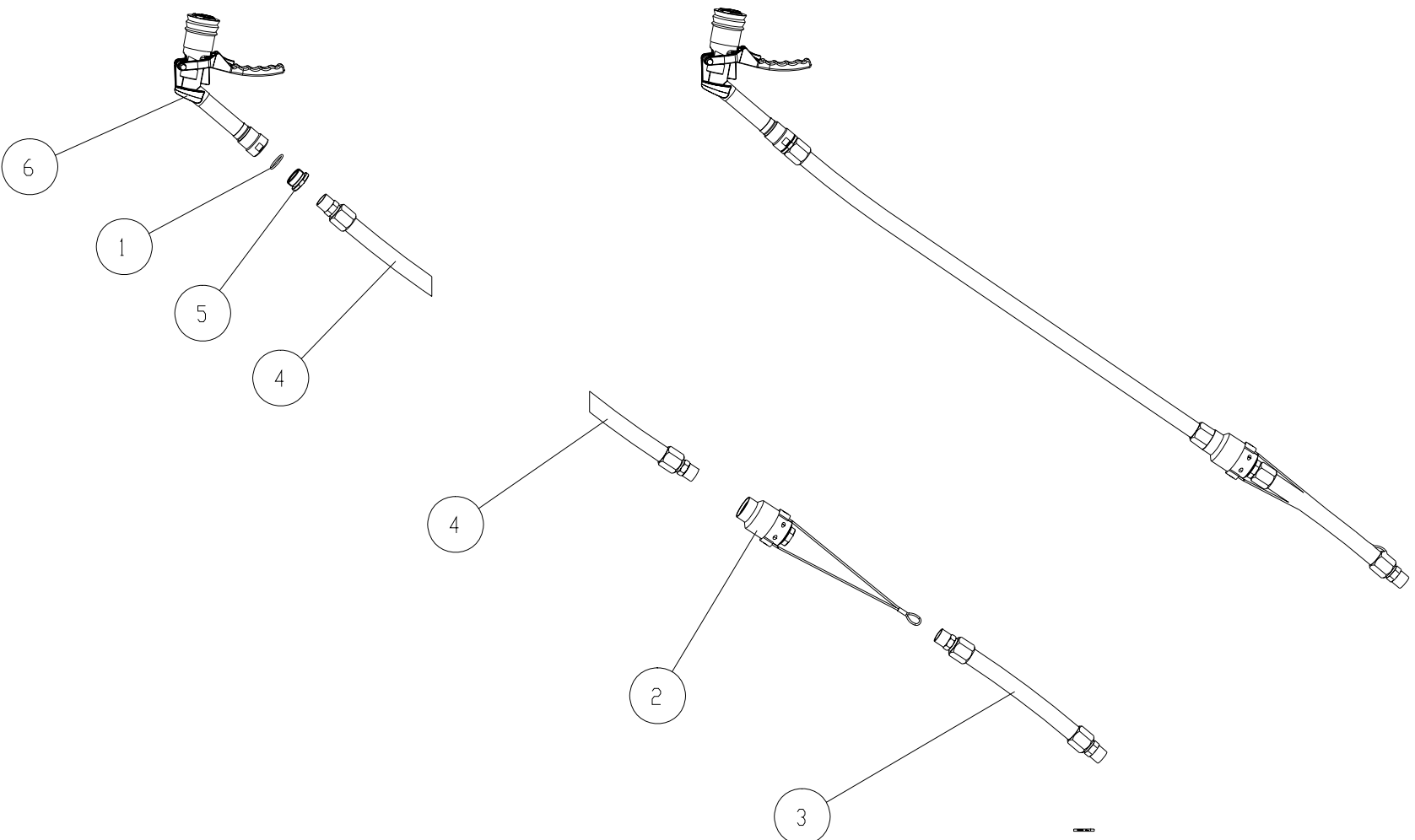
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x14	Vis CS M3x14	900007-012	
2	Washer PI M3	Rondelle PI M3	900008-010	
3	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
4	Screw HSHC M5x10	Vis CHC M5x10	900017-013	
5	Screw HSHC M4x6	Vis CHC M4x6	900017-015	
6	Screw HSHC M3x6	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 magnetiq.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	



Issue A

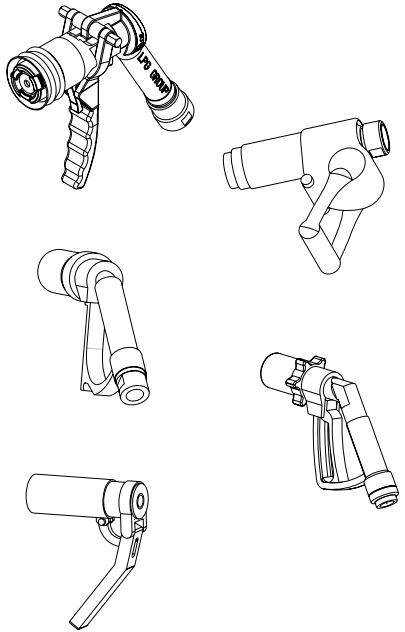
3.4 Nozzle Boot Assembly - LG30

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 magnetiq.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	



Issue A

3.5 Hose to Nozzle Assembly

Item No	Description	Désignation Français	Part No	Comments
1	O-Ring 28 x 3	Joint Torique 28 x 3	900050-057	With Nozzle LPG Group only
2	Coupling break ELAFLAX Coupling Break BATCHEN Break Coupling STAUBLI 200N Break Coupling STAUBLI 280N	Accouplement securite ELA... Accouplement de coupure GPL BATCHEN Raccord déboitable STAUBLI 200N Raccord déboitable STAUBLI 280N	902517-001 904169-001 906424-001 906424-002	
3	Flex LPG 0.5m M/M 3/4" NPT Flex LPG 0.5m M/M 3/4" NPT LT Flex LPG 0.5m M/M 3/4" NPT LT	Flex GPL 0.5m M/M 3/4" NPT Flex GPL 0.5m M/M 3/4" NPT LT Flex GPL 0.5m M/M 3/4" NPT LT	904128-001 904128-011 904128-023	UK only France only
4	Flex LPG 3.6m M/M 3/4" NPT Flex LPG 3.6m M/M 3/4" NPT LT Flex LPG 3.6m M/M 3/4" NPT LT	Flex GPL 3.6m M/M 3/4" NPT Flex GPL 3.6m M/M 3/4" NPT LT Flex GPL 3.6m M/M 3/4" NPT LT	904128-002 904128-012 904128-024	UK only France only
5	Adaptor M 1'BSP/F 3/4"NPT	Adaptateur M 1'BSP/F 3/4...	944317	With Nozzle LPG Group only
6	Nozzle - LPG Group type 100 Nozzle - LPG Butagaz Nozzle LG30 LPG 3/4 Nozzle Elaflex LPG 3/4" NPT Nozzle Boosekoop LPG 3/4	Buse GPL Group type 100 Buse GPL Butagaz Nozzle LG30 LPG 3/4 Buse Elaflex GPL 3/4" NPT Buse Boosekoop GPL 3/4	945542-001 902048-001 901235-001 901445-001 901447-001	

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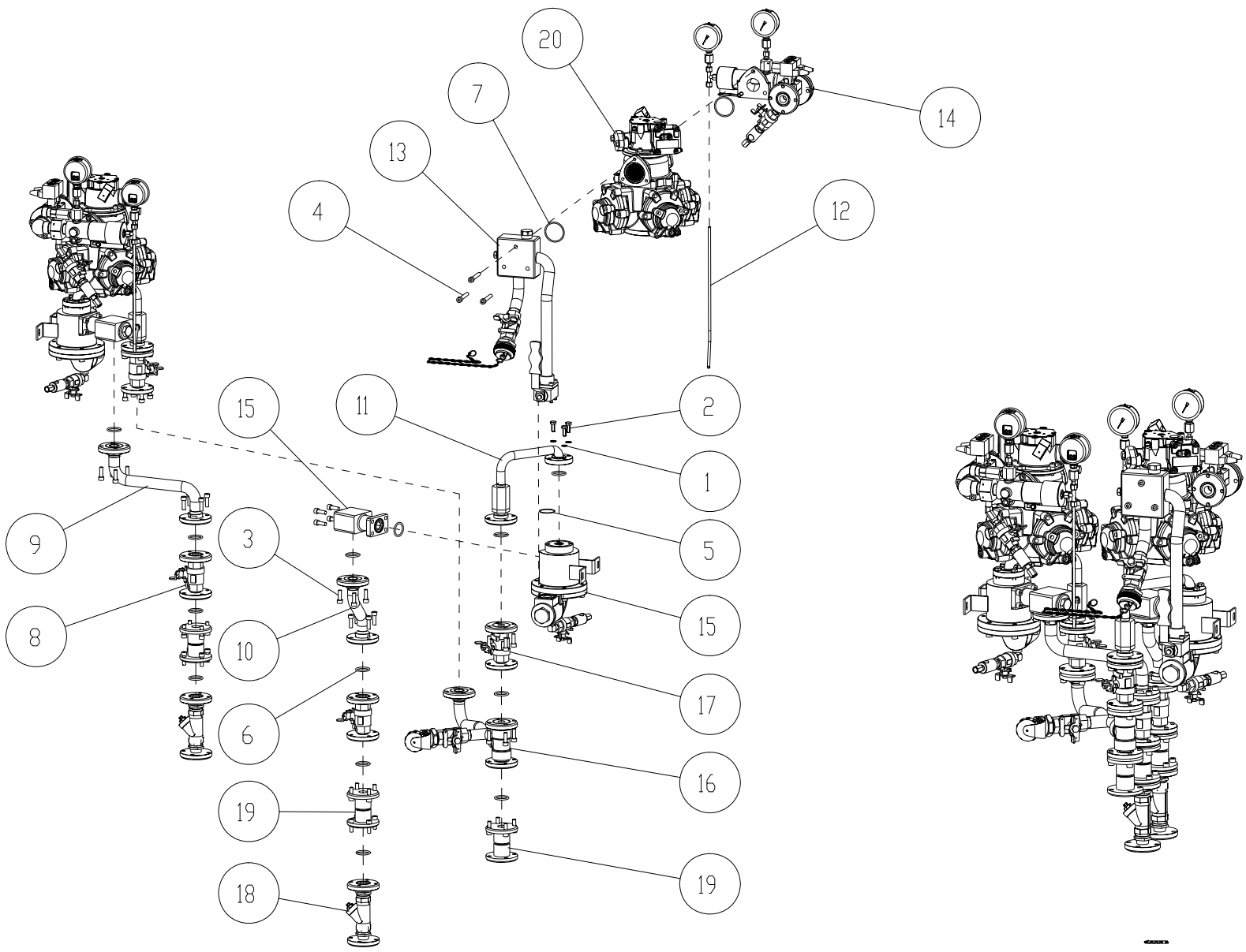
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Note : This section contains LPG parts only.

For Q500T1 parts please refer to the Q500T1 Parts Manual, Section 4.



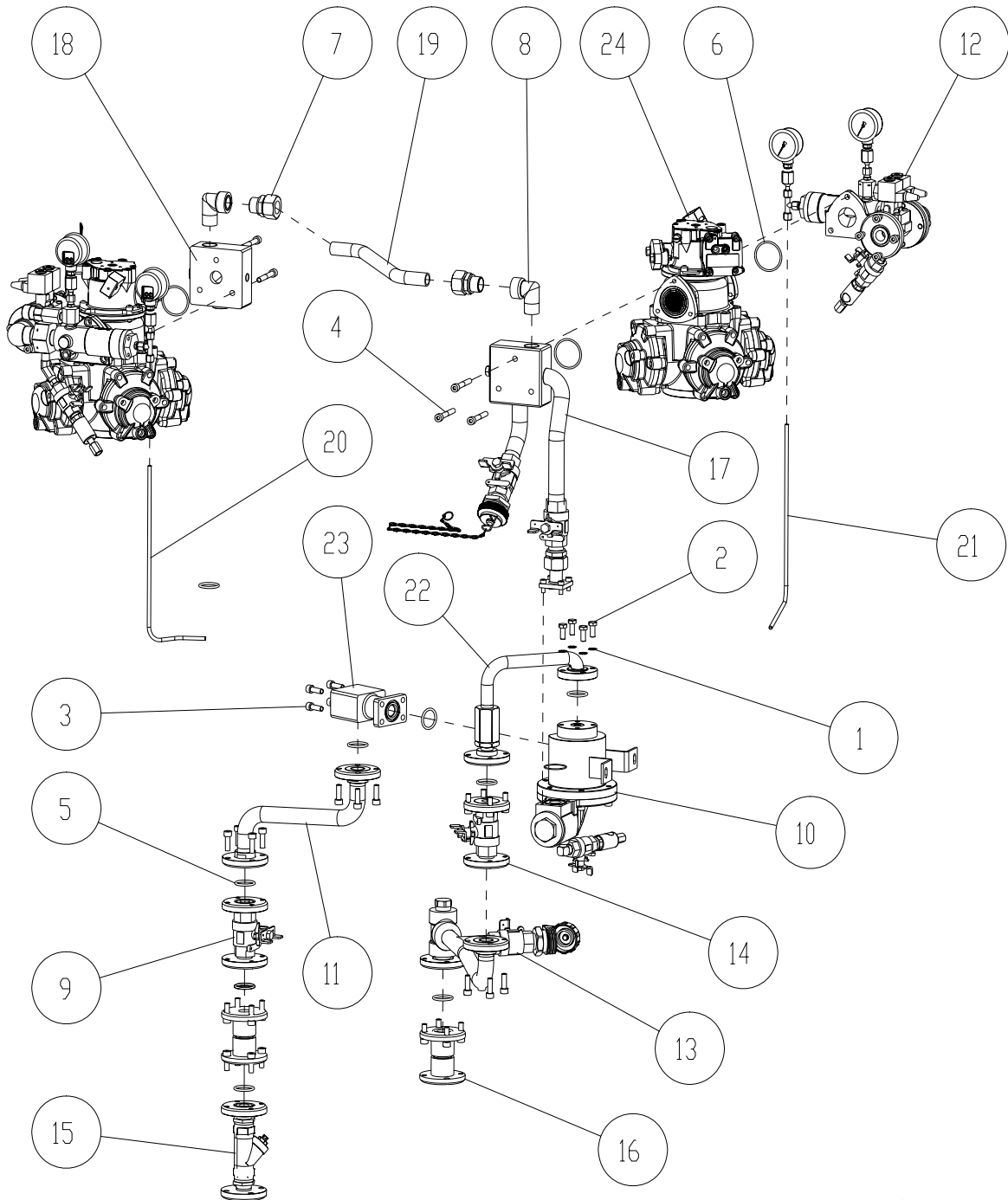
Issue A

4 DISPENSER LPG HYDRAULICS

4.1 Q500T1 LPG Hydraulic Stack Assembly

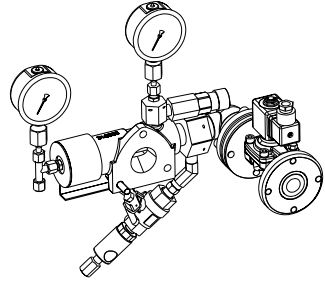
4.1.1 STANDARD DISPENSER STACK ASSEMBLY (BEFORE SEPTEMBER 2008)

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M8	Rondelle a Dents DEC M8	900009-002	
2	Screw HH M8x20	Vis H M8x20	900015-018	
3	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
4	Screw HSHC M8x60	Vis CHC M8x60	900017-019	
5	O-ring 37,00x1,50	Joint Torique 37,00x1,50	900050-039	
6	O-ring 29,30x3,60	Joint Torique 29,30x3,60	900050-040	
7	O-Ring 46,00x3,00	Joint Torique 46,00x3,00	900050-042	
8	Gas Phase Valve Assy	Vanne ph Gazeuse	-	Refer to Gas Phase Valve Assy
9	Assy Pipe - Separ. A--Valve A	Tube asm - dégazeur A--Vanne A	-	Refer to Separator Pipe Assembly
10	Assy Pipe - Separ. B--Valve B	Tube asm - dégazeur B--Vanne B	-	Refer to Separator Pipe Assembly
11	Outlet Assy - Gas Separator	Sortie Degazeur	-	Refer to Air Separator Outlet Assy
12	Pipe - Check Valve to Gauge	Tube Clapet Manomètre	906478	
13	Meter Pipe + Test Assy	Prise d'echantillon asm	-	Refer to Meter Pipe & Test Assy
14	Diff Valve/Gauge/Prst Assy	Vanne Diff 2 Bob Asm	-	Refer to Valve & Gauge Assembly
15	Air Separator with Nitrog Assy	Degazeur avec Point Nitrog Asm	-	Refer to Air Separator Assembly
16	Gas Return Line - Double Sided	Ens. retour ph. gaz. double	-	Refer to Gas Return Line Assembly
17	Gas Phase Valve Assy	Vanne Phase Gazeuse	-	Refer to Gas Phase Valve Assy
18	Kit Filter Y LPG with Groove	Kit Filtre Y GPL avec Gorge	-	Refer to Filter Kit Assembly
19	LPG Valve Shear Flanged LT	Raccord Sécurité GPL GF	943171	
20	Meter LPG with Collector TM80	Mesureur GPL av Collecteur TM80	-	Refer to Meter & Pulser Assembly

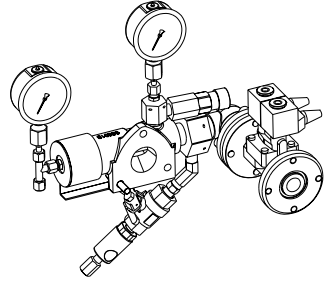


4.1.2 STANDARD DISPENSER STACK ASSEMBLY
(FROM SEPTEMBER 2008)

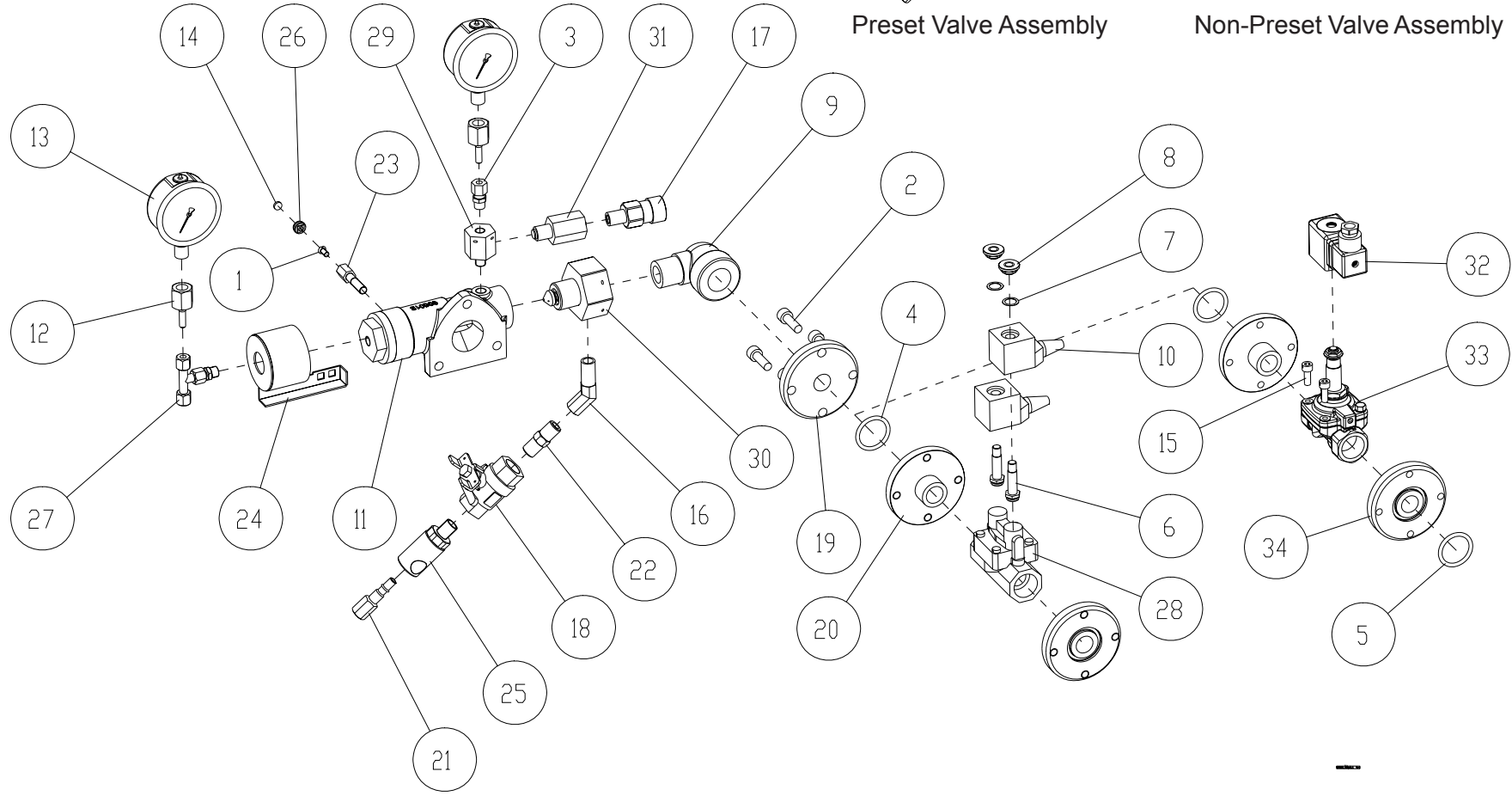
Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M8	Rondelle a Dents DEC M8	900009-002	
2	Screw HH M8x20	Vis H M8x20	900015-018	
3	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
4	Screw HSHC M8x60	Vis CHC M8x60	900017-019	
5	O-ring 29,30x3,60	Joint Torique 29,30x3,60	900050-040	
6	O-Ring 46,00x3,00	Joint Torique 46,00x3,00	900050-042	
7	Coupling Str. Male 3/4" NPT x	Raccord dr. Mal 3/4" NPT x 22	903297-001	
8	Elbow M/F 90 deg	Coude M/F 90 deg	904463-001	
9	Valve Assy - Gas Phase	Vanne Ph Gazeuse	-	Refer to Gas Phase Valve
10	Body LPG Air Separator Assy	Corps de degazeur GPL asm	-	Refer to Air Separator
11	Assy Pipe - Separ. A--Valve A	Tube asm - Dégazeur A--Vanne	-	Refer to Separator Pipe
12	Diff Valve/Gauge/Prst ital as	Vanne Diff 2 Bob italie asm	-	Refer to Valve & Gauge
13	Gas Return Line - Single Sided	Ens. Retour ph. Gaz. Simple A	-	Refer to Gas Return Line
14	Valve Assy Gas Phase FR	Vanne Phase Gazeuse FR	-	Refer to Gas Phase Valve
15	Kit Filter Y LPG with Groove	Kit Filtre Y GPL avec Gorge	-	Refer to Filter Kit
16	LPG Valve Shear Flanged LT	Raccord Sécurité GPL GF	-	Refer to Shear Valve
17	Meter Pipe & Test Assy	Prise d'Echantillon Asm	-	Refer to Meter Pipe & Test
18	Flange Inlet Meter with Stoppe	Bloc Entrée Mesureur avec Bo	943963	
19	Pipe Meter A and B	Tube Mesureur A et B	943964	
20	Pipe - Check Valve to Gauge B	Tube Clapet Manomètre Mes B	943965	
21	Pipe - Check Valve to Gauge A	Tube Clapet Manomètre Mes A	943966	
22	Outlet Gas Separator with T	Sortie Degazeur avec Racc. T	-	Refer to Air Separator Outlet
23	Coupling Inlet Liquid with Filt.	Raccord Entrée Liquide av Filt.	-	Refer to Separator
24	Meter LPG with Collector TM80	Mesureur GPL av Collecteur TM	-	Refer to Meter & Pulser



Non-Preset Valve Assembly



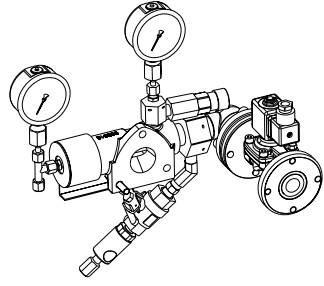
Preset Valve Assembly



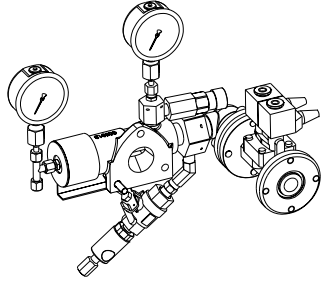
4.2 Differential Valve & Gauge Assembly

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 1/8NPT - 6mm	Rac Piq Male 6 - 1/8 NPT	900032-006	
4	O-ring 29,30x3,60	Joint Torique 29,30x3,60	900050-040	
5	O-ring 29,30x3,60 (Italy)	Joint Torique 29,30x3,60 (Italy)	900050-077	
6	Plungerhouse + Plunger	Plongeur Complete	900723	
7	Spring for Plunger	Ressort de Plongeur	900724	
8	Nut for Plunger	Ecrou par Plongeur	900725	
9	Elbow M/F 3/4" NPT	Coude M/F 3/4" NPT	902362-001	
10	Coil 24V	Bobine 24V	902646	
11	Valve Differential Assy LT	Vanne Differentielle Asm LT	943166	
12	Adaptor Manometer	Embase pour Manometre	902984	
13	Gauge 63mm 0-40 bar R1/4	Manometre 63mm 0-40 bar R1/4	903033-002	
14	Seal - Lead (cup type) D8x2	Plomb à Sceller D8x2	903177-001	
15	Screw HSHCD M6x16	Vis CHCP M6x16	903811-002	
16	Elbow 45 deg. MF 1/4" NPT	Courbe 45 ang. MF 1/4" NPT	904187-001	
17	Valve Rego 1/4" NPT	Soupape Rego 1/4" NPT	904198-001	
18	Valve - 1/4 Turn Ball 1/4" NPT	Vanne Boiss Spheriq 1/4" NPT	904460	
19	Flange - Male 3/4NPT w/o Groove	Bride mâle 3/4 NPT (lg 35)	904461	
20	Flange - Male 3/4NPT with Groove	Bride Electrovanne Mâle 3/4 NPT	904462	
21	Coupling-QR Mal Staubli 1/4NPT	Embout Raccord Staubli 1/4 NPT	904464	
22	Nipple - 1/4" NPT	Mamelon 1/4" NPT	904470-001	
23	Screw - Sealing for Diff. Valve	Vis de Plombage	904592	
24	Cup Seal Assy for Diff. Valve	Coupelle de Plombage Asm	904603	
25	Coupling-QR Male Staubli 1/4NPT	Raccord Staubli Male 1/4 NPT	904639	
26	Cup - Lead Seal	Coupelle de Plombage	906913	
27	Assembly Tee 6 x 6 x 1/8 NPT	Assemblage Te 6x6x1/8" NPT	907005	

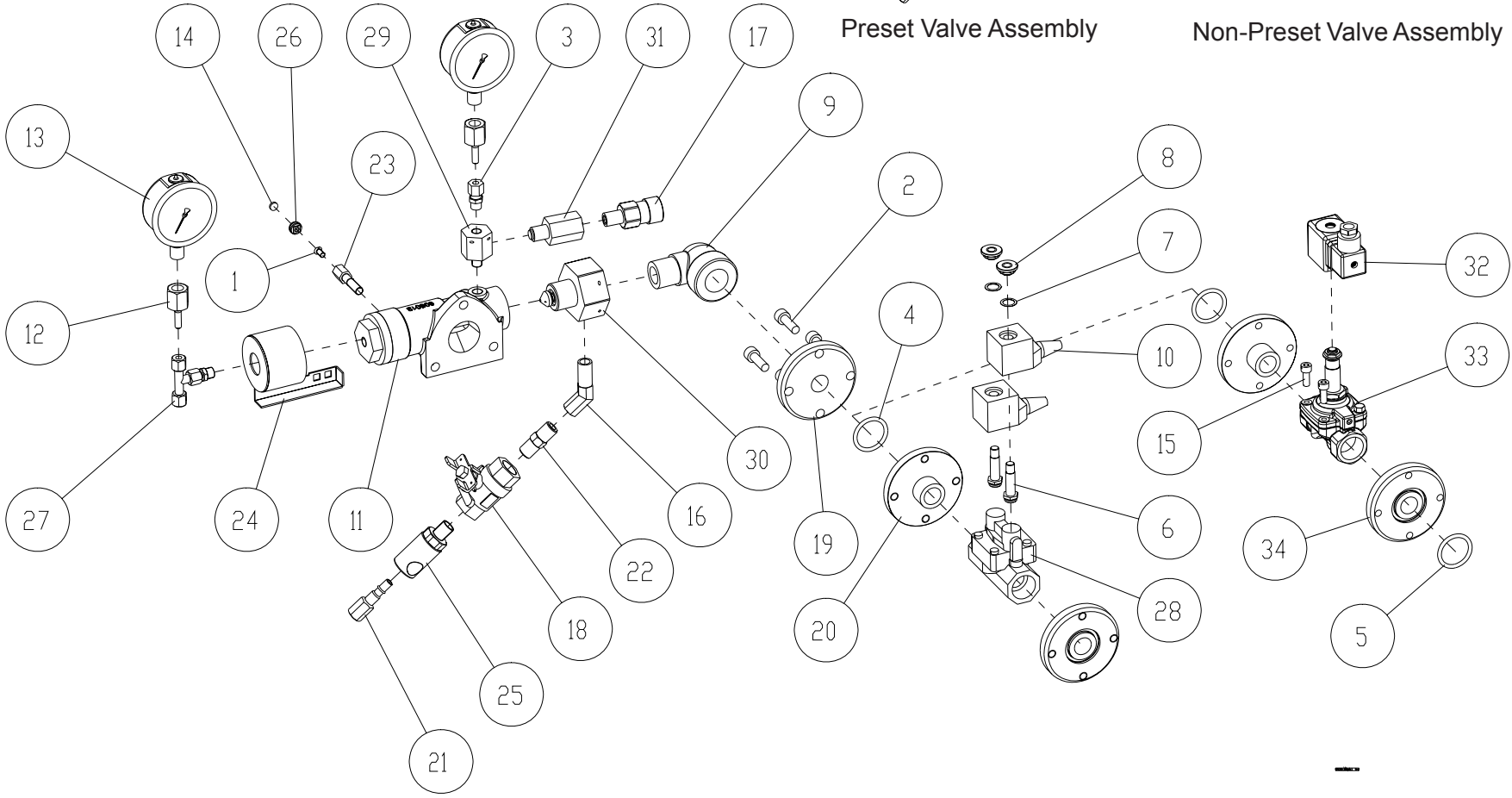
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Non-Preset Valve Assembly

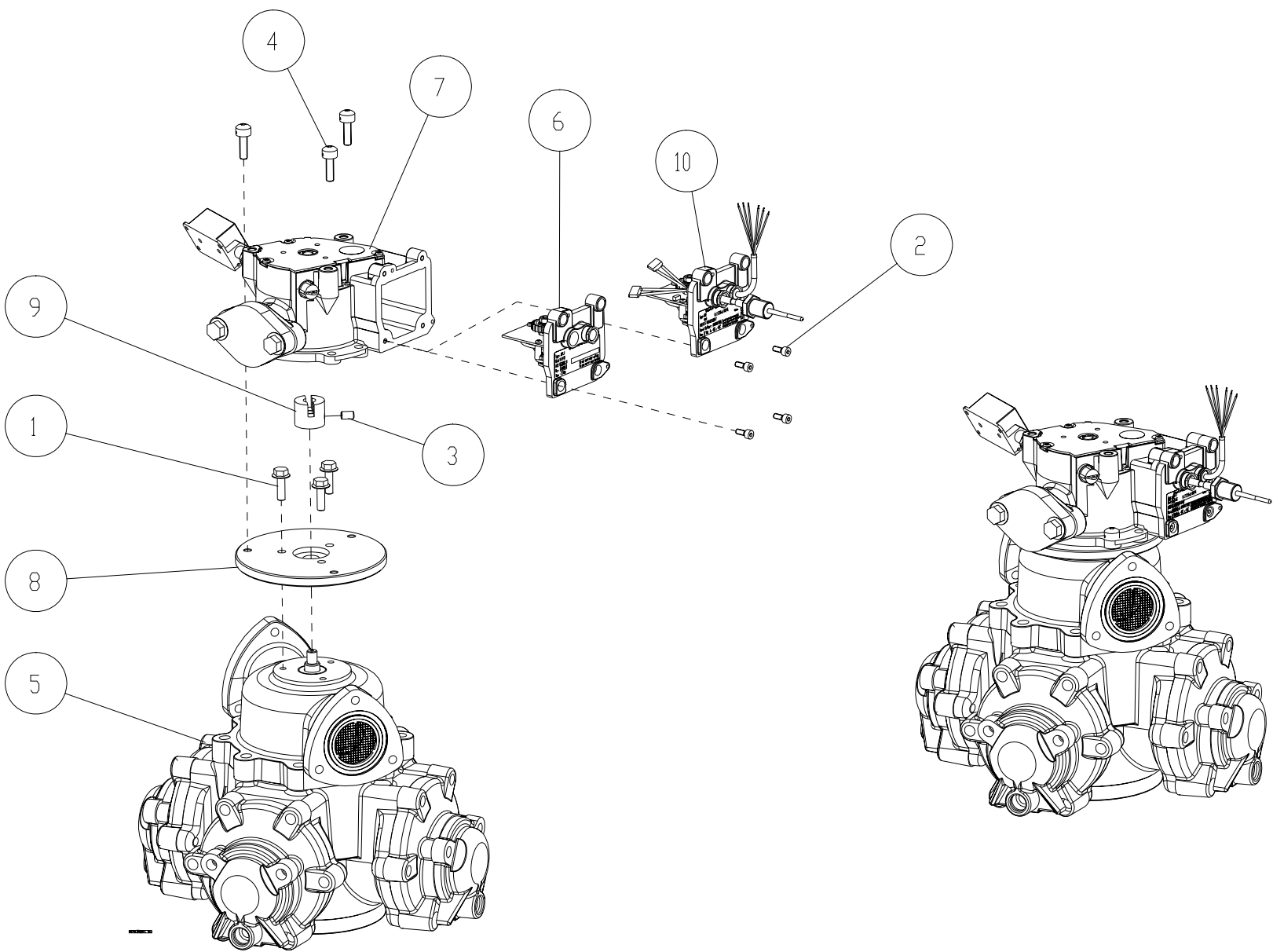


Preset Valve Assembly



4.2 Valve & Gauge Assembly (Cont.)

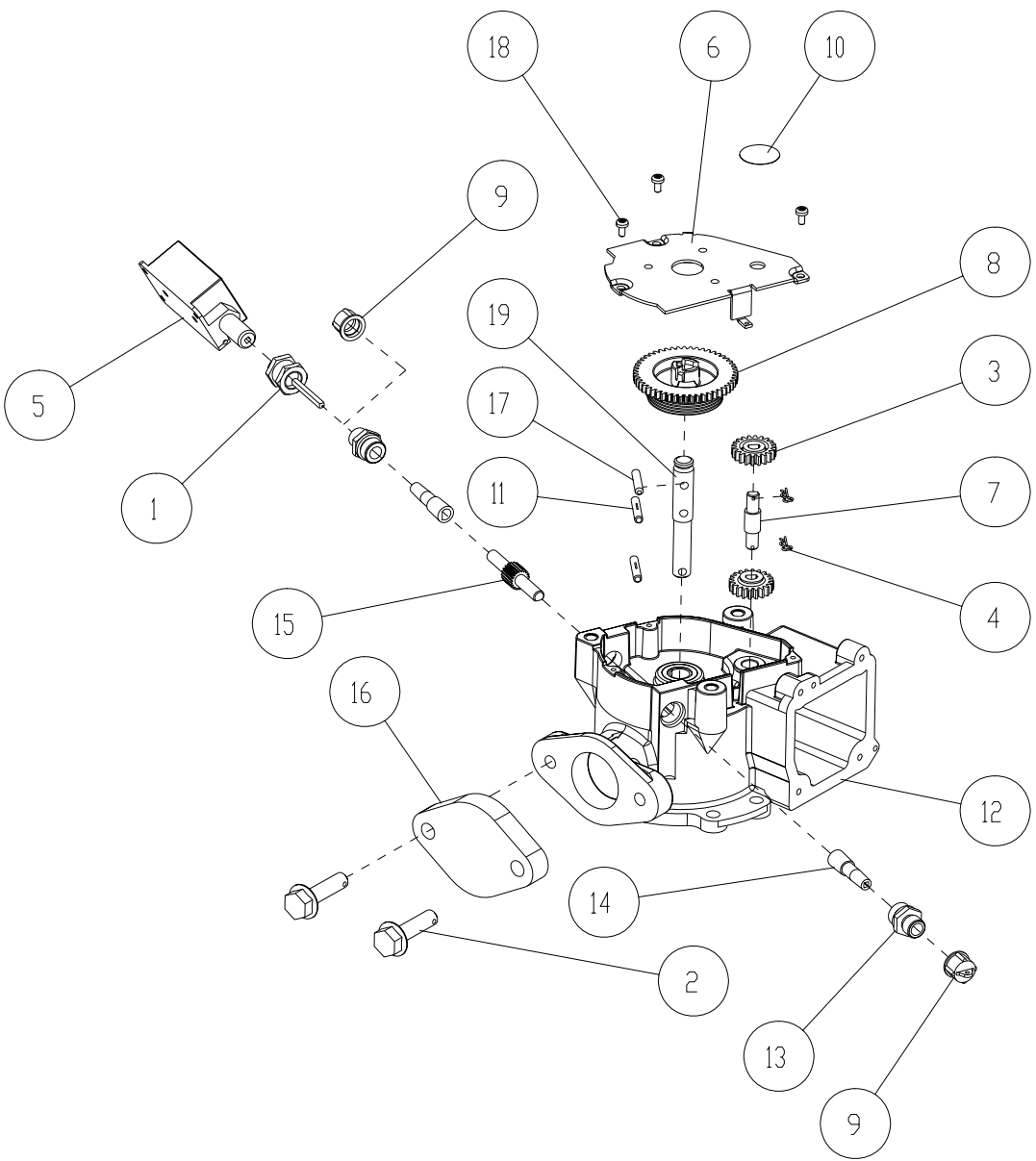
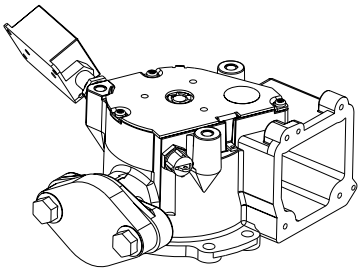
Item No	Description	Désignation Français	Part No	Comments
28	Valve Body 3/4" LPG (Sealing)	Elect. Corps 3/4" GLP (Plombage)	908652	
29	Conn. - Pres. Relief Valve (Sealing)	Embase Soupape (Plombage)	908653	
30	Limiter Discharge Flow Assy (Italy)	Limiteur de Debit Asm (Italie)	909387	
31	Adaptor of Valve Rego 1/4"NPT	Clapet de Soupape Rego 1/4"NPT	941385-001	
32	Solenoid 230V	Bobine 230V	944176	
33	Valve Body Simple 3/4 NPT	Corps Electro. Simple 3/4 NPT	944177	
34	Flange Male 3/4 NPT Groove LG31	Bride 3/4 NPT Male av Gorge LG31	944183	



Issue A

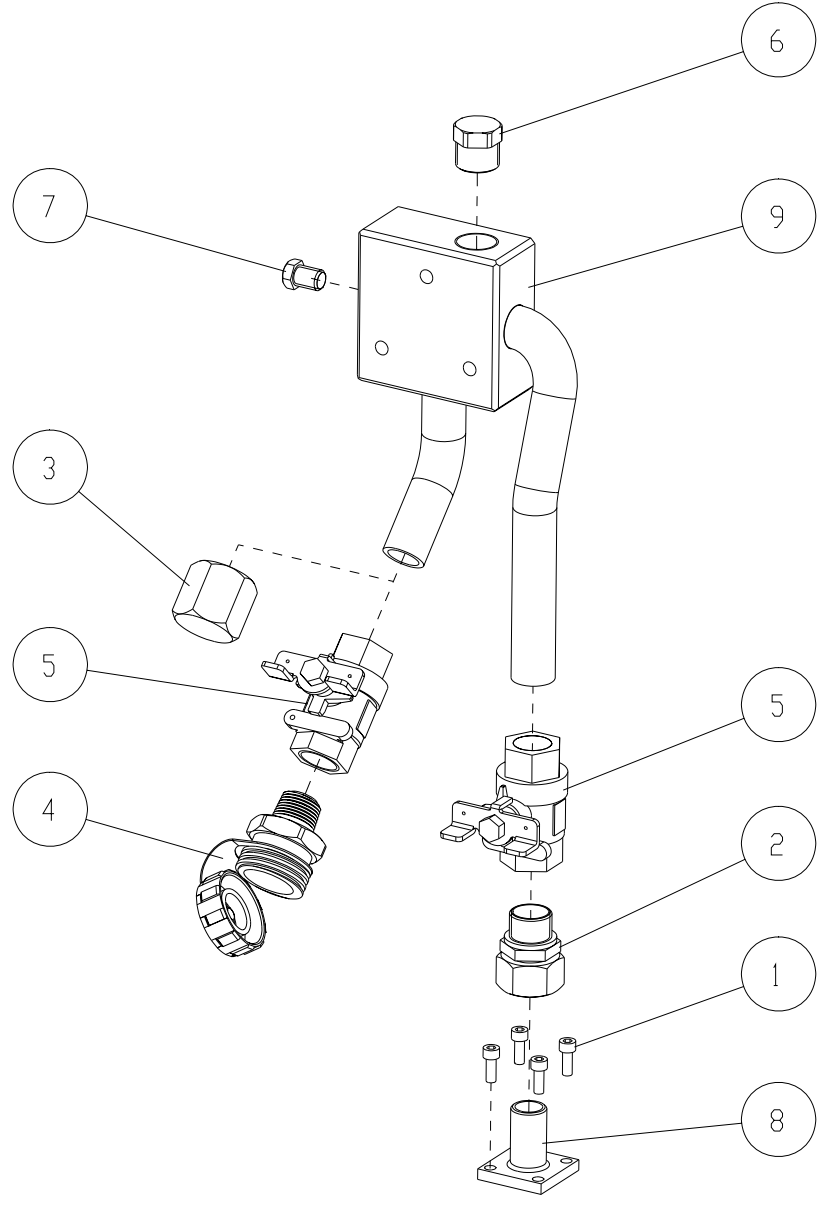
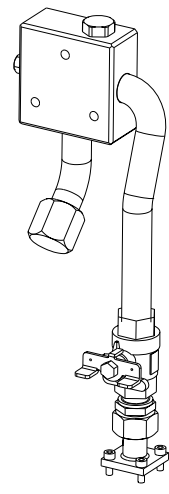
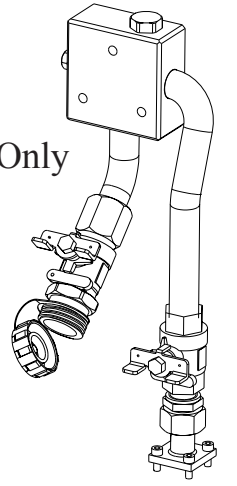
4.3 Meter & Pulsar Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
2	Screw HSHC M4x10	Vis CHC M4x10	900017-022	
3	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
4	Self Tapp. Screw Torx M6x20 Drilled	Vis autot. tapt. Torx M6x20 Percé	902186	
5	Meter LPG 700	Mesureur GPL 700	902770	
6	Pulsar MPT1 (CW) excl. Cable Pulsar Cable (3.6m) Pulsar Cable (4.5m)	Pulsar MPT1 (CW) excl. Cable Pulsar Cable (3.6m) Pulsar Cable (4.5m)	941209 901936-001 901936-002	Stand Alone Models only Combo Models Only
7	Collector LPG with Totalizer Collector LPG w/o Totalizer	Collecteur GPL av Totalisateur Collecteur GPL ss Totalisateur	- -	Refer to Collector Assembly
8	Bracket	Support	941755	
9	Pulsar Driver TC	Entraineur Emetteur TC	942027	
10	MPE-TC LPG with Cables Assy	MPE-TC GPL avec Cables Asm	942173	



4.3.1 COLLECTOR ASSEMBLY

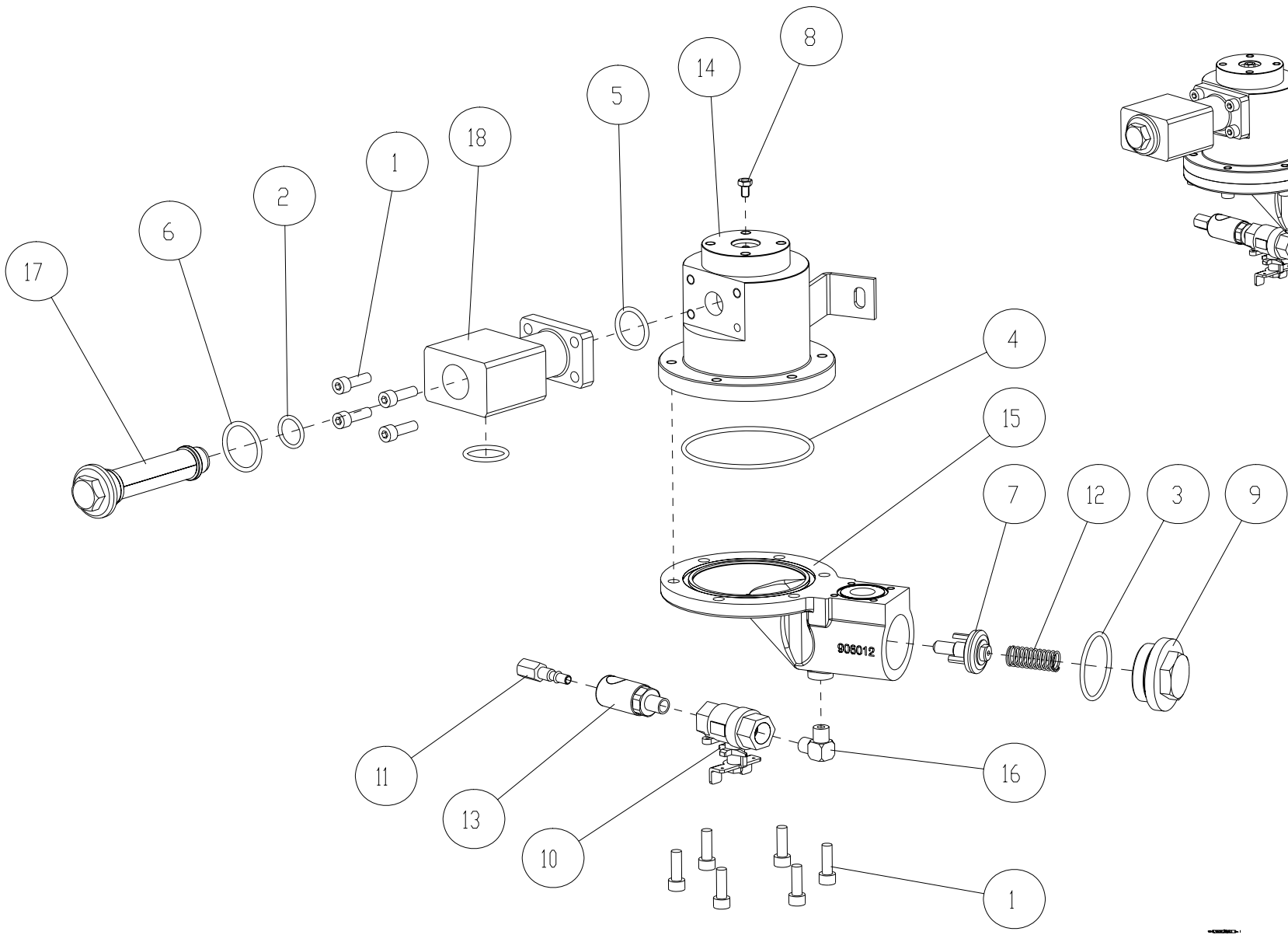
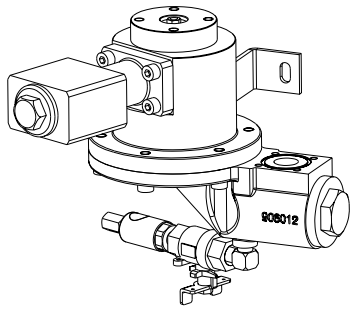
Item No	Description	Désignation Français	Part No	Comments
1	Coupling - Totaliser	Raccod Totalisateur	901090	
2	Screw Sealing M8x30	Vis de Plombage M8x30	902005	
3	Gear Wheel 20T	Pignon 20 Dents	903220	
4	Special Beta Pin	Goupille Beta Speciale	903227	
5	Mechanical Totaliser Left Mechanical Totaliser Right	Totalisateur meca. Gauche Totalisateur meca. Droit	907907-001 907907-002	
6	Top Plate	Tole de Protection	907987	
7	Gear Wheel Shaft	Axe Entraînement Emetteur	908017	
8	Drive Shaft Gear 50 Teeth	Pignon Sortie mes.50 Dents	908064	
9	Tote Plug Sealable SM80	Bouchon Plombage Totalisateur	908065	
10	Top Plate Label Diameter 20	Etiquette Diametre 20	908067	
11	Grooved Pins 4x20	Goupille Cannelée G6 4x20	908079-001	
12	Collector Bearing Assy	Collecteur Bagué asm	908087	
13	Totaliser Bearing	Palier Totalisateur	908162	
14	Tote Drive Adaptator	Adaptateur Sortie Totalisateur	908163	
15	Totaliser Shaft	Axe de Totalisateur	908164	
16	Flange Oval without Holes	Bride Ovale sans Trous	908456	
17	TQM Parallel Pin L=21mm	Goupille Paral L=21mm TQM	908720	
18	Screw Torx Ejot T10 d3x6	Vis Torx Ejot T10 d3x6	909903-001	
19	Shaft	Axe	941756	



Issue A

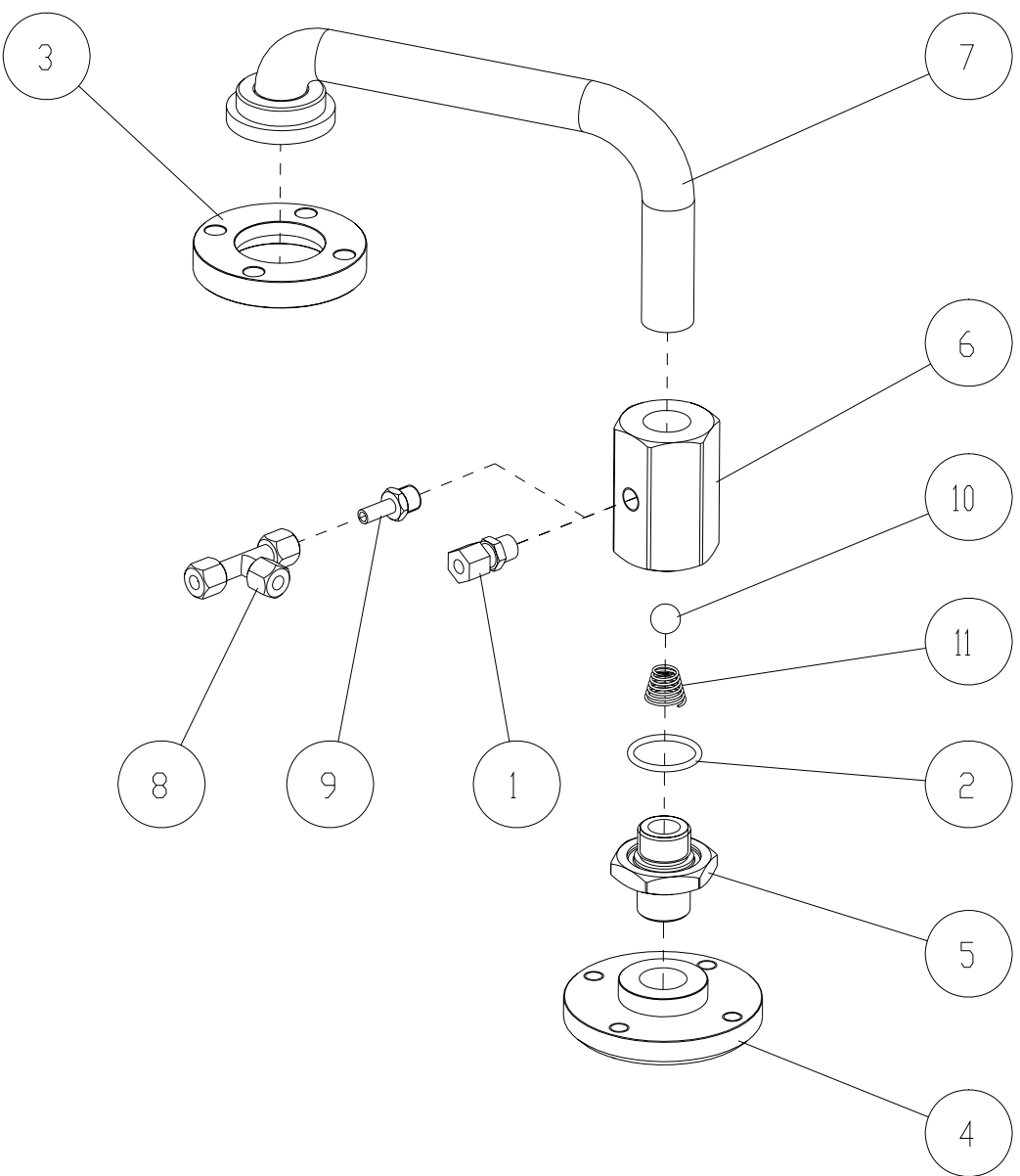
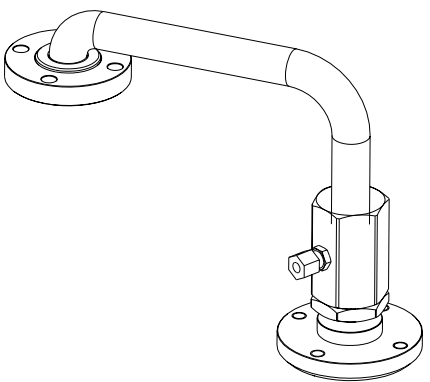
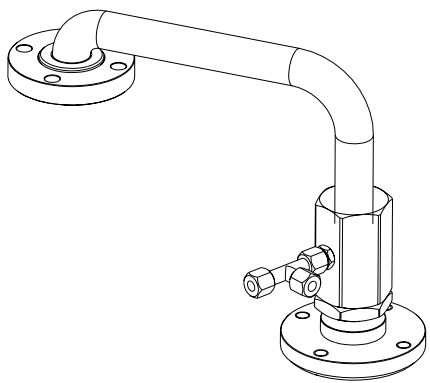
4.4 Meter Pipe & Test Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M6x16	Vis CHC M6x16	900017-007	
2	Coupling Str. Male 3/4" NPT x 22mm	Raccord dr. Mal 3/4" NPT x 22mm	903297-001	
3	Cap 3/4" NPT	Bouchon 3/4" NPT	904154	
4	Valve Double Check Filler LPG	Clapet Anti-Retour Double LPG	904203	
5	Valve- b/fly 1/4 Turn Ball 3/4"NPT	Vanne Boiss Spher. PAP. 3/4"NPT	904243	
6	Plug - Male 3/4" NPT	Bouchon Male 3/4 NPT	904593	
7	Plug - Male 1/4" NPT	Bouchon Mâle 1/4" NPT	906477-001	
8	Connector Separator Valve	Embout Degazeur Vanne	943521	
9	Pipe Air Separator Outlet Assy	Tube Sortie Degazeur Asm	943522	



4.5 Air Separator Assembly

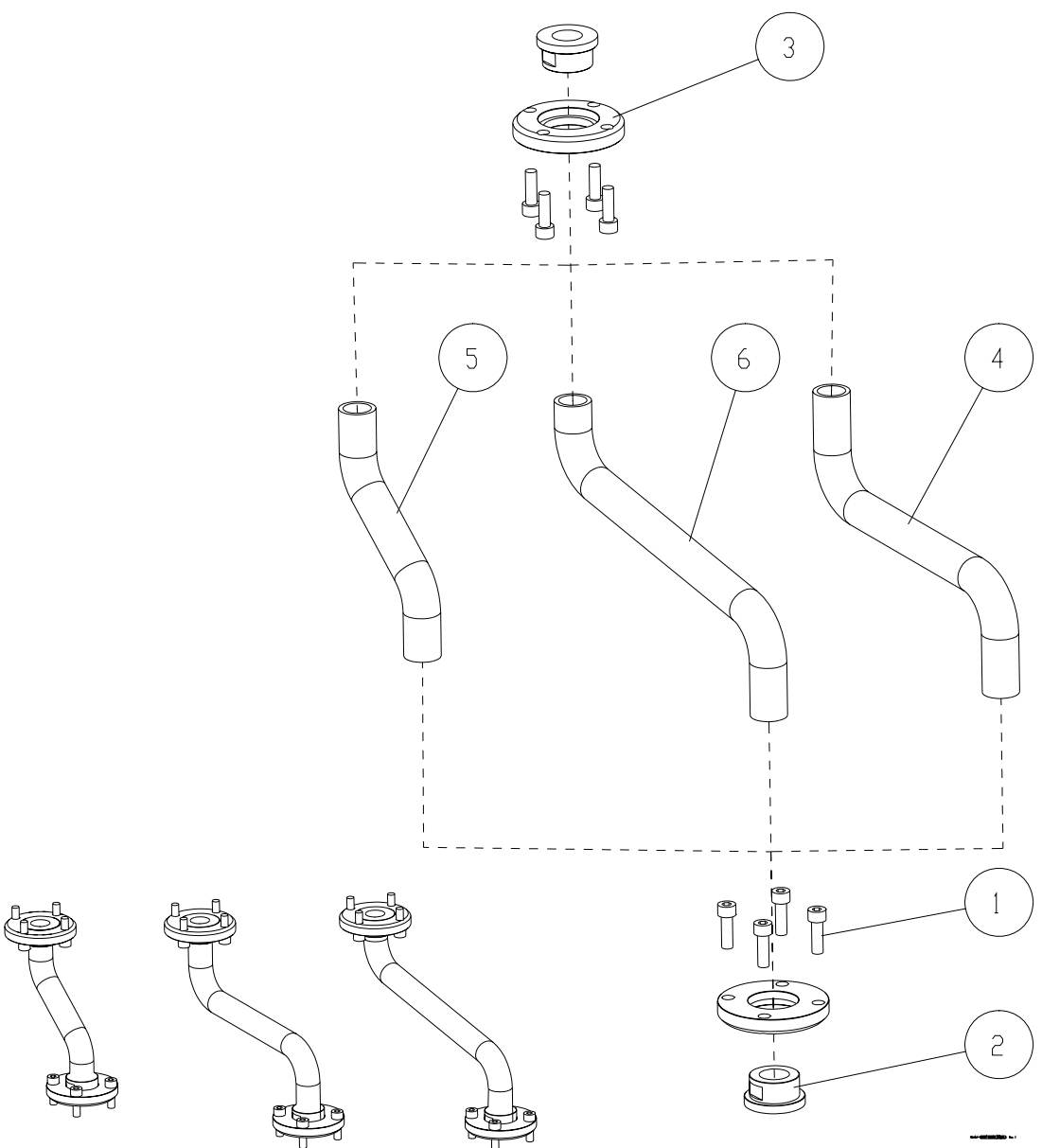
Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	O-ring 22,00x3,00	Joint Torique 22,00x3,00	900050-035	
3	O-ring 50,40x3,50	Joint Torique 50,40x3,50	900050-036	
4	O-ring 98,00x3,50	Joint Torique 98,00x3,50	900050-037	
5	O-ring 29,30x3,60	Joint Torique 29,30x3,60	900050-040	
6	O-ring 35,60x3,60	Joint Torique 35,60x3,60	900050-041	
7	Check Valve Mounted	Clapet Anti Retour Monte	902711	
8	Jet Air Separator	Gicleur du Dégazeur	902721	
9	Plug LPG	Obturateur GPL	902730	
10	Valve - 1/4 turn ball 1/4" NPT	Vanne Boiss Spheriq 1/4" NPT	904460	
11	Coupling-QR Mal Staubli 1/4NPT	Embout Raccord Staubli 1/4 NPT	904464	
12	Spring (Diff. Valve)	Ressort	904636	
13	Coupling-QR Male Staubli 1/4NPT	Raccord Staubli Male 1/4 NPT	904639	
14	Body LPG Air Separator Assy	Corps de Degazeur GPL Asm	905358	
15	Housing Check Valve Ported	Support de Clapet GPL	905464	
16	Elbow MM 1/4" NPT	Courbe MM 1/4" NPT	905897-001	
17	Filter Air Separator Assy Sst	Filtre Degazeur Inox Asm	944484	
18	Coupling Inlet Liquid with Filter	Raccord Entrée Liquide av Filter	944624	



Issue A

4.6 Air Separator Outlet Assembly

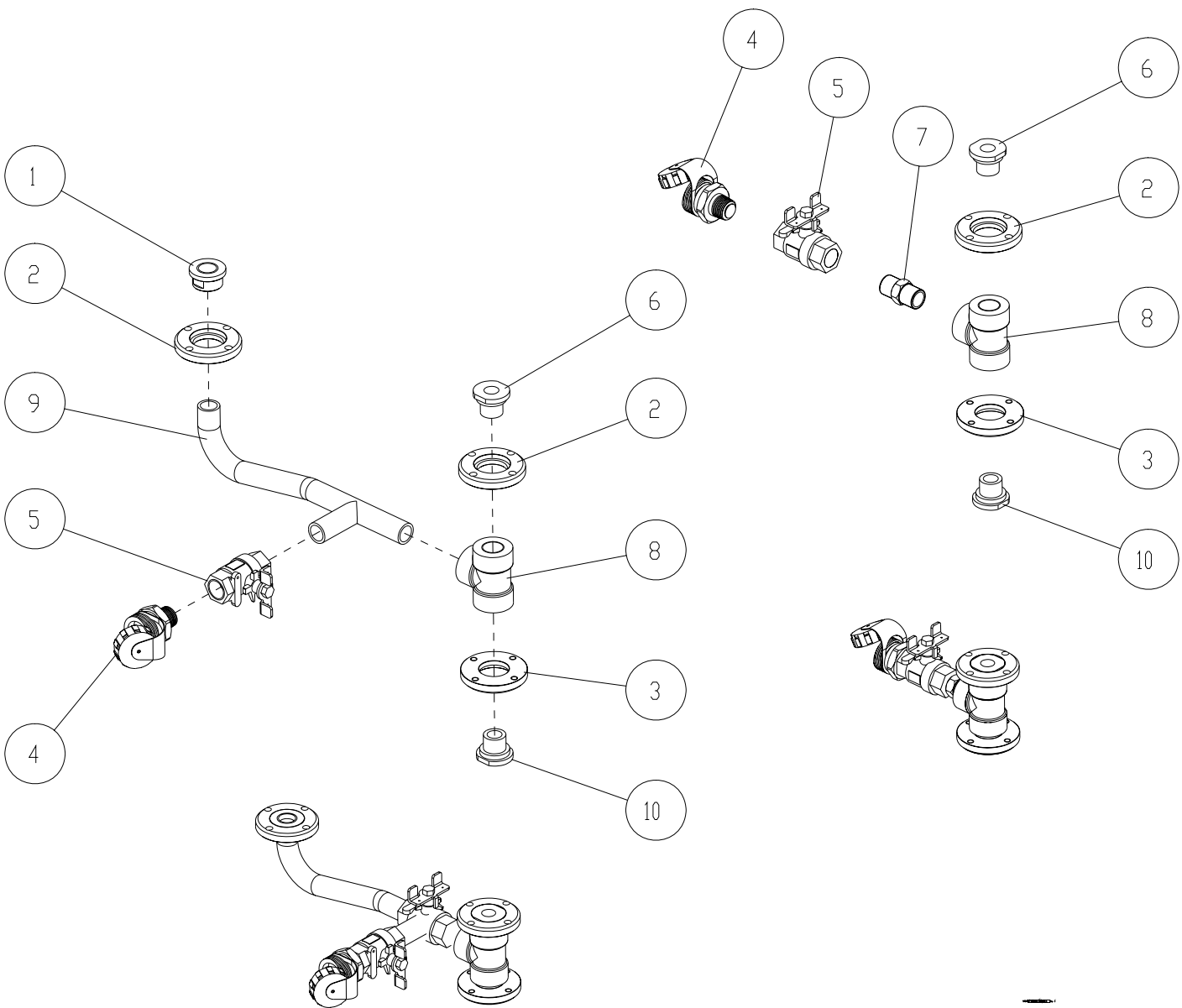
Item No	Description	Désignation Français	Part No	Comments
1	Straight Compr 1/8NPT - 6mm	Rac Piq Male 6 - 1/8 NPT	900032-006	
2	O-Ring 25x2.5	Joint Torique 25x2.5	900050-053	
3	Flange - Gas Pipe Fixing	Bride Fixation Tubulure ph Gaz	904655	
4	Flange - F 1/2"NPT with Groove	Bride F 1/2 NPT avec Gorge	904658	
5	Non Return Valve Noze	Embout Clapet Anti Retour	904672	
6	Non Return Valve Body	Corps Clapet Anti Retour	904673	
7	Pipe - Gas Phase - Weld Assy	Tube Phase Gazeuse Soudé	906466	
8	Tee Equal 6mm	Té Egal 6mm	907002-001	Model 1-2 (from Sept 2008) MID
9	Straight Adapt BSP. 1/8"-6mm	Adaptateur Droit 1/8" BSP-6mm	907003-001	Model 1-2 (from Sept 2008) MID
10	Ball Bearing	Bille a Roulement	945730-001	
11	Valve Spring	Ressort Clapet	945731	



Issue A

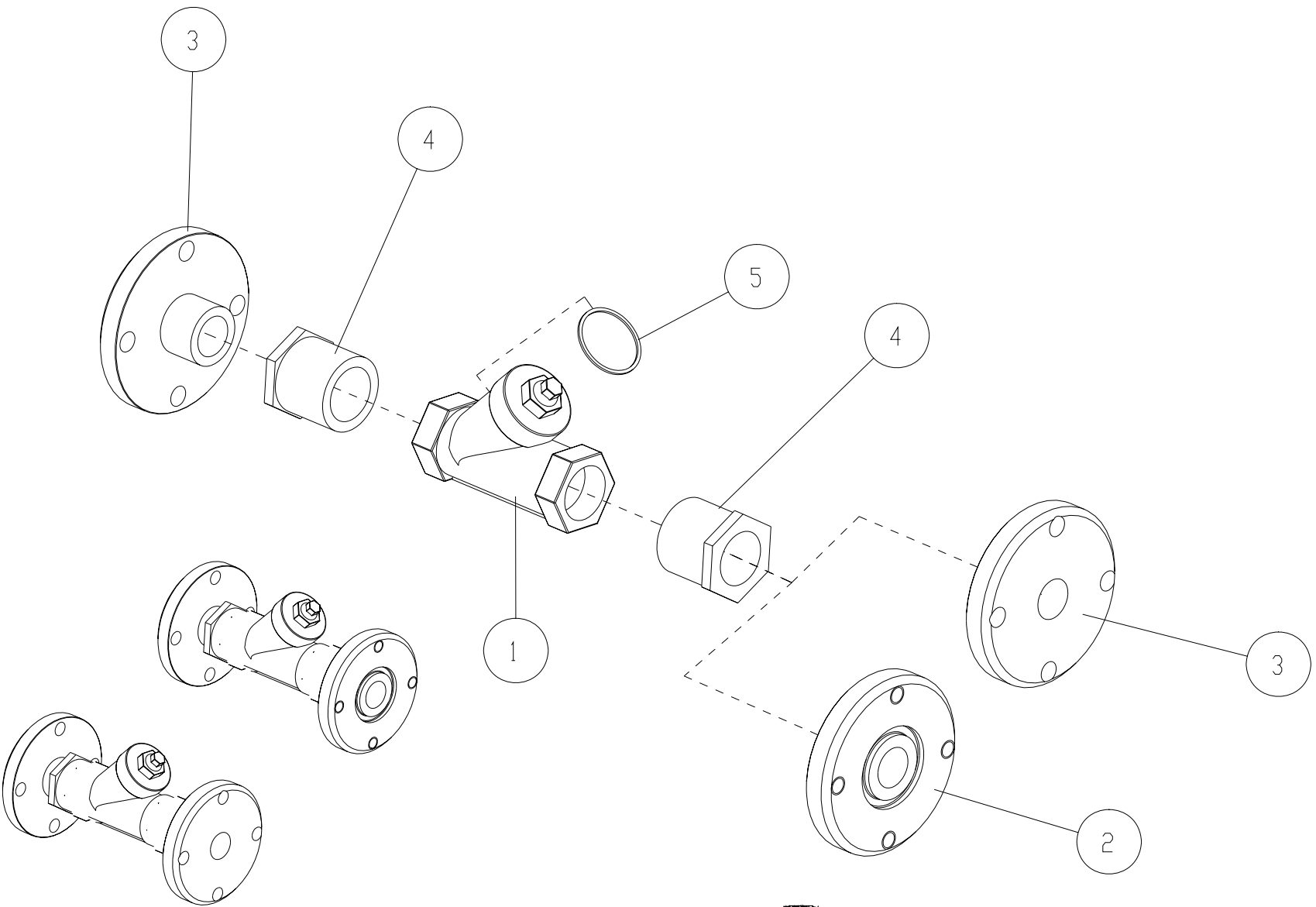
4.7 Separator Pipe Assemblies

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	Adaptor - Female 3/4" NPT	Embout Femelle 3/4" NPT	902125	
3	Flange - Rotating	Bride Tournante Trous Lisses	902400	
4	Pipe - Separ. A--Valve A	Tube - Dégazeur A--Vanne A	906461	Side A only
5	Pipe - Separ. B--Valve B	Tube - Dégazeur B--Vanne B	906463	Side B only
6	Pipe - Separ. A--Valve B	Tube - Dégazeur A--Vanne B	906570	



4.8 Gas Return Line Assemblies

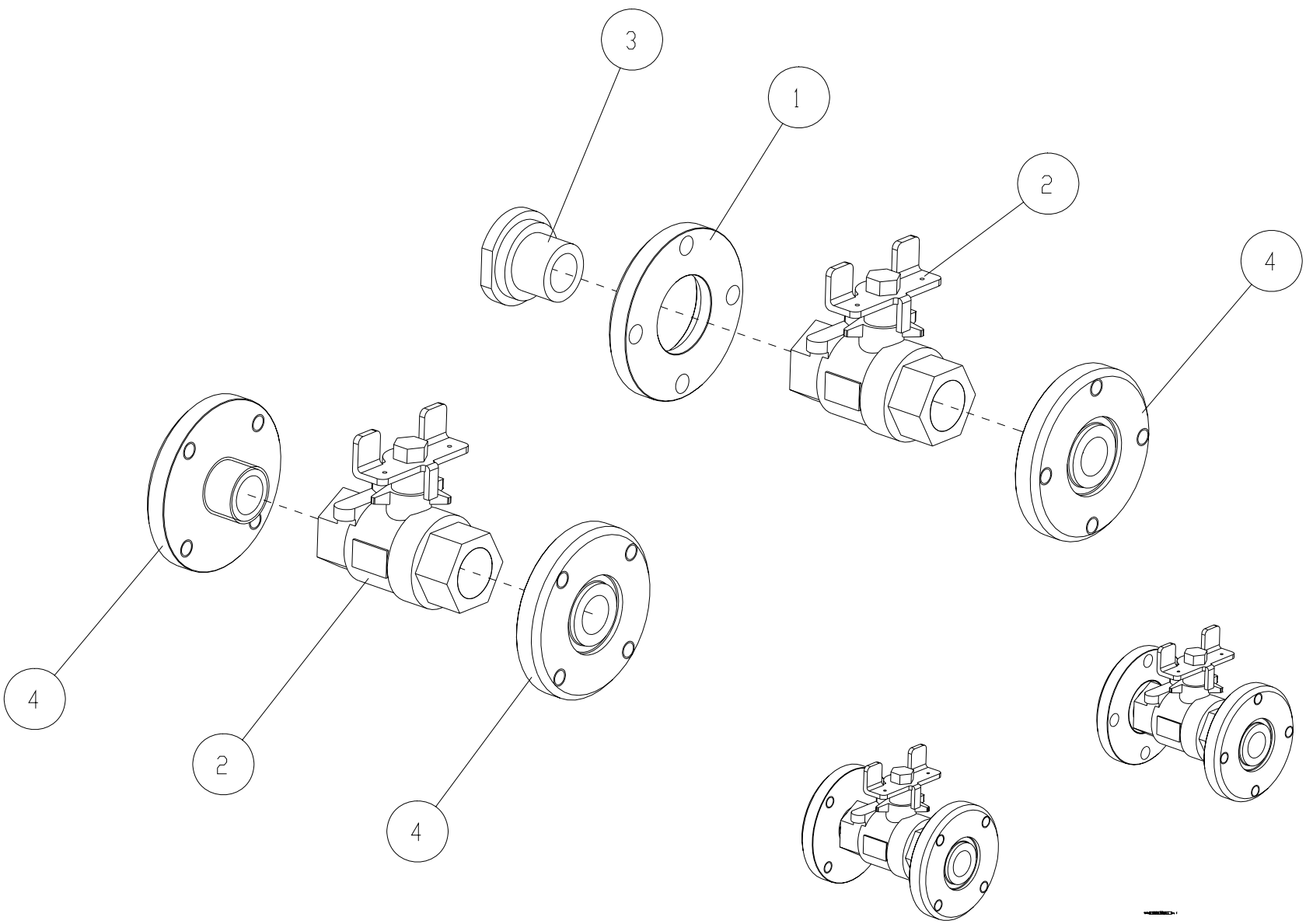
Item No	Description	Désignation Français	Part No	Comments
1	Adaptor - Female 3/4" NPT	Embout Femelle 3/4" NPT	902125	Double-sided only
2	Flange - Rotating	Bride Tournante Trous Lisses	902400	
3	Flange - Rotating Threaded	Bride Tournante Trou Taraude	902945	
4	Valve Double Check Filler LPG	Clapet Anti-Retour DBL LPG	904203	
5	Valve- b/fly 1/4 Turn Ball 3/4"NPT	Vanne Boiss Spher. PAP. 3/4"NPT	904243	
6	Adaptor - Male 3/4"NPT w/o gr	Embout Male 3/4 NPT ss Gorge	904261	
7	Nipple - 3/4" NPT	Mamelon 3/4" NPT	904470-002	Single-sided only
8	Tee F/F/F 3/4"NPT	Raccord TE Femelle 3/4 NPT	904527	
9	Pipe - tee Gas Return	Tubulure TE Retour ph Gazeuse	904597	Double-sided only
10	Adaptor Male 3/4"NPT with Gr	Embout Male 3/4 NPT av Gorge	940451	



Issue A

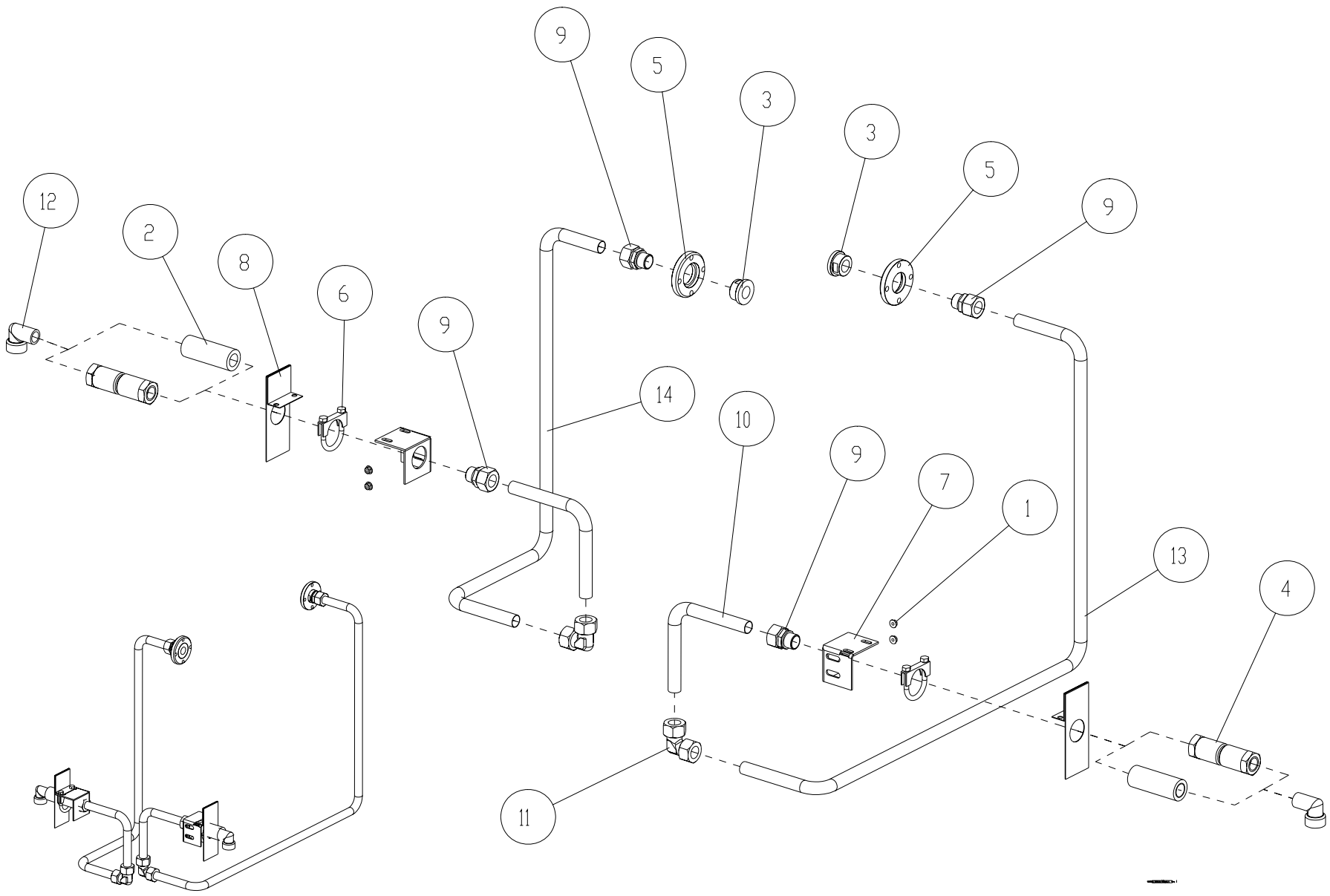
4.9 Filter Kit Assemblies

Item No	Description	Désignation Français	Part No	Comments
1	Y Strainer Screwed 1" NPT	Filtre Y 1" NPT	904241-002	
2	Flange - Male 3/4NPT with Groove	Bride Electrovanne Mâle 3/4 NPT	904462	with Shear Valve Option
3	Flange - Male 3/4NPT w/out Groove	Bride Mâle 3/4 NPT (lg 30)	904880	with Non-Shear Valve Option
4	Reducer Male 1" / Female 3/4"	Red. Male 1" / Femelle 3/4"	906469-001	
5	Flat Joint PTFE	Joint Plat PTFE	945673	



4.10 Gas Phase Valve Assemblies

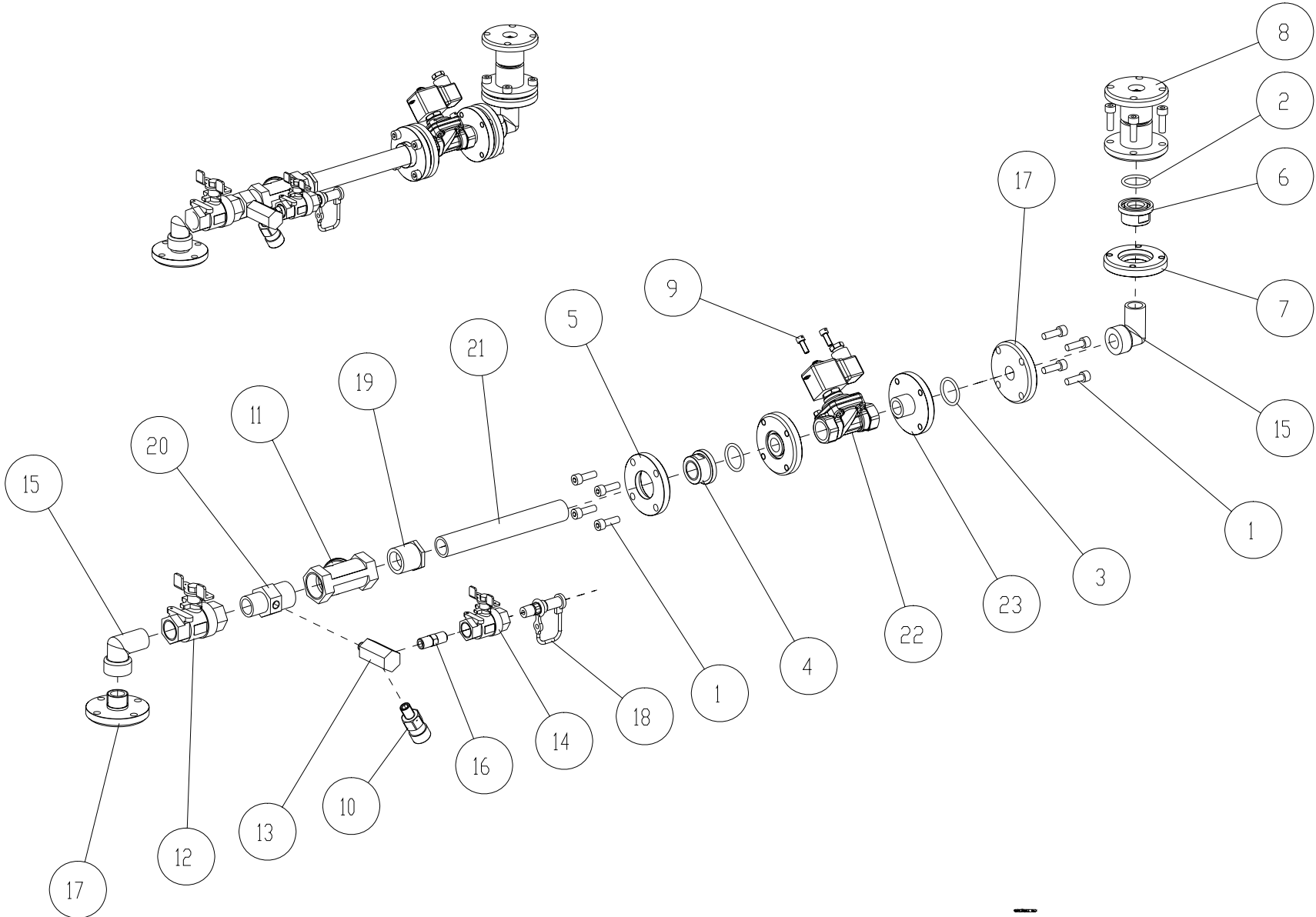
Item No	Description	Désignation Français	Part No	Comments
1	Flange - Rotating	Bride Tournante Trous Lisses	902400	France only
2	Valve- b/fly 1/4 Turn Ball 3/4"NPT	Vanne Boiss Spher. PAP. 3/4"NPT	904243	
3	Adaptor - Male 3/4"NPT w/o Gr	Embout Male 3/4 NPT SS Gorge	904261	France only
4	Flange - Male 3/4NPT w Groove	Bride Electrovanne Mâle 3/4 NPT	904462	



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4.11 Valve to Hose Assembly

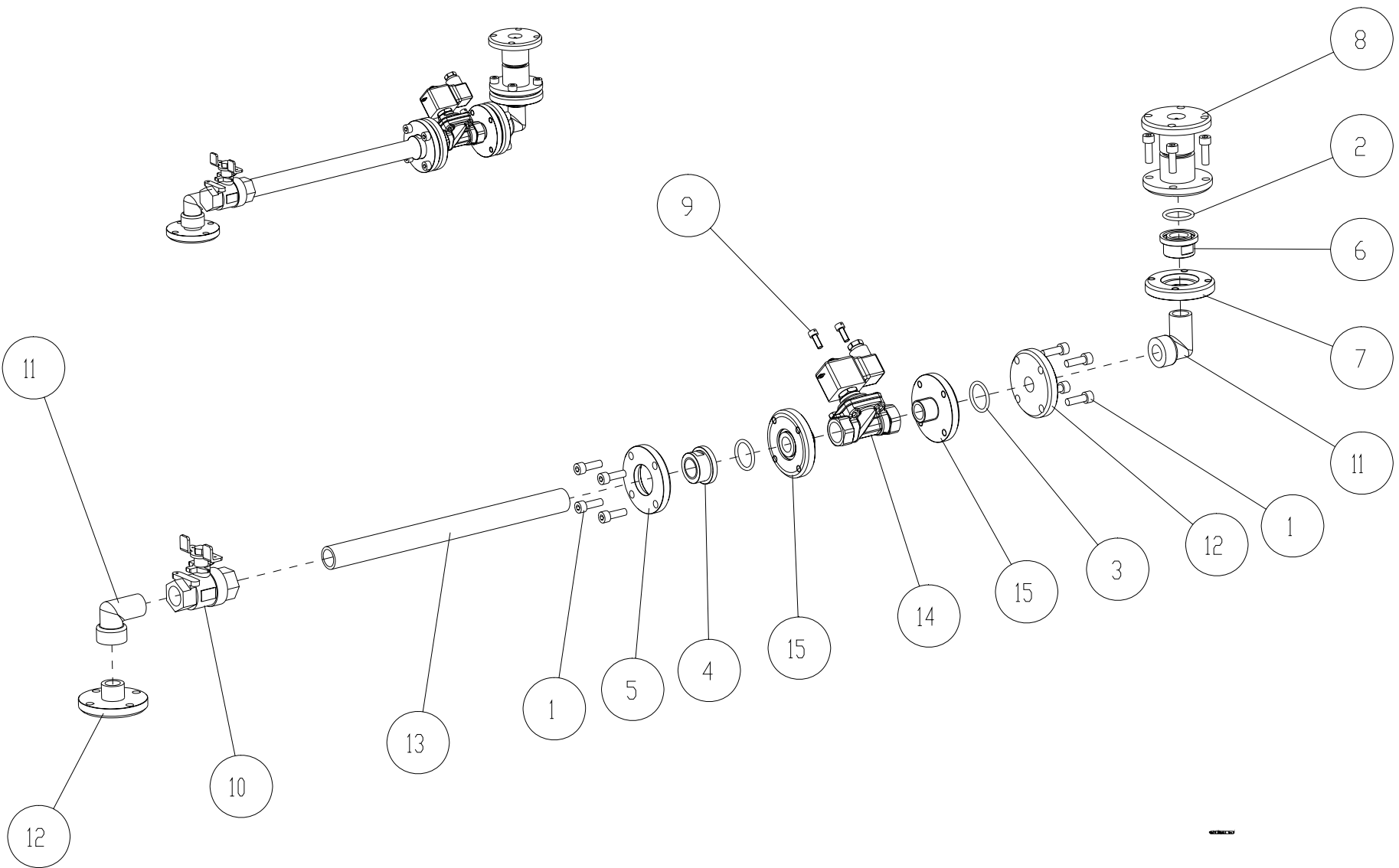
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Socket 3/4" NPT - 3/4" NPT LPG	Douille 3/4" NPT - 3/4" NPT GPL	901239	
3	Adaptor - Female 3/4" NPT	Embout Femelle 3/4" NPT	902125	
4	Break Coupling 3/4" NPT	Raccord Cassant 3/4" NPT	902363-001	France Only
5	Flange - Rotating	Bride Tourante Trous Lisses	902400	
6	Clamp	Bride	903184	
7	Hose Outlet Support LPG	Support Sortie Flexible GPL	903185	
8	Cover Hose Outlet LPG	Couvre Sortie Flexible GPL	903186	
9	Coupling Str. Male 3/4" NPT x 22mm	Raccord dr. Mal 3/4" NPT x 22mm	903297-001	
10	Pipe LPG HMS -Hose	Tube Liaison HMS / Flex	903668	
11	22mm Elbow EO2	22mm Coude EO2	903689-001	
12	Elbow M/F 90 Deg	Coude M/F 90 Deg	904463-001	
13	Pipe LPG Stack - Hose A Pipe LPG Stack - Hose A (Combo)	Tube Liaison 1/Flex Face A Tube Liaison 1/Flex Face A (Combo)	908542 943057	Combo Model Only
14	Pipe LPG Stack Hose Side B Pipe LPG Stack Hose Side B (Combo)	Tube Liaison Flex Face B Tube Liaison Flex Face B (Combo)	940941 943059	Combo Model Only



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4.12 Inlet - Liquid Assembly

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	900050-040	
3	O-ring 29.3x3.6	Joint Torique 29.3x3.6	900050-077	
4	Adaptor - Female 3/4" NPT	Embout Femelle 3/4" NPT	902125	
5	Flange - Rotating	Bride Tournante Trous Lisses	902400	
6	Adapter F 3/4 NPT Grooved	Embout F 3/4 NPT avec Gorge	902944	
7	Flange - Rotating Threaded	Bride tournante Trou Taraude	902945	
8	LPG Valve Shear Flanged LT	Raccord Securite GPL GF	943171	
9	Screw HSHCD M6x16	Vis CHCP M6x16	903811-002	
10	Valve Rego 1/4" NPT	Soupape Rego 1/4" NPT	904198-001	
11	Y Strainer Screwed - 1" NPT	Filtre en Y a Visser - 1" NPT	904241-002	
12	Valve- b/fly 1/4 Turn Ball 3/4"NPT	Vanne Boiss Spher. PAP. 3/4"NPT	904243	
13	Adaptor NPT 1/8" x 1/4" x 1/4"	Adapteur NPT 1/8" x 1/4" x 1/4"	904255	
14	Valve - 1/4 Turn Ball 1/4" NPT	Vanne Boiss Spherique 1/4" NPT	904460	
15	Elbow M/F 90 deg	Coude M/F 90 deg	904463-001	
16	Nipple - 1/4" NPT	Mamelon 1/4" NPT	904470-001	
17	Flange - Male 3/4NPT w/o Groove	Bride Mâle 3/4 NPT (lg 30)	904880	
18	Staubli Coupling Male - 1/4" NPT	Raccord Staubli Male - 1/4" NPT	906423-001	
19	Reducer Male 1" / Female 3/4"	Red. Male 1" / Femelle 3/4"	906469-001	
20	Reducer Male 3/4" - Male 1"	Réducteur Mâle 3/4" - Mâle 1"	906470	
21	Liquid Phase - Pipe	Tube Phase Liquide	906471	
22	Valve Simple Assy LPG 230v	Electrov. Simple Asm GPL 230v	944178	
23	Flange Male 3/4NPT Groove LG31	Bride 3/4NPT Male av Gorge LG31	944183	



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4.13 Gas Return Line Assemblies - Hydraulic Chair

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	900050-040	
3	O-ring 29,3x3,6	Joint Torique 29,3x3,6	900050-077	
4	Adaptor - Female 3/4" NPT	Embout Femelle 3/4" NPT	902125	
5	Flange - Rotating	Bride Tourante Trous Lisses	902400	
6	Adapter F 3/4 NPT Grooved	Embout F 3/4 NPT avec Gorge	902944	
7	Flange - Rotating Threaded	Bride Tourante Trou Taraude	902945	
8	Valve - Shear Flanged	Raccord Sécurité à Brides asm	943171	
9	Screw HSHCD M6x16	Vis CHCP M6x16	903811-002	
10	Valve- b/fly 1/4 Turn Ball 3/4"NPT	Vanne Boiss Spher. PAP. 3/4"NPT	904243	
11	Elbow M/F 90 deg	Coude M/F 90 deg	904463-001	
12	Flange - Male 3/4NPT w/o Groove	Bride Mâle 3/4 NPT (lg 30)	904880	
13	Pipe - Gas Phase	Tube Phase Gazeuse	906473	
14	Valve Simple Assy LPG 230v	Electrov. Simple Asm GPL 230v	944178	
15	Flange Male 3/4NPT Groove LG31	Bride 3/4NPT Male av Gorge LG31	944183	

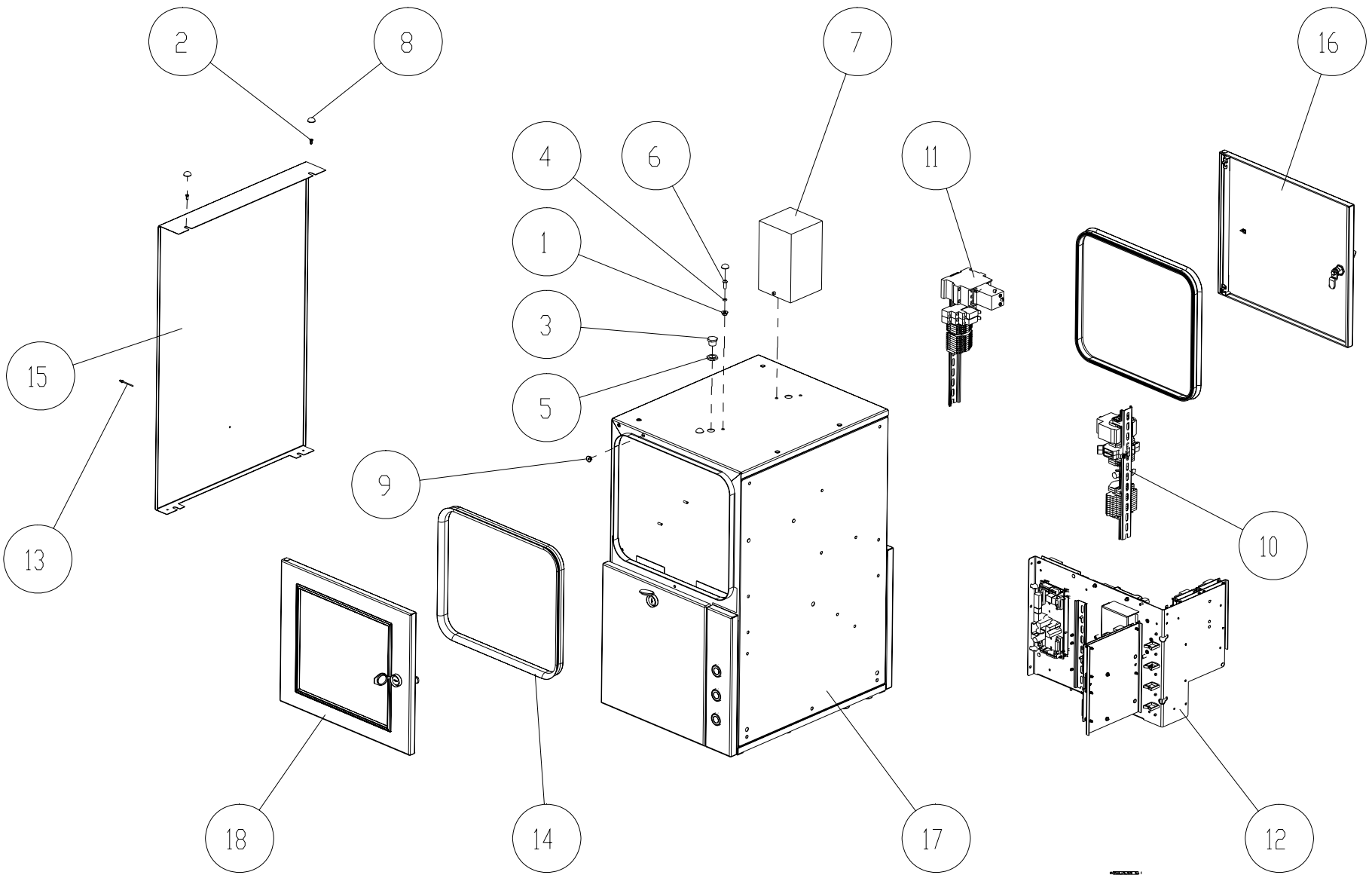
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5	DISPENSER ELECTRONICS	5-2
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Note : This section contains LPG parts only.

For Q500T1 parts please refer to the Q500T1 Parts Manual, Section 5.

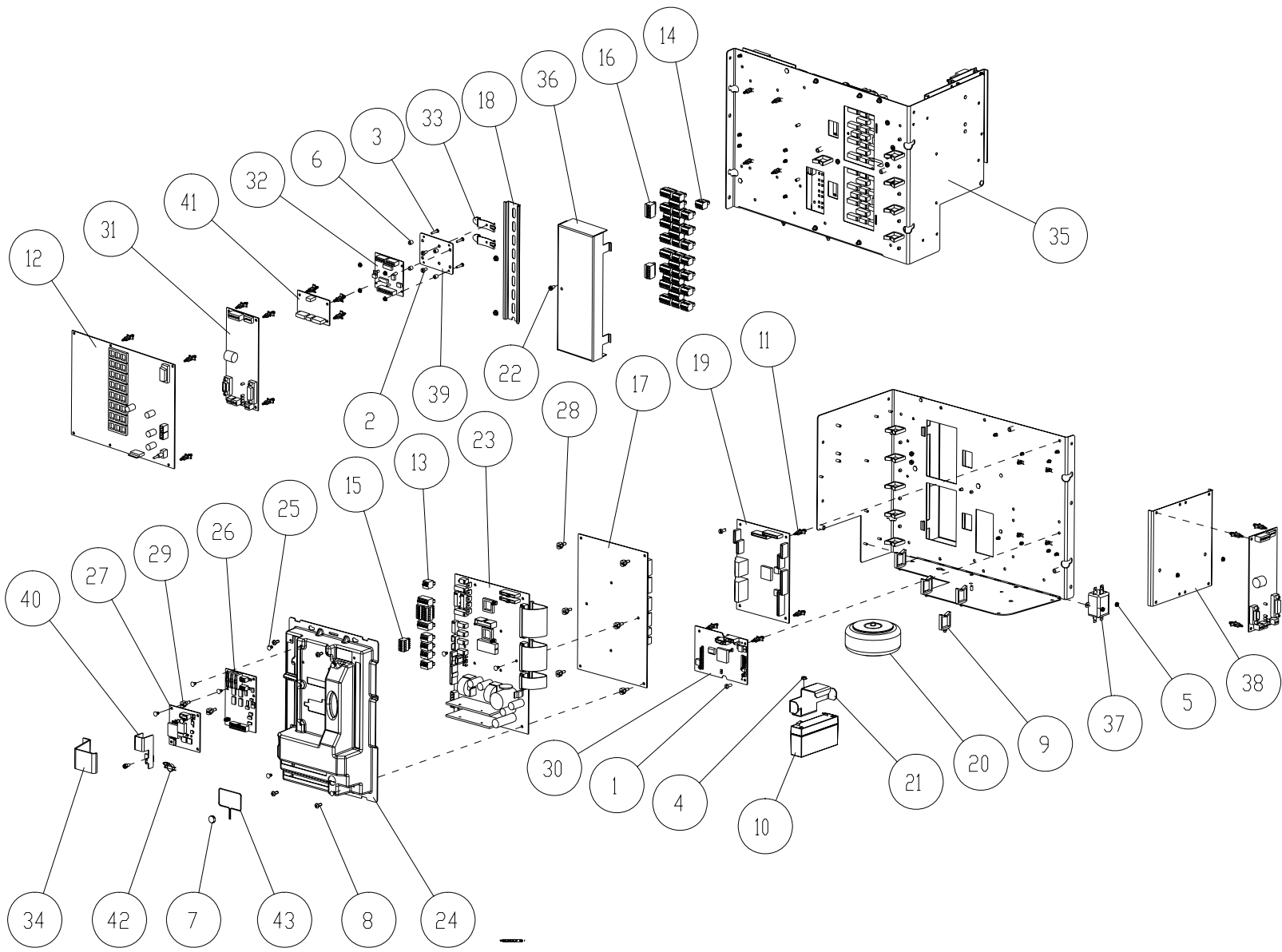


Issue A

5 DISPENSER ELECTRONICS

5.1 Q500T1 LPG WWC T1 Calculator Head Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw SCS M4x10	Vis FS M4x10	900014-009	
3	Plug M16 x 1,5 EEXE/IP66	Bouchon PG M16 x 1,5 EEXE...	900044-004	
4	O-ring 5,70x1,90	Joint Torique 5,70x1,90	900050-044	
5	Nut Hex M16 x 1,5 (Capri)	Ecrou Hex M16 x 1,5 (Capri)	900088-004	
6	Screw HSB M6x16	Vis M6x16	900795-002	
7	OPT Lamp Assembly	OPT Lamp Assembly	-	Refer to Signal Lamp Assemblies
8	Snap Cap White M6	Chapeau Vis Blanc M6	903192-001	
9	Gore Supra Vent	Gore Supra Vent	906628	
10	Rail TS-35 230Vac Assembly	Rail TS-35 230Vac Assembly	-	Refer to Shock Detection Rail Assy
11	Rail Mains Switch Assembly	Rail Mains Switch Assembly	-	Refer to Mains Switch Rail Assy
12	Centerplate	Centerplate	-	Refer to Centreplate Assembly
13	Rivet Cs Open End 3.2x6	Rivet Fraise Ouvert 3.2x6	909586-001	
14	Electronic Box Seal	Joint Tete Electro.	942596	
15	Front Cladding Single Box	Habillage Avant Tete Electr	942598	Standard
	Front Cladding Single Box SS	Habillage Avant Tete Electr SS	942599	Stainless Steel
	Front Cladding Single Box ACP	Habillage Avant Tete Electr ACP	942600	Additional Corrosion Protection
16	Calculator Door Blind Weld	Portillon Aveugle Soudé	-	Refer to Calc Door Assembly
17	Single Elec Welded Assy WWC	Tete Electr. Soudée Asm WWC	942550	
	Single Elec Welded Assy WWC OPT	Single Elec Welded Assy WWC OPT	943144	
18	Assy Calc door LCD Q500T1	Portillon LCD Q500T1 Equipe	-	Refer to Calc Door Assembly

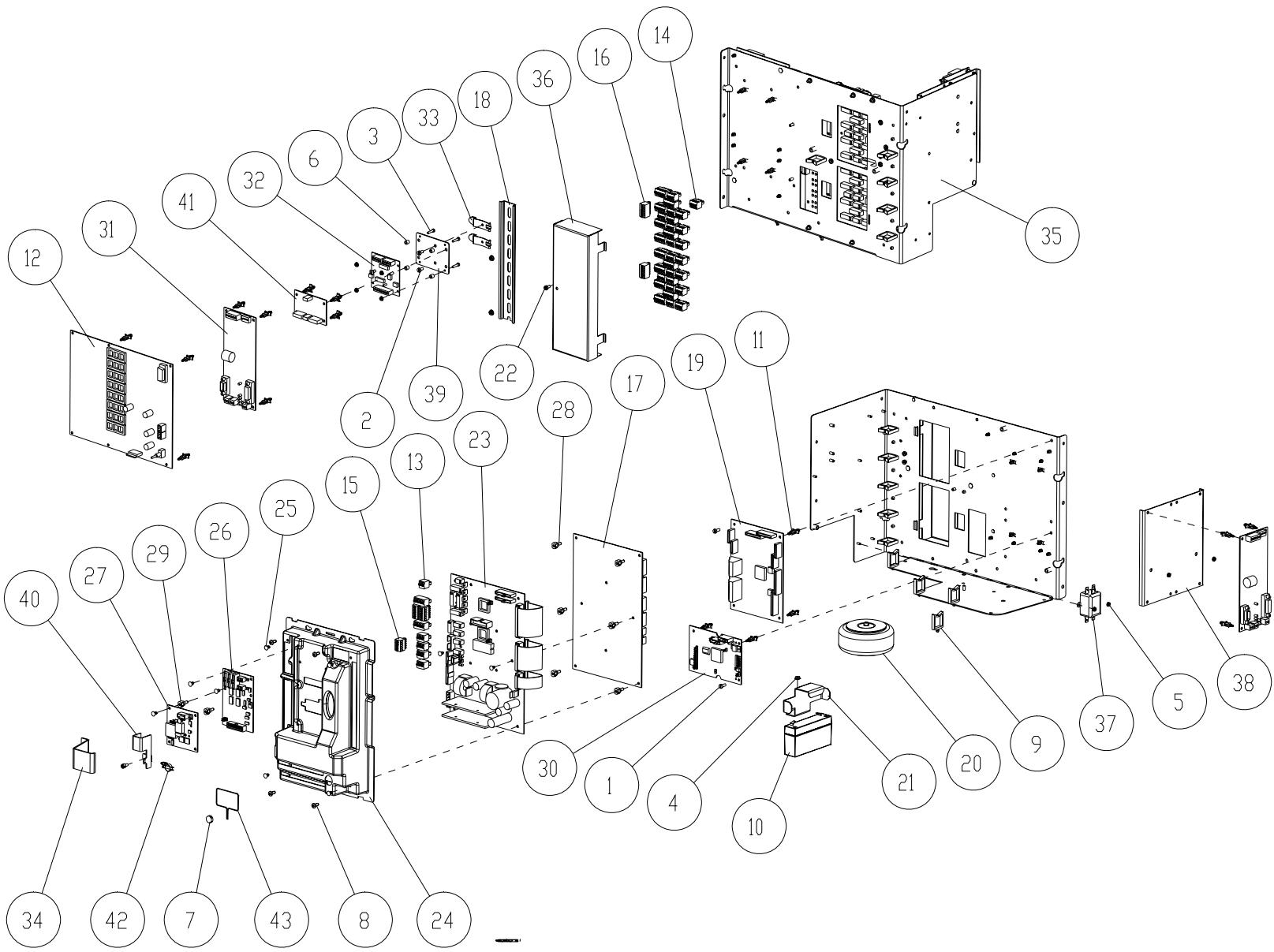


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5.2 Centreplate Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x10	Vis CS M4x10	900007-001	
2	Screw SCH M4x8	Vis CS M4x8	900007-003	
3	Screw SCH M3x14	Vis CS M3x14	900007-012	
4	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
5	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
6	Spacer 3.2x6x6	Entretoise Cyl 3.2x6x6	900024-013	
7	Sealing Lead	Plomb á Pincer	900040	
8	Screw CRRCH M4x10	Vis CBLZ M4x10	900052-003	
9	Wire Clip max entas. 19	Fixation câble Max Bundle 19	900058-001	
10	Battery 6V 1.2 Ah	Batterie 6V 1.2 Ah	900075-001	
11	Lock. Circuitboard Support 9,5mm	Tabl Circ Verrouil Sup. 9.5mm	900456-001	
12	Coca SOM Speaker Board	Coca SOM Haut Parl Monte	900550	
13	Connector pitch 3.81mm (3 pin)	Connecteur Pitch 3.81mm (3 pin)	900862-003	
14	Connector pitch 3.81mm (4 pin)	Connecteur Pitch 3.81mm (4 pin)	900862-004	
15	Connector pitch 3.81mm (5 pin)	Connecteur Pitch 3.81mm (5 pin)	900862-005	
16	Connector pitch 3.81mm (6 pin)	Connecteur Pitch 3.81mm (6 pin)	900862-006	
17	WWC IO Board V5	WWC IO Monte V5	901410	
18	Rail TS 35 I=215	Rail de bornier TS 35 I=215	901432-010	
19	OCB (Option Controller Board)	Le Controleur D'Option Monte	901538	
20	Toroidal Power Transformer	Toroidal Transformateur	901541	
21	Bracket Battery Calculator	Encadrer Calc de Batterie	901545	
22	M4x8 Sealing Screw 5-8 StZn	M4x8 Scellant Vis 5-8 StZn	901551-001	
23	WWC Mainboard V4	WWC Principal Monte V4	901553	
24	WWC-251-Cover	WWC-251-Couvrir	901559	
25	4MM Nylon Rivet	4mm Nylon Rive	901560-001	
26	PCB/WWC022/EIB/IO Ext Brd	PCB/WWC022/EIB/IO Ext Monte	901561	

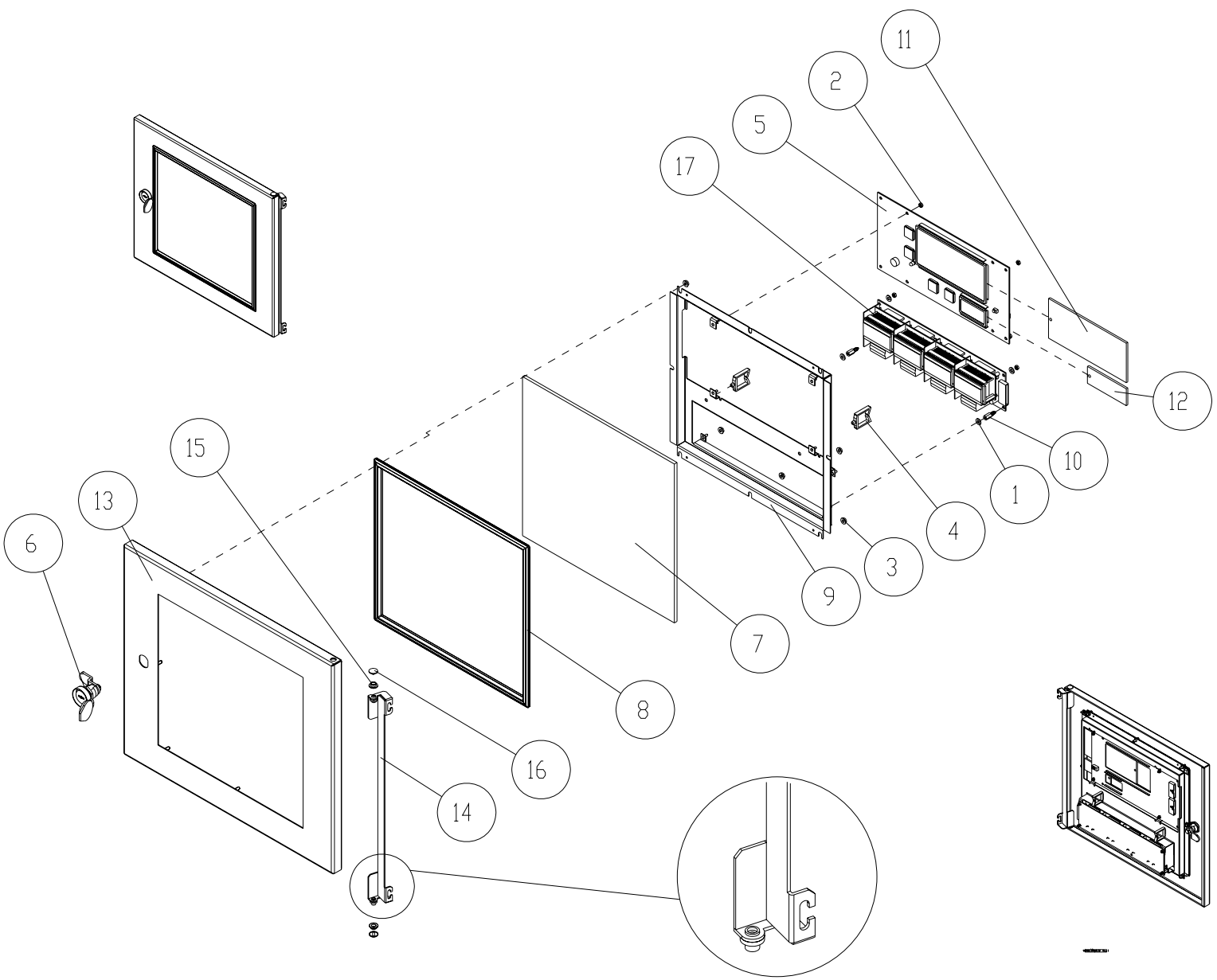
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5.2 Centreplate Assembly (Cont.)

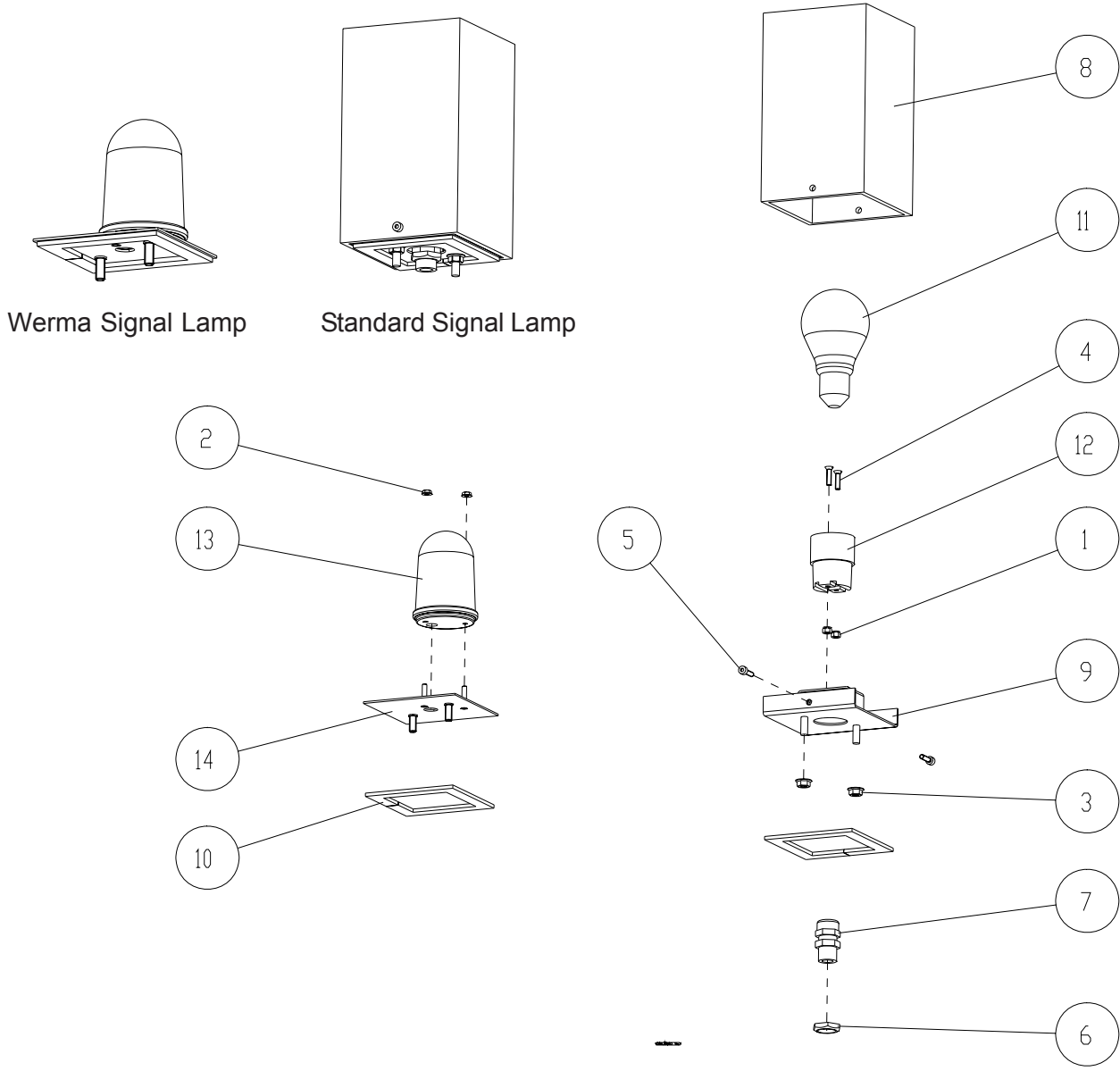
Item No	Description	Désignation Français	Part No	Comments
27	WWC Comms Board Gen	WWC Communication Monter Gen	901562	
28	9,5mm Nylon Board Support	9,5mm Nylon Monter Soutien	901563-001	
29	11mm Nylon Board Support	11mm Nylon Monter Soutien	901563-002	
30	User Access Module IR	Utilisateur Accede le Module IR	901565	
31	EPSI Interface ZSR/B 2 in 1	EPSI Interface ZSR/B 2 in 1	902958	
32	Metax Interface Board	Metax Interface Board	904667	
33	Clip Nut M4 - DIN Rail	Ecrou Clip M4 - Rail DIN	906193-001	
34	Mainboard Pulser Seal	Joint de Pulser de Mainboard	906486	
35	WWC-T1 Centre Plate v1 Assy	WWC-T1 Centre Plaquer v1 Assy	906536	
36	Sealing Cover IO	Couvercle Plombage Carte I/E	906644	
37	Netfilter Schaffner 1 Amp	Netfilter Schaffner 1 Amp	906645-001	
38	EPSI Bracket	EPSI Bracket	907748	
39	Mount Plate Dresser / Metax Board	Plat. Support Carte Dresser / Metax	907912	
40	Pulser Sealing Bracket	Pulser Sealing Bracket	9400025980	
41	PCB Dresser Link Switch	PCB Dresser Link Switch	9700800094	
42	Pulser Sealing Wire	Pulser Sealing Wire	-	
43	Sealing Wire	Métallique Cacheter	-	



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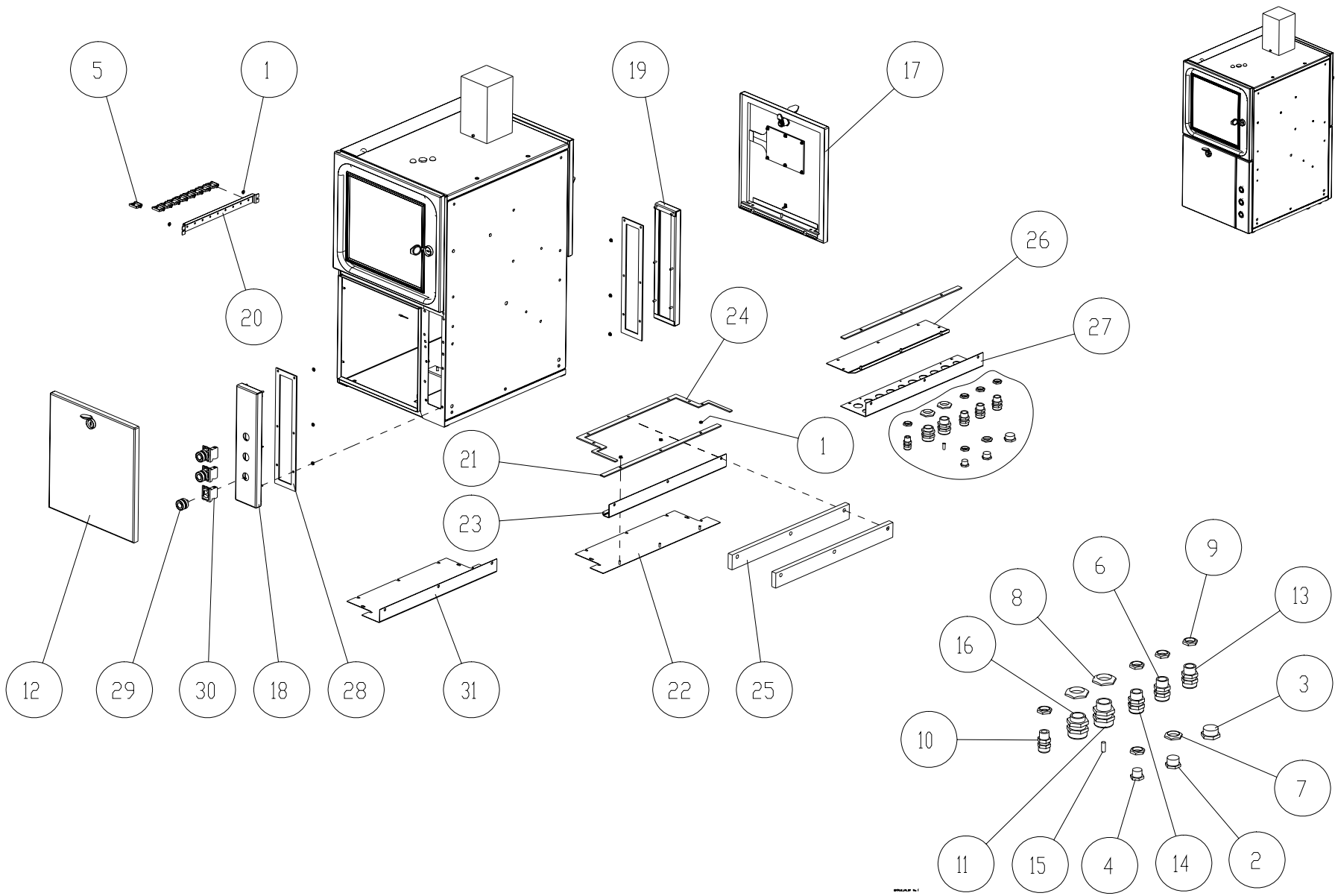
5.3 Calculator Door Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M4	Rondelle PI M4	900008-001	
2	Nut Hex M3	Ecrou H M3	900011-008	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
4	Wire Clip max entas. 19	Fixation câble Max Bundle 19	900058-001	
5	Cust Sales Display LCD	Afficheur prix de vente LCD	904788	
6	Lock Assy	Lock Assy	-	Refer to Lock Assembly
7	Glass Q500T1	Glace Q500T1	905873	
8	Calc Door Seal Moulded Q500T1	Joint Porte Calc Moule Q500T1	905874	
9	LCD back plate Q500T1	Support LCD Q500T1	905875	
10	Standoff Locking M3 6x10	Entretoise clip M3 6x10	906122-001	
11	CSD LCD Diffuser VAM	Diffuseur À LCD DE CSD VAM	906604-001	
12	CSD LCD Diffuser PPU	Diffuseur LCD DE CSD PPU	906604-002	
13	Calculator Door Weld Assy	Portillon soudé Asm	942561	
	Calculator Door Blind Weld Assy	Portillon Aveugle soudé Asm	942942	
	Calculator Door ACP Weld Assy	Portillon soudé ACP Asm	942943	
	Calculator Door Blind ACP Weld Assy	Portillon Aveugle soudé ACP Asm	942944	
14	Hinge Inner Assy	Charniere Asm	942566	
15	Snap Bush Ø6	Coussinet Ø6	942604	
16	Cover Skiffy Ø12	Capuchon Skiffy Ø12	943091	
17	PCB assy/OPU/1 PR Right EMT	PCB asm/OPU/1 PR D EMT	906897-002	
	PCB assy/OPU/2 PR Left EMT	PCB asm/OPU/2 PR G EMT	906897-003	
	PCB assy/OPU/2 PR Right EMT	PCB asm/OPU/2 PR D EMT	906897-004	
	PCB assy/OPU/3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	906897-005	
	PCB assy/OPU/4 PR Left EMT	PCB asm/OPU/4 PR G EMT	906897-006	
	PCB assy/OPU/4 PR Right EMT	PCB asm/OPU/4 PR D EMT	906897-007	
	PCB assy/OPU/5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	906897-008	
	PCB assy/OPU/2nd PR L/R EMT	PCB asm/OPU/2eme PR G/D EMT	906897-009	
	PCB assy/OPU/1 PR L+1 PR R EMT	PCB asm/OPU/1 PR G+1 PR D EMT	906897-010	



5.4 Signal Lamp Assemblies

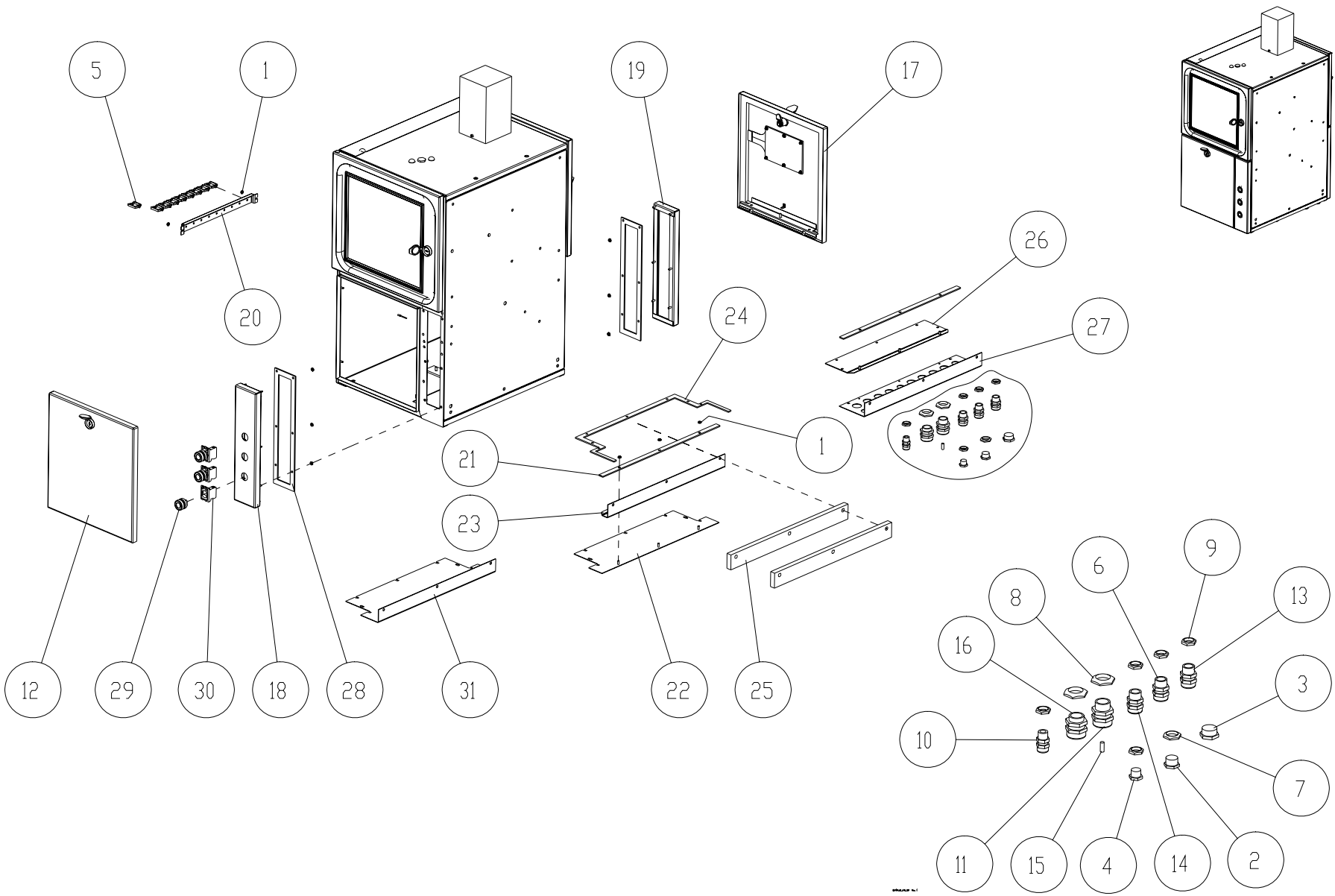
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M4	Ecrou Frein M4	900012-004	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Screw SCS M4x16	Vis FS M4x16	900014-007	
5	Screw HSHC M4x16	Vis CHC M4x16	900017-014	
6	Nut Hex M16 x 1,5 (Capri)	Ecrou Hex M16 x 1,5 (Capri)	900088-004	
7	GLAND M16X1,5 Eexell 5-8mm	PE M16X1,5 Eexell/ 5-8mm	900362-001	
8	OPT Lamp Cover OPT Lamp Cover Red	OPT Abot Jour OPT Couvre Lampe Rouge	902307 943090	Standard Red
9	OPT Lamp Base	OPT Garniture	902308	
10	OPT Lamp Seal	OPT Etancheteite	902309	
11	Lamp	Lampe	902312-001	
12	E27 Lampfitting	E27 Garniture	902313-001	
13	Werma 210 Signal Lamp	Werma 210 Signal Lamp	943466	
14	Werma Lamp Adaptor	Werma Lamp Adaptor	943467	



5.5 DIT Box Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Plug M20x1.5 EEXE/IP66	Bouchon PG M20x1,5 EEXE/IP66	900044-001	
3	Plug M25x1.5 EEXE/IP66	Bouchon PG M25x1,5 EEXE/IP66	900044-002	
4	Plug M16x1,5 EEXE/IP66	Bouchon PG M16x1,5 EEXE/IP66	900044-004	
5	Wire Clip max entas. 19	Fixation câble Max Bundle 19	900058-001	
6	Gland M20x1.5 EEXE 8-13mm	PE M20x1.5 EEXE 8-13mm	900064-001	
7	Nut Hex M20 x 1,5 (Bartec)	Ecrou Hex M20 x 1,5 (Bartec)	900088-001	
8	Nut Hex M25 x 1,5 (Bartec)	Ecrou Hex M25 x 1,5 (Bartec)	900088-002	
9	Nut Hex M16 x 1,5 (Capri)	Ecrou Hex M16 x 1,5 (Capri)	900088-004	
10	Gland M16X1,5 Eexell 5-8mm	PE M16X1,5 Eexell/ 5-8mm	900362-001	
11	Gland M25x1.5 IP66 4x6mm	PE M25x1.5 IP66 4x6mm	900363-001	
12	DIT Blank Door Assy	DIT Asm Porte Aveugle	-	Refer to DIT Door Assemblies
13	Gland M20x1.5 EEXE IP66-68	PE M20x1.5 EEXE IP66-68	901404-001	
14	Gland M20x1.5 EEXE 5-9mm	PE M20x1.5 EEXE 5-9mm	901478-001	
15	Blind Plug 6.5x17	Bouchon PE 6.5x17	901975-001	
16	Gland M25x1.5 EEXE 8-17mm	Gland M25x1.5 EEXE 8-17mm	901990-001	
17	DIT Door Preset Keypad Assy	DIT Porte Bloc de Touche Asm	-	Refer to DIT Door Assemblies
18	Calc Box DIT Clad PB Assy	DIT Placage PB Assy	907805	
	Calc Box DIT Clad PB Assy ACP	DIT Placage PB Assy ACP	907802	Additional Corrosion Protection
19	Calc Box DIT Clad Assy	DIT Placage Assy	907807	
	Calc Box DIT Clad Assy ACP	DIT Placage Assy ACP	907800	Additional Corrosion Protection
20	Cable Support	Support de Cable	906485	
21	Box Vapour Barrier 2 Gasket	Boite Barrier de Vapeur Joint	907298	
22	Box Vapour Barrier 1 Assy	Boite Barrier de Vapeur 1	907300	
23	Box Vapour Barrier 1	Boite Barreir de Vapeur	907301	
24	Box Vapour Barrier Gasket	Joint de Vapeur	907302	
25	Vapour Gasket	Joint de Vapeur	907303	

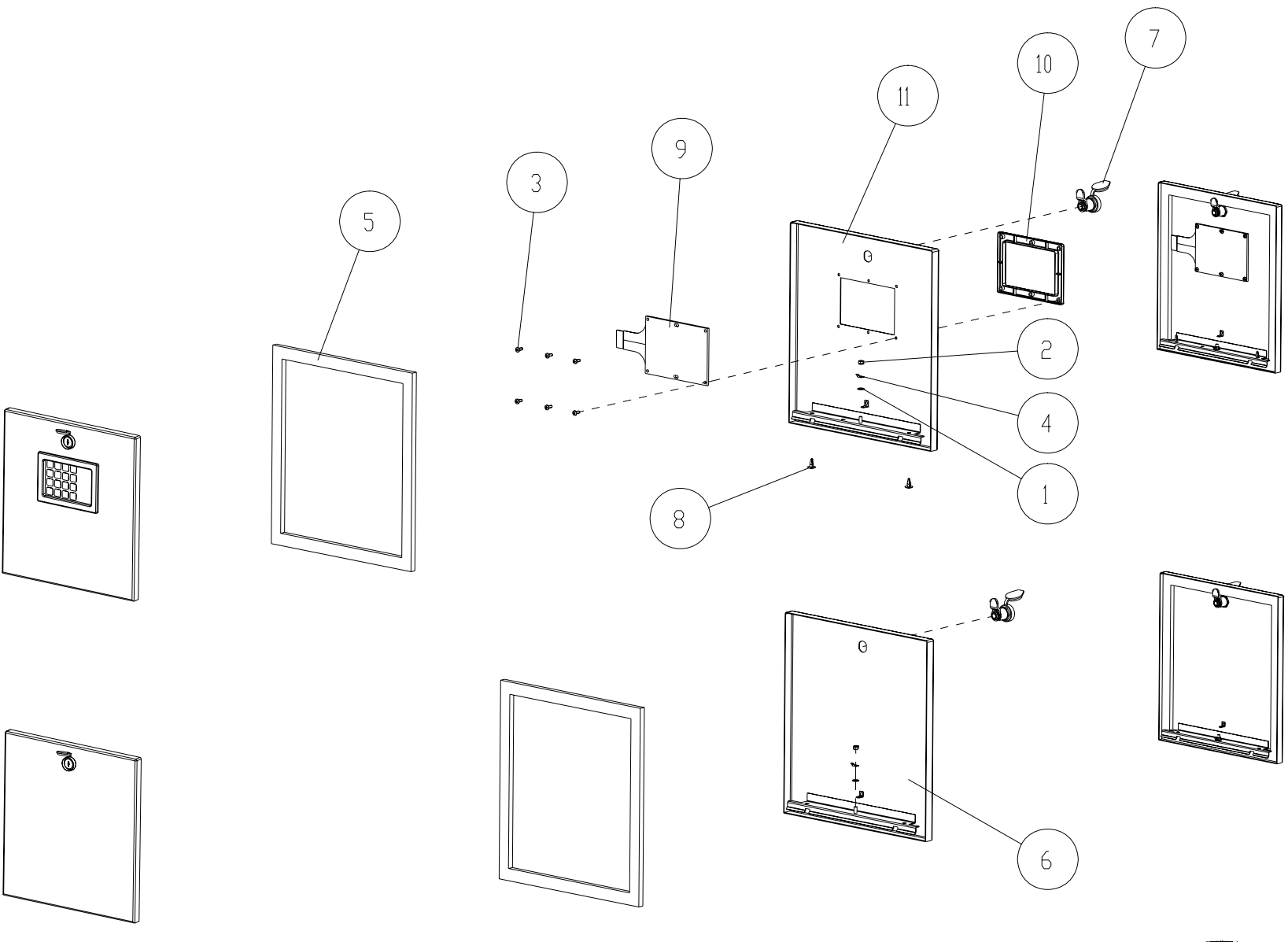
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5.5 DIT Box Assembly (Cont.)

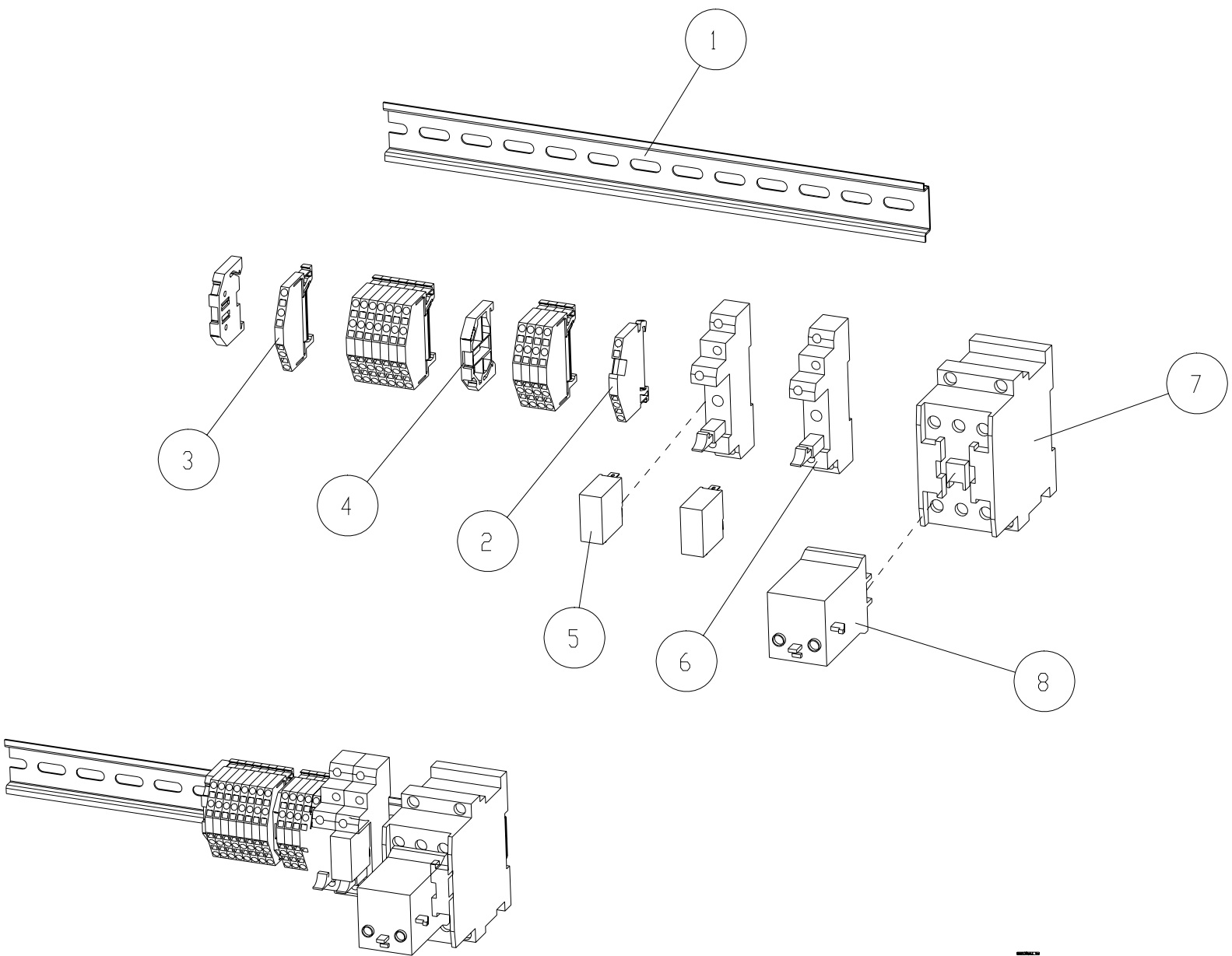
Item No	Description	Désignation Français	Part No	Comments
26	Vapour Barrier 2	Barrier de Vapeur 2	907430	
27	Gland Plate Assy	Barrier de Vapeur Gland Assy	907431	
28	DIT Cladding Gasket	Joint DIT Clad	907799	
29	Button Black	Bouton Noir	908603-001	
30	Switch Body ZB5	Corps Contact ZB5	908604	
31	Box Vapour Barrier Complete	Barriere de Vapeur Complete	909541	



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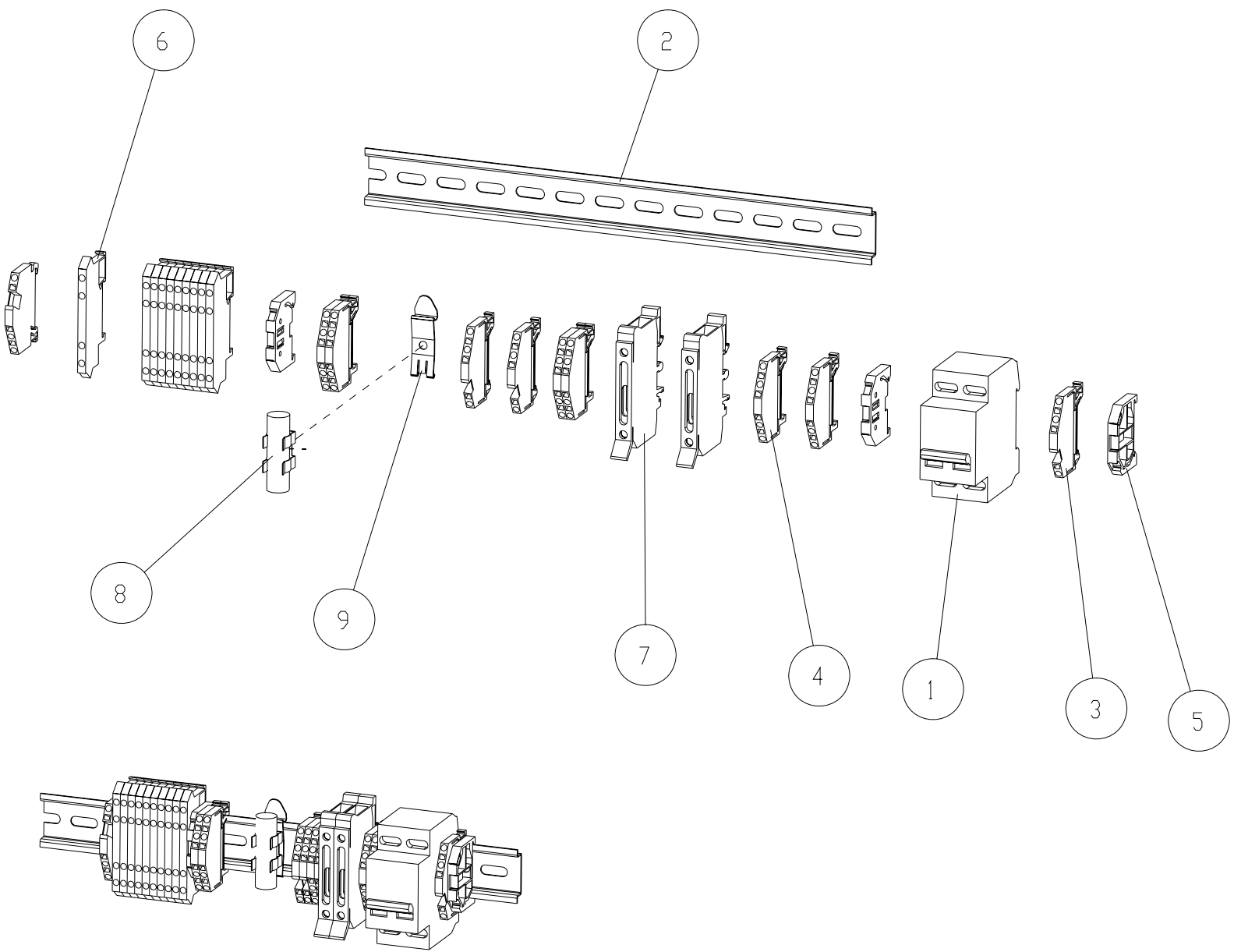
5.6 DIT Door Assemblies

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M6	Rondelle a Dents DEC M6	900009-004	
2	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
3	Screw CRRCH M4x10	Vis CBLZ M4x10	900052-003	
4	Ground Tag M5, 1/4" Fast-on	Tag sol M5, 1/4" Rapide	900353	
5	Q500T DIT Blind Door Seal	Q500T DIT Joint Porte Aveugle	900676	
6	Q500T DIT Blind Door Assy	Q500T DIT Asm Porte Aveugle	900813	
7	Assembly Lock DIT Blind Door	Ass Serrure Porte DIT Aveugle	-	Refer to Lock Assembly
8	Drive Fastener D5/13.5 T3 NA	Att à pression D5/13.5 E3 NA	901058-001	
9	Membrane Keyboard 4X4	Clavier Prede 4X4	902470	
10	Bezel Preset Keypad	Clavier prédé Couvercle	942247	
11	DIT Door Bezel Keypad ACP Assy	Porte DIT Clav Protégé ACP Asm	944140	



5.7 Main Rail Switch Assembly

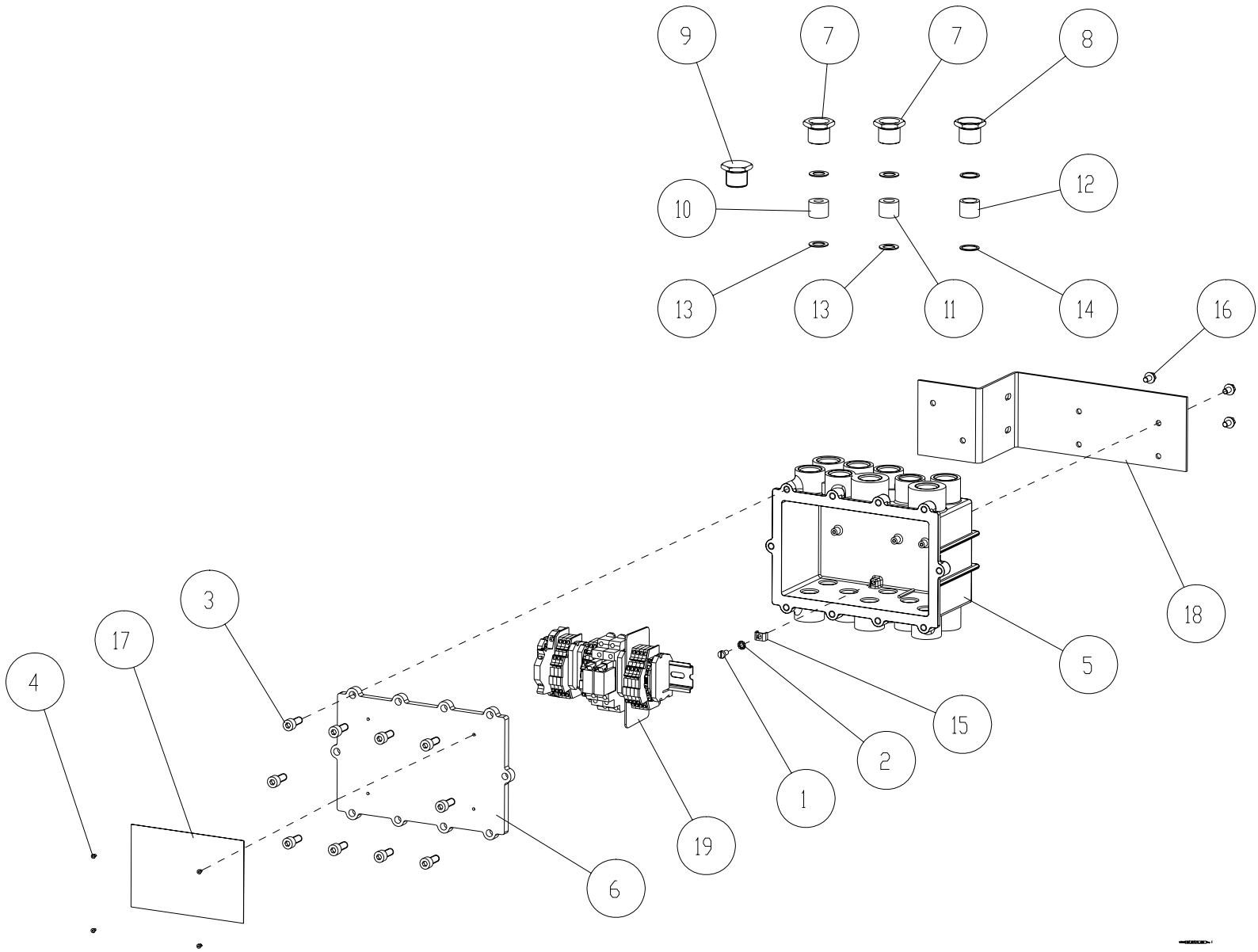
Item No	Description	Désignation Français	Part No	Comments
1	Rail TS 35 I=320	Rail de bornier TS 35 I=320	901432-004	
2	Clamps 3 ways 2.5QMM Green/Yellow	Borne 3 voies 2.5QMM Vert/Jaune	901710-001	
3	Clamps 4 ways 2.5QMM Grey	Borne 4 voies 2.5 QMM Gris	901711-001	
4	Endstop Grey 35mm 249-116	Butée arrêt grise 35mm 249-116	901712-001	
5	Relay 10A Single Pole Contact	Relais Contact Simple Pôle 10A	902236-001	
6	Relay Socket TS35 Rail 10A 25	Cavité Relais TS35 Rail 10A 25	902237-001	
7	Contacteur DIL 0M 230V 50Hz	Contacteur DIL 0M 230V 50Hz	905174-001	
8	Mechanical Latching Module 230V 50Hz	Mechanical Latching Module 230V 50Hz	905175-001	



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5.8 Shock Detection Rail Assembly

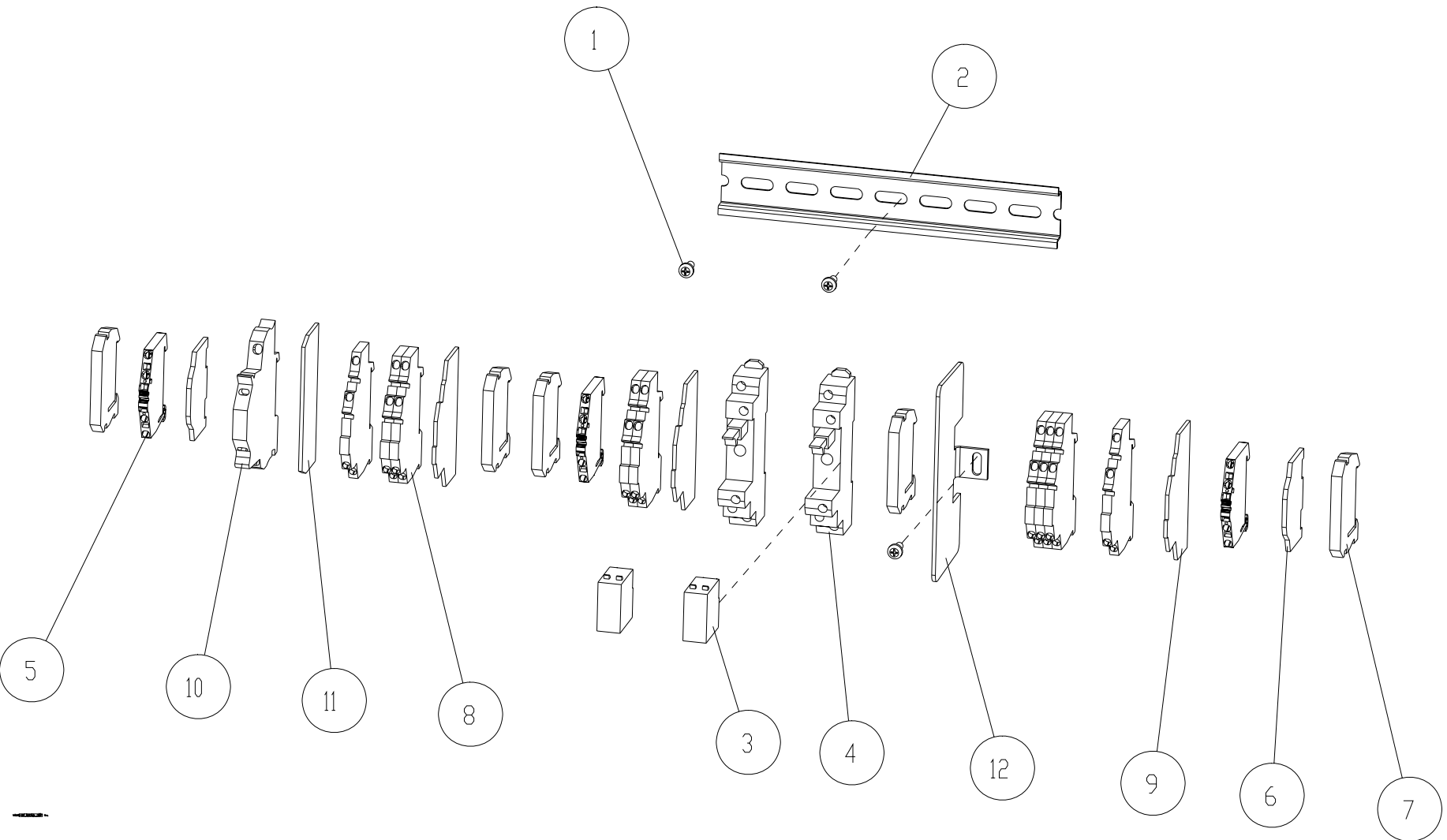
Item No	Description	Désignation Français	Part No	Comments
1	Main Switch	Commutation Principal	900074	
2	Rail TS 35 I=320	Rail de bornier TS 35 I=320	901432-004	
3	Clamps 3 ways 2.5QMM Green/Yellow	Borne 3 voies 2.5QMM Vert/Jaune	901710-001	
4	Clamps 4 ways 2.5QMM Grey	Borne 4 voies 2.5 QMM Gris	901711-001	
5	Endstop Grey 35mm 249-116	Butée Arrêt Grise 35mm 249-116	901712-001	
6	Terminal Clamp 2x2 way	Terminal Clamp 2x2 way	901714-001	
7	Fuse Holder for 6,3x32 Fuse	Porte Fusible Section 6.3x32	903482	
8	Vibration Contact	Vibration Contact	905176	
9	Din Rail Snap on Bracket	Din Rail Snap on Bracket	906275-002	



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5.9 Junction Box

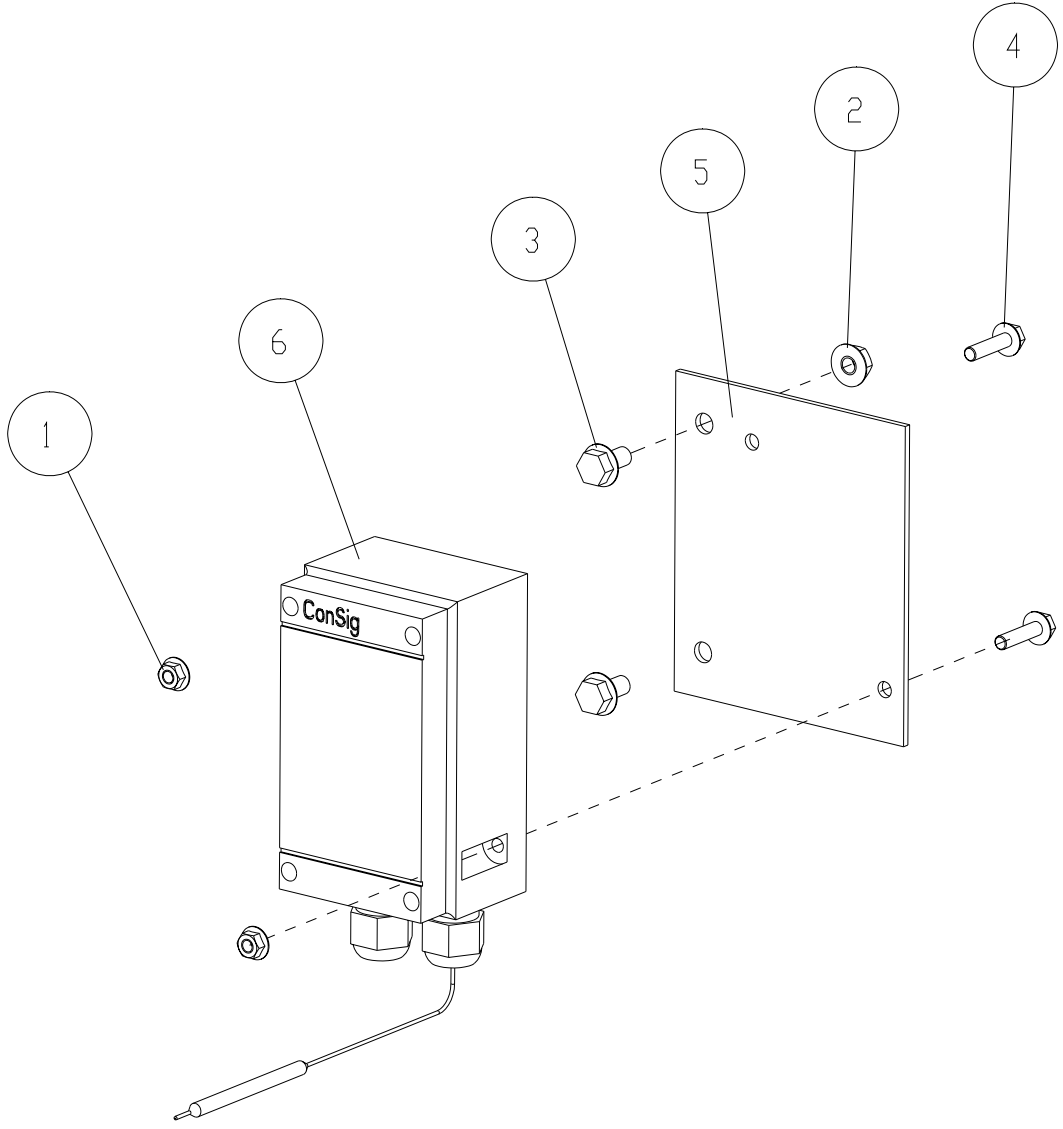
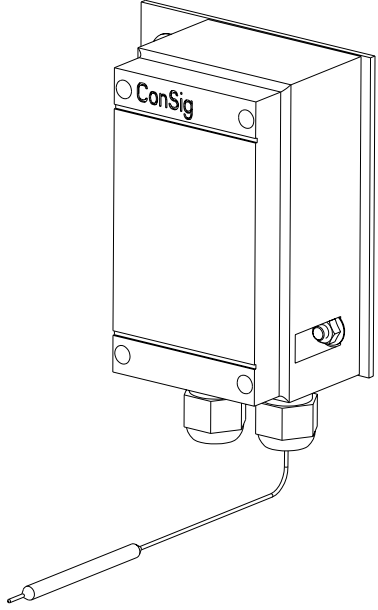
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M5x10	Vis CS M5x10	900007-004	
2	Washer Serr Lock Ext M5	Rondelle a Dents DEC M5	900009-005	
3	Screw HSHC M8x20	Vis CHC M8x20	900017-002	
4	Rivet Rokut	Rivet Expansion	900022-002	
5	Junction Box-M2000-series	Boitier de connection-M2000	900104	
6	Cover Junction Box M2000	Couvercle boitier connection	900105	
7	Gland Exd M25 14mm	Ecrou P.E.	900108	
8	Gland Exd M25 19mm	Ecrou P.E.	900109	
9	Blindstop Exd M25	Bouchon	900110	
10	Grommet 8-11	Bouchon	900111	
11	Grommet 10-13	Bouchon	900112	
12	Grommet 14-17	Bouchon	900113	
13	Back-up Ring 8-13	Rondelle Acier	900114	
14	Back-up Ring 14-17	Rondelle Acier	900115	
15	Grounding Clamp	Borne de Mise la Terre	900118	
16	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
17	Typeplate Junction Box	Plaque no serie Boitier	901689-148	
18	Bracket Junction Box	Support Boitier	909106	
19	Main J Box Internal Components	Main J Box Internal Components	-	Refer to Main JB Int. Comp. Asm



Issue A

5.9.1 MAIN JUNCTION BOX INTERNAL COMPONENTS

Item No	Description	Désignation Français	Part No	Comments
1	Screw CRRCHTF M4x10	Autotara Cyl Bomb Emp Cru M4x10	900078-004	
2	Rail TS 35 I=190	Rail de Bornier TS 35 I=190	901432-012	
3	Relay 10A Single Pole Contact	Relais Contact Simple Pôle 10A	902236-001	
4	Relay Socket TS35 Rail 10A 25	Cavité Relais TS35 Rail 10A 25	902237-001	
5	Clamp 4 x 0,13 - 2,50 mm gn/ye	Borne 4x0.13-2.50mm Vert/Jaune	909416-002	
6	End Plate Orange	Plaque Separation Orange	909416-003	
7	End Bracket Beige	Extremite Stop Beige	909416-006	
8	Clamp 2x2x 0.13-2.50mm Beige	Borne 2x2x 0.13-2.50mm Beige	909416-013	
9	End Plate Orange for Clamp	Plaque Separa Orange pour	909416-014	
10	Clamp Fuse 5x20 2,50mm Beige	Borne Fusible 5x20 2.50mm Beige	909416-015	
11	End Plate Beige for Clamp	Plaque Separation Beige pour	909416-016	
12	Divider Plate Junction Box	Plaque de Séparation Jonction Box	940340	



Issue A

5.10 Fire Detection Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
3	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
4	Screw HFHSL M6x25	Vis Hex Br Autobl M6x25	900016-014	
5	Fire Detector Mounting Brkt	Support de Detecteur	903263	
6	Fire Detector - Stahl	Detection de Feu	903291	

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Issue A

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