



Quantium T Range LPG



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 - Hose Management

This section contains the part identification list for the dispenser hose management.

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.

1.2 Product Scope

The equipment and models covered by the contents of this manual are: -

The Quantum T LPG range of dispensers including Model numbers Q300T LPG 1-1i, Q300T LPG 1-2, Q500T LPG 1-1, Q500T LPG 1-2 and Q500T LPG 4-8 and Q500T LPG 5-10 multi-product dispensers. For information on Quantum multi-product dispensers refer also to the relevant manual as provided by Tokheim.

All dispensers in the Quantum T LPG range use the same standard sub-assemblies and offer a wide range of configurations.

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 submerged pump (if applicable) 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 unattended 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
	Do not spill fuel on the ground	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 98/98/37/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.

The production and end test is controlled through the Quality Assurance systems within the Tokheim Manufacturing Centres.

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

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 50014.

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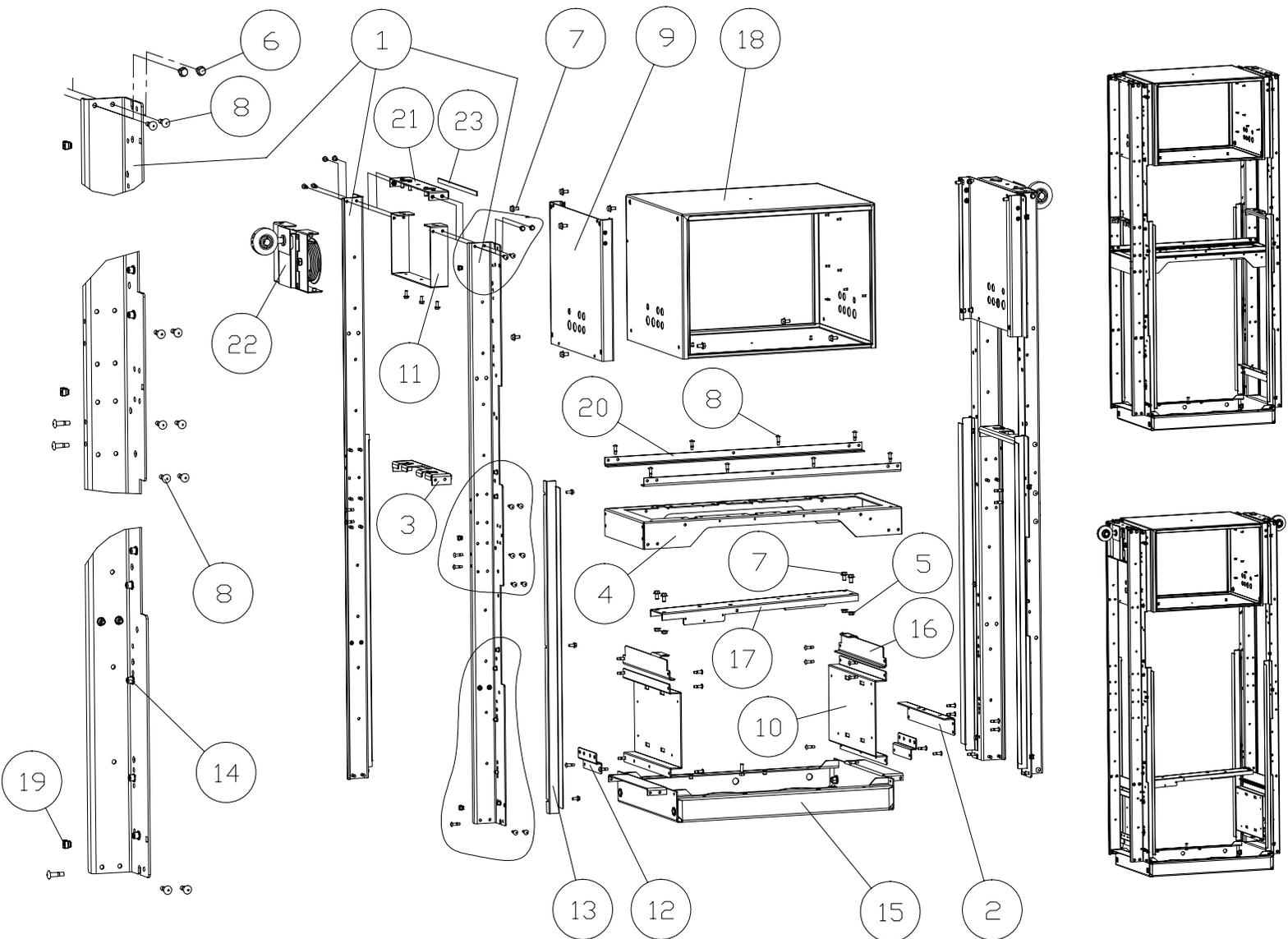
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2.6 Q500T LPG Integrated Cladding Assembly 2-16

2.7 Hydraulic Chair Assembly 2-18

2.8 Lock Assembly 2-20

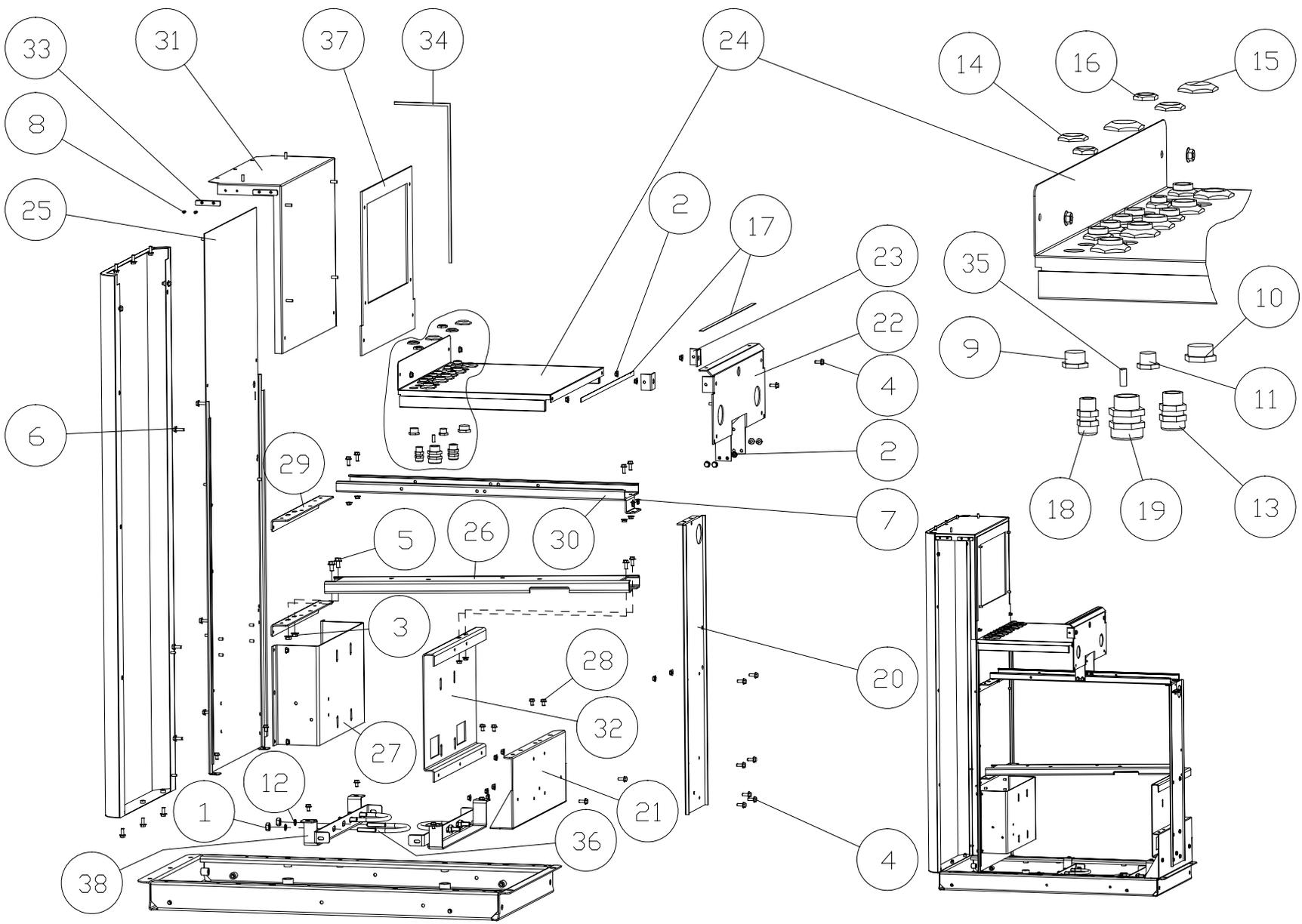
2.9 Hinge Assembly (Q500T Integrated only) 2-22



Issue A

2.1 Q300T LPG Frame Assembly

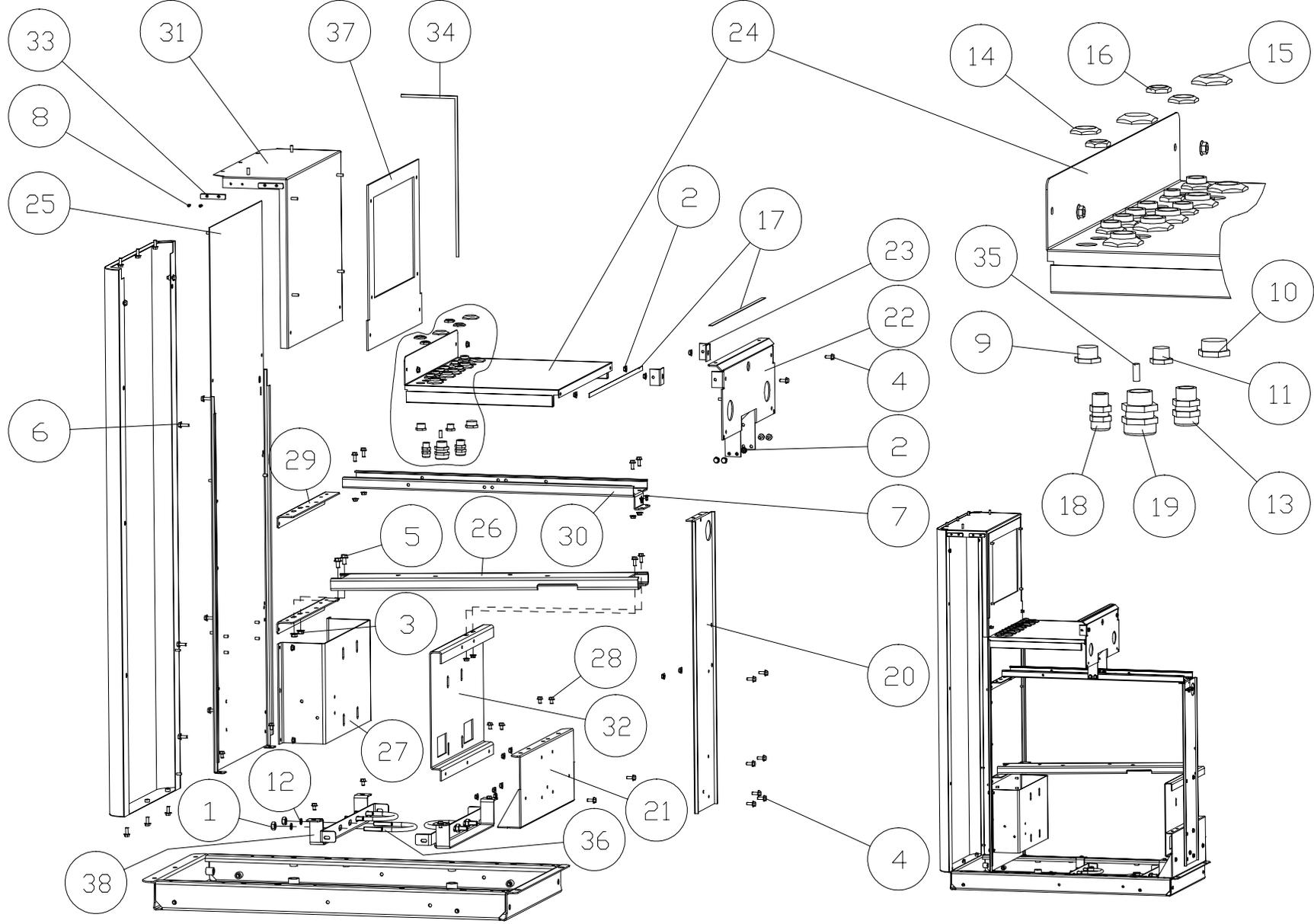
Item No	Description	Désignation Français	Part No	Comments
1	Bracket - vertical	Montant vertical	900001	
2	Bracket - pump end	Support Groupe de Pompage	900003	
3	Bracket - pipe connectors	Support - raccord tubes	900004	
4	Frame meters bracket	Cadre support mesureurs	900005	
5	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
6	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
7	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
8	Rivet Blind Domed 6.5x24.8	Rivet Pop Bomb 6.5x24.8	900025-002	
9	Airgap Assy	Air gap Asm	900179	
10	Bracket - Air separator & meter	Support degazeur et mesureur	900211	LPG only
11	Bracket - Retractor	Support enrouleur	900216	LPG only
12	Bracket - Meter/hose pipe	Maintien tubulure mes/flex	900220	LPG only
13	Gutter - Vertical	Gouttiere verticale	900306	
14	Nut Insert M6	Ecrou Avdel AF M6	900479-003	
15	Drip tray welded Std Base Frame LPG	Bac de récup égoutture soudé Embase ensemble GPL	900480 900213	LPG only
16	Bracket - meter support	Traverse fixation support mes	900602	LPG only
17	Bracket - Meter	Support mesureur	900641	LPG only
18	Head assy Head OPT/Preset keypad options Head - mechanical register models	Tête asm Tête OPT asm Tête mecanique 300T asm	900658 902481 902100	
19	Nut Cage M5	Ecrou Cage M5	900796-001	
20	Stiffener frame meter bracket	Renfort cadre support mesureur	900838	
21	Bracket assy - top rigid mast Bracket assy - top spring mast Bracket assy-top spring mast 1s	Tôle ferm mât canne rigide asm Tôle ferm mât canne flex asm Tôle ferm mât can. flex 1f asm	900840 900307 902956	2-4 Model only
22	Retractor assy complete	Système rétraction flexible eq	-	Refer LPG Parts Manual Page 3-16
23	Gasket - top bracket	Joint sup canne flex/rigide	903286	



2.2 Q500T 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 M6	Ecrou Bride Autobloquant M6	900013-003	
3	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
4	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
5	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
6	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
7	Rivet Expansion	Rivet Rokut	900022-001	
8	Rivet Blind Domed 3.2x8.0	Rivet Pop Bomb 3.2x8.0	900025-001	
9	Plug M20x1.5 EEXE/IP66	Bouchon PG M20 x 1.5 EEXE/IP66	900044-001	
10	Plug M25x1.5 EEXE/IP66	Bouchon PG M25 x 1.5 EEXE/IP66	900044-002	
11	Plug M16x1.5 EEXE/IP66	Bouchon PG M16 x 1.5 EEXE/IP66	900044-004	
12	Washer Spring Lock M8	Rondelle Elast W 8	900051-001	
13	Gland M20x1.5 Eexe II/IP66-68 1x 8-13mm	PE M20X1.5 Eexe II/IP66-68 1x 8-13mm	900064-001	
14	Nut Hex M20 x 1.5 (Bartec)	Ecrou Hex M20 x 1.5 (Bartec)	900088-001	
15	Nut Hex M25 x 1.5 (Bartec)	Ecrou Hex M25 x 1.5 (Bartec)	900088-002	
16	Nut Hex M16 x 1.5 (Capri)	Ecrou Hex M16 x 1.5 (Capri)	900088-004	
17	Seal vapour barrier	Joint barrière de vapeur	900351	
18	Gland M16X1.5 Eexell/IP66-68 1x 5-8mm	PE M16X1.5 Eexell/IP66-68 1x 5-8mm	900362-001	
19	Gland M25X1.5 IP66 4x 6mm	PE M25X1.5 IP66 4x 6mm	900363-001	
20	Vertical Frame Hydr End	Chassis Vertic Extr Hydr	900369	
21	Pump Support End	Extr Support Pompe	900371	
22	Frame Vertical Support VB	Chassis Vertical Support VB	900372	
23	Bracket VB	Support VB	900373	
24	Vapour Barrier OB Q500T Vapour Barrier LPG Int	Ecran Vapeur OB Q500T Ecran Vapeur GPL Int	900418 903234	
25	Fire Barrier Q500T LPG	Ecran feu Q500T GPL	903325	
26	Bracket Meter Support LPG	Traverse Support Mesureur GPL	900705	

(Cont.)



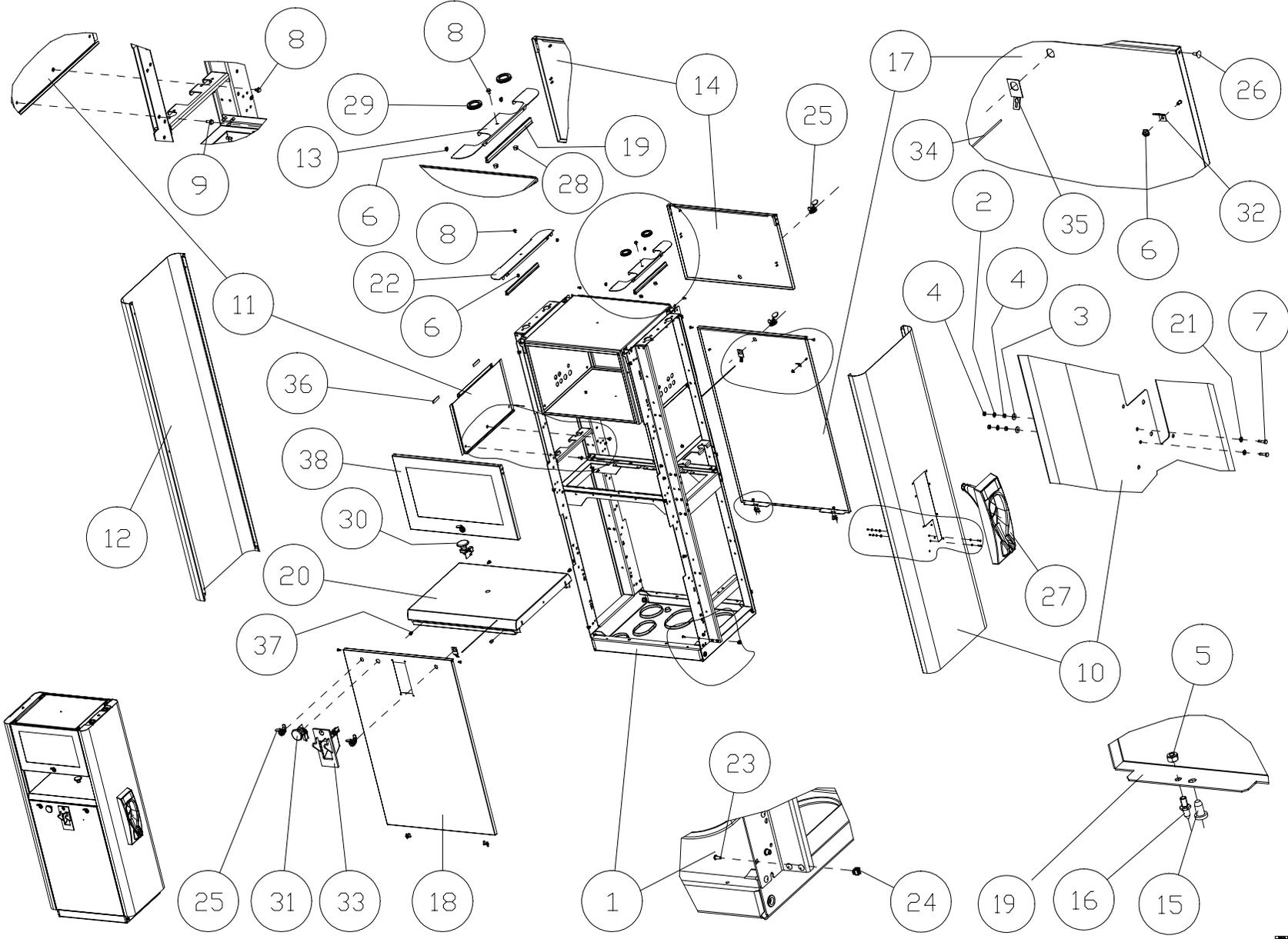
2.2 Q500T LPG Frame Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
27	Bkt Gas Sep Support HMS Side	Support dégazeur côté RDF	900707	
28	Screw HFHTF M6x10	Vis Hex Taraudeuse M6x10	900708-001	
29	Bracket Hyd Support LPG HMS	Support Hydraulique GPL RDF	900750	
30	Horizontal Frame Hydr LPG	Châssis Horizont Hydr GPL	900887	
31	Vapour Barrier 1 column	Ecran Vapeur 1 Colonne	900908	
32	Bkt Gas Sep Support LPG	Support dégazeur GPL	901134	
33	Connection block nozzlepanel	Connecteur pour Pann Habil	901527	
34	Vapour Barrier Seal	Joint pour HMS	901535	
35	Blindplug 6.5x17	Bouchon PE 6.5x17	901975-001	
36	U-bolt 2"1/2	Collier 2"1/2	903160-003	
37	Gasket DIT/Vertical Barrier	Joint DIT/Barriere Verticale	903458	
38	Bracket LPG shear valve	Support GPL raccord cassant	903502	

INFORMATION TO BE INSERTED

2.3 Q500T LPG Integrated Frame Assembly

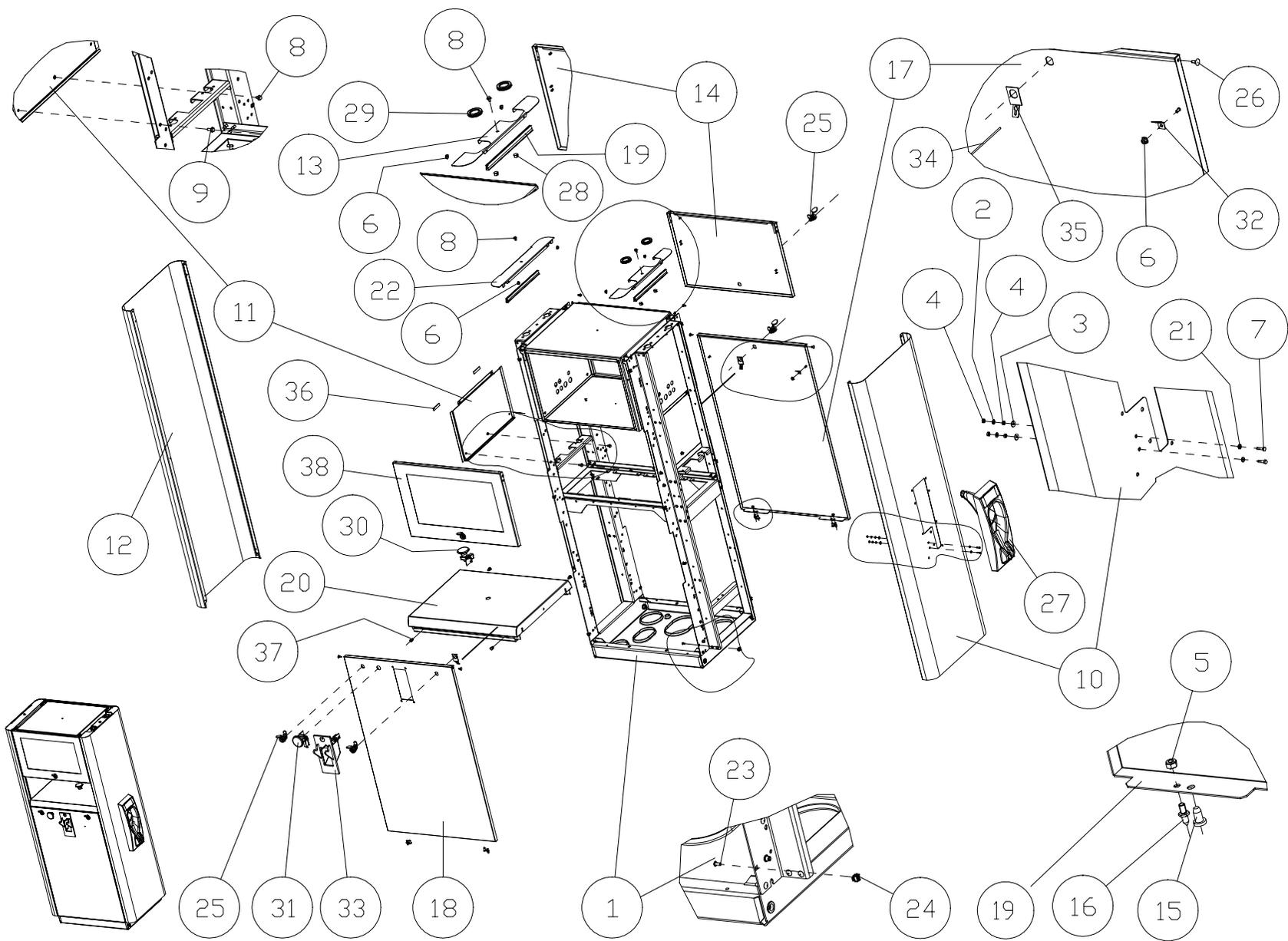
INFORMATION TO BE INSERTED



2.4 Q300T LPG Cladding Assembly

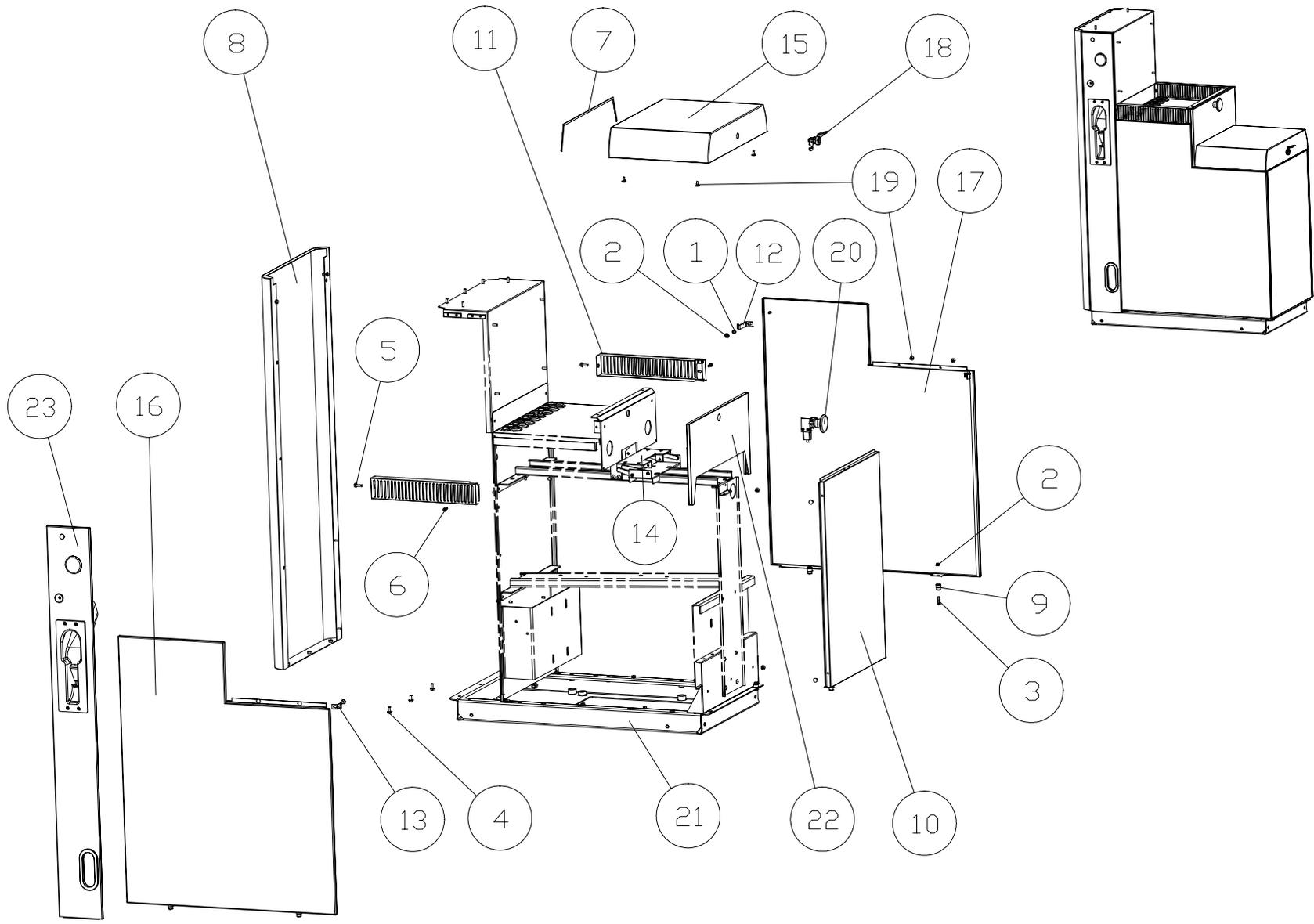
Item No	Description	Désignation Français	Part No	Comments
1	Frame Q300T assembly	Chassis Q300T asm	-	Refer to Page 2-2
2	Washer PI M4	Rondelle PI M4	900008-004	
3	Washer PI M4 nylon	Rondelle PI M4 nylon	900008-016	
4	Nut Hex M4	Ecrou H M4	900011-006	
5	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-008	
6	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
7	Screw HH M4x16	Vis H M4x16	900015-013	
8	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
9	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
10	Column cover nozzle boot Std	Couvre mât repose buse Std	900139	
	Column cover ELAFLEX nozzle	Couvre mât GPL RB ELAFLEX pein	900201	LPG only
	Column cover BUTAGAZ nozzle	Couvre Mat RB BUTAGAZ GPL	900247	LPG only
	Column cover NETTUNO T4 nozzle	Couvre mat RB NETTUNO T4	900615	LPG only
	Column cover LG 30	Couvre mât 1 RB LG 30	902442	LPG only
11	Lateral inside cladding assy - blank	Habillage int colonne asm	900153	
	Lateral inside cladding assy - VR gauge	Habillage int colonne asm - jauge ss	902824	
	Panel inner column - serial plate	Hab. int. mat PI. ident asm	903009	
	Panel inner column - VR gauge + serial plate	Hab int mat Jauge/PI ident asm	903011	
12	Blank column cover	Couvre mat aveugle peint	900203	
	Column cover LPG blank	Couvre mat aveugle GPL	900617	LPG only
13	Trim top column cover spring mast	Habillage tête de mât canne flexible	900205	
	Trim top column cover rigid mast	Habillage tête de mât canne rigide	900145	
14	Door - head blank welded	Portillon aveugle soudé	900592	
15	Buffer - Rubber D8	Butee Caoutc D8	900593-001	
16	Pin - location Dia 6 / M6	Axe verrouillage	900595	
17	Door - hydraulic blank welded	Porte hydr aveugle soudée	900713	
18	Door - Hydraulic 1 boot weld	Porte hydr 1 buses soudée	900718	
	Door - Hydraulic 2 boots weld	Porte hyd 2 buse soudée	900716	
	Door - Hydraulic Nettuno welded	Porte hyd Nettuno T4 soudé	900714	LPG only
	Door - Hydraulic LG 30 welded	Porte hydraulique LG 30 soudé	902451	LPG only
	Door - Hydraulic Butagaz welded	Porte hydraulique Butagaz soudé	902465	LPG only
	Door - Hydraulic Elaflex welded	Porte Hydraulique Elaflex soudé	902468	LPG only

(Cont.)



2.4 Q300T LPG Cladding Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
19	Seal EMKA 1011-05 Length 296	Joint tube EMKA 1011-05 Lg 296	900730-005	
20	Hydraulic top cover welded	Hab sup val hyd soude	900736	Mechanical Register only LPG only Mech totes visible
	Hydraulic top cover - Mechanical Reg	Hab sup val hyd soude - meca	902230	
	Cover - hydraulic top welded E-Stop	Habillage sup val hyd A-Usoudé	900741	
	Cover - hydr. top tote welded	Habillage sup valise soudé tot	903485	
21	Insulation Sleeve 4mm	Manchon Isolant 4mm	900758-004	
22	Blank trim top column cover	Habillage tête de mât aveugle	900772	LPG only LPG blank
	Trim top column cover LPG	LPG Habi tete de mat	900207	
	Trim top column cover LPG blk	Habillage tête de mât GPL aveu	900623	
23	Screw HSB M5x12	Vis CBHC M5x12	900795-001	
24	Nut Cage M5	Ecrou Cage M5	900796-001	
25	Lock assembly	Serrure Porte asm	-	Refer to Page 2-8
26	Rivet Drive	Comm Rap	901058-001	
27	Generic Nozzle Boot Assembly	Ass gén Soufflet protec inject	-	Refer Q300T Parts Manual Page 3-2
28	Plug Heyco D12.5	Bouchon Heyco D12.5	902330-001	Spring Mast only
	Plug - KAPSTO GPN 300 Dia42	Bouchon KAPSTO GPN 300 Dia 42	902640-001	Spring Mast only
	Plug Heyco D6.5	Bouchon Heyco D6.5	902330-002	Rigid Mast only
29	Grommet - membrane ID 36	Passe fil à membrane DG36	902331-001	
30	Button Assy - Emergency Stop	Bouton A-U Asm	-	Refer LPG Parts Manual Page 3-20
31	Button Assy - Deadmans	Bouton H-M Asm	-	Refer LPG Parts Manual Page 3-20
32	Latch Cord	Butee de Bequille	902667	
33	LPG Nozzle Boot Assy	Repose Buse GPL Asm	-	Refer LPG Parts Manual Section 3
34	Rope - Hydraulic door	Corde maintien porte	903266	
35	Latch - cord (lock)	Butee de bequille (serrure)	903276	
36	Gasket - inner cladding panel	Joint Hab. Int colonne	903285	
37	Pin - Rubber 8mm head	Butee caoutchouc Ep 8mm	903314-001	
38	LCD Display Door assembly	Portil equipe LCD asm	-	Refer Q300T Parts Manual Page 5-6
	FP Display Door assembly	Portil equipe FP asm	-	Refer Q300T Parts Manual Page 5-10



Issue A

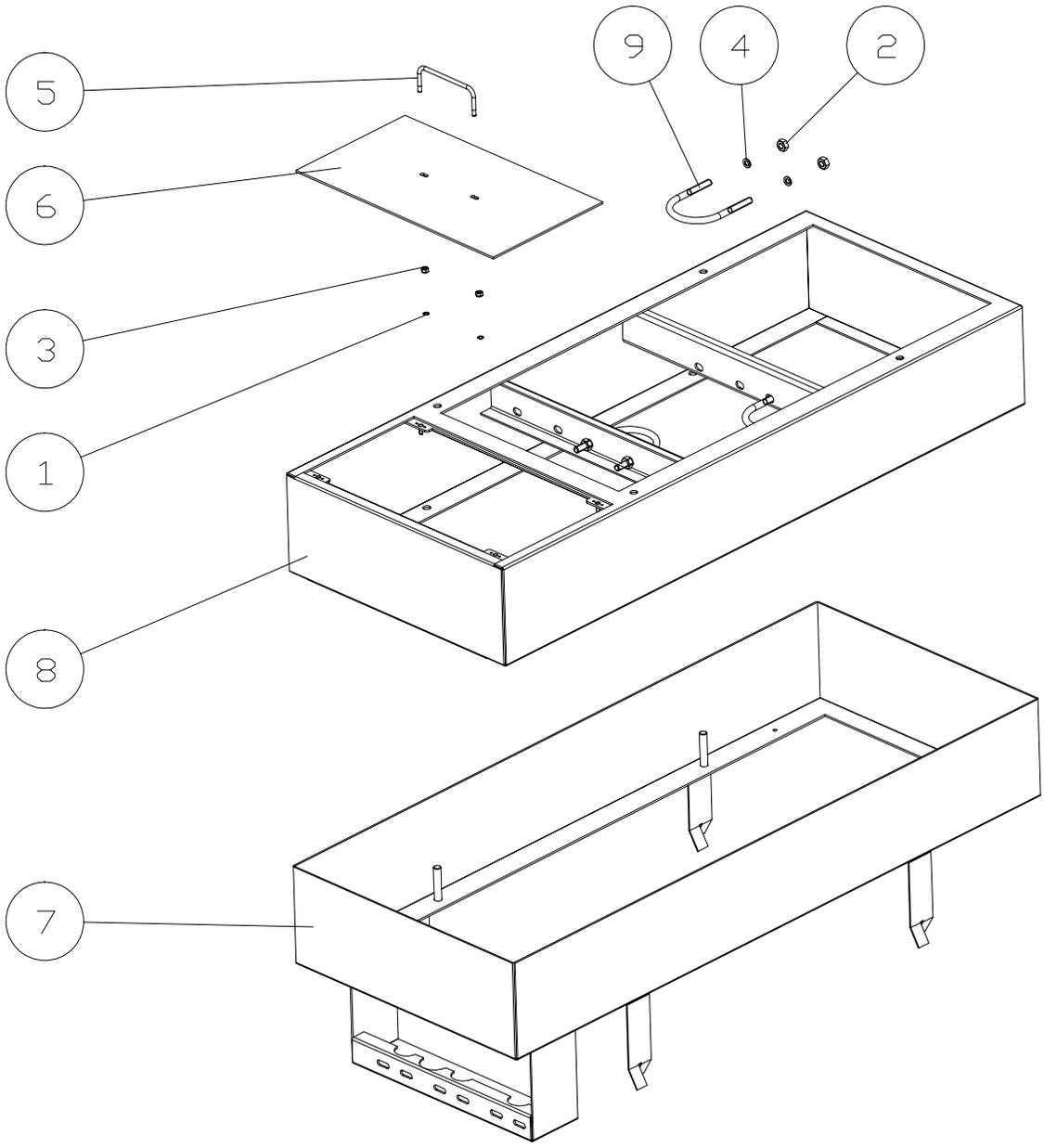
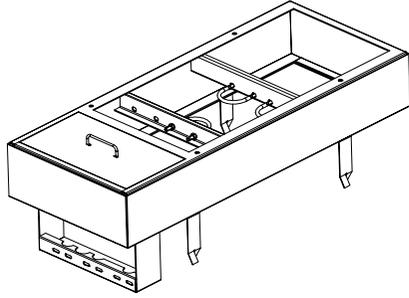
2.5 Q500T LPG Cladding Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M6	Rondelle a Dents DEC M6	900009-004	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	Screw SCS M6x25	Vis FS M6x25	900014-002	
4	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
5	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
6	Screw HSHC M6x16	Vis CHC M6x16	900017-007	
7	Seal topplate	Joint plaque support	900357	
8	End Column Q500T	Colonne de fin Q500T	900402	
9	Adjustment Pin	Broche de Reglage	900403	
10	Endpanel Hydraulic Frame	Panel Fin Châssis Hydr	900404	
11	Barrier Screen Q500T	Ecran Barrière Q500T	900422	
12	Spring Protective Earth Doors	Ressort porte hydr à terre	900650	
13	Retaining clip hydr door	Ressort en acier	900652	
14	Hinge Assembly	Charniere asm	-	Refer to Page 2-18
15	Topplate 2 Hydr Frames	Plaque Sup 2 Hydr Chassis	900889	
16	Hydraulic Door A 2F	Porte Hydraulique A 2F	900895	
17	Hydraulic Door B 2F	Porte Hydraulique B 2F	900901	
18	Assembly Lock Topcover	Ass Serrure Porte Topcover	-	Refer to Page 2-16
19	Rivet Drive	Comm Rap	901058-001	
20	Button Assy Emergency Stop	Bouton A-U Asm	-	Refer to Page 3-20
21	Q500T Driptray LPG Std	Récupération égoutture LPG Std	902813	
22	Cladding VB End Q500T E-stop LPG	Placage VB Extr Q500T E-Stop GPL	902977	
23	Noz Panel Assy LPG	Pann Hab Asm GPL	-	Refer to Page 3-2

INFORMATION TO BE INSERTED

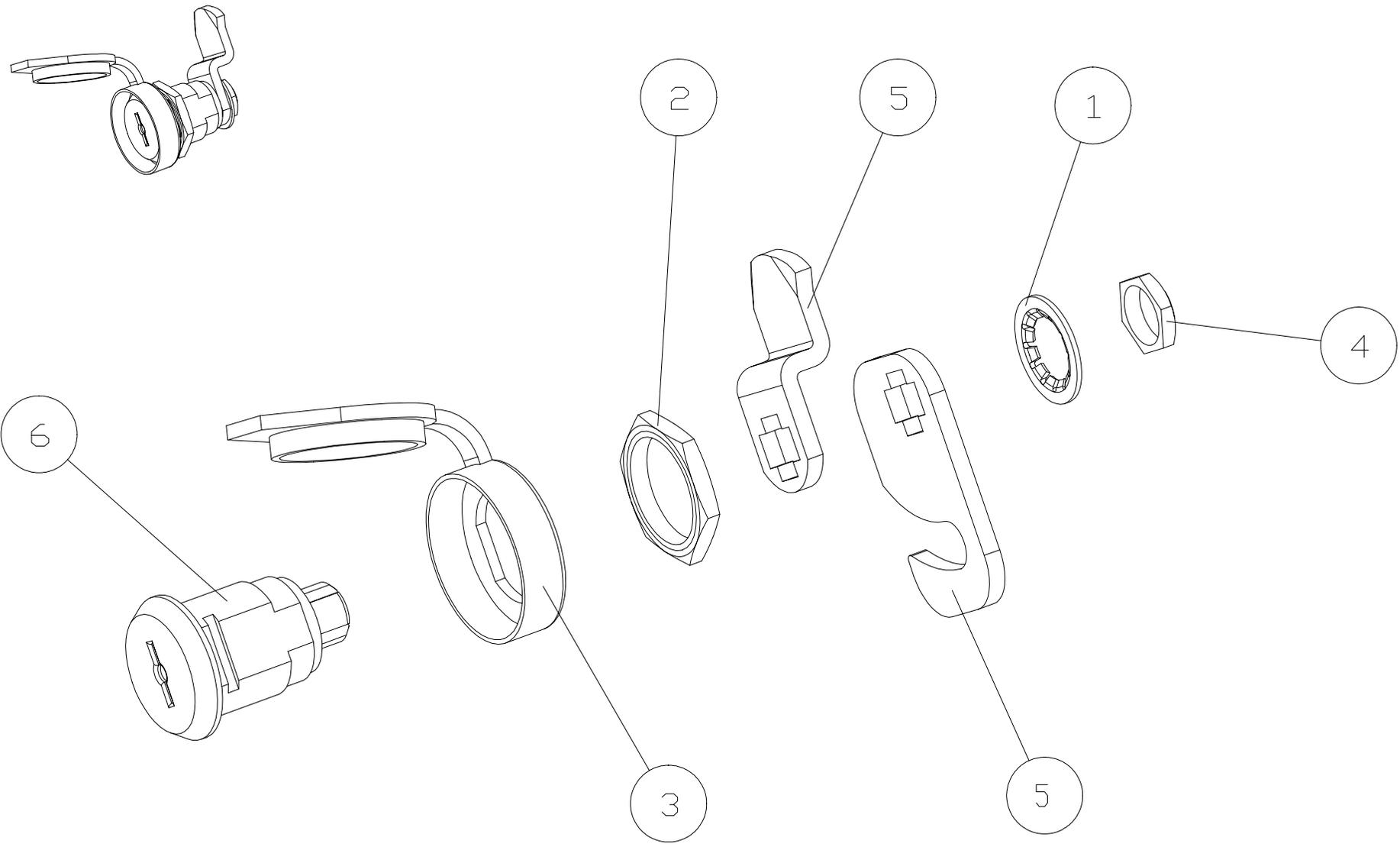
2.6 Q500T LPG Integrated Cladding Assembly

INFORMATION TO BE INSERTED



2.7 Hydraulic Chair Assembly

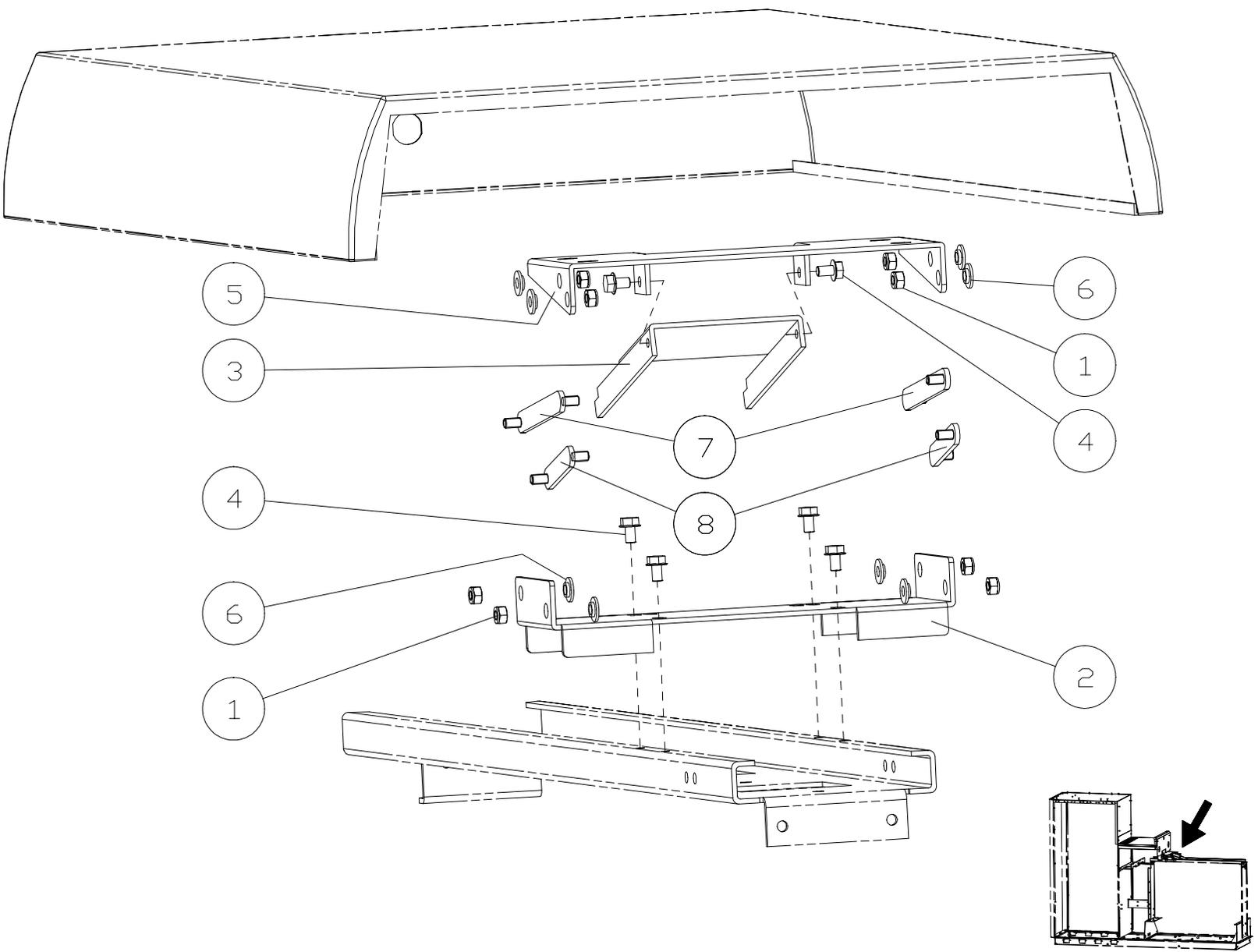
Item No	Description	Désignation Français	Part No	Comments
1	Washer PI 6 (Shim)	Rondelle PI 6 (Shim)	900008-012	
2	Nut Hex M10	Ecrou H M10	900011-004	
3	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-008	
4	Washer Spring Lock M8	Rondelle Elast. W 8	900051-001	
5	Handle Chair QT LPG	Poignee De Trappe	901182	
6	Cover Chair Entrance QT	Trappe Ensemble Monte	901185	
7	Cradle LPG QT	Cadre GPL QT	901832	
8	Weld Assy Chair LPG QT	Socle Ensemble Soude GPL	901842	
9	U-bolt 2"1/2	Collier 2"1/2	903160-003	



2.8 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	Q300T Dispenser only
	Lock Cam Calc Door	Came De Serrure Porte Calc	900985	Q500T Calc Head only
	Lock Cam DIT door	Came de serrure porte DIT	900986	Q500T DIT & Vidium Doors only
	Lock Cam Top cover	Came de serrure top	900978	Q500T Hydraulic top cover only
6	Lock	Serrure	900389	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



2.9 Hinge Assembly (Q500T LPG Integrated only)

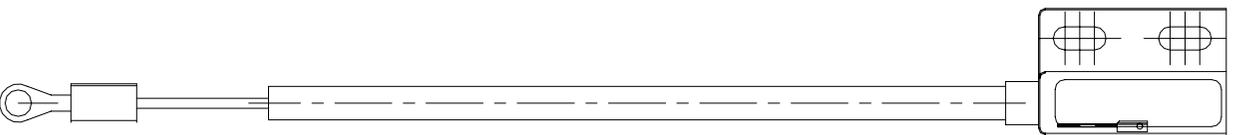
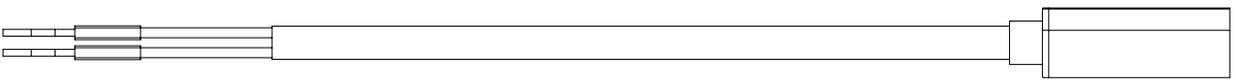
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
2	Topplate Hinge Half	Demi Charniere Plaque Sup	900651	
3	Topplate Stay Open Holder	Plaque Sup Supp Arret Ouvert	900654	
4	Screw HFHTF M6x10	Vis Hex. Araudeuse M6x10	900708-001	
5	Hingeplate topplate Q500T	Plaque Charniere Sup	900744	
6	Insulation Sleeve 6.2mm	Manchon Isolant 6.2mm	900758-002	
7	Hinge Rod Long Q500T Topplate	Levier Articulé Longue	900777	
8	Hinge Rod Short Q500T Topplate	Levier Articulé Petit	900794	

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3 HOSE MANAGEMENT 3-2

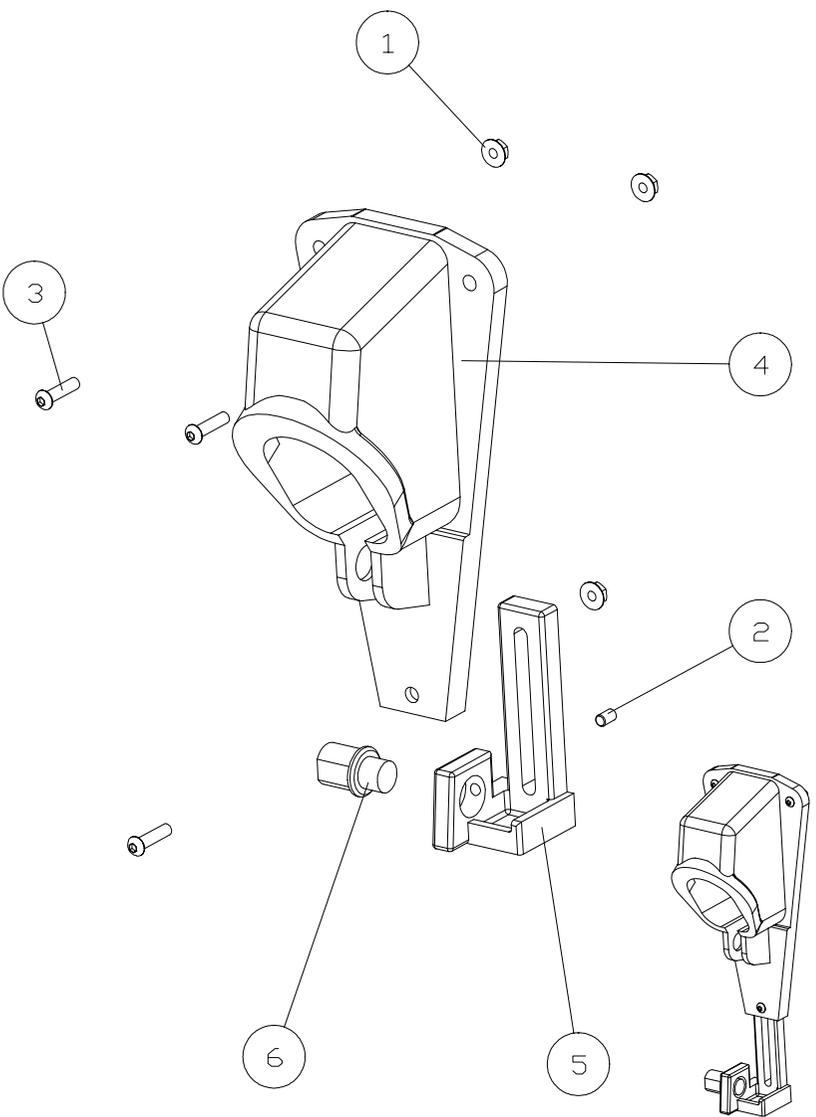
- 3.1 Hall Sensors 3-2
- 3.2 Nozzle Boot Assembly - Elaflex 3-4
- 3.3 Nozzle Boot Assembly - Butagaz 3-6
- 3.4 Nozzle Boot Assembly - Nettuno 3-8
- 3.5 Nozzle Boot Assembly - LG30 3-10
- 3.6 Hose to Nozzle Assembly 3-12
- 3.7 Q500T Hose Management Assembly 3-14
- 3.8 Q300T Hose Retraction Assembly 3-16
- 3.9 Push Button Assembly 3-18



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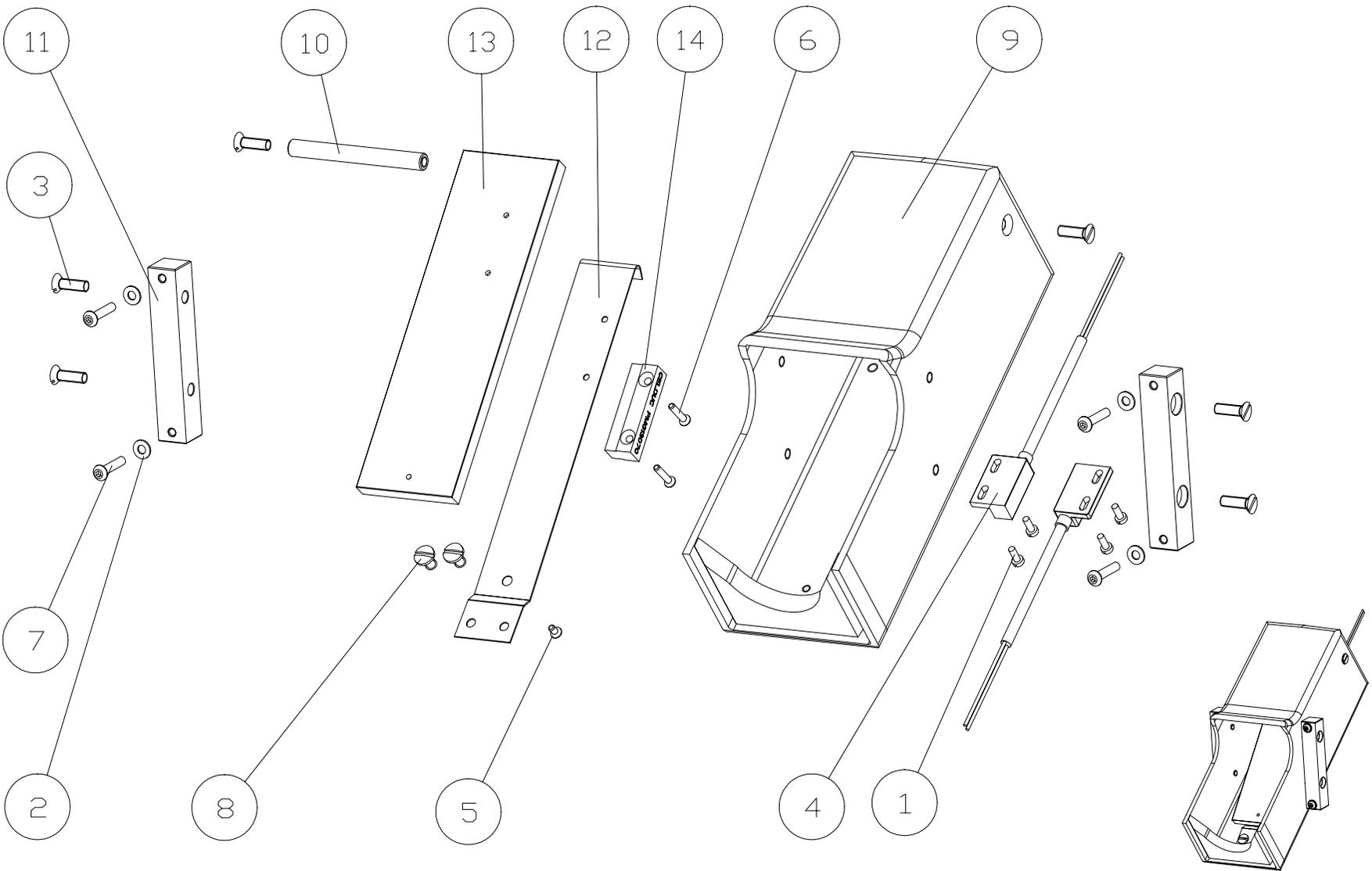
3.1 Hall Sensors

Part No	Description	Désignation Français	Comments
900387-001	Magnetic Proximity Switch	Contact magnetique de proximité	Satellite, LPG, Q300T Mech Register
900093-001	Hall sensor nozzle switch 1 right	Hall capteur contact pistolet 1 droit	Address 1
900093-002	Hall sensor nozzle switch 1 left	Hall capteur contact pistolet 1 gauche	Address 2
900093-003	Hall sensor nozzle switch 2 right	Hall capteur contact pistolet 2 droit	Address 3
900093-004	Hall sensor nozzle switch 2 left	Hall capteur contact pistolet 2 gauche	Address 4
900093-005	Hall sensor nozzle switch 3 right	Hall capteur contact pistolet 3 droit	Address 5
900093-006	Hall sensor nozzle switch 3 left	Hall capteur contact pistolet 3 gauche	Address 6
900093-007	Hall sensor nozzle switch 4 right	Hall capteur contact pistolet 4 droit	Address 7
900093-008	Hall sensor nozzle switch 4 left	Hall capteur contact pistolet 4 gauche	Address 8
900093-009	Hall sensor nozzle switch 5 right	Hall capteur contact pistolet 5 droit	Address 9
900093-010	Hall sensor nozzle switch 5 left	Hall capteur contact pistolet 5 gauche	Address 10
900093-011	Hall sensor right local preset button clear	Hall capteur bout droit loc preprog effacé	Address 11
900093-012	Hall sensor left local preset button clear	Hall capteur bout gauche loc preprog effacé	Address 12
900093-013	Hall sensor right satellite slave button or LPG	Hall capteur bout sat répéteur droit ou GPL	Address 13
900093-014	Hall sensor left satellite slave button or LPG	Hall capteur bout sat répéteur gauche ou GPL	Address 14
900093-015	Hall sensor right local preset button value 1	Hall capteur bout droit loc preprog valeur 1	Address 15
900093-016	Hall sensor left local preset button value 1	Hall capteur bout gauche loc preprog valeur 2	Address 16
900093-017	Hall sensor right local preset button value 2	Hall capteur bout droit loc preprog valeur 2	Address 17
900093-018	Hall sensor left local preset button value 2	Hall capteur bout gauche loc preprog valeur 2	Address 18
900093-019	Hall sensor right local preset button value 3	Hall capteur bout droit loc preprog valeur 3	Address 19
900093-020	Hall sensor left local preset button value 3	Hall capteur bout gauche loc preprog valeur 3	Address 20
900093-021	Hall sensor right satellite master button	Hall capteur bouton droit maitre/sat	Address 21
900093-022	Hall sensor left satellite master button	Hall capteur bouton gauche maitre/sat	Address 22
900093-023	Hall sensor right high speed button	Hall capteur bouton droit de commut	Address 23
900093-024	Hall sensor left high speed button	Hall capteur bouton gauche de commut	Address 24
900093-025	Hall sensor thermal protection reset button	Hall capteur bouton de protection thermique	Address 25



3.2 Nozzle Boot Assembly - Elaflex

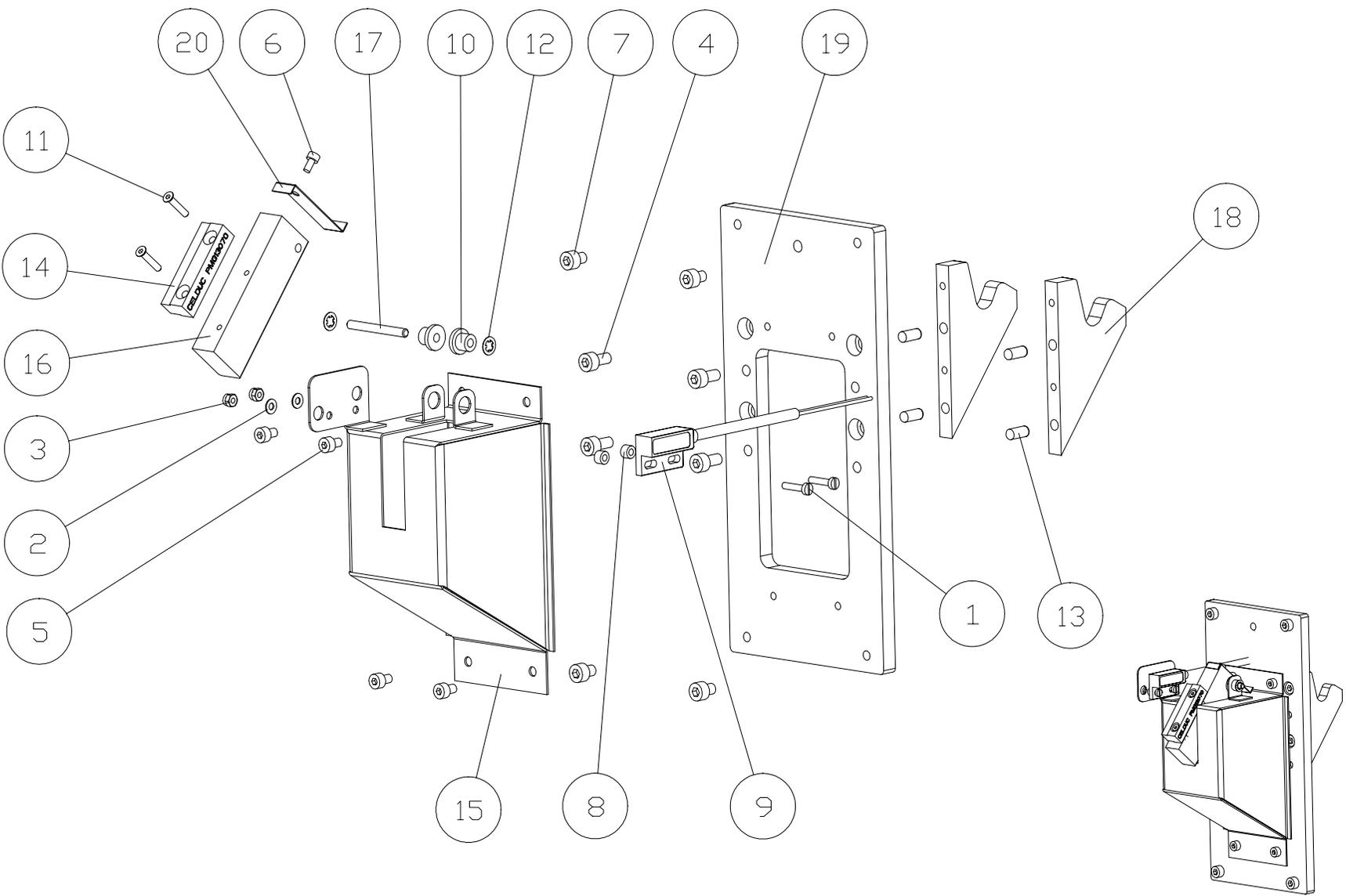
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
3	Screw HSB M6x25	Vis M6x25	900795-003	
4	Nozzle Holder LPG Upper	Support Buse GPL	902179	
5	Nozzle Holder Lower Ela	Support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



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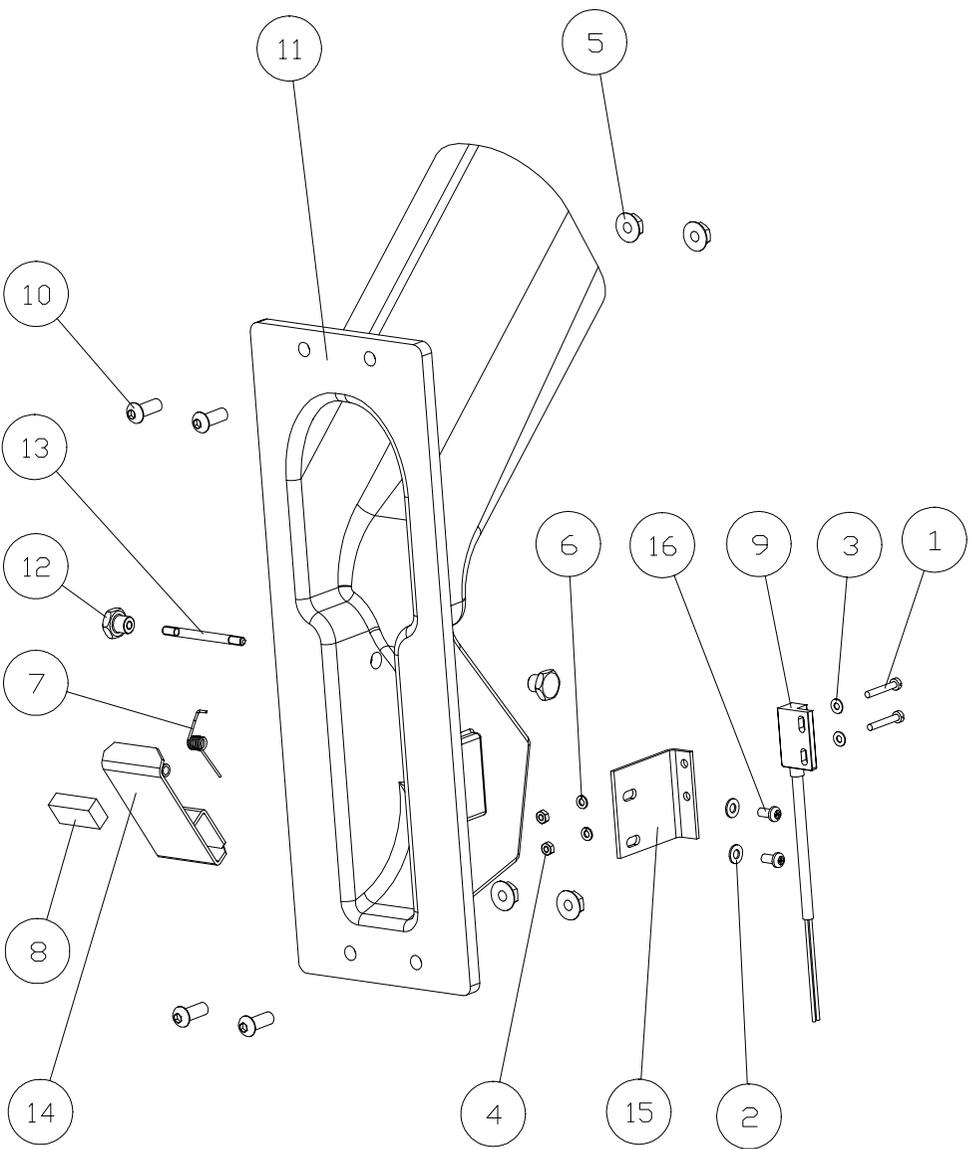
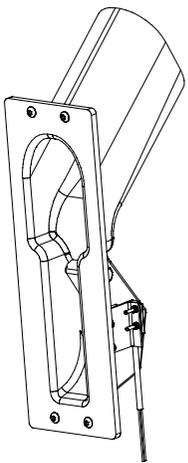
3.3 Nozzle Boot Assembly - Butagaz

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	Refer to Page 3-2
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	



3.4 Nozzle Boot Assembly - Nettuno

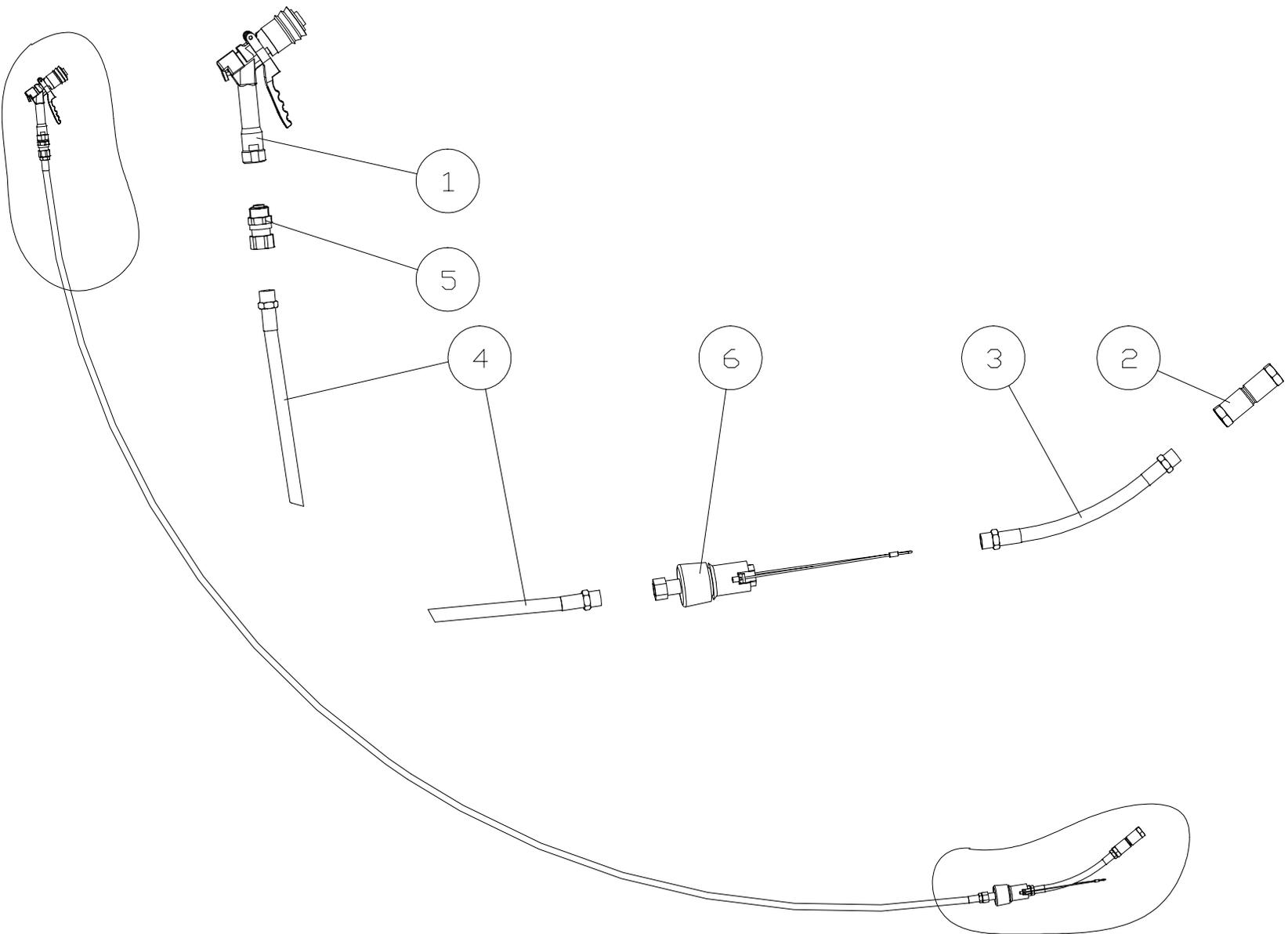
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x14	Vis CS M3x14	900007-012	
2	Washer PI M3	Rondelle PI M3	900008-010	
3	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
4	Screw HSHC M5x10	Vis CHC M5x10	900017-013	
5	Screw HSHC M4x6	Vis CHC M4x6	900017-015	
6	Screw HSHC M3x6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

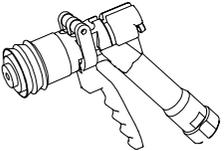
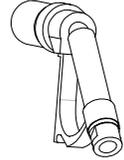
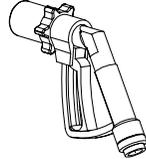
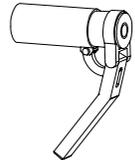
3.5 Nozzle Boot Assembly - LG30

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	-	Refer to Page 3-2
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	

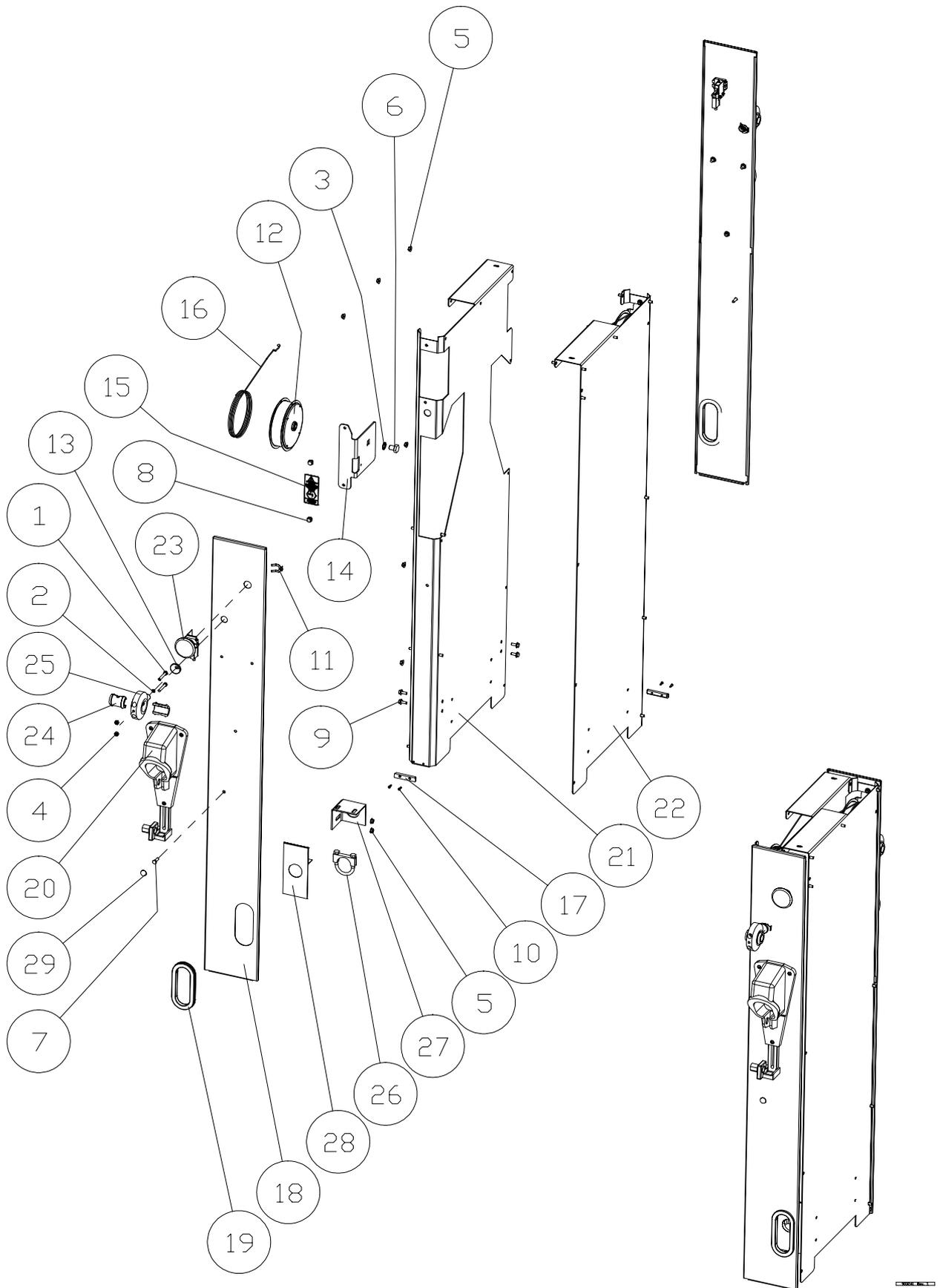


Issue A

3.6 Hose to Nozzle Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nozzle - Nettuno T4	Buse GPL Nettuno T4	902047-001	    
	Nozzle - LPG Butagaz	Buse GPL Butagaz	902048-001	
	Nozzle LG30 LPG 3/4	Nozzle LG30 LPG 3/4	901235-001	
	Nozzle Elaflex LPG 3/4" NPT	Buse Elaflex GPL 3/4" NPT	901445-001	
	Nozzle Boosekoop LPG 3/4	Buse Boosekoop GPL 3/4	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	902366-001	French standard option
		Racc cass tourn 3/4"NPT F/G1"M	902366-002	French option
6	Coupling Break ARGUS AK 3/4" NPT Coupling Break ELAFLEX	Raccord Cassant ARGUS AK 3/4" NPT	902411-001	
		Accouplement sécurité ELAFLEX	902517-001	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

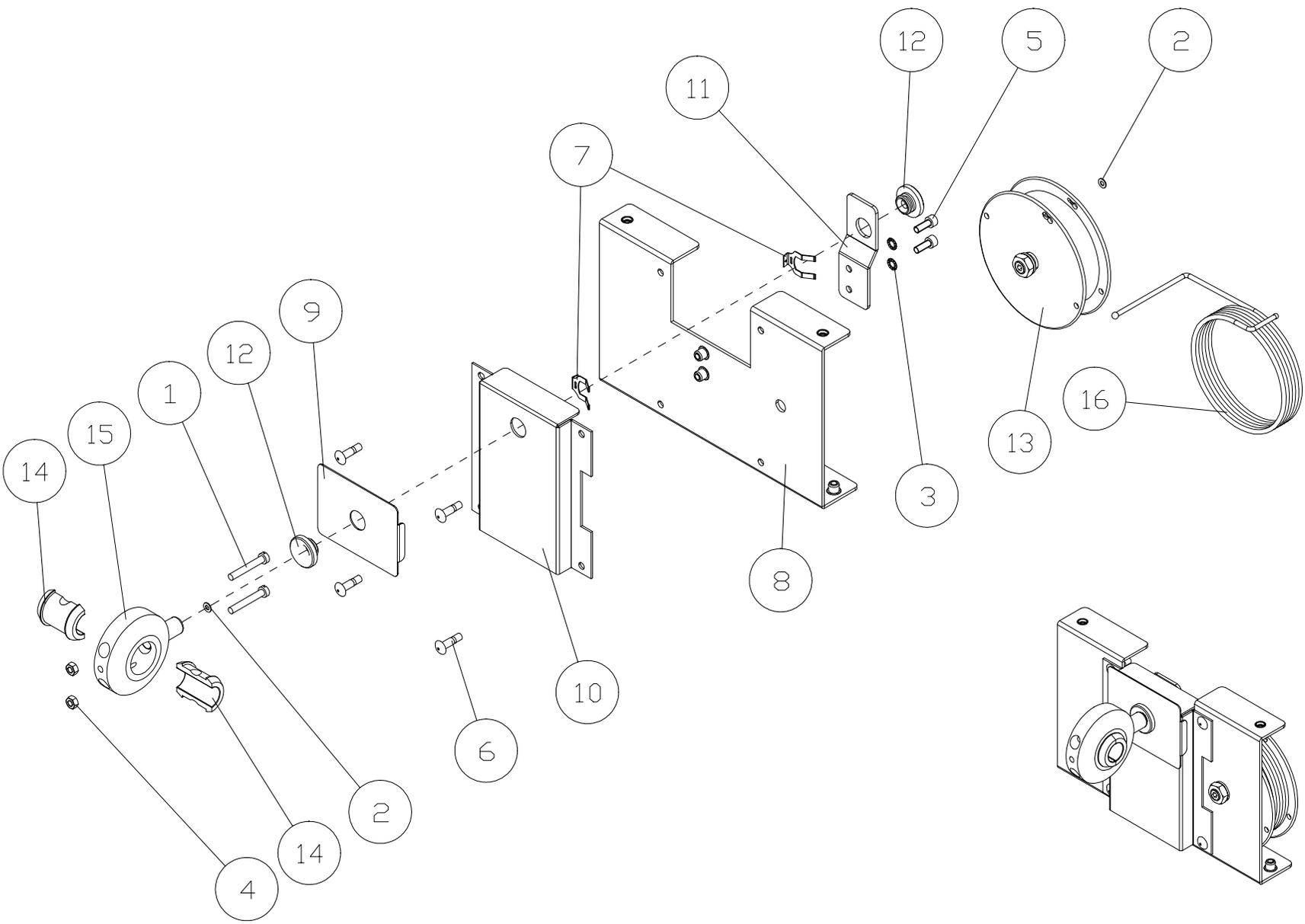


Issue A

3.7 Q500T Hose Management Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M6x40	Vis CS M6x40	900007-013	
2	Washer PI M4	Rondelle PI M4	900008-004	
3	Washer Serr Lock Ext M12	Rondelle a Dents DEC M12	900009-003	
4	Nut Hex M6	Ecrou H M6	900011-001	
5	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
6	Screw HH M12x16	Vis H M12x16	900015-007	
7	Screw HH M6x20	Vis H M6x20	900015-010	
8	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
9	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
10	Rivet Blind Domed 3.2x8.0	Rivet Pop Bomb 3.2x8.0	900025-001	
11	Clip H/Shoe	Fixation H/Shoe	900057	
12	Assy Springdrum	Enrouleur asm	900529	
13	Outlet-cord	Guide corde	901446	
14	Bracket Spring Drum	Support d'enrouleur	901513	
15	Sticker for spring drum	Autocollant pour enrouleur asm	901514	
16	Rope Spring Drum	Corde d'enrouleur	901526	
17	Connection block nozzlepanel	Connecteur pour Pann Habil	901527	
18	Nozzle Panel Elaflax EXT LPG	Pann Hab Elaflax EXT GPL	901585	
	Nozzle Panel Elaflax EXT LPG	Pann Hab Elaflax EXT GPL INO	901632	
	Nozzle Panel Butagaz EXT LPG	Pann Hab Butagaz EXT GPL	901586	
	Nozzle Panel Butagaz EXT LPG	Pann Hab Butagaz EXT GPL IN	901633	
	Nozzle Panel Nettuno/BK EXT L	Pann Hab Nett/BK EXT GPL	901584	
	Nozzle Panel Nettuno/BK EXT L	Pann Hab Nett/BK EXT GPL IN	901631	
	Nozzle Panel LG30 EXT LPG	Pann Hab LG30 EXT GPL	901587	
	Nozzle Panel LG30 EXT LPG S	Pann Hab LG30 EXT GPL INO	901634	
	Nozzle Panel Fender EXT LPG	Pann Hab Fender EXT GPL	901583	
	Nozzle Panel Fender EXT LPG	Pann Hab Fender EXT GPL INO	901630	
	Blind Nozzle Panel Std	Pann Hab Aveugle	901639	
	Blind Nozzle Panel S/Steel	Pann Hab Aveugle INOX	901637	
19	Hose Protector LPG Q500T	Protecteur de tuyan	902174	
20	Nozzle Boot Assy	Repose Buse asm	-	Refer to Pages 3-4 to 3-10
21	HMS Structural Frame Right LP	HMS Cadre Droit GPL	902406	
22	HMS Structural Frame Left LPG	HMS Cadre Gauche GPL	902407	
	HMS Structure Frame LPG INT	HMS Cadre Gauche GPL INT	903253	Integrated only
23	Dead Man Button Assy	Bouton H-M ASM	-	Refer to Page 3-18
24	Adaptor - half hose clamp D13	Demi Coquille D13 flex GPL	902516	
25	Clamp Assy - LPG Hose	Demi Coquille D13 flex GPL as	902532	
26	Clamp	Bride	903184	
27	Hose Outlet Support LPG	Support sortie flexible GPL	903185	
28	Cover Hose Outlet LPG	Couvre sortie flexible GPL	903186	
29	Snap Cap	Vis M6x20	903192-001	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

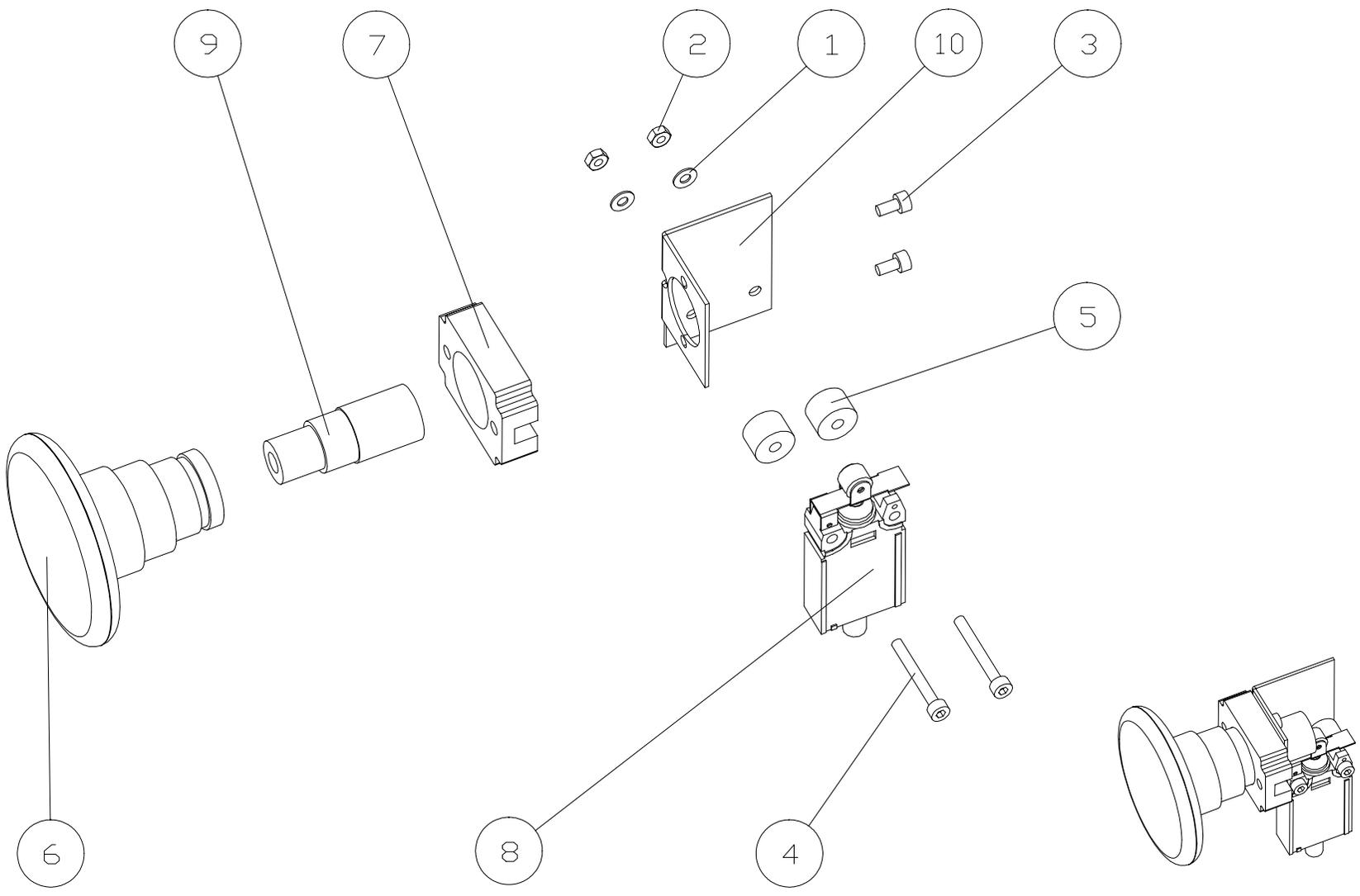


Issue A

3.8 Q300T Hose Retraction Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M6x40	Vis CS M6x40	900007-013	
2	Washer PI M4	Rondelle PI M4	900008-004	
3	Washer Serr Lock Ext M6	Rondelle a Dents DEC M6	900009-004	
4	Nut Hex M6	Ecrou H M6	900011-001	
5	Screw HSHC M6x16	Vis CHC M6x16	900017-007	
6	Rivet Blind Domed 6.5x24.8	Rivet Pop Bomb 6.5x24.8	900025-002	
7	Clip Horseshoe	Fixation H/Shoe	900057	
8	Bracket - retractor mounting	Patte d'enrouleur	900219	
9	Cover - retractor outlet	Habillage enrouleur	900222	
10	Bracket - retractor stiffening	Renfort support enrouleur	900223	
11	Bracket outlet cord	Support guide corde	900224	
12	Outlet - cord	Guide corde	901446	
13	Spring drum 8kg	Equilibreur 8kg	902027-001	
14	Adaptor - half hose clamp D13	Demi Coquille D13 flex GPL asm	902516	
15	Clamp assy - LPG hose	Demi Coquille D13 flex GPL asm	902472	
16	Rope - retractor system	Corde retraction flexible	903265	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



Issue A

3.9 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	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

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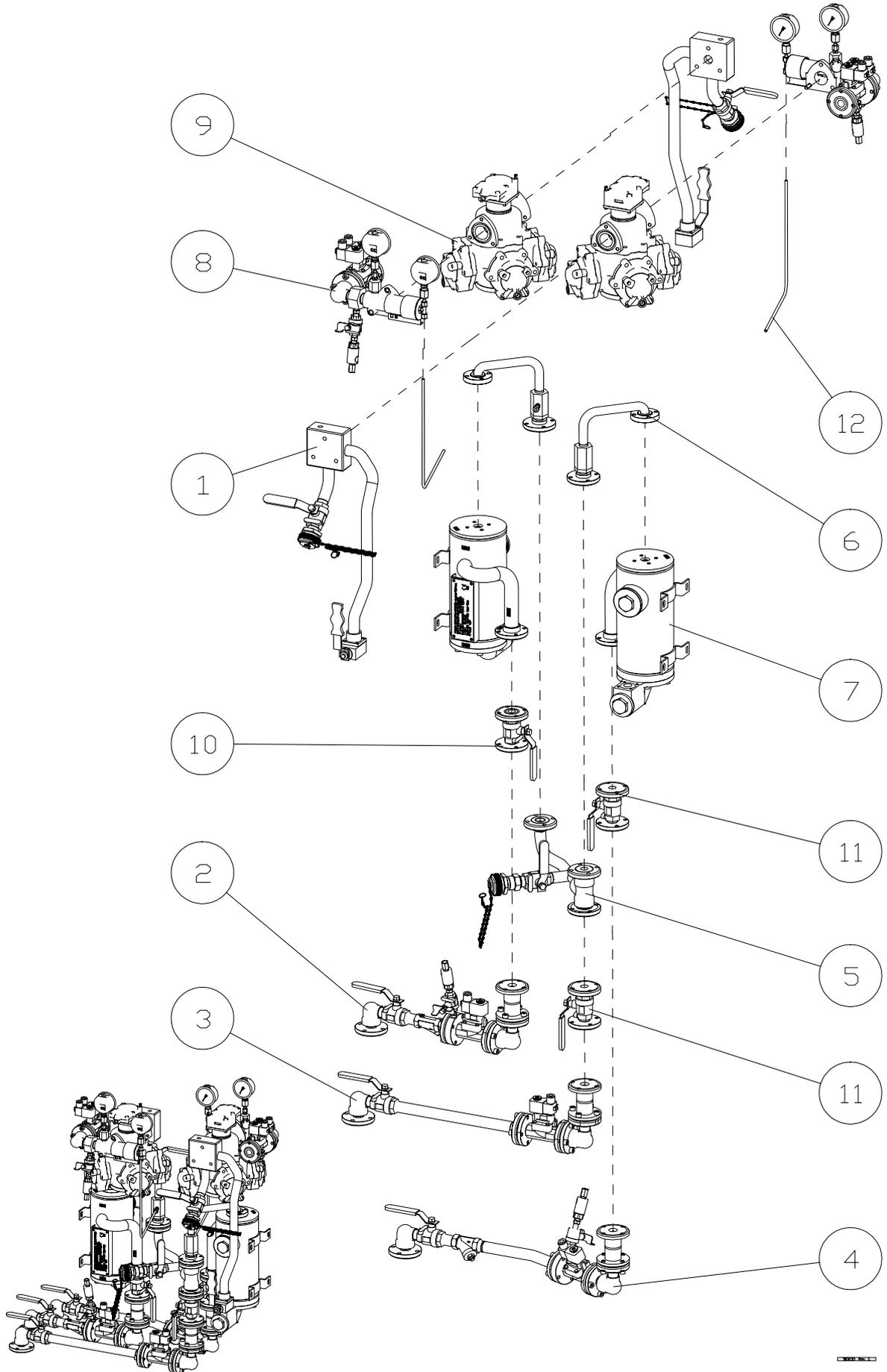
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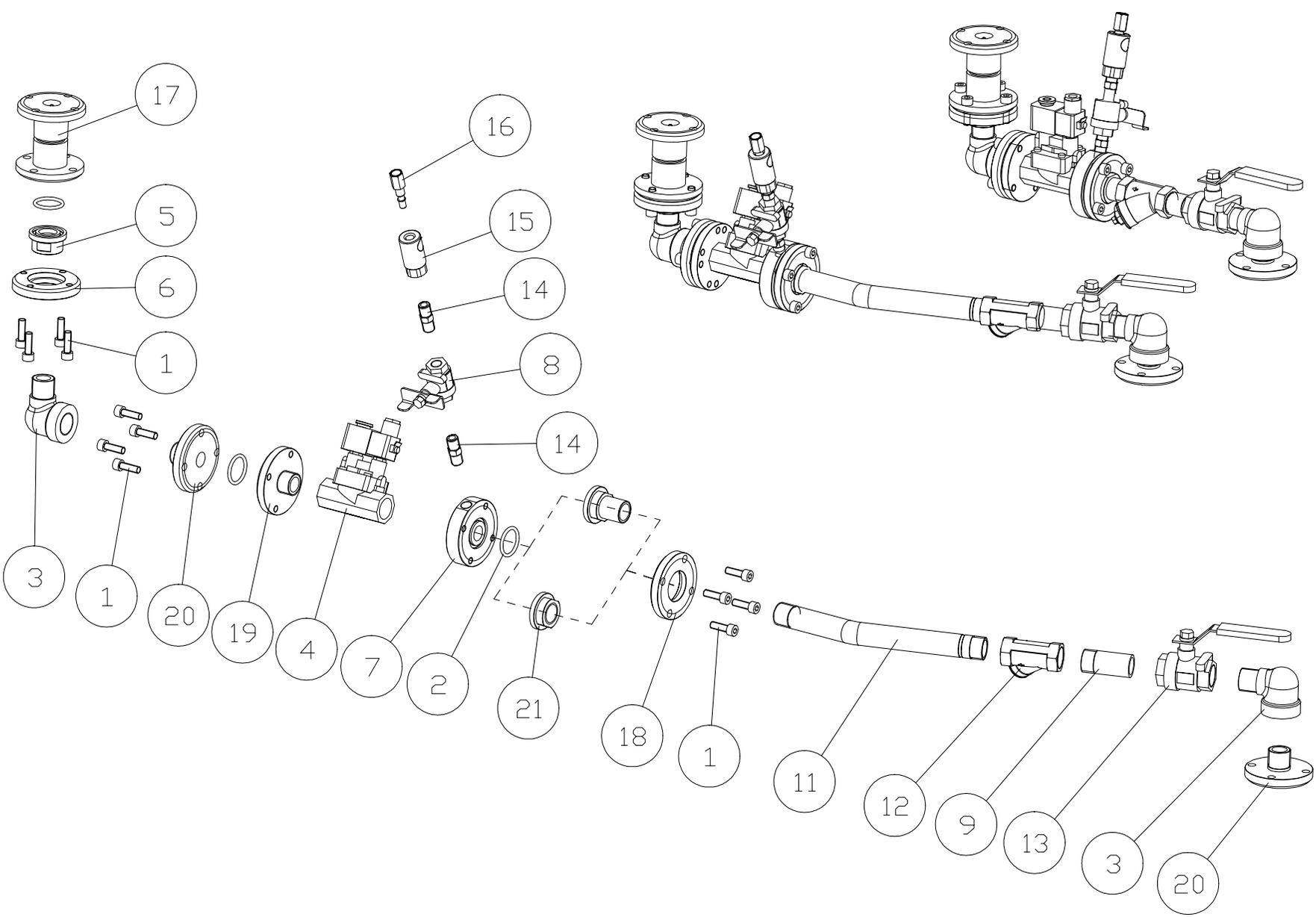
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Issue A

4.1 Hydraulic Common Stack Assembly

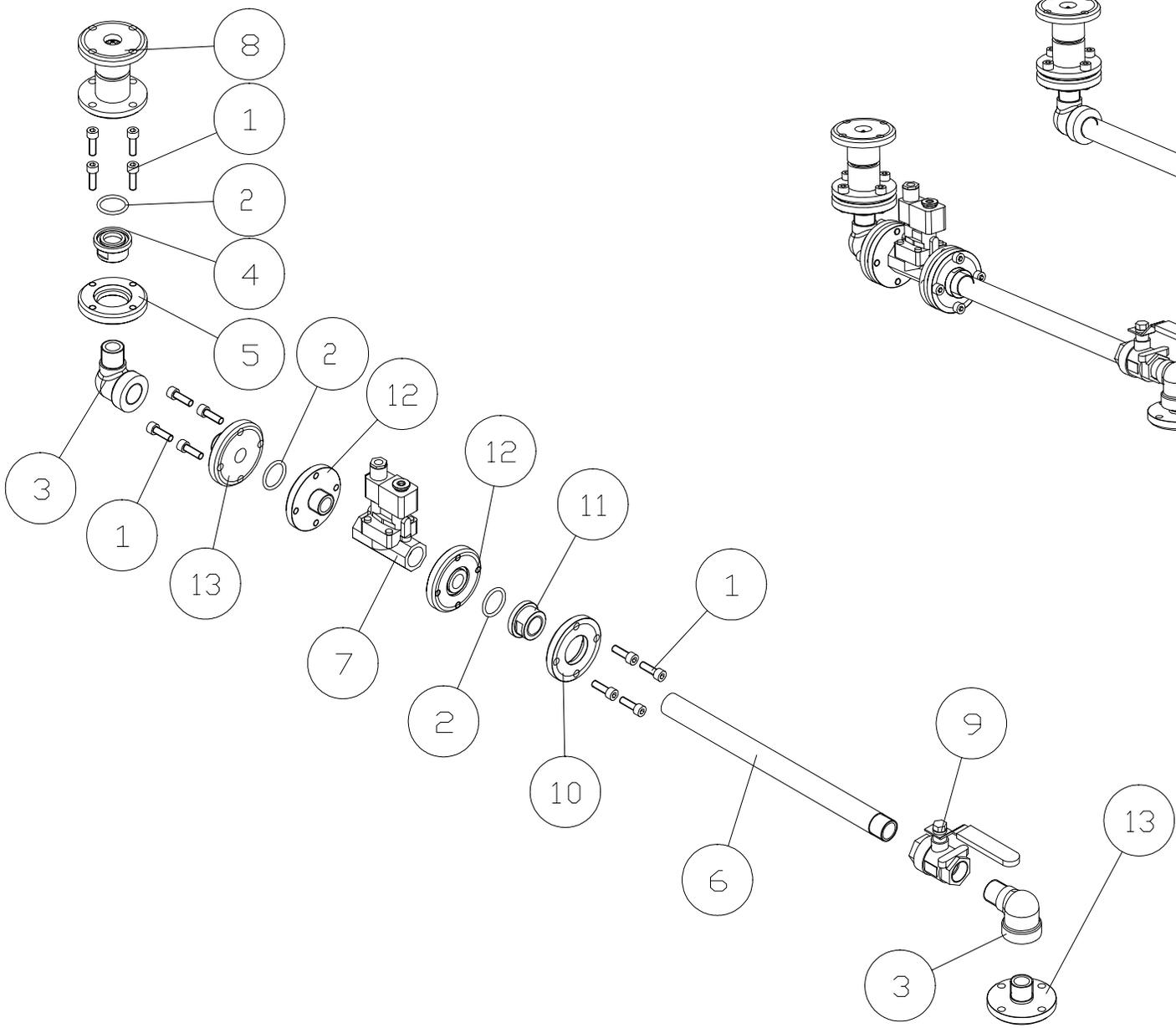
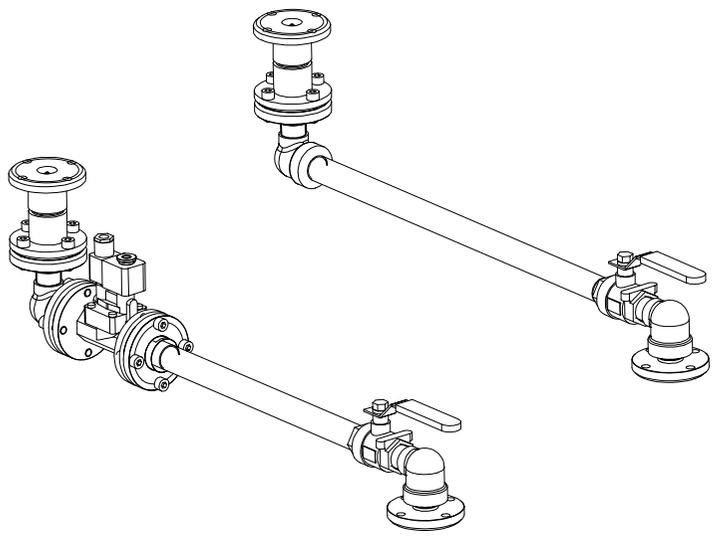
Item No	Description	Désignation Français	Part No	Comments
1	Meter pipe + test - with preset	Prise d'echantillon asm	903772	Refer to Page 4-18
	Meter pipe + test - non-preset	Prise d'echantillon asm	903060	Refer to Page 4-18
2	Inlet - liquid with purge A	Phase A liquide avec purge as	902741	Refer to Page 4-4
3	Gas return - hydr chair no valve	Phase Gazeuse	902949	Refer to Page 4-6
	Gas return - hydr chair - valve	Phase Gazeuse	902742	Refer to Page 4-6
4	Inlet assy - liquid with purge B	Phase Liquide B avec purge as	902743	Refer to Page 4-4
5	Gas return line - common stack	Liaison degazeur	902767	Refer to Page 4-8
6	Outlet assy - Gas separator	Sortie degazeur	902769	Refer to Page 4-12
7	Gas separator & plug assy	Dégazeur avec ses éléments	902771	Refer to Page 4-10
8	Diff valve assy - with preset	Vanne differ electro asm	903772	Refer to Page 4-14
	Diff valve assy - non-preset	Vanne differ electro asm	903060	Refer to Page 4-14
9	Meter/Pulser assy	Emetteur ELTO asm	902896	Refer to Page 4-16
10	Valve assy - gas phase	Vanne phase gazeuse	902993	Refer to Page 4-20
11	Valve assy - liquid phase	Vanne phase liquide	902994	Refer to Page 4-20
12	Pipe - check valve to gauge	Tubulure clapet manometre	903034	



4.2 Inlet - Liquid with Purge 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	Elbow M/F 3/4" NPT	Coude M/F 3/4" NPT	902362-001	
4	Valve Assy LPG One Solenoid	Electrovanne / Un Bobine GPL	902647	
5	Adapter F 3/4" NPT Grooved	Embout F 3/4" NPT avec gorge	902944	
6	Flange - rotated threaded	Bride tournante trou taraude	902945	
7	Flange - M 3/4" NPT with port	Bride Elect M 3/4" NPT avec purge	902989	
8	Valve - ball, b/fly 1/4 NPT	Van BS Poig Papillon 1/4 NPT	903035-001	
9	Coupling - R3/4 M (-3/4 NPT M)	Racc male - R3/4 (-3/4 NPT)	903043	
10	Adaptor R3/4" M no groove	Ambout M 3/4" Gaz sans gorge	903071	Side A only
11	Pipe - inlet liquid phase B	Tubulure entrée Ph liquid B	903072	Side B only
12	Filter - G 3/4"	Filtre 3/4 GAZ	M034525	
13	Valve - 1/4 turn ball 3/4" NPT	Vanne Boiss Spheriq 3/4" NPT	M034555_NO	
14	Nipple - 1/4" NPT	Mamelon 1/4 NPT	M036154	
15	Coupling - QR Fem Staubli 1/4 NPT	Raccord Staubli 1/4 NPT	M036155	
16	Coupling - QR Male Staubli 1/4 NPT	Embout Raccord Staubli 1/4 NPT	M036156	
17	Valve - shear flanged	Raccord securite a brides asm	903500	
18	Flange - rotating threaded	Bride tourn ss gorge taraude	P813629B	
19	Flange - male 3/4 NPT with groove	Bride electrovanne male 3/4 NPT	P813917B	
20	Flange - male 3/4 NPT without groove	Bride male 3/4 NPT (lg30)	P814225B	
21	Adaptor - 3/4" NPT F no groove	Embout	P814511B	Side B only

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

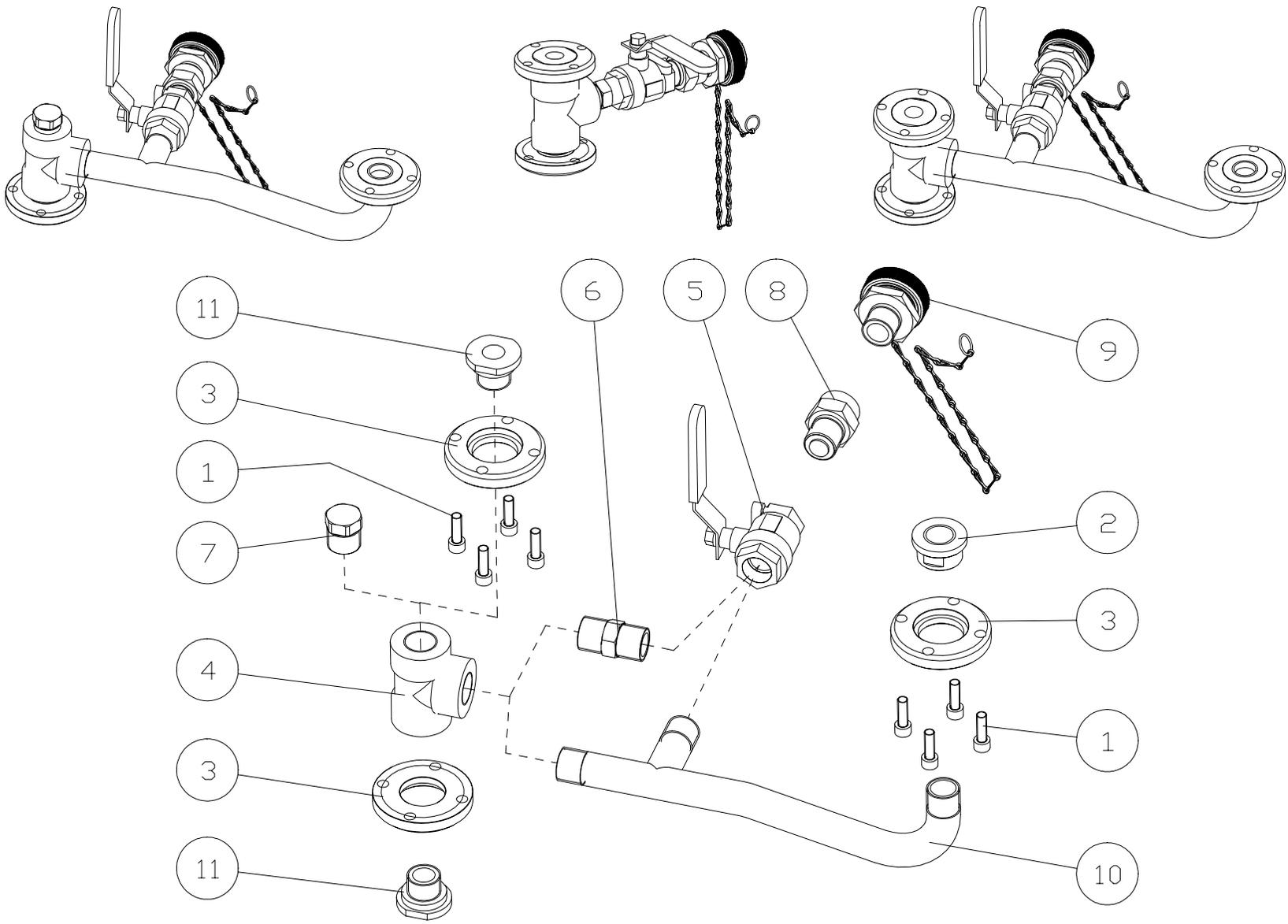


Issue A

4.3 Gas Return Line Assembly - Hydraulic Chair (with & without valve)

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	Elbow M/F 3/4" NPT	Coude M/F 3/4" NPT	902632-001	
4	Adapter F 3/4 NPT grooved	Embout F 3/4 NPT avec gorge	902944	
5	Flange - rotating threaded	Bride tournante trou taraude	902945	
6	Pipe - vapour return with valve Pipe - vapour return - no valve	Tubulure phase gaz avec EV Tubulure phase gaz sans EV	903044 902950	With valve option only No valve option only
7	Valve assy LPG One Solenoid 230V	Electrovanne Une Bobine GPL 230V asm	903047	With valve option only
8	Valve - shear flanged	Raccord securite a brides asm	903500	
9	Valve - 1/4 turn ball 3/4" NPT	Vanne Boiss Spheriq 3/4" NPT	M034555_NO	
10	Flange - rotating threaded	Bride tourn ss gorge taraude	P813629B	With valve option only
11	Adaptor - 3/4" NPT F no groove	Embout F 3/4 NPT sans gorge	P813631B	With valve option only
12	Flange - male 3/4 NPT with groove	Bride electrovanne male 3/4 NPT	P813917B	With valve option only
13	Flange - male 3/4 NPT without groove	Bride male 3/4 NPT (lg30)	P814225B	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

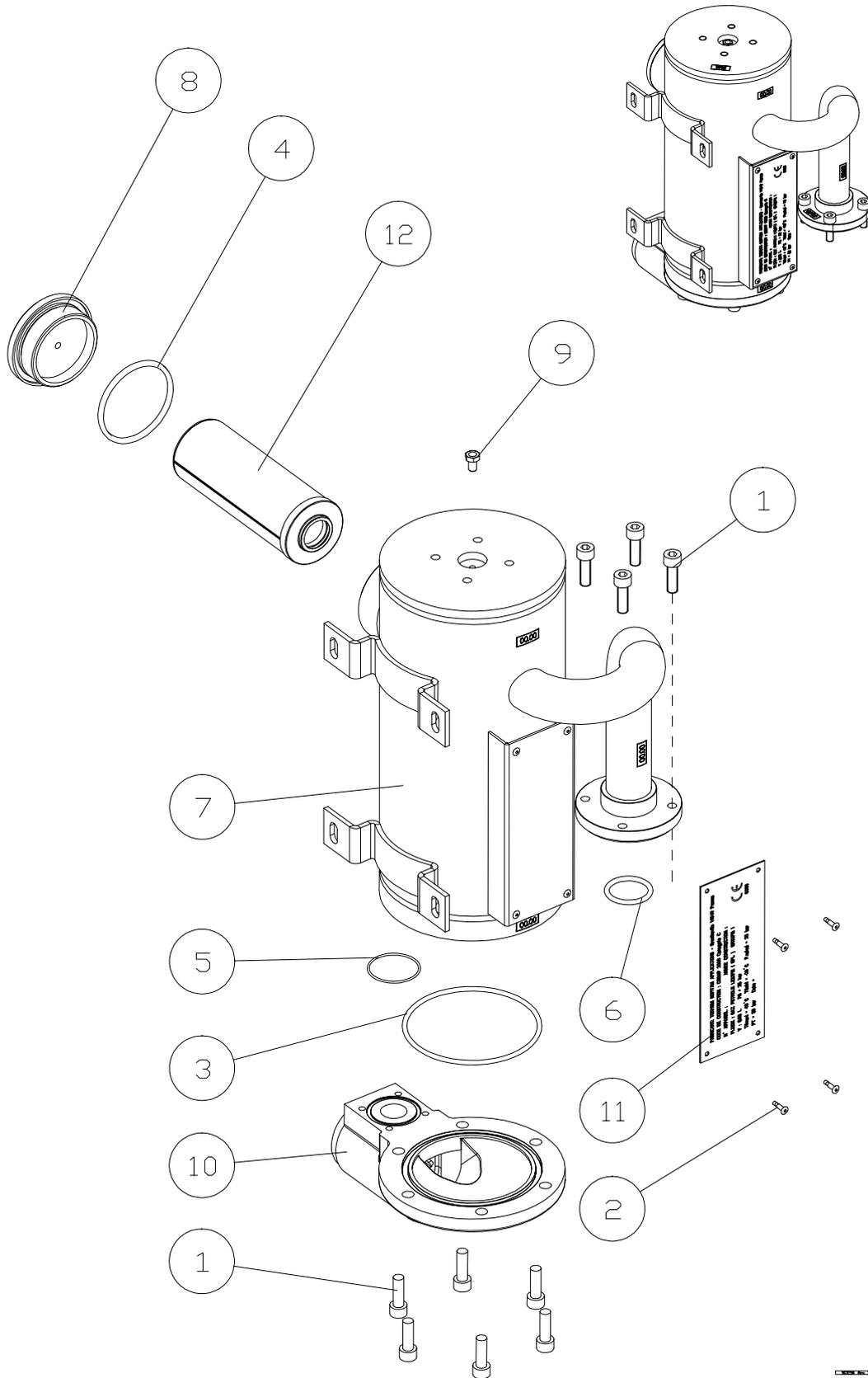


Issue A

4.4 Gas Return Line Assembly (Common Stack)

Item No	Description	Désignation Français	Part No	Quantity	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	8	
2	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	1	Double-sided & Side A only
3	Flange - rotating	Bride tournante trous lisses	902400	3	
4	Tee F/F/F 3/4" NPT	Raccord TE femelle 3/4 NPT	M034532	1	
5	Valve - 1/4 tum ball 3/4" NPT	Vanne boiss spheriq 3/4" NPT	M034555_NF	1	
6	Nipple - 3/4" NPT	Mamelon male/male 3/4 NPT	M511749	1	Side B only
7	Plug - male 3/4" NPT	Bouchon male 3/4 NPT	M511752	1	Side A only
8	Valve non-retum M/F 3/4" NPT	Clapet anti-retour MF 3/4 NPT	M512542	1	
9	Plug Assy - ACME	Bouchon ACME monte	P508633	1	
10	Pipe - tee gas return	Tubulure ACME retour pl gazeuse	P813840B	1	Double-sided & Side A only
11	Adaptor - male 3/4" NPT without groove	Embout male 3/4 NPT sans gorge	P813980B	2	Double-sided & Side B only

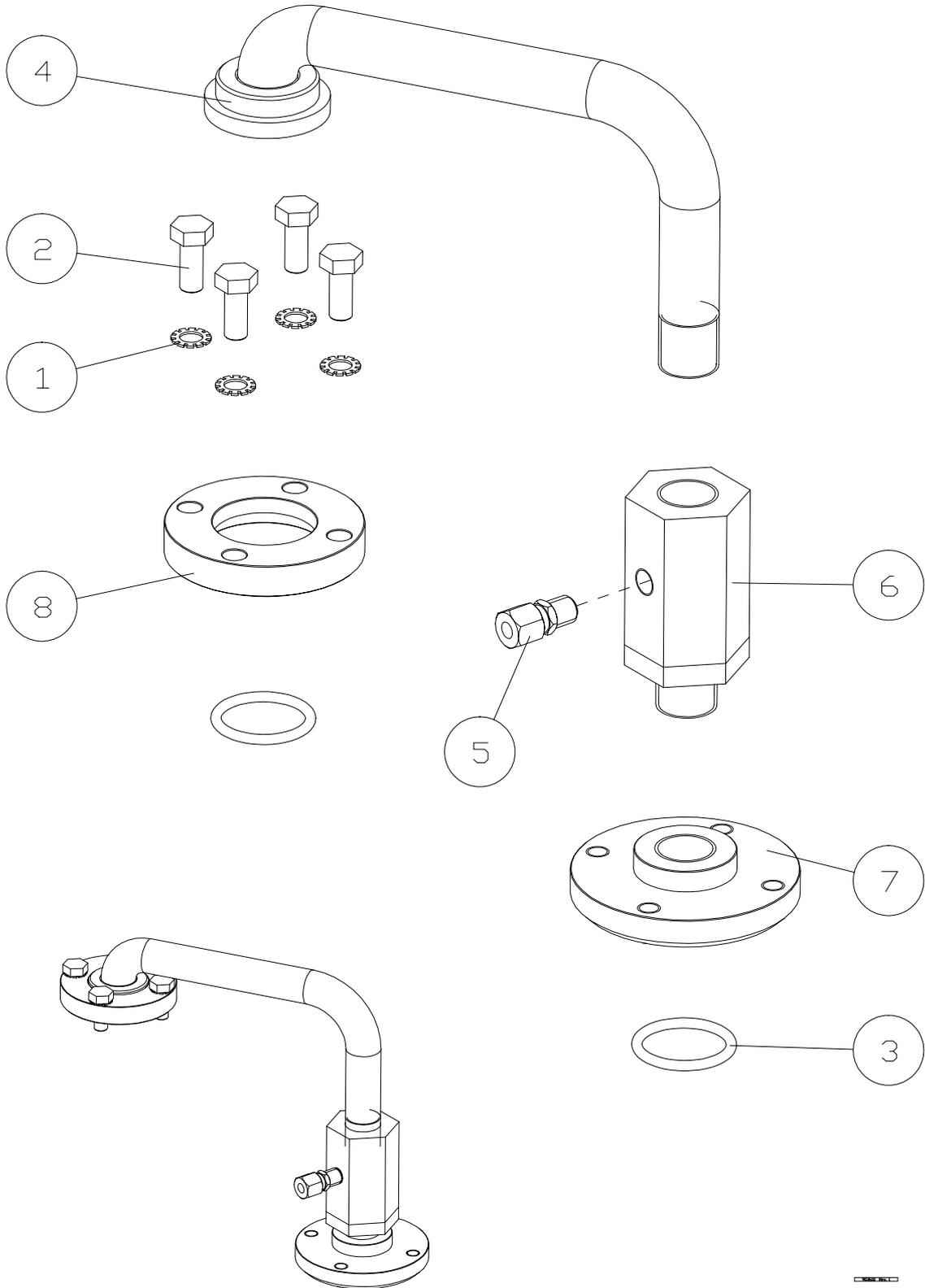
REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



4.5 Gas Separator Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	Rivet Blind Domed 3.2x8.0	Rivet Pop Bomb 3.2x8.0	900025-001	
3	O-ring 98.00x3.50	Joint Torique 98.00x3.50	900050-037	
4	O-ring 62.00x3.50	Joint Torique 62.00x3.50	900050-038	
5	O-ring 37.00x1.50	Jont Torique 37.00x1.50	900050-039	
6	O-ring 29.30x3.60	Joint Torique 29.30x3.60	900050-040	
7	Air Separator body painted	Degazeur soude peint	902712	
8	Bracket filter	Support de filtre	902713	
9	Jet Air Separator	Gicleur de degazeur	902721	
10	Check Valve Assy	Ensemble clapet anti retour	902728	
11	Plate serial air sep LPG	Plaque identif degaz GLP	902763	
12	LPG complete filter	Filtre complet GPL	902884	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



Issue A

4.6 Outlet Assembly - Gas Separator

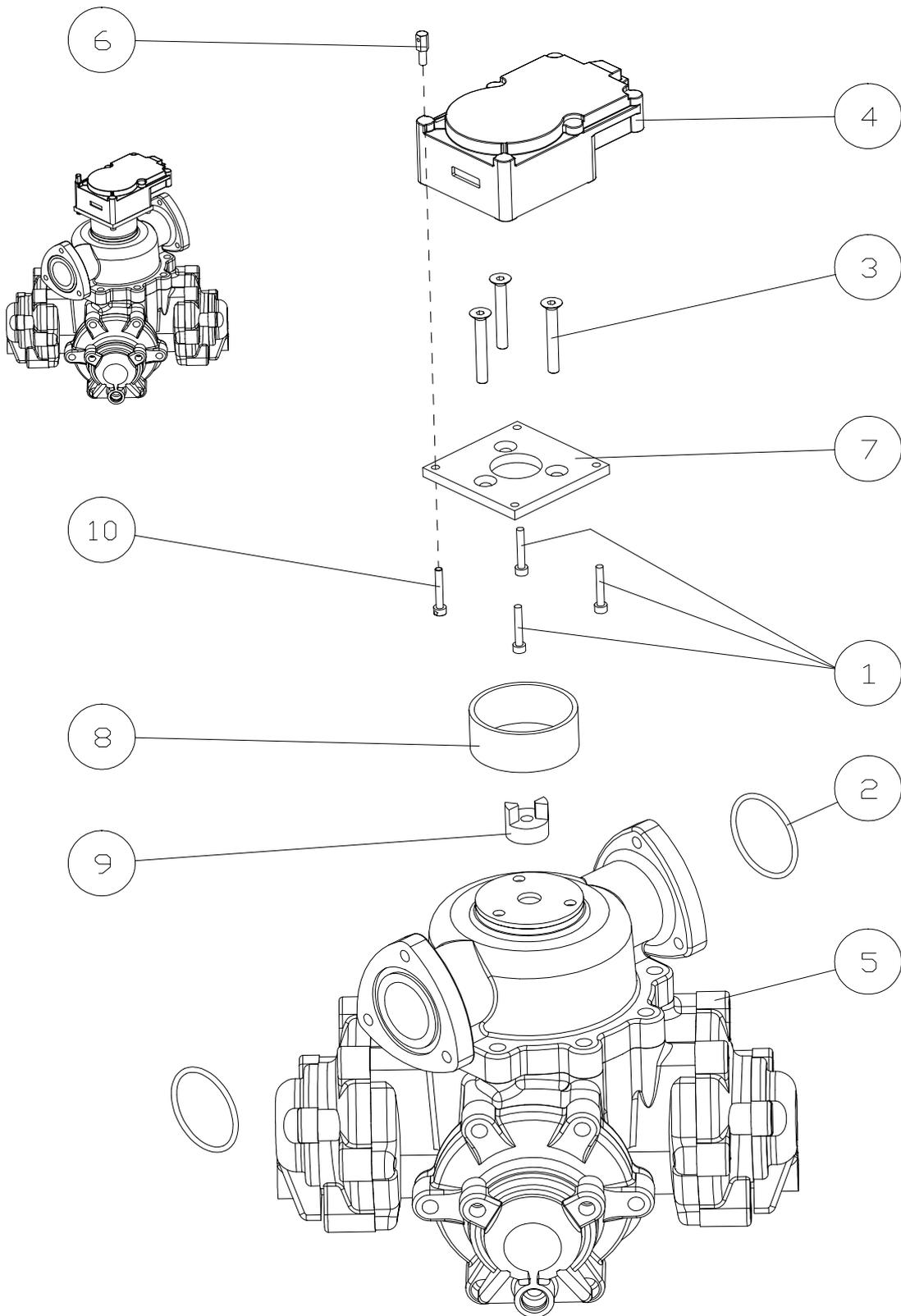
Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M8	Rondelle a Dents DEC M8	900009-002	
2	Screw HH M8x20	Vis H M8x20	900015-018	
3	O-ring 29.30x3.60	Joint Torique 29.30x3.60	900050-040	
4	Pipe - gas outlet weld assy	Tubulure phase gazeuse soude	903251	
5	Connector - straight D6-R1/8"	Rac Piq male 6-1/8	M185276	
6	Valve assy - non-return	Clapet anti retour monte	P154492	
7	Flange - F 1/2" NPT with groov	Bride F 1/2 NPT avec gorge	P813616B	
8	Flange - gas pipe fixing	Bride fixation tubulure ph gaz	P813911B	

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

4.7 Differential Valve & Gauge Assembly (Preset valve & Non-preset valve)

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	Screw HSHC M8x60	Vis CHC M8x60	900017-019	
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	Valve Differential Assy	Vanne Differentielle asm	902980	
9	Adaptor manometer	Embase pour manometre	902984	
10	Excess flow valve assy	Limiteur de debit asm	902985	
11	Gauge 63mm 0-40 bar R1/4	Manometre 63mm 0-40 bar R1/4	903033-001	
12	Valve - ball, b/fly 14 NPT	Vanne BS Poig Papillon 1/4 NPT	903035-001	
13	Nipple - 1/4" NPT	Mamelon 1/4 NPT	M036154	
14	Coupling - QR Fem Staubli 1/4 NPT	Raccord Staubli 1/4 NPT	M036155	
15	Coupling - QR Male Staubli 1/4 NPT	Embout Raccord Staubli 1/4 NPT	M036156	
16	Valve - pressure relief	Soupape de securite	M262809	
17	Cup seal assy	Coupelle de plumage asm	P153661	
18	Screw - sealing	Vis de plumage	P262663	
19	Connector - pressure relief valve	Embase soupape	P262737	
20	Tee - Dia 6-Dia 6-1/8	Rac T M Cen 6-1/8	P511746	
21	Flange - male 3/4 NPT with groove	Bride electrovanne male 3/4 NPT	P813917B	
22	Flange - male 3/4 NPT without groove	Bride male 3/4 NPT (lg 35)	P814225B	

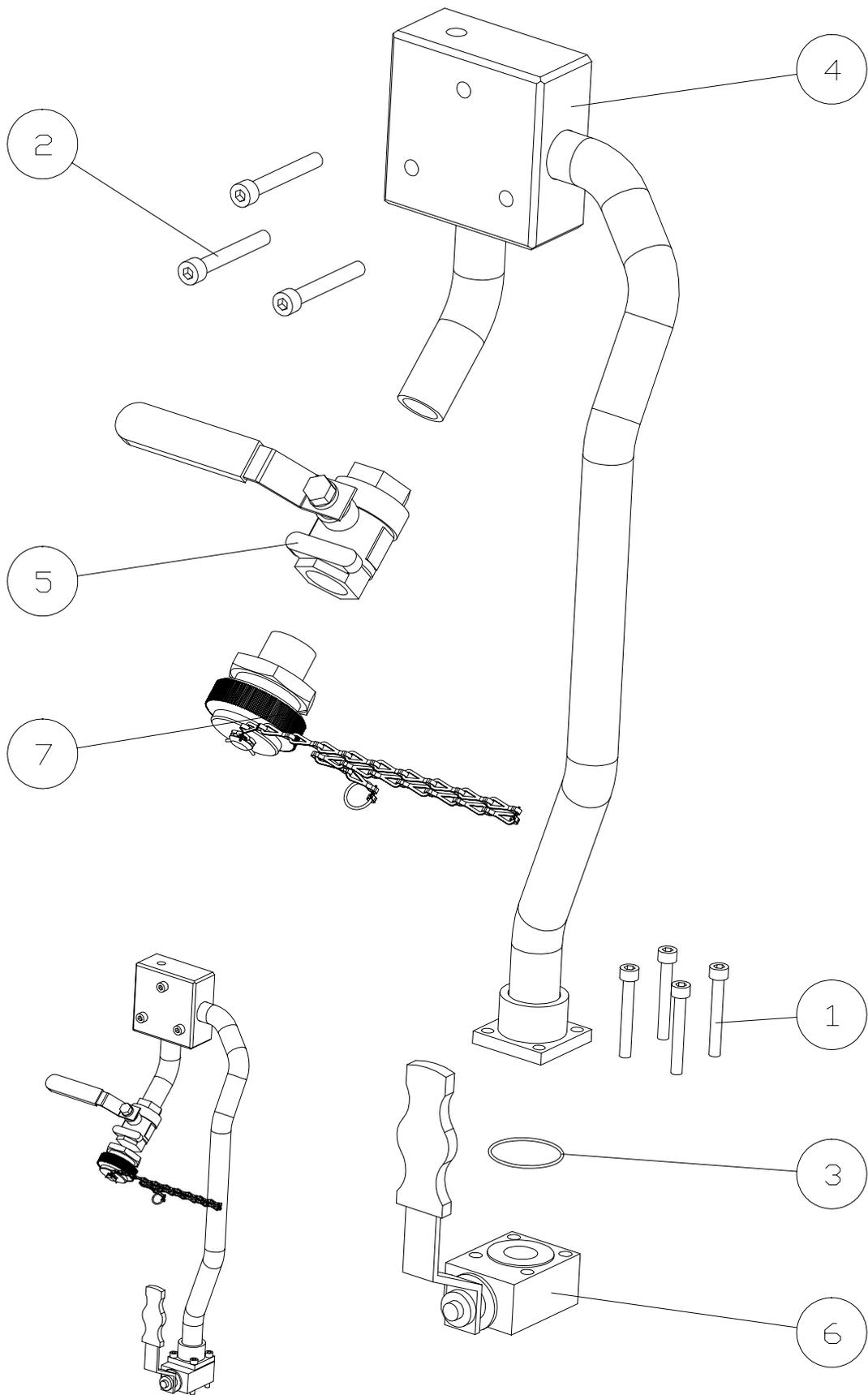
REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



4.8 Meter & Pulsar Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M4x25	Vis CHC M4x25	900017-020	
2	O-ring 46.00x3.00	Joint Torique 46.00x3.00	900050-042	
3	Screw HSC M6x45	Vis FHC M6x45	900643-006	
4	Pulsar - Eltomatic with tote	Emetteur ELTO avec tote	903607	
	Pulsar - Eltomatic without tote	Emetteur ELTO sans tote	903031	
5	Meter LPG 700 assy	Mesureur GPL 700 assemble	P153733	
6	Screw - pulsar sealing	Vis de plombage emetteur	P813091	
7	Bracket - pulsar	Support emetteur	P814073	
8	Spacer - pulsar	Entretoise	P814074FOA	
9	Drive - pulsar	Entraineur	P814075	
10	Screw - sealing HSHC M4x25	Vis de plombage CHc M4x25	P814224	

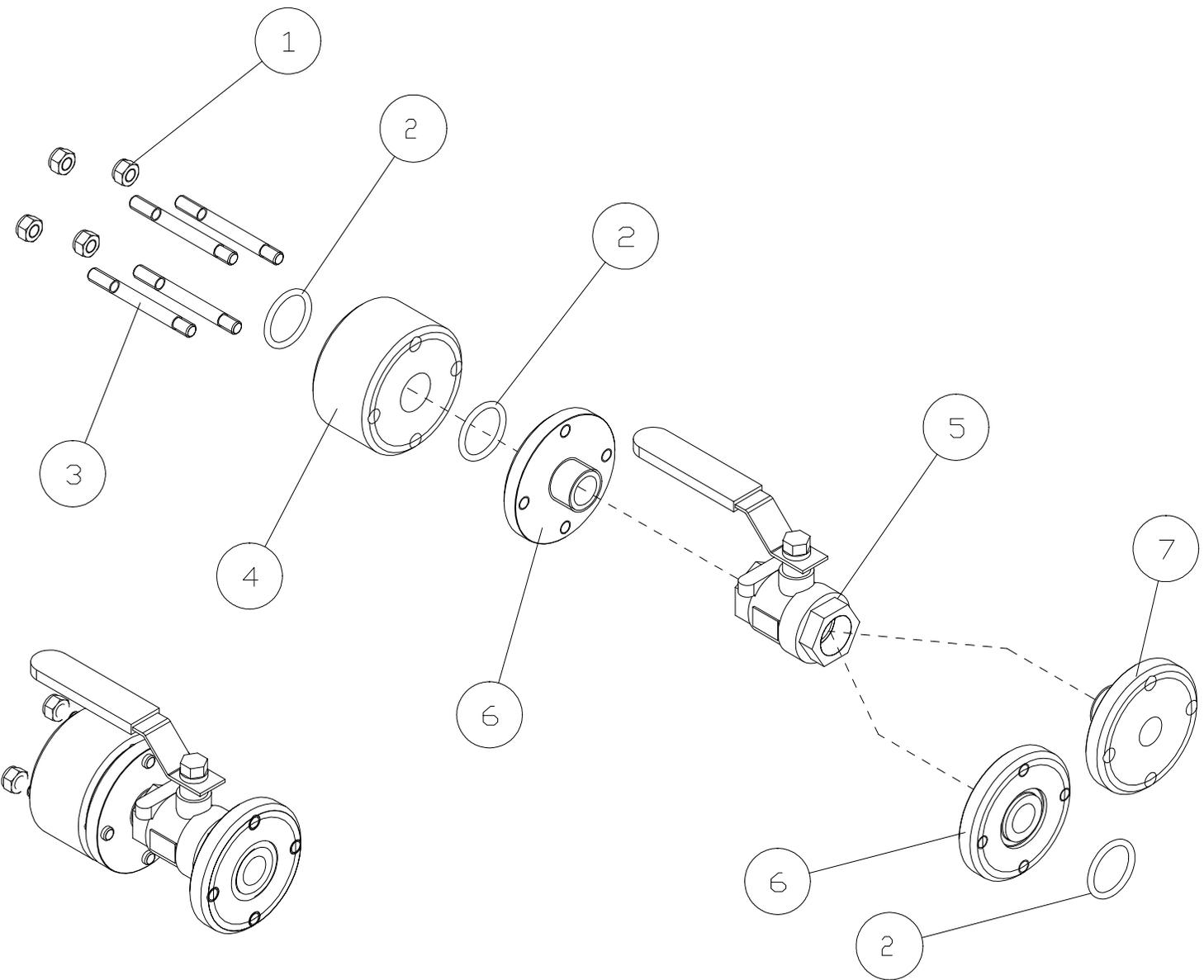
REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



4.9 Meter Pipe & Test Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M6x45	Vis CHC M6x45	900017-018	
2	Screw HSHC M8x60	Vis CHC M8x60	900017-019	
3	O-ring 37.00x1.50	Jonit Torique 37.00x1.50	900059-039	
4	Pipe outlet air separator assy	Tubulure sortie degaz asm	903020	
5	Valve - 1/4 turn ball 3-4" NPT	Vanne Boiss Spheriq 3/4" NPT	M034555_NF	
6	Valve - 1/4 turn flanged	Vanne 1/4 de tour	M508632	
7	Plug Assy - ACME	Bouchon ACME monte	P508633	

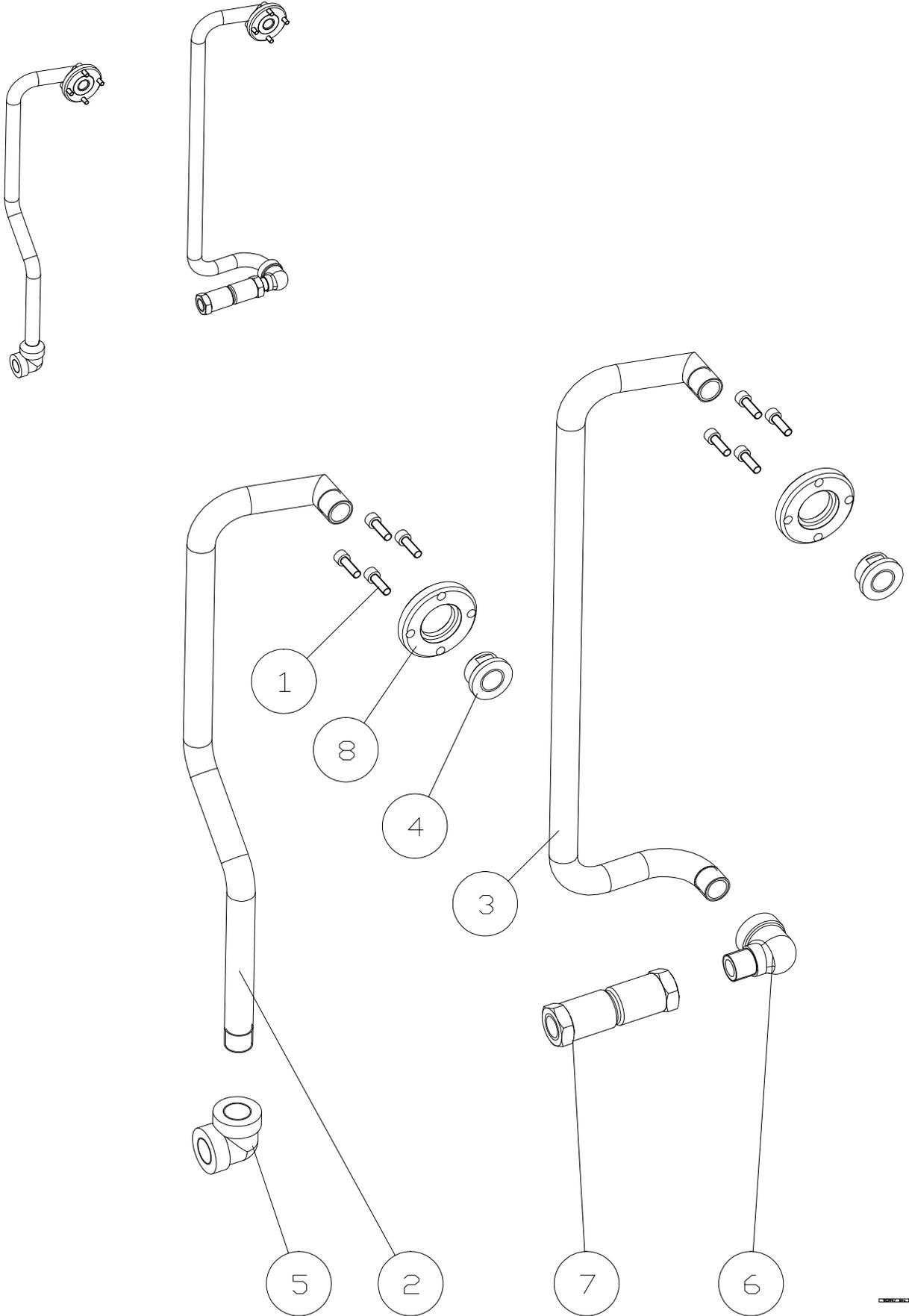
REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



4.10 Ball Valve Assembly (Gas & Liquid Phase)

Item No	Description	Désignation Français	Part No	Quantity	Comments
1	Nut Hex Prev Toruq M8	Ecrou Frein M8	900012-005	4	
2	O-ring 29.30x3.60	Joint Torique 29.30x3.60	900050-040	3	
3	Stud M8x80 (bm12)	Goujon M8x80 (bm12)	902931-002	4	
4	Spacer LPG 45mm	Entretoise GPL 45mm	903501	1	
5	Valve - 1/4 tum ball 3/4" NPT	Banne Boiss Spheriq 3/4" NPT	M034555_NO		
6	Flange - male 3/4" NPT with groove	Bride electrovanne male 3/4 NPT	P813917B		
7	Flange - male 3/4" NPT without groove	Bride male /4 NPT (lg 35)	P814225B		Liquid Phase only

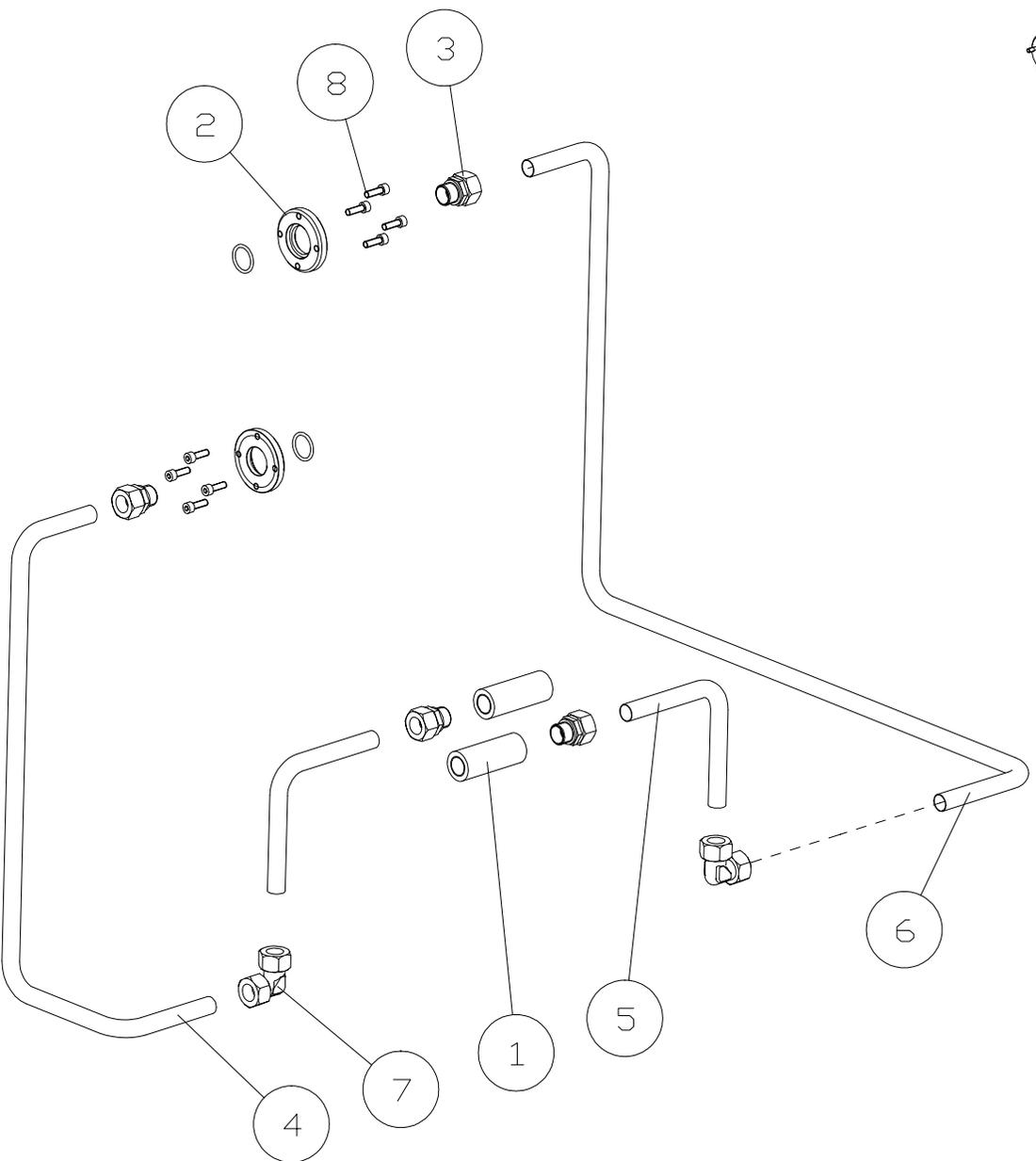
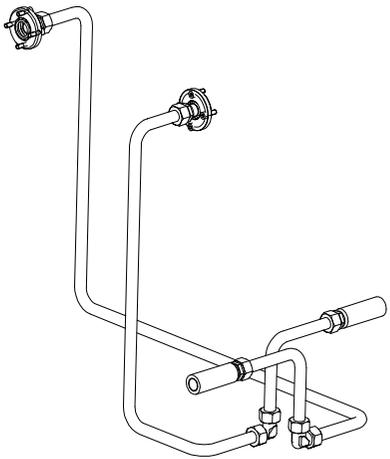
REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS



Issue A

4.11 Valve to Hose Assembly (Q300T LPG)

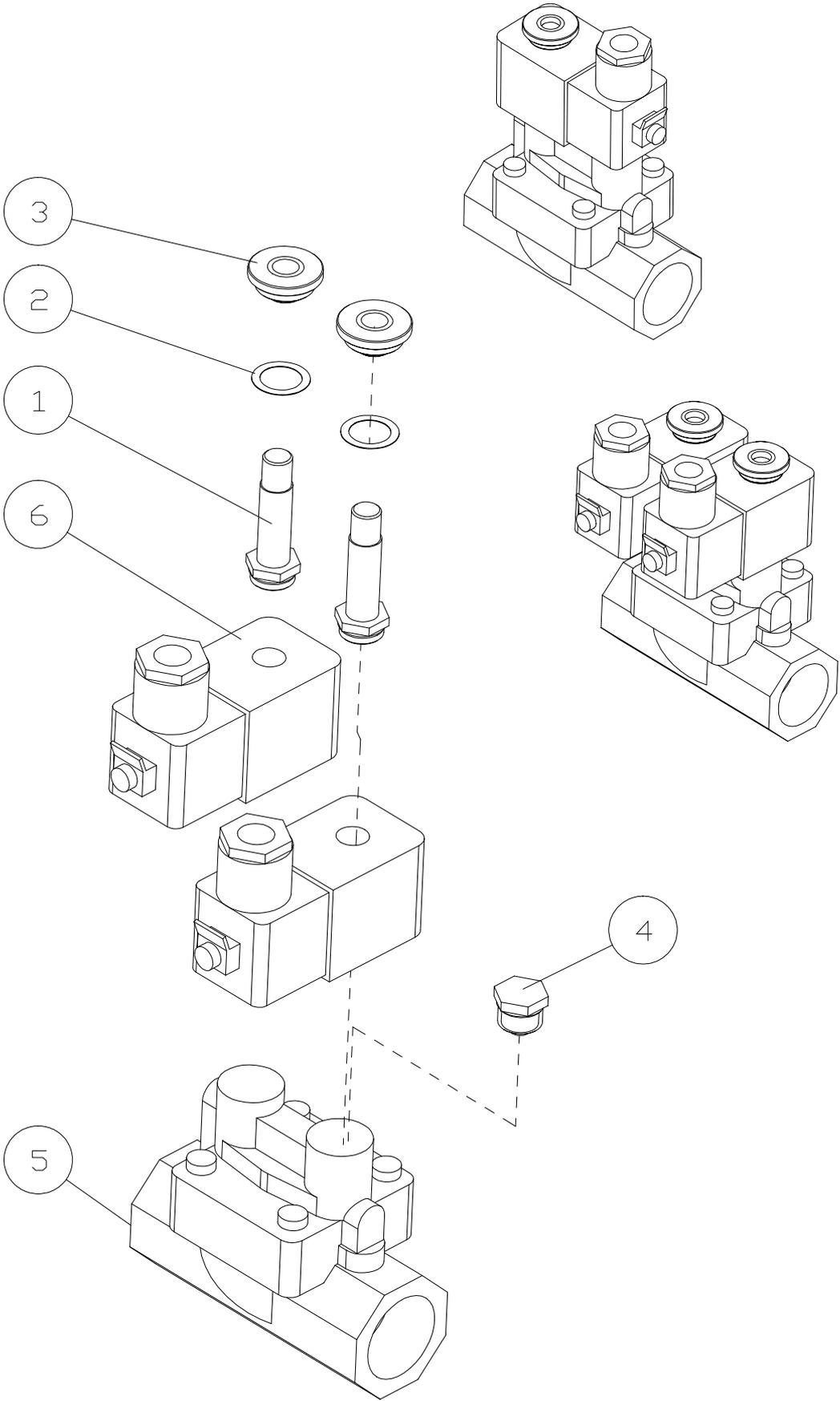
Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M8x25	Vis CHC M8x25	900017-003	
2	Pipe - Meter to hose	Tubulure mesureur flexible	900212	
3	Pipe - Meter to hose France	Tubulure mes / flex france	900588	French option only
4	Adaptor - Female 3/4" NPT	Embout femelle 3/4" NPT	902125	
5	Elbow F/F 3/4" NPT	Coude F/F 3/4" NPT	902361-001	
6	Elbow M/F 3/4" NPT	Coude M/F 3/4" NPT	902362-001	French option only
7	Break coupling - 3/4" NPT	Raccord cassant 3/4" NPT	902363-001	French option only
8	Flange - rotating	Bride tournante trous lisses	902400	



Issue A

4.12 Valve to Hose Assembly (Q500T LPG)

Item No	Description	Désignation Français	Part No	Comments
1	Socket 3/4" NPT - 3/4" NPT LPG	Douille 3/4" NPT - 3/4" NPT GPL	901239	
2	Flange - rotating threaded	Bride tournante trou taraude	902945	
3	Coupling Str. Male Stud E0-2	Raccord Dr. Mal Goujon E0-2	903297	
4	Pipe 1-LPG stack-hose side A	Tube Liaison 1/Flex Face A	903667	
5	Pipe LPG HMS - Hose	Tube Liaison HMS / Flex	903668	
6	Pipe LPG stack hose side B	Tube Liaison 1/Flex Face B	903669	
7	22mm elbow E02	22mm Coude E02	903689-001	
8	Screw HSHC M8x25	Vis CHC M8x25	900017-003	



Issue A

4.13 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

REFER TO SECTION 6 FOR RECOMMENDED SPARE PARTS

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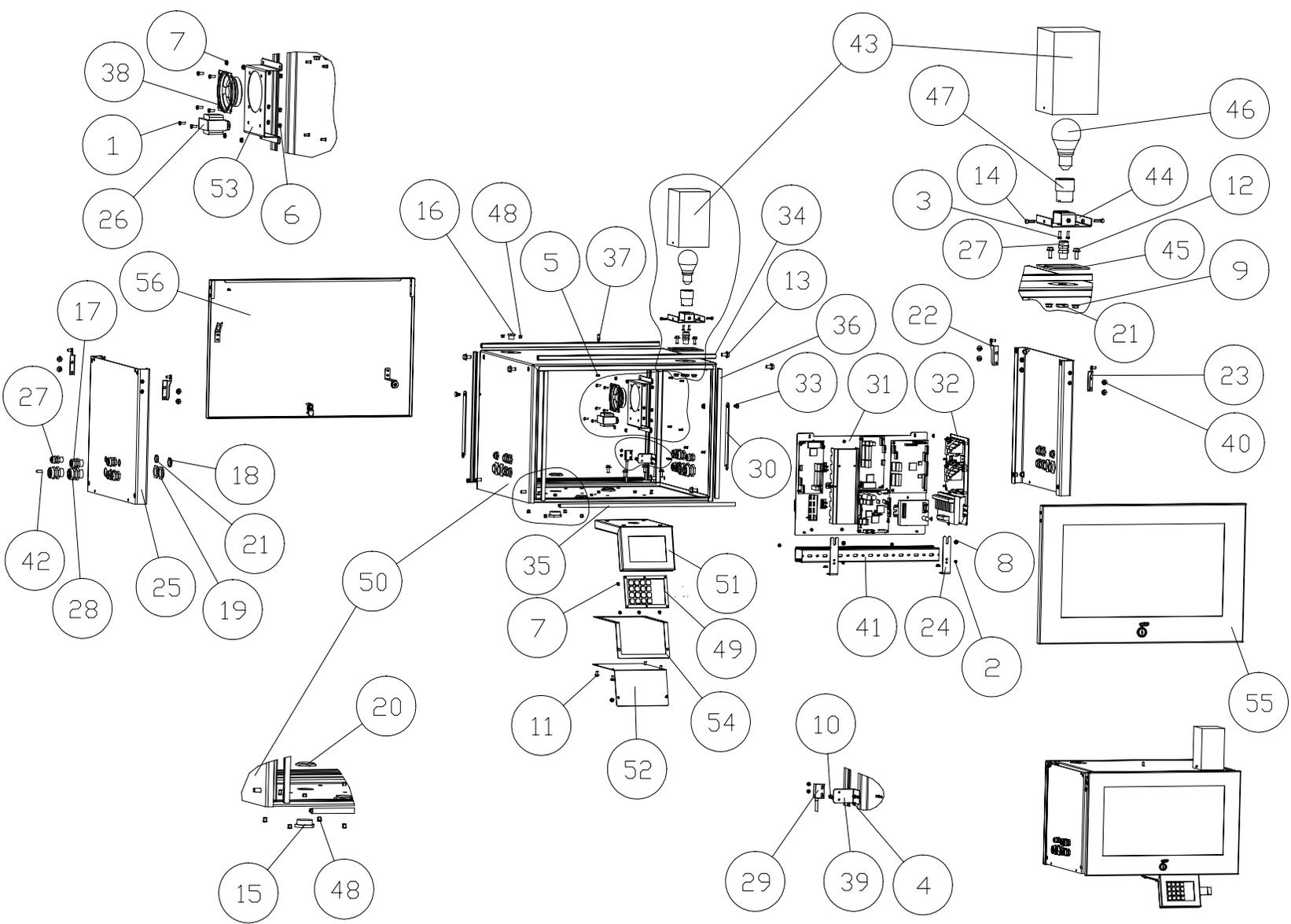
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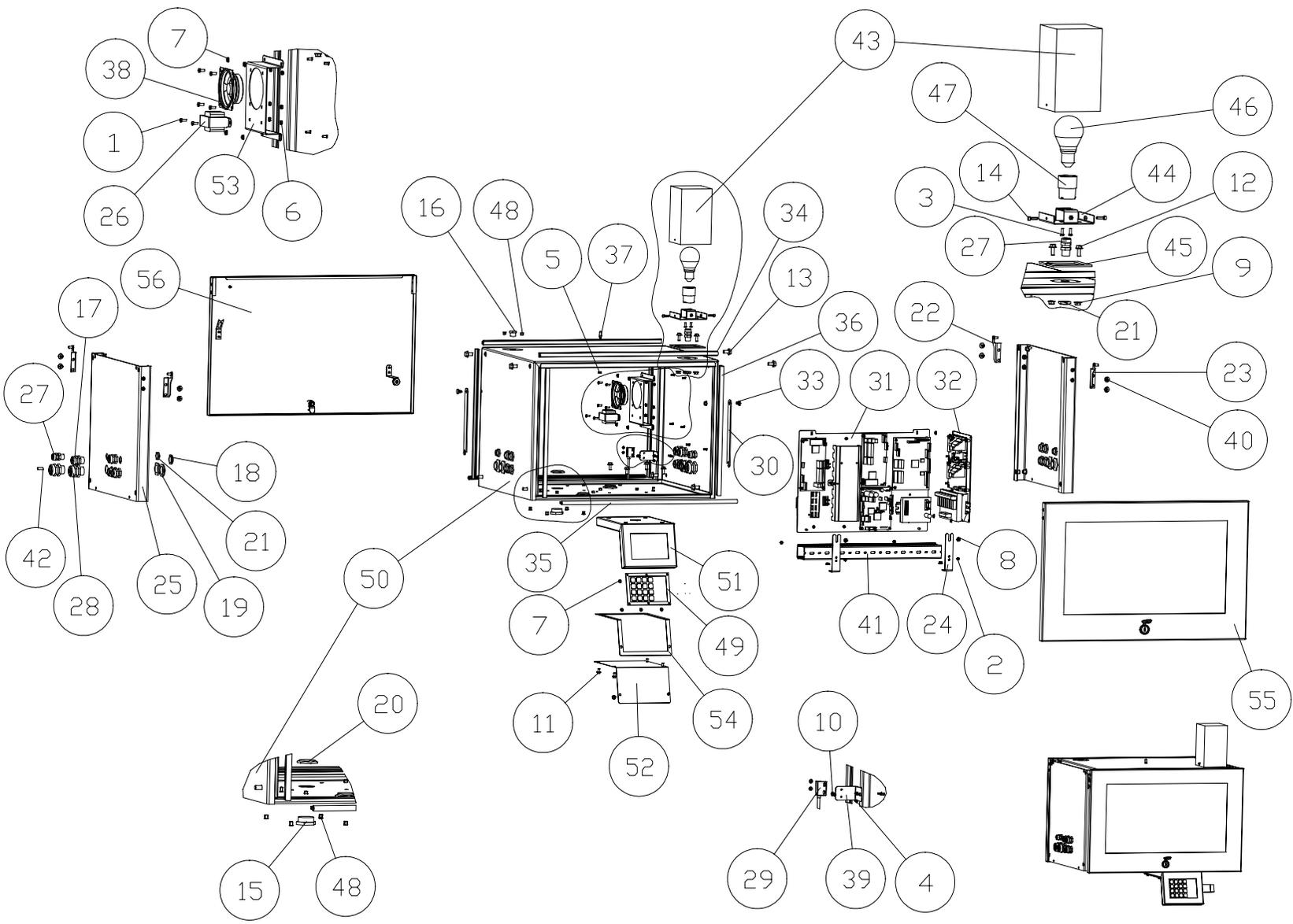


5.1 Q300T Electronics

5.1.1 CALCULATOR HEAD ASSEMBLY (Q300T LPG ONLY)

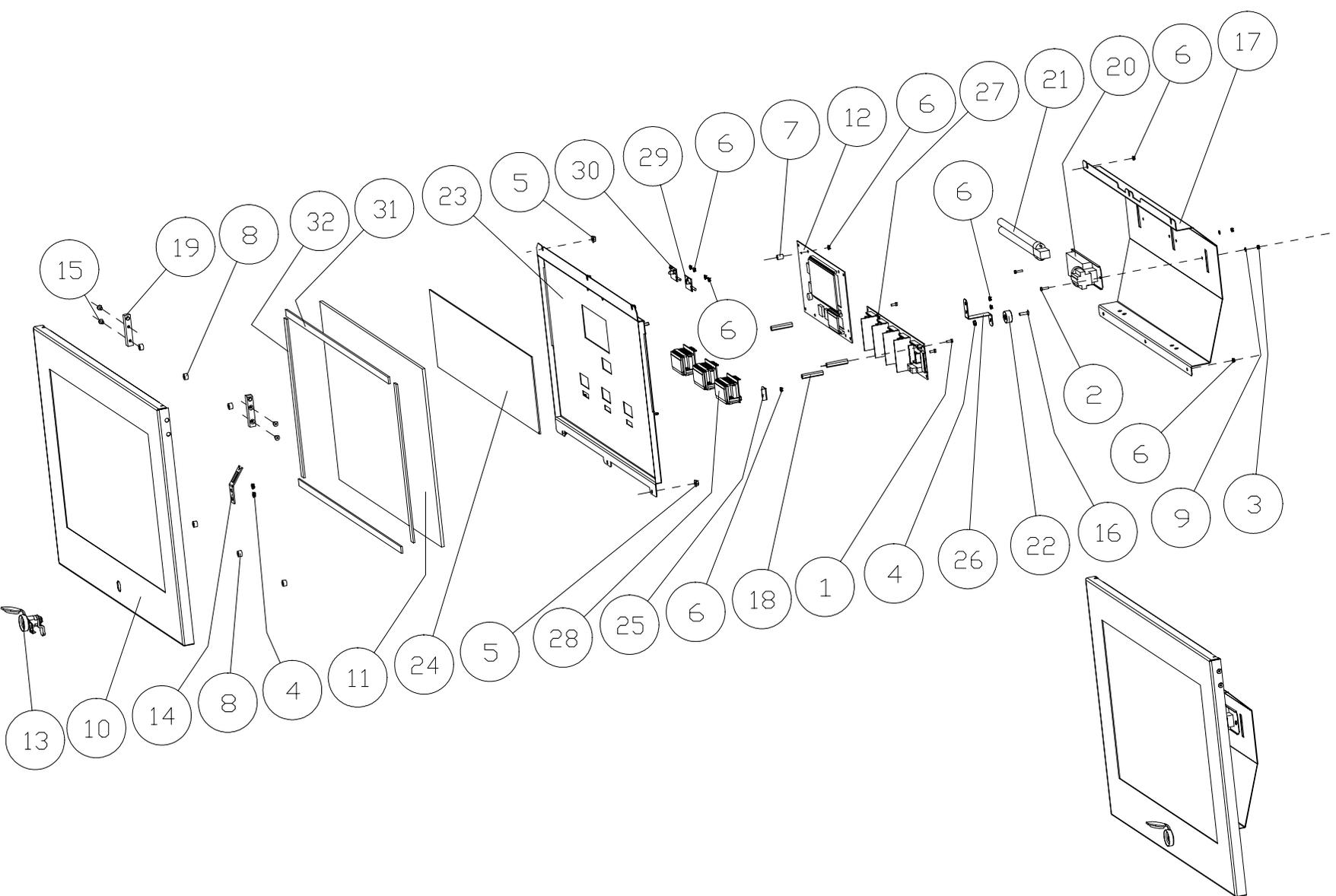
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x10	Vis CS M4x10	900007-001	
2	Screw SCH M4x8	Vis CS M4x8	900007-003	
3	Screw SCH M4x12	Vis CS M4x12	900007-006	
4	Screw SCH M3x8	Vis CS M3x8	900007-008	
5	Nut Hex M5	Ecrou H M5	900011-002	
6	Nut Hex M4	Ecrou H M4	900011-005	
7	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
8	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
9	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
10	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
11	Screw HFHSL M5x10	Vis Hex Br Autobl M5x10	900016-001	
12	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
13	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
14	Screw HSHC M4x16	Vis CHC M4x16	900017-014	
15	Plug M32 x 1.5 EExE/IP66	Bouchon PG M32 x 1.5 EExE/IP66	900044-003	
16	Plug M16 x 1.5 EExE/IP66	Bouchon PG M16 x 1.5 EExE/IP66	900044-004	
17	Gland M20x1.5 Eexe II/IP66-68 1x 8-13mm Gland M20 Eexe/IP66 1x5-8mm Gland M20 Eexe/IP66 1x5-9mm Gland M20 IP66 2x5mm	PE M20x1.5 Eexe II/IP66-68 1x 8-13mm PE M20 Eexe/IP66 1x5-8mm PE M20 Eexe/IP66 1x5-9mm PE M20 IP66 2x5mm	900064-001 901478-001 901404-001 901479-001	Blue colour
18	Nut Hex M20 x 1.5 (Bartec)	Ecrou Hex M20 x 1.5 (Bartec)	900088-001	
19	Nut Hex M25 x 1.5 (Bartec)	Ecrou Hex M25 x 1.5 (Bartec)	900088-002	
20	Nut Hex M32 x 1.5 (Bartec)	Ecrou Hex M32 x 1.5 (Bartec)	900088-003	
21	Nut Hex M16 x 1.5 (Capri)	Ecrou Hex M16 x 1.5 (Capri)	900088-004	
22	Hinge bracket A2/B1 side assy	Equerre côté A2/B1 asm	900171	
23	Hinge bracket A1/B2 side assy	Equerre côté A1/B2 nue asm	900172	
24	Bracket - WWC Bottom	Support bas WWC	900175	
25	Airgap Assy	Air gap asm	900179	
26	8 Ohm Speaker Transformer	8 Ohm Transformateur Haut Parl	900302	
27	Gland M16x1.5 EexeII/IP66-68 1x 5-8mm	PE M16x1.5 EexeII/IP66-68 1x 5-8mm	900362-001	

(Cont.)



5.1.1 CALCULATOR HEAD ASSEMBLY (CONT.)

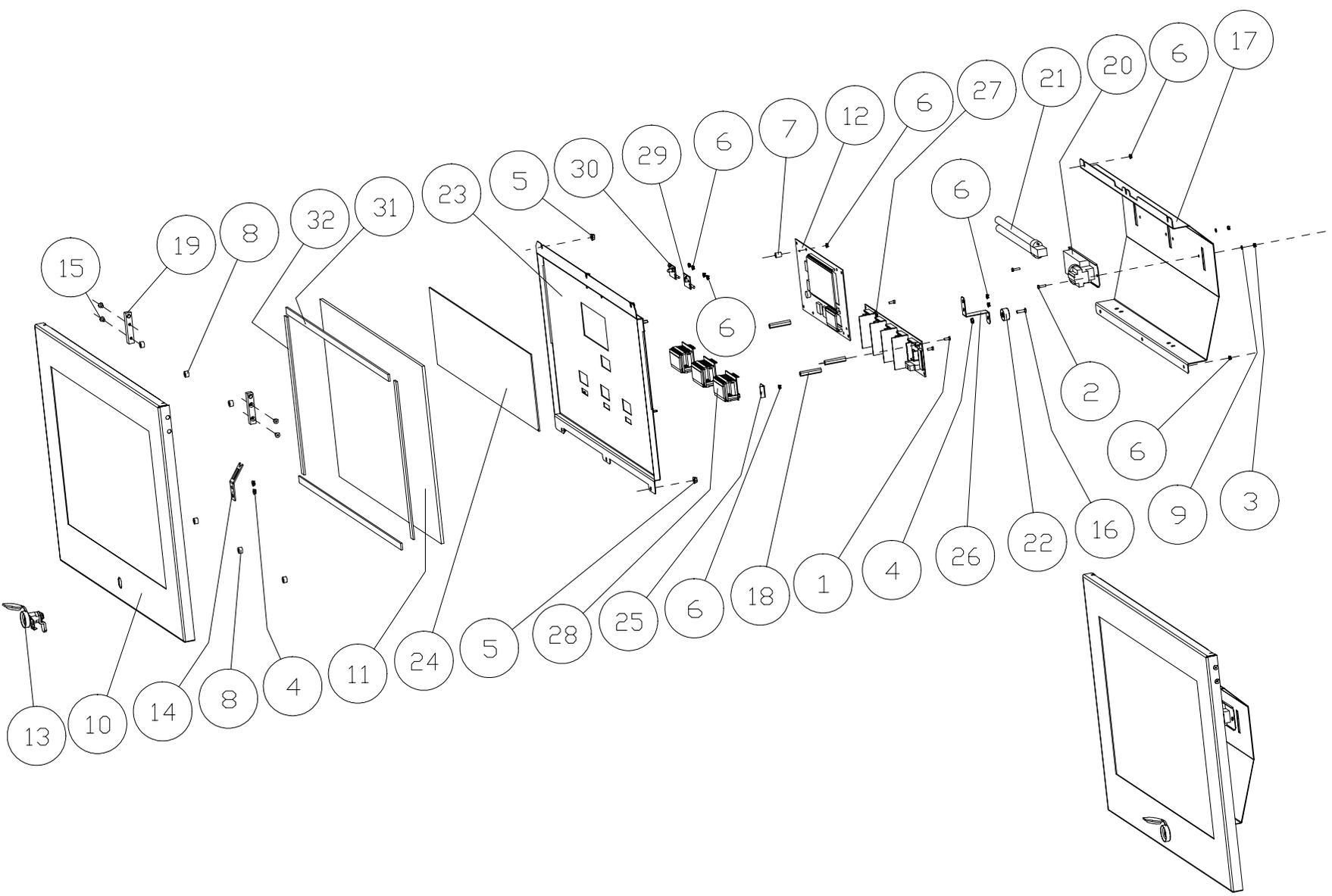
Item No	Description	Désignation Français	Part No	Comments
28	Gland M25x1.5 IP66 4x 6mm	PE M25x1.5 IP66 4x 6mm	900363-001	
29	Magnetic Proximity Switch	Contact magnetiq de proximité	900387-001	
30	Stay Arm Calc Door	Bras arret porte Calc	900578	
31	WWC CP Assembly Gen	WWC CP assemblée Gen	900603	
32	WWC Option Bracket Assembly	WWC Option Encadre assemblée	-	Refer to Page 5-34
33	Screw HH Fit M6x8.5	Axe Articulation Beq M6x8.5	900728-001	
34	Rubberseal calc top	Joint tube EMKA 1011-06	900729-001	
35	Rubberseal calc bottom	Joint tube EMKA 1011-05	900730-001	
36	Rubberseal calc side	Joint tube EMKA 1011-05	900730-002	
37	Silencer	Amortisseur Du Son	900748	
38	8 ohm pa speaker	8 ohm pa haut parl	901057	
39	Bracket - Prog reed switch	Support contact inter prog	901189	
40	Screw SRH M6x12	Vis RLS M6x12	901361-001	
41	Cable Cover L=450mm	Cable couvrir L=450m	901953	
42	Blindplug 6.5x17	Bouchon PE 6.5x17	901975-001	
43	OPT lamp cover	OPT abot jour	902307	
44	OPT lamp base	OPT garniture	902308	
45	OPT lamp seal	OPT etancheteite	902309	
46	Lamp	Lampe	902312-001	
47	E27 lamp fitting	E27 garniture	902313-001	
48	Plug Heyco D6.5	Bouchon Heyco D6.5	902330-002	
49	Membrane Keyboard 4x4	Clavier Prede 4x4	902470	
50	Head assy	Tête asm	900658	
	Head OPT/Preset keypad options	Tête OPT asm	902481	
	Head - mechanical register models	Tête mecanique 300T asm	902100	
51	Box - Preset keypad welded	Clavier prédé - support asm	902483	
52	Cover - Preset keypad	Clavier prédé - couvercle	902484	
53	Bracket - Speaker	Support Haut Parleur	902509	
54	Gasket - Preset keypad box	Etanchiete Clavier prédé	902603	
55	LCD Display Door assembly	Portil equipe LCD asm	-	Refer to Page 5-6
	FP Display Door assembly	Portil equipe FP asm	-	Refer to Page 5-10
56	Door - head blank welded	Portillon aveugle soudé	-	No Display only - refer to Page 5-6



5.1.2 DOOR ASSEMBLY [LCD DISPLAY & NO DISPLAY]

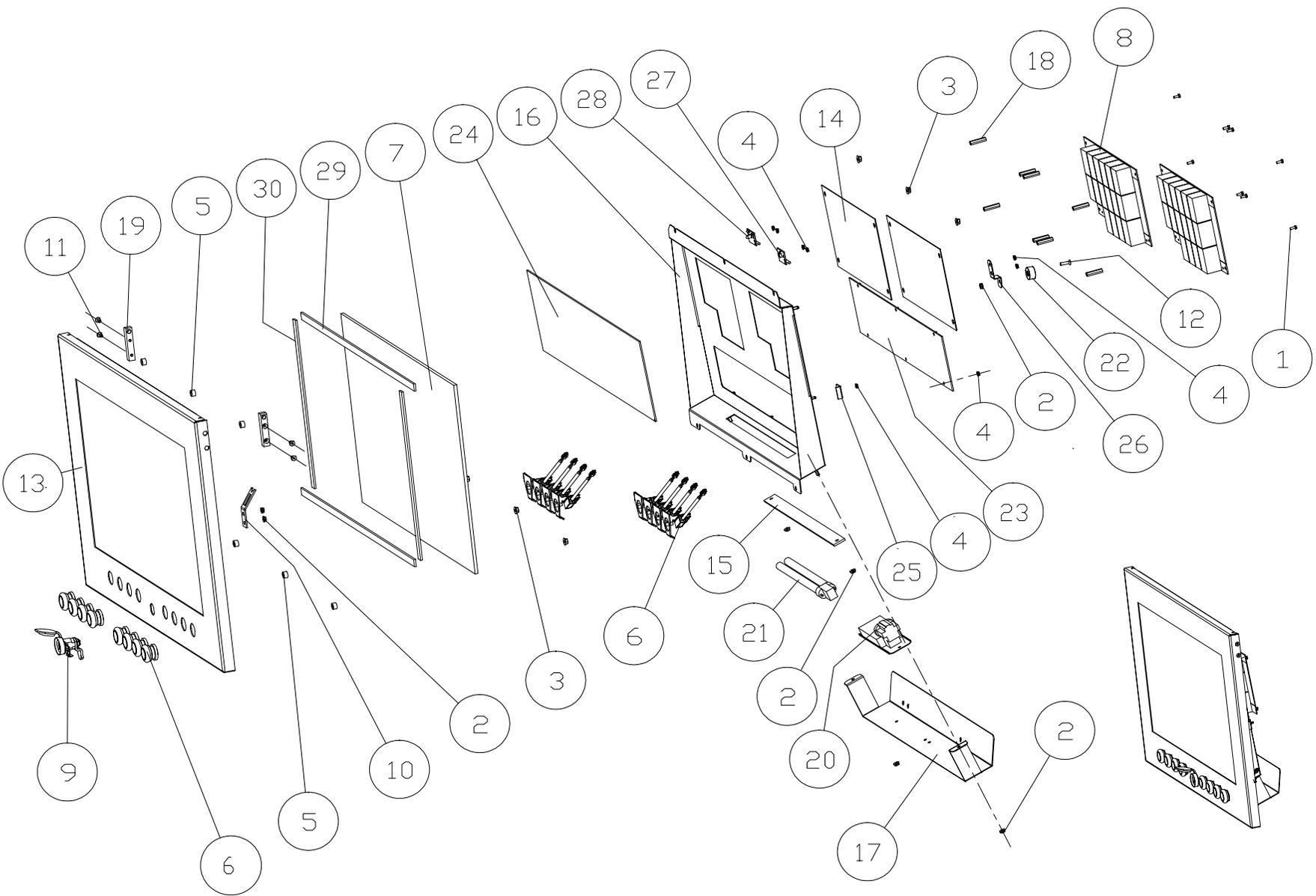
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	Vis CS M3x8	900007-008	
2	Screw SCH M3x12	Vis CS M3x12	900007-010	
3	Nut Hex M3	Ecrou H M3	900011-008	
4	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	Also No Display
5	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
6	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	Also No Display
7	Spacer 4.2x8.0x10.0	Entretoise Cyl 4.2x8.0x10.0	900024-003	
8	Spacer 5.2x10.0x6.0	Entretoise Cyl 5.2x10.0x6.0	900024-004	
9	Washer Spring Lock M3	Rondelle Elast W3	900051-002	
10	Door - head welded	Portillon soudé	900157	No display only
	Door - head 2x4 preset button weld	Portillon 2x4 btns prede soudé	900662	
	Door - head 1x4 preset R weld	Portillon 1x4 btns droit soudé	901048	
	Door - head blank welded	Portillon aveugle soudé	900592	
11	Glass - dial	Glace de portillon	900170	
12	Customer Sales Display - LCD	Afficheur prix de vente - LCD	900382	Germany only - seals option
	Customer Sales Display - LCD	Afficheur prix de vente - LCD	902845	
13	Lock assembly	Serrure asm	-	Refer to Page 2-20
14	Stay Tab Calc Door	Fiche arret porte Calc	900577	Also No Display
15	Screw HSC M4x10	Vis FHC M4x10	900643-002	Also No Display
16	Screw HSC M4x16	Vis FHC M4x16	900643-003	
17	Reflector - LCD	Parabole lumière LCD	900691	
18	Spacer Thr Hex FF M3x38	Entretoise Hex FF M3x38	900711-008	
19	Hingebar brass	Gond porte colonne	900733	Also No Display
20	Ballast Socket Integrated	Ballast douille intégré	900738	
21	Lamp Fluorescent ORYX 11w	Tube Fluo ORYX 11w	900739	
22	Magnet 20x4.4x10	Aimant 20x4.4x10	900757-001	Also No Display

(Cont.)



5.1.2 DOOR ASSEMBLY [LCD DISPLAY & NO DISPLAY] (CONT.)

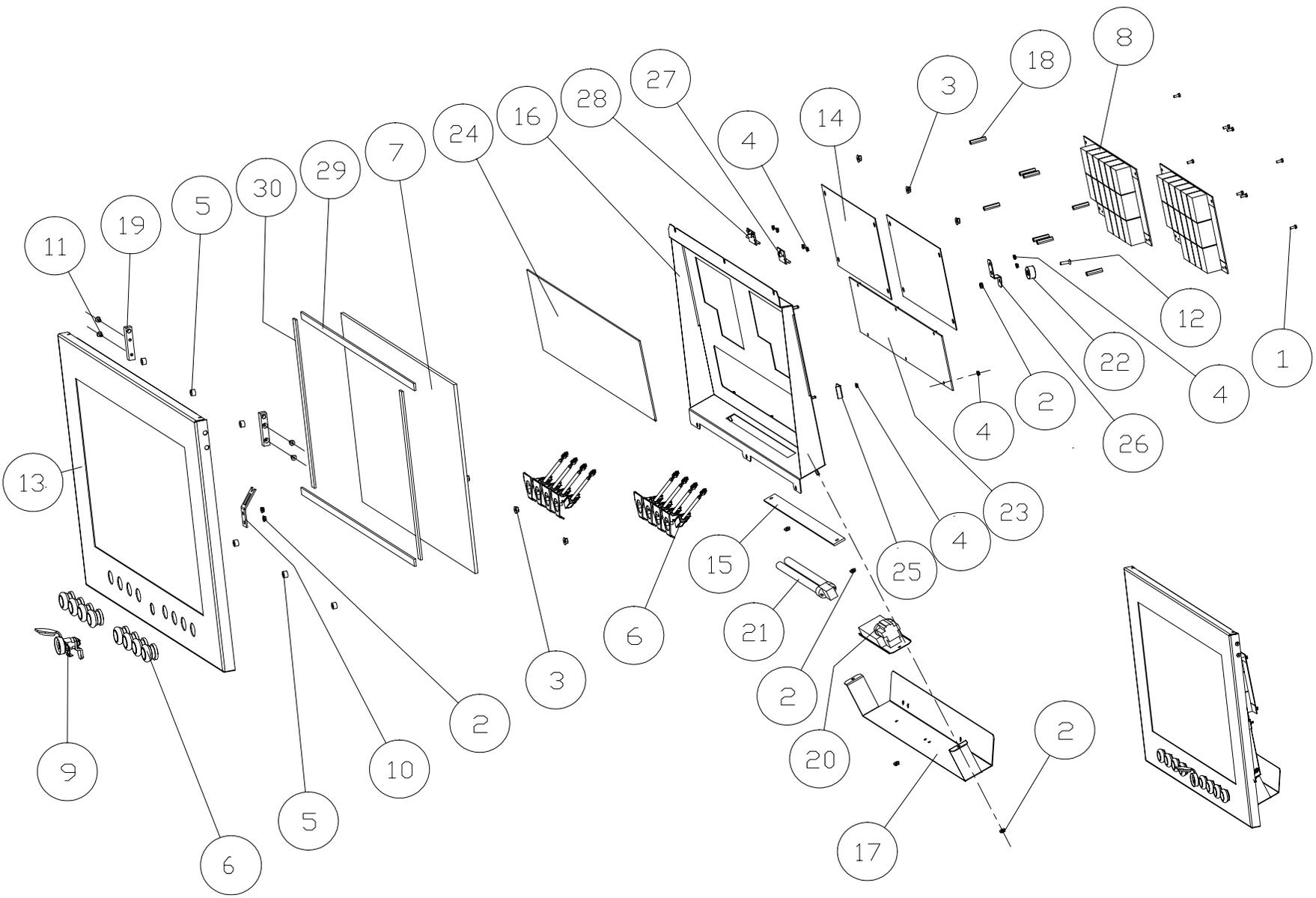
Item No	Description	Désignation Français	Part No	Comments
23	Dial plate 1x LCD EMT welded	Tremie simple LCD EMT soudé	901041	1 EMT
	Dial plate 2x LCD EMT welded	Tremie double LCD EMT soudé	901043	2 EMT
	Dial plate 1x LCD IPI welded	Tremie sple LCD RP soudé	900166	1 IPI
	Dial plate 2x LCD IPI welded	Tremie double LCD RP soudé	900164	2 IPI
	Dial plate 1x LCD UPD welded	Tremie simple LCD PU soudé	901030	1 UPD
	Dial plate 1x LCD welded	Trémie simple LCD soudé	901228	1 Std
	Dial plate 2x LCD welded	Trémie double LCD soudé	901226	2 Std
24	Plexi - Euro ready	Plexi indication Euro	901101	
25	Bracket plexi glass	Equerre pour plexi	901102	
26	Bracket - Prog switch magnet LCD	Support aimant inter prog LCD	901188	
	Bracket - Prog switch magnet blank	Supt aimant inter prog aveugle	901351	No display only
27	Optional Peripheral Unit - no EMT	PCB/WWC032/OPU/OPT PER UNIT	901354	
	Optional Peripheral Unit - 1 left EMT	PCB/OPU/1 PR gauche EMT	902921-001	
	Optional Peripheral Unit - 1 right EMT	PCB/OPU/1 PR droit EMT	902921-002	
	Optional Peripheral Unit - 2 left EMT	PCB/OPU/2 PR gauche EMT	902921-003	
	Optional Peripheral Unit - 2 right EMT	PCB/OPU/2 PR droit EMT	902921-004	
28	Unit Price Display Module	PCB/WWC033/ODU-UP/UPD PIGGY-BA	901355	
29	IR Remote Control LED Option	PCB/WWC019/LOB-IR/IR LED OPTION	901357	
30	VR Error LED Option	PCB/WWC019/LOB-ER/VR ERR LED OP	901358	
31	Gasket - Head door horizontal	Joint portillon horizontal	903284-001	
32	Gasket - Head door vertical	Joint portillon vertical	903284-002	



5.1.3 DOOR ASSEMBLY [FP DISPLAY]

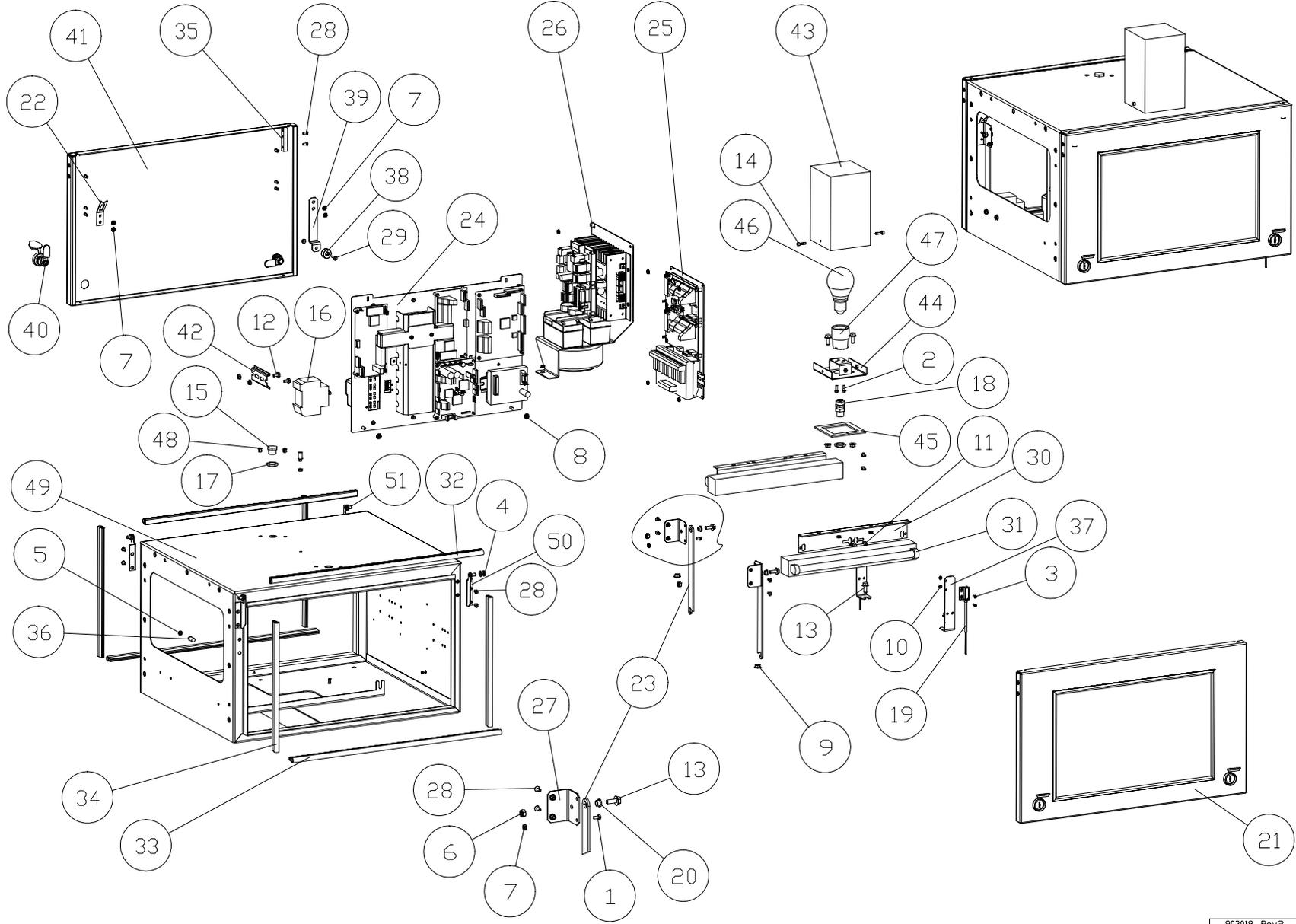
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	Vis CS M3x8	900007-008	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Spacer 5.2x10.0x6.0	Entretoise Cyl 5.2x10.0x6.0	900024-004	
6	Push Button Assembly	Bouton poussoir asm	-	Refer to Page 3-18
7	Glass - dial	Glace de portillon	900170	
8	Customer Sales Display - Ferranti	Afficheur prix de vente - Ferranti	900383	
	Customer Sales Display - Ferranti	Afficheur prix de vente - Ferranti	902844	Germany only - seals option
9	Lock Assembly	Serrure Fort Securite asm	-	Refer to Page 2-20
10	Stay Tab Calc Door Q500T	Fiche arret porte Calc	900577	
11	Screw HSC M4x10	Vis FHC M4x10	900643-002	
12	Screw HSC M4x16	Vis FHC M4x16	900643-003	
13	Door - head welded	Portillon soudé	900157	
	Door - head 2x4 preset button weld	Portillon 2x4 boutons prede soudé	900662	
	Door - head 1x4 prst R weld	Portillon 1x4 boutons droit soudé	901048	
	Door - head blank welded	Portillon aveugle soudé	900592	No display only - refer to Page 5-6
14	Dialplate Window FP	Protection Afficheur Ferranti	900667	
15	Light Diffuser FP	Capot diffusant Ferranti	900669	
16	Dial plate 2x FP IPI welded	Trémie dble FP RP soudée	900680	
	Dial plate 1x FP IPI welded	Trémie sple Ferranti RP soudé	900682	
	Dial plate 1x FP EMT welded	Trémie sple aff Ferranti EMT	900685	
	Dial plate 2x FP EMT welded	Trémie dble Ferranti EMT asm	900687	
	Dial plate 1x FP UPD welded	Tremie sple FP PU soudé	901017	
	Dial plate 2x FP welded	Trémie double FP soudé	901230	
	Dial plate 1x FP welded	Trémie simple FP soudé	901232	
17	Bracket - light FP	Support éclairage Ferranti	900690	

(Cont.)



5.1.3 DOOR ASSEMBLY [FP DISPLAY] (CONT.)

Item No	Description	Désignation Français	Part No	Comments
18	Spacer Thr Hex FF M3x25x7	Entretoise Hex FF M3x25x7	900711-009	
19	Hingebar brass	Gond porte colonne	900733	
20	Ballast Socket Integrated	Ballast douille intégré	900738	
21	Lamp Flourescent ORYX 11w	Tube Fluo ORYX 11w	900739	
22	Magnet 20x4.4x10	Aimant 20x4.4x10	900757-001	
23	Plexi - Lighted product indic	Plexi rappel produit Brut	901071	
24	Plexi - Euro ready	Plexi indication Euro	901101	
25	Bracket plexi glass	Equerre pour plexi	901102	
26	Bracket - Prog switch magnet FP Bracket - Prog switch magnet blank	Support aimant inter prog FP Supt aimant inter prog aveugle	901190 901351	No display only - refer to Page 5-6
27	IR Remote Control LED Option	PCB/WWC019/LOB-IR/IR LED OPTION	901357	
28	VR Error LED Option	PCB/WWC019/LOB-ER/VR ERR LED OP	901358	
29	Gasket - Head door horizontal	Joint portillon horizontal	903284-001	
30	Gasket - Head door vertical	Joint portillon vertical	903284-002	



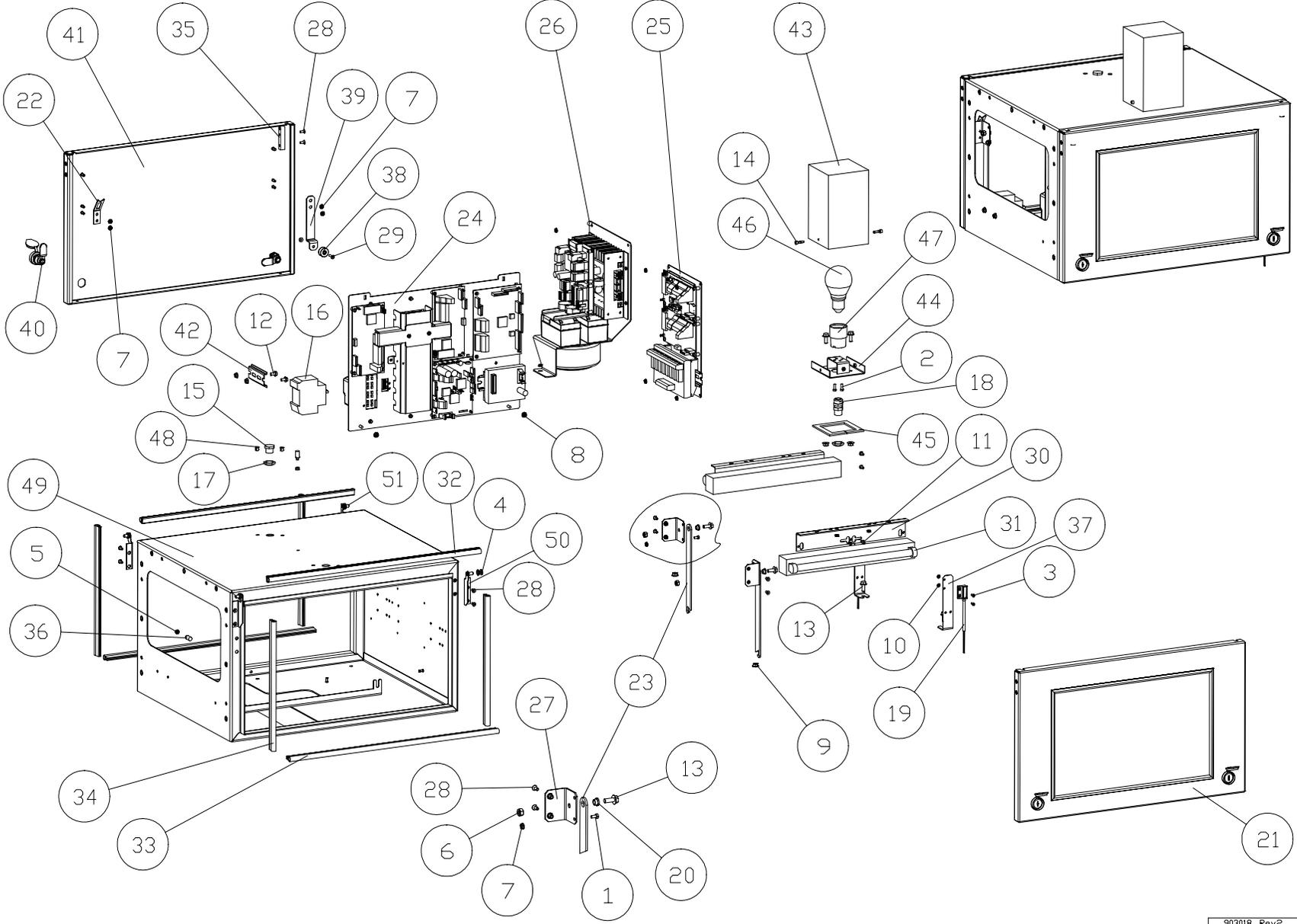
903018 Rev2

5.2 Q500T Electronics

5.2.1 CALCULATOR HEAD ASSEMBLY

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x8	Vis CS M4x8	900007-003	
2	Screw SCH M4x12	Vis CS M4x12	900007-006	
3	Screw SCH M3x8	Vis CS M3x8	900007-008	
4	Washer PI M6	Rondelle PI M6	900008-002	
5	Nut Hex M5	Ecrou H M5	900011-002	
6	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
7	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
8	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
9	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
10	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
11	Screw SCS M4x8	Vis FS M4x8	900014-006	
12	Screw HFHSL M5x10	Vis Hex Br Autobl M5x10	900016-001	
13	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
14	Screw HSHC M4x16	Vis CHC M4x16	900017-014	
15	Vent Plug M16 x 1.5 EEXE/IP66	Bouchon d'event PG M16 x 1.5 EEXE/IP66	900044-004	
16	Main Switch 380V/32A	Int Princ 380V/32A	900074	
17	Nut Hex M16 x 1.5	Ecrou Hex M16 x 1.5	900088-004	
18	Gland M16x1.5 Eexell/IP66-68 1x 5-8mm	PE M16X1.5 Eexell/IP66-68 1x 5-8mm	900362-001	
19	Magnetic Proximity Switch	Contact magnetiq de proximité	900387-001	
20	Bearing 6x9x6	Coussinet 6x9x6	900497-001	
21	Calc Door Assembly Q500T LCD	Portillon Q500T LCD	-	Refer to Page 5-18
	Calc Door Assembly Q500T FP	Portillon Q500T FP	-	Refer to Page 5-22
22	Stay Tab Calc Door Q500T	Fiche arret porte Calc	900577	
23	Stay Arm Calc Door Q500T	Bras arret porte Calc Q500T	900578	
24	WWC CP Assembly Gen	WWC CP Assemblee Gen	900603	
25	WWC Option Bracket Assembly	WWC Option Encadre assemblée	-	Refer to Page 5-34
26	DIT Power Supply Unit Assembly	DIT PSU assemblee	-	Refer to Q500T Parts Manual
27	Stay Brkt Assy Q500T	Arret Supp Asm Q500T	900608	

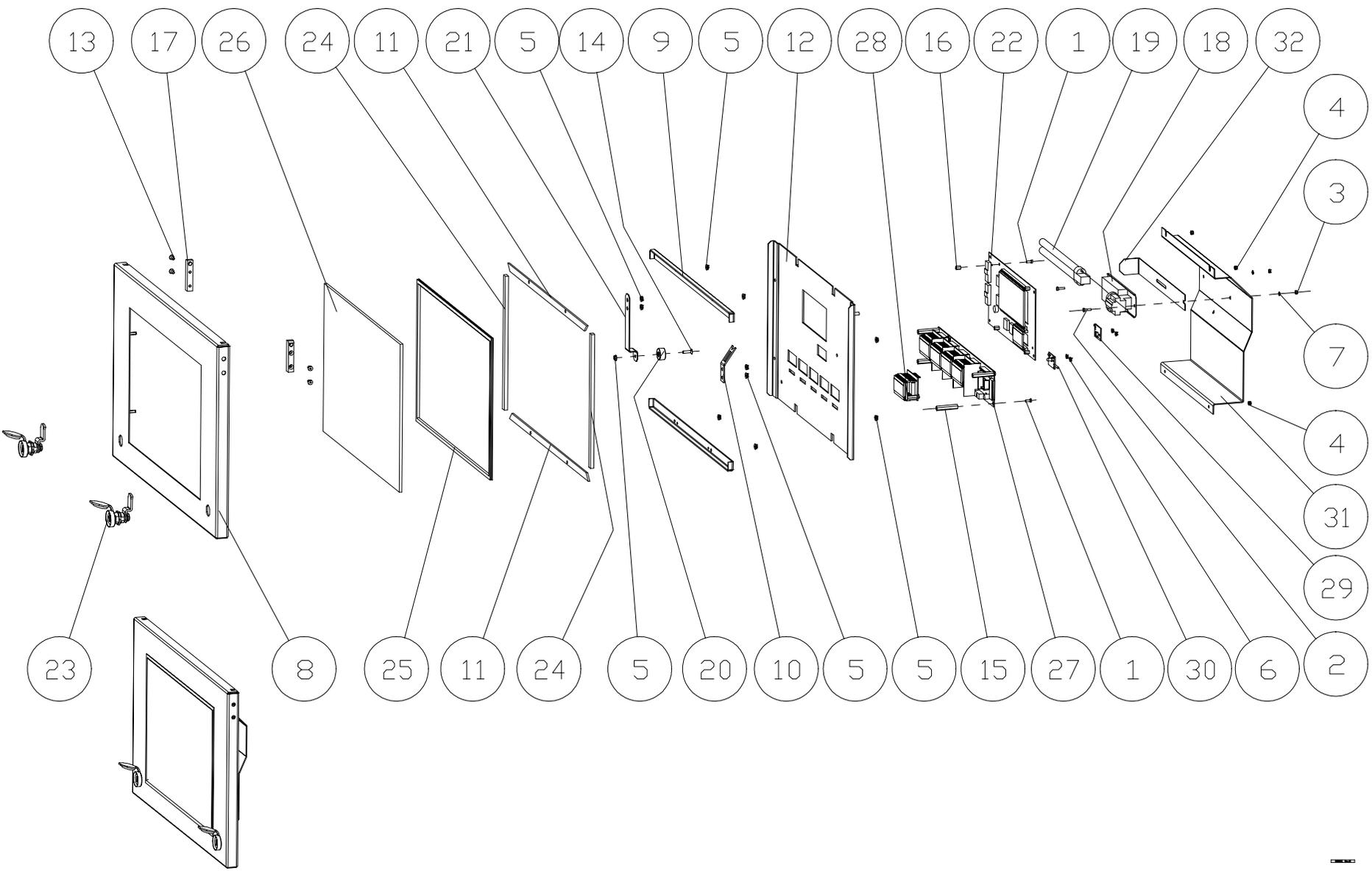
(Cont.)



903018 Rev2

5.2.1 CALCULATOR HEAD ASSEMBLY (CONT.)

Item No	Description	Désignation Français	Part No	Comments
28	Screw HSC M4x10	Vis FHC M4x10	900643-002	
29	Screw HSC M4x16	Vis FHC M4x16	900643-003	
30	Lamp holder FE	D etendeur de lampe FE	900665	FP Display only
31	Tube Light Assembly Q500T	Tube éclairage asm Q500T	900666	FP Display only
32	Rubberseal calc top	Joint tube EMKA 1011-06	900729-002	
33	Rubberseal calc bottom/side	Joint tube EMKA 1011-05	900730-003	
34	Rubberseal calc bottom/side	Joint tube EMKA 1011-05	900730-004	
35	Hingebar brass	Gond porte colonne	900733	
36	Silencer	Amortisseur Du Son	900748	
37	Bracket - Prog Reed Switch	Support Contact Inter Prog	900756	
38	Magnet 20x4.4x10	Aimant 20x4.4x10	900757-001	
39	Bracket - Prog Switch Magnet	Support Aimant Inter Prog	900759	
40	Assembly Lock Hydr Door	Asm Serrure Porte Hydr	-	Refer to Page 2-20
41	Calc door blind weld assy Q500T	Portillion avengule soudé Q500T	901345	
42	Rail TS 35 L = 75	Rail TS 35 L = 75	901432-001	
43	OPT lamp cover	OPT abot jour	902307	
44	OPT lamp base	OPT garniture	902308	
45	OPT lampseal	OPT etancheteite	902309	
46	Lamp	Lampe	902312-001	
47	E27 lampfitting	E27-garniture	902313-001	
48	Plug Heyco D6.5	Bouchon Heyco D6.5	902330-002	
49	Head Assembly (OPT Lamps)	Tete OPT Lampe	902995	
50	Hinge bracket A1/B2 assy Q5	Equerre A1/B2 asm Q5	901620	
51	Hinge bracket A2/B1 assy Q5	Equerre A2/B1 asm Q5	901621	

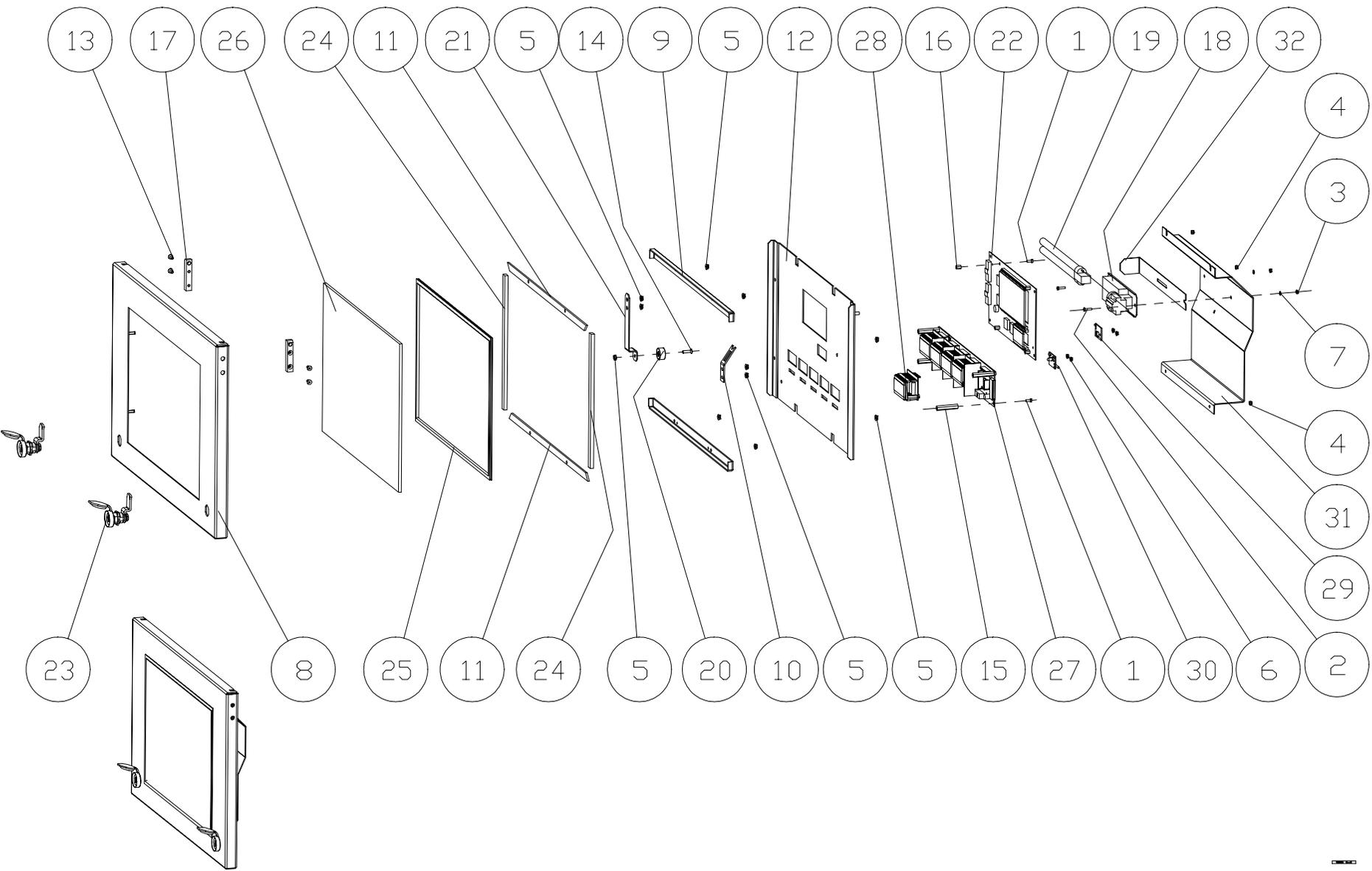


Issue A

5.2.2 DOOR ASSEMBLY [LCD DISPLAY]

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	Vis CS M3x8	900007-008	
2	Screw SCH M3x12	Vis CS M3x12	900007-010	
3	Nut Hex M3	Ecrou H M3	900011-008	
4	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
5	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
6	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
7	Washer Spring Lock M3	Rondelle Elast W 3	900051-002	
8	Calc Door Weld Assy Q500T	Portillon soudé Q500T	900571	
9	L Bracket Calc Door Q500T	Le I Brkt Calc Door Q500T	900576	
10	Stay Tab Calc Door Q500T	Fiche arret porte Calc	900577	
11	Hor Gask Calc Door Q500T	Joint entanch horz port Q500T	900579	
12	LCD Dialplate UPD/EMT/PI Q500T	Tremie LCD UPD/EMT/PI Q500T	900614	
13	Screw HSC M4x10	Vis FHC M4x10	900643-002	
14	Screw HSC M4x16	Vis FHC M4x16	900643-003	
15	Spacer Thr Hex FF M3x38	Entretoise Hex FF M3x38	900711-008	
16	Spacer Thr Hex FF M3x8	Entretoise Hex FF M3x8	900711-010	
17	Hingebar brass	Gond porte colonne	900733	
18	Ballast Socket Integrated	Ballast douille intégré	900738	
19	Lamp Fluorescent Oryx 11W	Tube fluo Oryx 11W	900739	
20	Magnet 20x4.4x10	Aimant 20x4.4x10	900757-001	
21	Bracket - Prog Switch Magnet	Support Aimant Inter Prog	900759	
22	Cust Sales Display LCD	Afficheur prix de vente LCD	900828	
23	Assembly Lock Hydr Door	Asm Serrure Porte Hydr	-	Refer to Page 2-20
24	Vert gask calc glass Q500T	Joint verre vert port Q500T	901218	
25	U profile 8x4x2 Q500T	U profil 8x4x2 Q500T	901223	
26	Calc glass Q500T	Glace de portillon	901236	

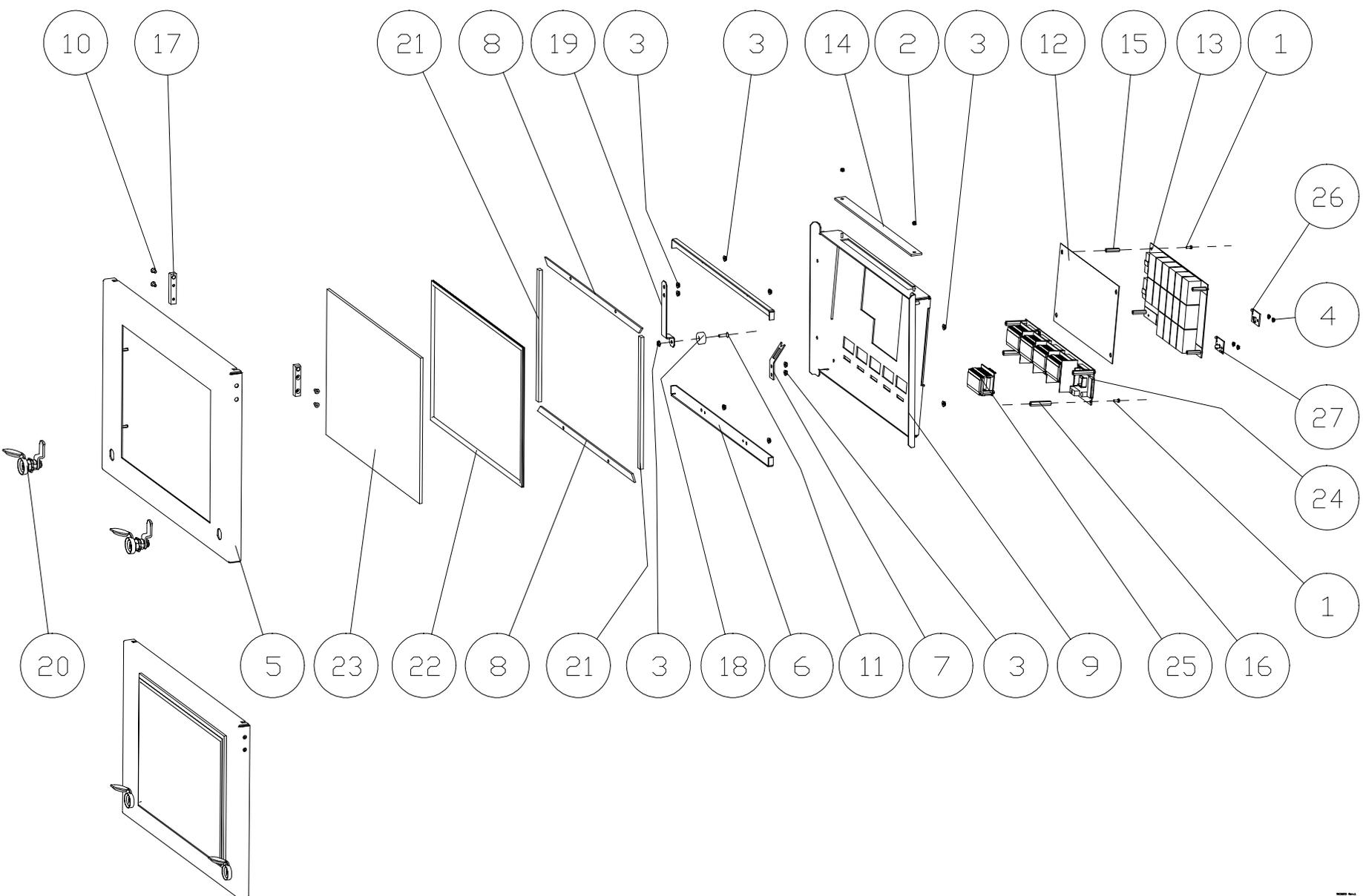
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Issue A

5.2.2 DOOR ASSEMBLY [LCD DISPLAY] (CONT.)

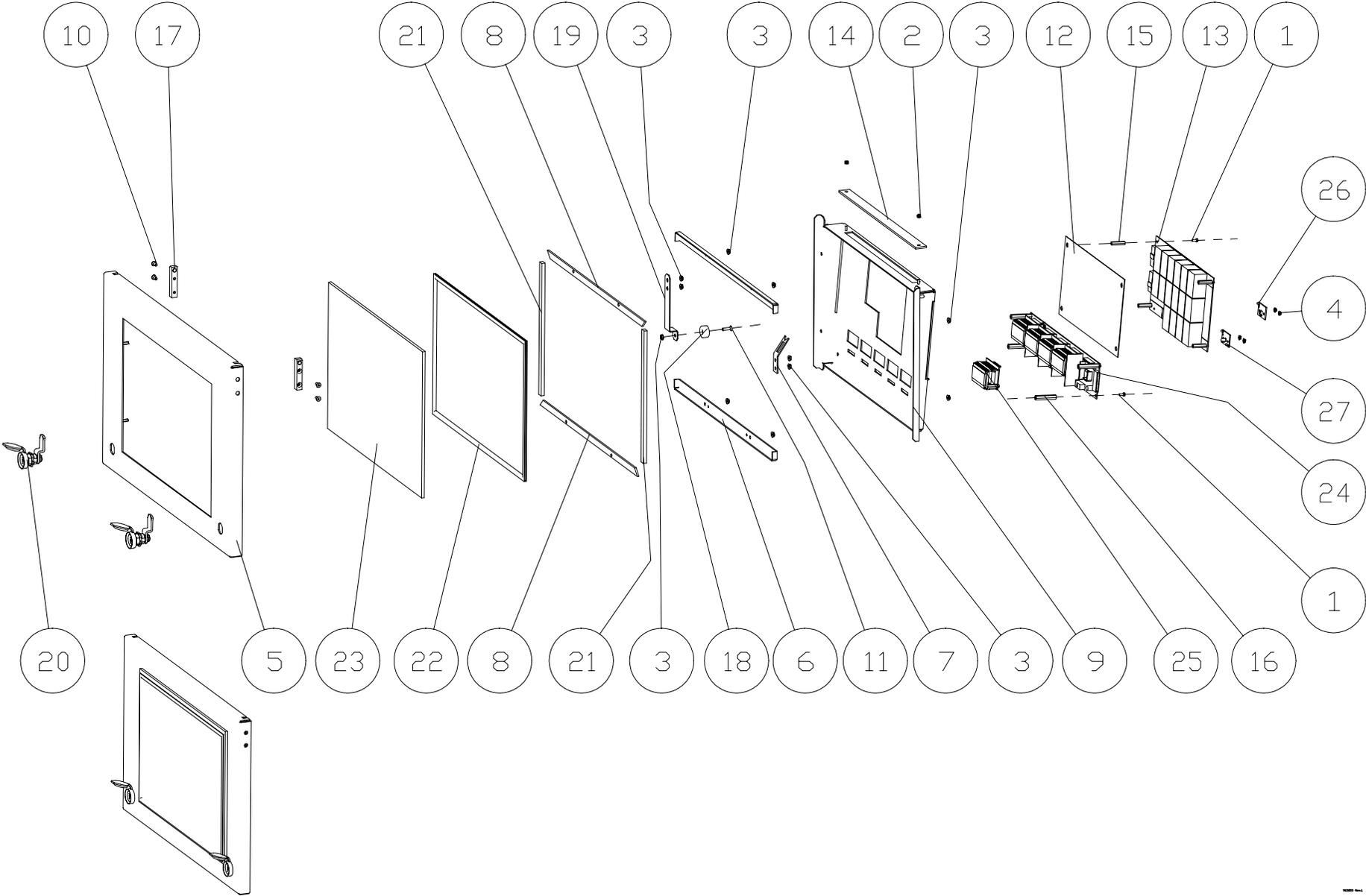
Item No	Description	Désignation Français	Part No	Comments
27	Optional Peripheral Unit - no EMT	PCB/WWC032/OPU/OPT PER UNIT	901354	
	Optional Peripheral Unit - 1 PR Left EMT	PCB asm/OPU/1 PR G EMT	902921-001	
	Optional Peripheral Unit 1 PR Right EMT	PCB asm/OPU/1 PR D EMT	902921-002	
	Optional Peripheral Unit 2 PR Left EMT	PCB asm/OPU/2 PR G EMT	902921-003	
	Optional Peripheral Unit 2 PR Right EMT	PCB asm/OPU/2 PR D EMT	902921-004	
	Optional Peripheral Unit 3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	902921-005	
	Optional Peripheral Unit 4 PR Left EMT	PCB asm/OPU/4 PR G EMT	902921-006	
	Optional Peripheral Unit 4 PR Right EMT	PCB asm/OPU/4 PR D EMT	902921-007	
	Optional Peripheral Unit 5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	902921-008	
28	Unit Price Display Module	PCB/WWC033/ODU-UP/UPD PIGGY-BA	901355	
29	IR Remote Control LED Option	PCB/WWC019/LOB-IR/IR LED OPTIO	901357	
30	VR Error LED Option	PCB/WWC019/LOB-ER/VR ERR LED O	901358	
31	Reflector LCD Q500T	Parabolle lumière LCD Q500T	901641	
32	Retainer - LPG Light	Barette sécutité clairage GPL	902008	LPG Dispenser only



Issue A

5.2.3 DOOR ASSEMBLY [FP DISPLAY]

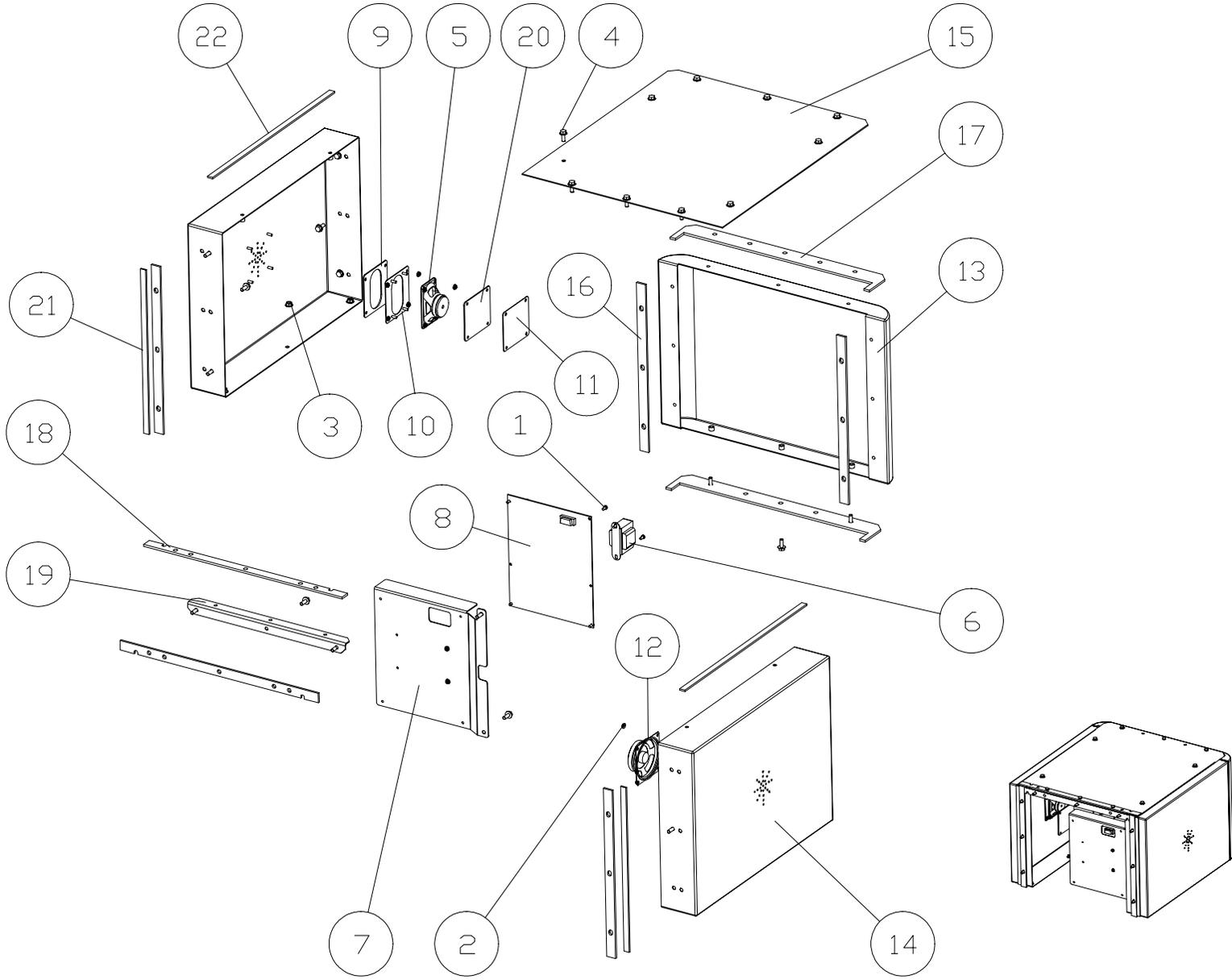
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x8	Vis CS M3x8	900007-008	
2	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Calc Door Weld Assy Q500T	Portillon soudé Q500T	900571	
6	L Bracket Calc Door Q500T	Le I Brkt Calc Door Q500T	900576	
7	Stay Tab Calc Door Q500T	Fiche arret porte Calc	900577	
8	Hor Gask Calc Door Q500T	Joint entanch horz port Q500T	900579	
9	FP Dial Plate EMT/UPD/PI Q500T	Trémie FERR UPD/EMT/PI Q500T	900611	
10	Screw HSC M4x10	Vis FHC M4x10	900643-002	
11	Screw HSC M4x16	Vis FHC M4x16	900643-003	
12	Dialplate Window FP QT	Protection Afficheur Ferranti	900667	
13	Cust Sales Display Ferranti	Afficheur prix de vente Ferranti	900668	
14	Light Diffuser FP Q500T	Capot diffusant Ferranti Q500T	900669	
15	Spacer Thr Hex FF M3x25x7	Entretoise Hex FF M3x25x7	900711-002	
16	Spacer Thr Hex FF M3x38	Entretoise Hex FF M3x38	900711-008	
17	Hingebar brass	Gond porte colonne	900733	
18	Magnet 20x4.4x10	Aimant 20x4.4x10	900757-001	
19	Bracket - Prog Switch Magnet	Support Aimant Inter Prog	900759	
20	Assembly Lock Hydr Door	Ass Serrure Porte Hydr	-	Refer to Page 2-20
21	Vert gask calc glass Q500T	Joint verre vert port Q500T	901218	
22	U profile 8x4x2 Q500T	U profil 8x4x2 Q500T	901223	
23	Calc glass Q500T	Glace de portillon	901236	



Issue A

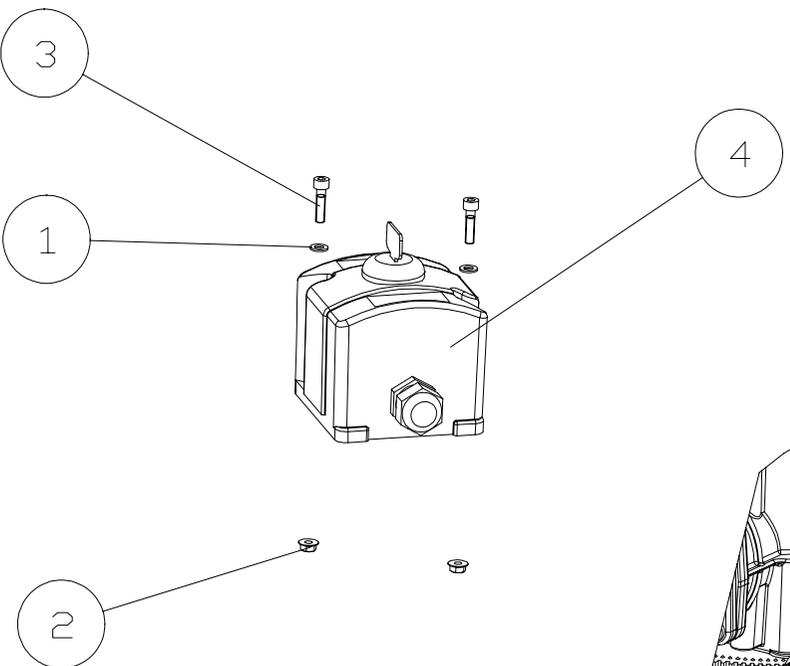
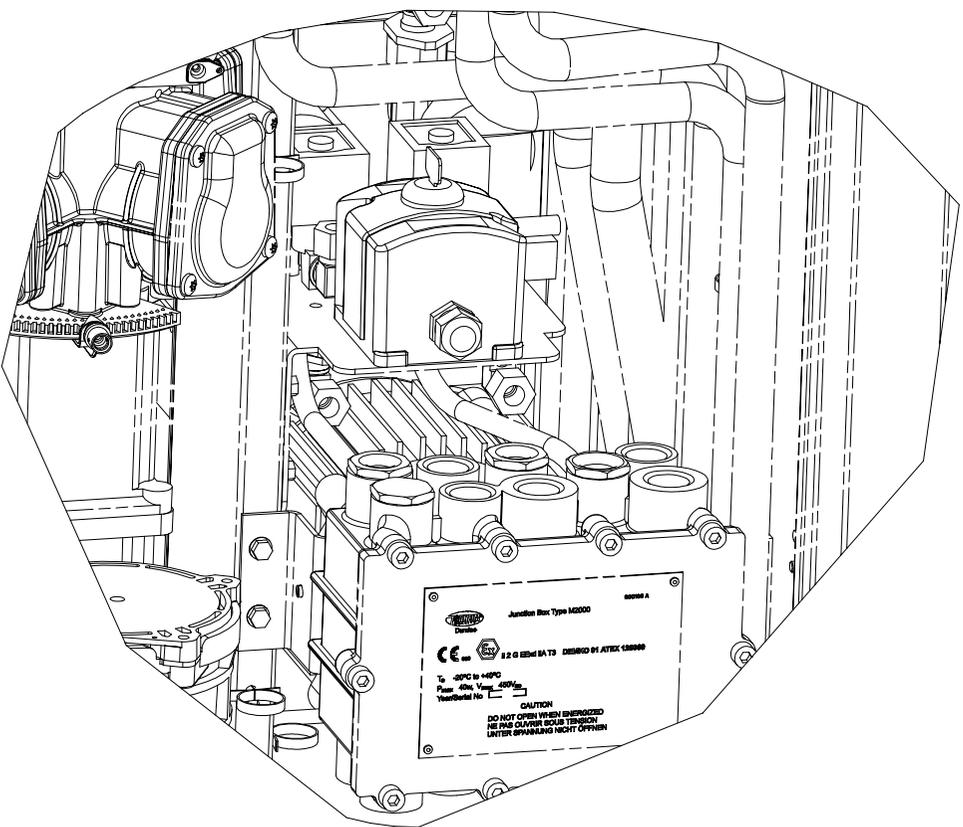
5.2.3 DOOR ASSEMBLY [FP DISPLAY] (CONT.)

Item No	Description	Désignation Français	Part No	Comments
24	Optional Peripheral Unit - no EMT	PCB/WWC032/OPU/OPT PER UNIT	901354	
	Optional Peripheral Unit - 1 PR Left EMT	PCB asm/OPU/1 PR G EMT	902921-001	
	Optional Peripheral Unit 1 PR Right EMT	PCB asm/OPU/1 PR D EMT	902921-002	
	Optional Peripheral Unit 2 PR Left EMT	PCB asm/OPU/2 PR G EMT	902921-003	
	Optional Peripheral Unit 2 PR Right EMT	PCB asm/OPU/2 PR D EMT	902921-004	
	Optional Peripheral Unit 3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	902921-005	
	Optional Peripheral Unit 4 PR Left EMT	PCB asm/OPU/4 PR G EMT	902921-006	
	Optional Peripheral Unit 4 PR Right EMT	PCB asm/OPU/4 PR D EMT	902921-007	
	Optional Peripheral Unit 5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	902921-008	
25	Unit Price Display Module	PCB/WWC033/ODU-UP/UPD PIGGY-BA	901355	
26	IR Remote Control LED Option	PCB/WWC019/LOB-IR/IR LED OPTIO	901357	
27	VR Error LED Option	PCB/WWC019/LOB-ER/VR ERR LED O	901358	



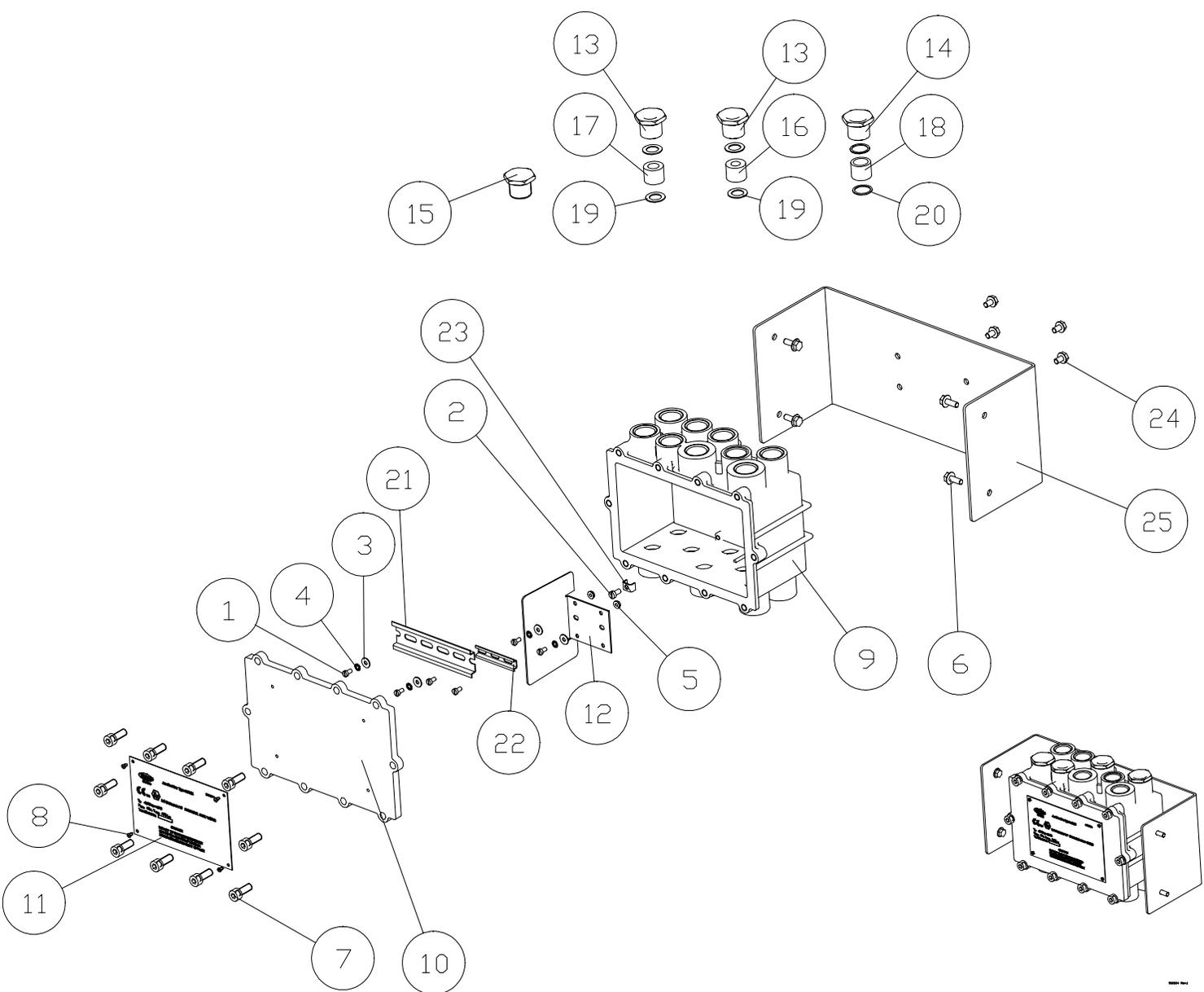
5.2.4 SPACEBOX ASSEMBLY

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x8	Vis CS M4x8	900007-003	
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 HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
5	4 ohm VS Speaker	4 ohm VS haut parl	900083	Voice Synthesiser only
6	8 Ohm Speaker Transformer	8 ohm Transformer Eur Haut Parl	900302	Speaker option only
7	Bracket SOM Board	Enacdrer SOM Planche	900549	Speaker option only
8	COCA SOM Speaker Board	COCA SOM Haur Parl Monte	900550	Speaker option only
9	Seal for Plate Adaptor	Joint pour adaptateur plaque	900551	Voice Synthesiser only
10	4 ohm Speaker Bracket	4 Ohm Haut Parl Encadrer	900552	Voice Synthesiser only
11	Q500T SB Speaker Blankplate	Q500T SB Ht-parl plaque a blanc	900553	No media option only
12	8 ohm pa speaker	8 ohm pa haut parl	901057	Speaker option only
13	Spacebox Endplate 2C, 3C, 4C	Boite espace plaque fin 2C, 3C, 4C	901160	2, 3 and 4 columns
	Spacebox Endpanel 1C Blank	Boite espace plaque fin 1C blanc	901707	1 column only - blank
	Spacebox Endpanel 1C Media	Boite espace plaque fin 1C media	901968	1 column only - media option
14	Spacebox Sideplate 5C SP	Boite espace plaque cote 5C SP	902818	5 columns
	Spacebox Sideplate 4C SP	Boite espace plaque cote 4C SP	901164	4 columns
	Spacebox Sideplate 3C SP	Boite espace plaque cote 3C SP	901163	3 columns
	Spacebox Sideplate 2C SP	Boite espace plaque cote 2C SP	901162	2 columns
15	Spacebox Top Plate 5C	Boite espace plaque dessus 5C	902817	5 columns
	Spacebox Top Plate 4C	Boite espace plaque dessus 4C	901168	4 columns
	Spacebox Top Plate 3C	Boite espace plaque dessus 3C	901167	3 columns
	Spacebox Top Plate 2C	Boite espace plaque dessus 2C	901169	2 columns
16	Seal Spacebox end	Boite espace joint fin	901170	
17	Seal Spacebox end top/bottom	Boite espace joint fin dessus/fond	901171	
18	Seal Spacebox Support top	Boite espace appui dessus	901172	
19	Spacebox Support	Boite espace appui	901173	
20	Seal for Blank Plate	Joint pour Ht-parl plaque a blanc	903052	No media option only
21	Seal 12mm x 3mm Self Adhesive	Joint 12mm x 3mm Autoadhesif	900039-002	Cut to 348cm length
22	Seal 12mm x 3mm Self Adhesive	Joint 12mm x 3mm Autoadhesif	900039-002	Cut to 434cm length



5.2.5 LPG SAFETY SWITCH (Q500T INTEGRATED ONLY)

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M5	Rondelle PI M5	900008-015	
2	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
3	Screw HSHC M5x20	Vis CHC M5x20	900017-012	
4	Service Switch EExd	Contacteur Service EExd	903134	



5.3 LPG Common Electronics Assemblies

5.3.1 MAIN JUNCTION BOX ASSEMBLY

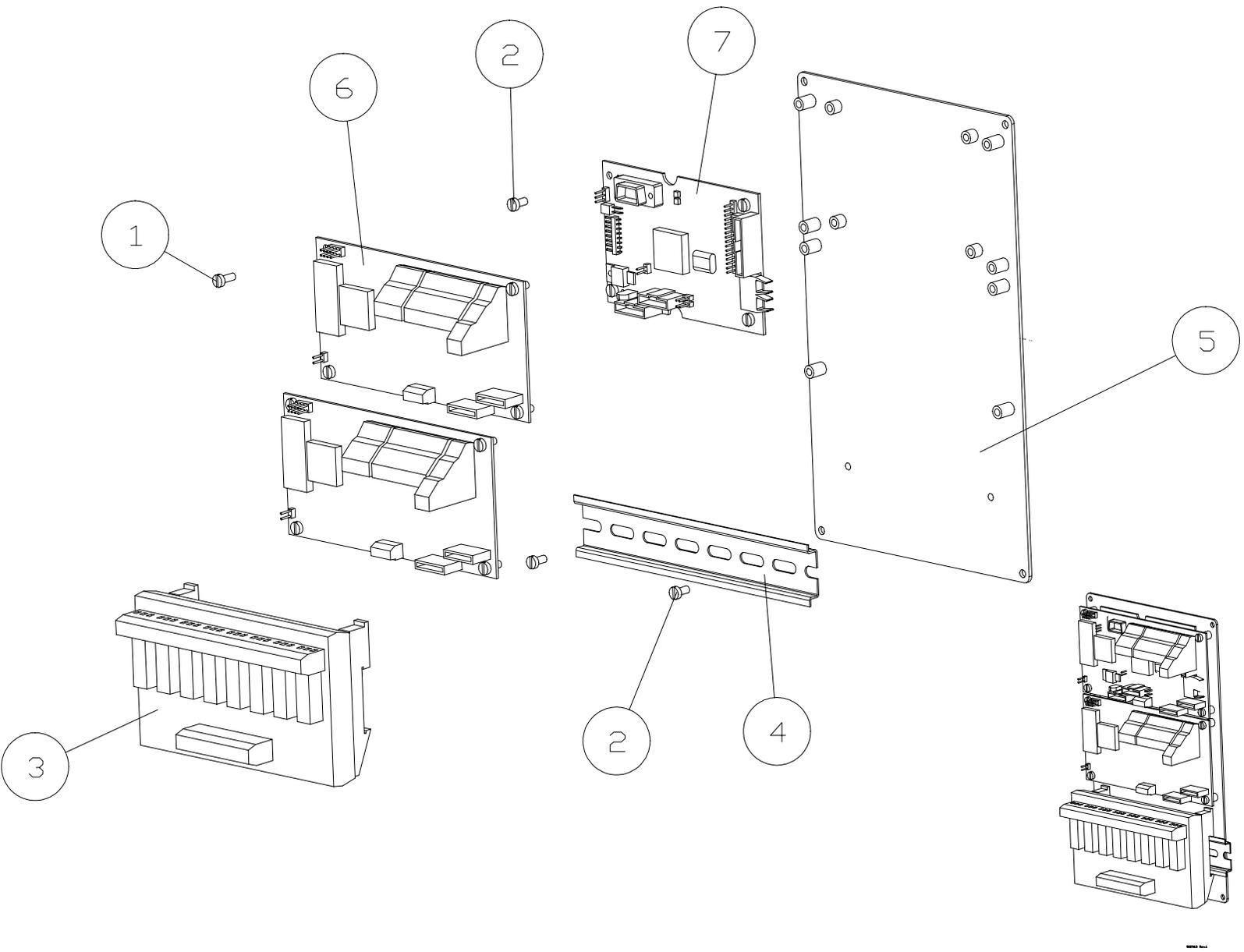
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x8	Vis CS M4x8	900007-003	
2	Screw SCH M5x10	Vis CS M5x10	900007-004	
3	Washer PI d2=3xd1 M4	Rondelle PI d2=3xd1 M4	900008-003	
4	Washer Serr Lock Ext M4	Rondelle a Dents DEC M4	900009-001	
5	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
6	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
7	Screw HSHC M8x20	Vis CHC M8x20	900017-002	
8	Rivet Expansion	Rivet Rokut	900022-002	
9	Junction Box-M2000-series	Boitier de connection-M2000	900104	
10	Cover Junction Box M2000	Couvercle boitier connection	900105	
11	Typelate junction box M2000	Plaque no serie boitier	900106	
12	Junction Box divider plate	Plaque seperation boitier	900107	
13	Gland Exd M25 14mm	Ecrou PE M25 14mm	900108	
14	Gland Exd M25 19mm	Ecrou PE M25 19mm	900109	
15	Blindstop Exd N25	Bouchon N25	900110	
16	Grommet 8-11	Bouchon 8-11	900111	
17	Grommet 10-13	Bouchon 10-13	900112	
18	Grommet 14-17	Bouchon 14-17	900113	
19	Back-up ring 8-13	Rondelle acier 8-13	900114	
20	Back-up ring 14-17	Rondelle acier 14-17	900115	
21	Rail TS-35 L=121	Rail de bornier TS-35 L=121	901432-003	
22	Rail TS-15 L=59	Rail de bornier TS-15 L=59	900117	
23	Grounding clamp	Borne de mise la terre	900118	
24	Screw HFHTF M6x10	Vis Hex Taraudeuse M6x10	900708-001	
25	Bracket - junction box VHSM	Support boite jonction VHSM	902003	Q300T Dispenser
	Bracket - junction box Standard	Support boite jonction std	900316	Q300T Dispenser
	Bkt M2000 J/Box LPG Q500T	Support Boitier Q500T GPL	901209	LPG Dispenser only
	Support junction box	Support boîte connexion	900439	Q500T Dispenser

For internal components, see next page

INFORMATION TO BE INSERTED

5.3.2 MAIN JUNCTION BOX INTERNAL COMPONENTS

INFORMATION TO BE INSERTED



5.3.3 OPTIONS BOARD 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	Relayboard 8xRelay 24VDC	Relayboard 8xRelay 24VDC	900077	
4	Rail TS 35 I=180	Rail de bornier TS 35 I=180	901432-002	
5	WWC Option Bracket	WWC Option Encadre	901491	
6	HOM (Hydraulic Option Module)	Module Hydraulique D'option	901539	
7	User Access Module IR Only	Utilisateur Accede le Module IR Seulement	901565	

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6 RECOMMENDED SPARE PARTS

6.1 Installation Kits

This section contains the information on the installation kits available for the different ground configurations.

6.1.1 LPG DISPENSER (NO HYDRAULIC CHAIR)

NO SHEAR VALVE

Part No	Description	Désignation Français	Single-sided	Double-sided
902400	Flange - rotating	Bride tournante	2	3
902125	Adaptor - Female 3-4" NPT	Embout femelle 3/4" NPT	2	3
900050-040	O-ring 29.3x3.6	Joint Torique 29.3x3.6	2	3
900017-003	Screw HSHC M8x25	Vis CHC M8x25	8	12

WITH TOKHEIM SHEAR VALVE

Part No	Description	Désignation Français	Single-sided	Double-sided
902945	Flange - rotating threaded	Bride tournante trou taraude	2	3
902944	Adaptor F 3/4 NPT grooved	Embout F 3/4 NPT avec gorge	2	3
900050-040	O-ring 29.3x3.6	Joint Torique 29.3x3.6	6	9
900017-003	Screw HSHC M8x25	Vis CHC M8x25	8	12
903500	Valve Shear Flanged	Racc. de securite a brides ens	2	3
903501	Spacer LPG 45mm	Entretoise GPL 45mm	2	3
902931-002	Stud M8x80	Goujon M8x80	8	12
900012-005	Nut Hex Prev Torque M8	Ecrou Autobloquant M8	8	8
903160-003	U-Bolt 2"1/2	Collier 2"1/2	4	6
900012-006	Nut Hex Prev Torque M10	Ecrou Autobloquant M10	8	12
900008-024	Washer M12	Rondelle	4	4
903550	Screw safety shear M12	Vis de securite M12	4	4

6.1.2 LPG DISPENSER WITH HYDRAULIC CHAIR

Part No	Description	Désignation Français	Single-sided	Double-sided
900008-023	Washer plain LL10	Rondelle plate LL10	8	8
902906	Screw - safety shear	Vis de securite	4	4
900012-006	Nut Hex Prev Torque M10	Ecrou Autobloquant M10	4	4
903501	Spacer LPG 45mm	Entretoise GPL 45mm	2	3
902931-002	Stud M8x80	Goujon M8x80	8	12
900012-005	Nut Hex Prev Torque M8	Ecrou Autobloquant M8	8	12
900050-040	O-ring 29.3x3.6	Joint Torique 29.3x3.6	2	3
903160-003	U-Bolt 2"1/2	Collier 2"1/2	2	3
900012-006	Nut Hex Prev Torque M10	Ecrou Autobloquant M10	4	6
903159	Support - connection pipes	Traverse maintien tuyauteries	1	1
903160-001	U-Bolt 3/4"	Collier 3/4"	2	3
903437-001	Washer - spring D8xD18x1	Rondelle plateau D8xD18x1	4	6
900011-003	Nut hex M8	Ecrou hexagonal M8x6.5	4	6

NO MANIFOLD

Part No	Description	Désignation Français	Single-sided	Double-sided
902945	Flange - rotating threaded	Bride tournante trou taraude	2	3
902944	Adaptor F 3/4 NPT grooved	Embout F 3/4 NPT avec gorge	2	3
900050-040	O-ring 29.3x3.6	Joint Torique 29.3x3.6	2	3
900017-003	Screw HSHC M8x25	Vis CHC M8x25	8	12
903160-001	U-Bolt 3/4"	Collier 3/4"	2	3
903437-001	Washer - spring D8xD18x1	Rondelle plateau D8xD18x1	4	6
900011-003	Nut hex M8	Ecrou hexagonal M8x6.5	4	6

WITH TOKHEIM MANIFOLD

Part No	Description	Désignation Français	Double-sided
902945	Flange - rotating threaded	Bride tournante trou taraude	3
902944	Adaptor F 3/4 NPT grooved	Embout F 3/4 NPT avec gorge	3
900050-040	O-ring 29.3x3.6	Joint Torique 29.3x3.6	3
900017-003	Screw HSHC M8x25	Vis CHC M8x25	16
903160-001	U-Bolt 3/4"	Collier 3/4"	1
903437-001	Washer - spring D8xD18x1	Rondelle plateau D8xD18x1	2
900011-003	Nut hex M8	Ecrou hexagonal M8x6.5	2
902908	Manifold - install weld assy	Collecteur de raccord. soude	1
903477	Flange, manifold conn. 1.5	Bride de racc. du coll. 1.5	1
900050-049	O-Ring 43.4x3.6	Joint torique 43.4x3.6	1

6.2 Maintenance Kits

This section contains information relating to the recommended replacement parts for the major LPG assemblies as detailed in this manual.

The recommended disposal procedures for used parts is classified as under :-

- A Note the fault then dispose of this part safely. Do not re-work.
- B If still under warranty, return this part to the factory. If out of warranty, note the fault then dispose of this part safely. Do not re-work.
- C This part is a certified part/sub-assembly and is not intended for servicing. Return to factory.

IMPORTANT :- O-RINGS MUST NOT BE RE-USED ONCE REMOVED.

6.2.1 INLET - LIQUID WITH PURGE

SIDE A

Part No.	Description	Désignation Français	Disposal
900050-040	O-ring 29.30x3.60	Joint Torique 29.30x3.60	A
902647	Valve Assy LPG One Solenoid 24V	Electrovanne/ Un Bobine GPL	B
902646	Solenoid 24V	Bobine 24V	B
902637	Valve Body 3/4" LPG	Electrovanne Corps 3/4" GLP	B
903035-001	Valve - ball, b/fly 1/4 NPT	Van BS Poig Papillon 1/4 NPT	B
M034555_NO	Valve - 1/4 turn ball 3/4" NPT Vanne	Boiss Spheriq 3/4" NPT	B
M036155	Coupling - QR Fem Staubli 1/4 NPT	Raccord Staubli 1/4 NPT	A
M036156	Coupling - QR Male Staubli 1/4 NPT	Embout Raccord Staubli 1/4 NPT	A
P813601	Valve - shear flanged	Raccord securite a brides asm	C

SIDE B

Part No.	Description	Désignation Français	Disposal
900050-040	O-ring 29.30x3.60	Joint Torique 29.30x3.60	A
902647	Valve Assy LPG One Solenoid 24V	Electrovanne/ Un Bobine GPL	B
902646	Solenoid 24V	Bobine 24V	B
902637	Valve Body 3/4" LPG	Electrovanne Corps 3/4" GLP	B
903035-001	Valve - ball, b/fly 1/4 NPT	Van BS Poig Papillon 1/4 NPT	B
M034555_NO	Valve - 1/4 turn ball 3/4" NPT Vanne	Boiss Spheriq 3/4" NPT	B
M036155	Coupling - QR Fem Staubli 1/4 NPT	Raccord Staubli 1/4 NPT	A
M036156	Coupling - QR Male Staubli 1/4 NPT	Embout Raccord Staubli 1/4 NPT	A
P813601	Valve - shear flanged	Raccord securite a brides asm	C

6.2.2 GAS RETURN LINE

Part No.	Description	Désignation Français	Disposal
M034555_NF	Valve - 1/4 turn ball 3/4" NPT	Vanne boiss spheriq 3/4" NPT	A
M512542	Valve non-return M/F 3/4" NPT	Clapet anti-retour MF 3/4 NPT	B
P508633	Plug Assy - ACME Bouchon	ACME monte	A

WITH HYDRAULIC CHAIR

Part No.	Description	Désignation Français	Disposal
900050-040	O-ring 29.30x3.60	Joint Torique 29.30x3.60	A
903047	Valve Assy LPG One Solenoid 230V	Electrovanne Un Bobine GPL 230V	B
903046	Solenoid 230V	Bobine 230V	B
902637	Valve Body 3/4" LPG	Electrovanne Corps 3/4" GLP	B
M034555_NO	Valve - 1/4 turn ball 3/4" NPT Vanne	Boiss Spheriq 3/4" NPT	B
P813601	Valve - shear flanged	Raccord securite a brides asm	C

6.2.3 GAS SEPARATOR

Part No.	Description	Désignation Français	Disposal
902884	LPG complete filter	Filtre complet GPL	A

GAS SEPARATOR OUTLET

Part No.	Description	Désignation Français	Disposal
P154492	Valve assy - non-return	Clapet anti retour monte	B

6.2.4 DIFFERENTIAL VALVE & GAUGE

Part No.	Description	Désignation Français	Disposal
900050-040	O-ring 29.30x3.60	Joint Torique 29.30x3.60	B
902648	Valve Assy LPG Two Solenoid	Electrovanne Deux Bobines GPL	B
902647	Valve Assy LPG One Solenoid	Electrovanne Un Bobine GPL	B
902646	Solenoid 24V	Bobine 24V	B
902637	Valve Body 3/4" LPG	Electrovanne Corps 3/4" GLP	B
902980	Valve Differential Assy	Vanne Differentielle asm	C
902985	Limiter discharge flow assy	Limiteur de debit asm	B
903033-001	Gauge 63mm 0-40 bar R1/4	Manometre 63mm 0-40 bar R1/4	A
903035-001	Valve - ball, b/fly 14 NPT	Vanne BS Poig Papillon 1/4 NPT	A
M036155	Coupling - QR Fem Staubli 1/4 NPT	Raccord Staubli 1/4 NPT	A
M036156	Coupling - QR Male Staubli 1/4 NPT	Embout Raccord Staubli 1/4 NPT	A
M262809	Valve - pressure relief	Soupape de securite	C

6.2.5 METER/PULSER

Part No.	Description	Désignation Français	Disposal
M034799	Pulser - Eltomatic with tote	Emetteur ELTO avec tote	C
903031	Pulser - Eltomatic without tote	Emetteur ELTO sans tote	C
P153733	Meter LPG 700 assy	Mesureur GPL 700 assemble	C
P814075	Drive - pulser	Entraîneur	A

6.2.6 METER PIPE & TEST

Part No.	Description	Désignation Français	Disposal
903020	Pipe outlet air separator assy	Tubulure sortie degaz asm	A
M034555_NF	Valve - 1/4 turn ball 3-4" NPT	Vanne Boiss Spheriq 3/4" NPT	B
M508632	Valve - 1/4 turn flanged	Vanne 1/4 de tour	B
P508633	Plug Assy - ACME Bouchon	ACME monte	A

6.2.7 BALL VALVES - GAS & LIQUID PHASES

Part No.	Description	Désignation Français	Disposal
M034555_NO	Valve 1/4 turn ball 3/4" NPT	Banne Boiss Spheriq 3/4" NPT	B

6.2.8 SOLENOID VALVE

Part No.	Description	Désignation Français	Disposal
902646	Solenoid Coil LPG	Bobine GPL	B
903046	Solenoid Valve 230V	Bobine 230V	B
903047	Valve Assy LPG one solen 230V	Electrov une bobine GPL 230V	B
902647	Valve Assy LPG one solenoid	Electrovanne/une bobine GPL	B
902648	Valve Assy LPG two solenoids	Electrovanne/deux bobines GPL	B

6.2.9 LOCK

Part No.	Description	Désignation Français	Disposal
900042	Cap SOUTHCO 90-2 (Cover) Bouchon	SOUTHCO 90-2 (Chapeau)	A
900181	Cam – lock Q300T Dispenser only	Came de serrure	A
900389	Lock	Serrure	A
900978	Lock Cam Top cover Q500T Hydraulic top cover only	Came de serrure top	A
900985	Lock Cam Calc Door (Calc Head only) Q500T	Came De Serrure Porte Calc	A
900986	Lock Cam DIT door DIT & Vidium Doors only Q500T	Came de serrure porte DIT	A
900021-001	Washer Serr Lock Int M10	Rondelle a Dents DIC M10	A
900041-001	Nut Hex 3/4 - 24 UNS	Ecrou Hex 3/4 - 24 UNS	A
900043-001	Nut Hex M10 x 1.00 For Lock	Ecrou M10 x 1.00 Pour Serrures	A

6.2.10 HOSE SPARES

Part No.	Description	Désignation Français	Disposal
901235-001	Nozzle LG30 LPG 3/4	Nozzle LG30 LPG 3/4	TBA
901445-001	Nozzle Elaflex LPG 3/4" NPT	Buse Elaflex GPL 3/4" NPT	TBA
901447-001	Nozzle Boosekoop LPG 3/4	Buse Boosekoop GPL 3/4"	TBA
902047-001	Nozzle - Nettuno T4	Buse GPL Nettuno T4	TBA
902048-001	Nozzle - LPG Butagaz	Buse GPL Butagaz	TBA
902364-001	Hose - LPG 0.3m M/M 3/4" NPT	Flex GPL 0.3 m M/M 3/4" NPT	TBA
902364-002	Hose - LPG 4.5m M/M 3/4" NPT	Flex GPL 4.5 m M/M 3/4" NPT	TBA
902411-001	Coupling Break ARGUS AK 3/4" NP	Raccord Cassant ARGUS AK 3/4" N	TBA
902517-001	Coupling Break ELAFLEX	Accouplement sécurité ELAFLEX	TBA

6.2.11 PUSH BUTTON

Part No.	Description	Désignation Français	Disposal
902501-001	Push Button - Green Dead Mans Button	Bouton Poussoir Vert	A
902501-002	Push Button - Red Emergency Stop Button	Bouton Poussoir Rouge	A
902503-001	Microswitch	Microrupteur Inverseur	A

6.2.12 Q500T LPG HOSE MANAGEMENT

Part No.	Description	Désignation Français	Disposal
900057	Clip H/Shoe	Fixation H/Shoe	A
900529	Assy Springdrum	Enrouleur asm	A
901446	Outlet-cord Guide	corde	A
901526	Rope Spring Drum	Corde d'enrouleur	A
902174	Hose Protector LPG Q500T	Protecteur de tuyau	A
902516	Adaptor - half hose clamp D13	Demi Coquille D13 flex GPL asm	A
902532	Clamp assy - LPG hose	Demi Coquille D13 flex GPL asm	A
900007-013	Screw SCH M6x40	Vis CS M6x40	A
900008-004	Washer PI M4	Rondelle PI M4	A
900011-001	Nut Hex M6	Ecrou H M6	A
903192-001	Snap Cap	Vis M6x20	A

6.2.13 Q300T LPG HOSE RETRACTION

Part No.	Description	Désignation Français	Disposal
900057	Clip Horseshoe	Fixation H/Shoe	A
901446	Outlet - cord	Guide corde	A
902516	Adaptor - half hose clamp D13	Demi Coquille D13 flex GPL asm	A
902532	Clamp assy - LPG hose	Demi Coquille D13 flex GPL asm	A
903265	Rope - retractor system	Corde retraction flexible	A
900007-013	Screw SCH M6x40	Vis CS M6x40	A
900008-004	Washer PI M4	Rondelle PI M4	A
900011-001	Nut Hex M6	Ecrou H M6	A
902027-001	Spring drum 8kg	Equilibreur 8kg	A

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As Tokheim regularly improves its products to ever better respond to evolving market and regulatory requirements, it reserves the right to change any of the specifications of these products, and this without prior notice.

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