



# Quantium 410



## Parts Manual



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31/01/2008	3	4-24 to 4-28	C	Repagination
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31/01/2008	3	5-12 to 5-15	C	Door drawing & parts list updated
31/01/2008	3	6-13	B	Ethanol parts added to table

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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 - Vapour Recovery

This section contains the part identification list for the dispenser vapour recovery system.

#### 1.1.1 DRAWING INTERPRETATION

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

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

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

### 1.2 Product Scope

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

The Quantum 410 range of fuel dispensers, with the exception of the LPG version. For information on Quantum LPG dispensers refer to the relevant LPG manual as provided by Tokheim.



All dispensers in the range use the same standard sub-assemblies and offer a wide range of configurations and includes provision for options such as integrated payment terminal, vapour recovery etc.

### 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.**

### 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 petrol 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 petrol 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
<b>For more information see User Manual available at this station</b>		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 petrol 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.

1.6 Standards & Certificates

This dispenser is constructed in conformity with the requirements of all the applicable European Directives (Machinery 98/37/EC; EMC 89/336/EEC; ATEX 94/9/EC).

The components used within the dispenser, including connection facilities, are selected in accordance with the European Standard EN BS 60079-0 (Electrical Apparatus for explosive gas atmospheres), and the supplementary Standards listed therein.

Diesel dispensers do not create an explosive hazard, but due to the probability of these being in close proximity to gasoline dispensers, the same construction rules are applicable.

The dispenser is certified by SIRA as suitable for use in Potentially Explosive Atmospheres Directive 94/9/EC, and marked to be in accordance with the European Dispenser Construction Standard EN 13617-1.

This dispenser is also certified to OIML International Recommendations R117 and R118. Certificate Numbers R117/1995-NL-01.04 & 08.

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

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

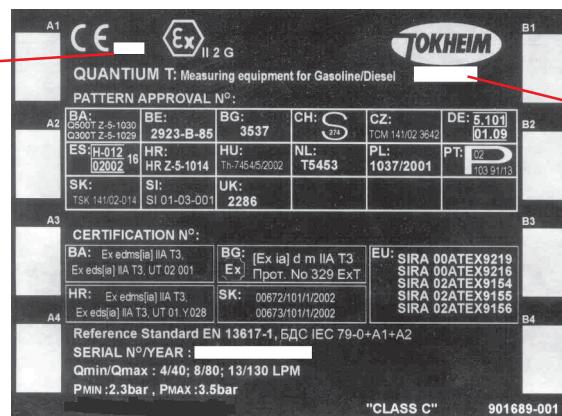
1.6.1 DISPENSER MARKING FOR THE ATEX DIRECTIVE

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

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

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

0518 SIRA  
or  
0081 LCIE



DUNDEE  
or  
GRENTHEVILLE

Issue A

### 1.6.2 SPECIAL CONDITIONS FOR SAFE USE

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

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

- Where a dispenser is supplied without hoses and/or nozzles, they shall be fitted in accordance with:
  - Hoses : EN1360 or EN13483
  - Nozzles: EN13012
- When used for ethanol (blend) dispensing, the fuel specification must be less than or equal to 85% ethanol, with minimum water content.
- The metering pumps and dispensers are designed for use in open air. Where a metering pump or dispenser is positioned within a building, incorporated into an enclosure, or integrated into a larger piece of equipment, additional measures shall be taken to ensure that the zoning diagrams illustrated in the schedule drawings are not compromised.

## 1.7 MID Dispensers

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

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

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



### CHECKING THE SEALS



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

### METER CALIBRATION

A calibration check should be performed during Commissioning (refer to section 6).

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

**CONTENTS**

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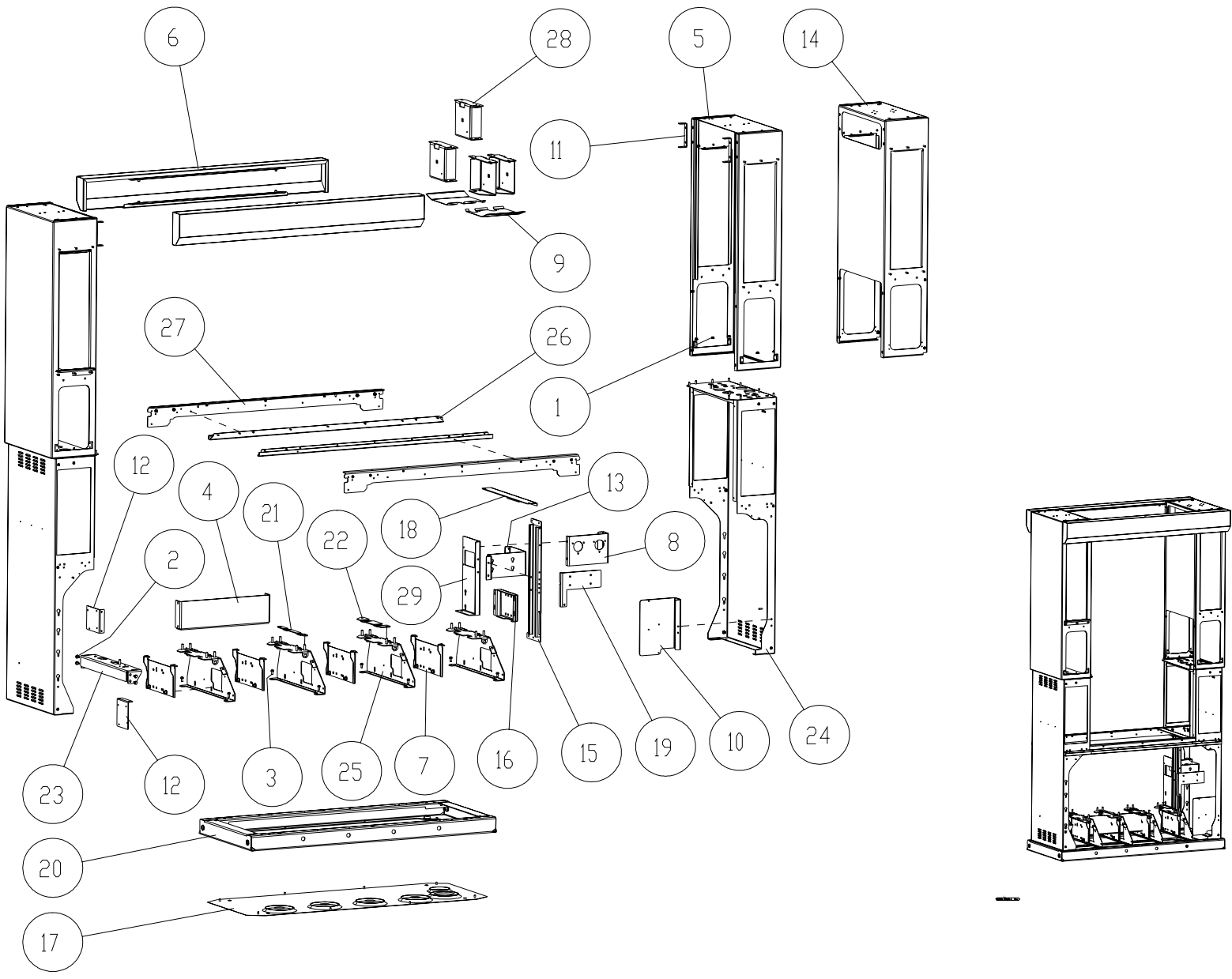
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Issue B

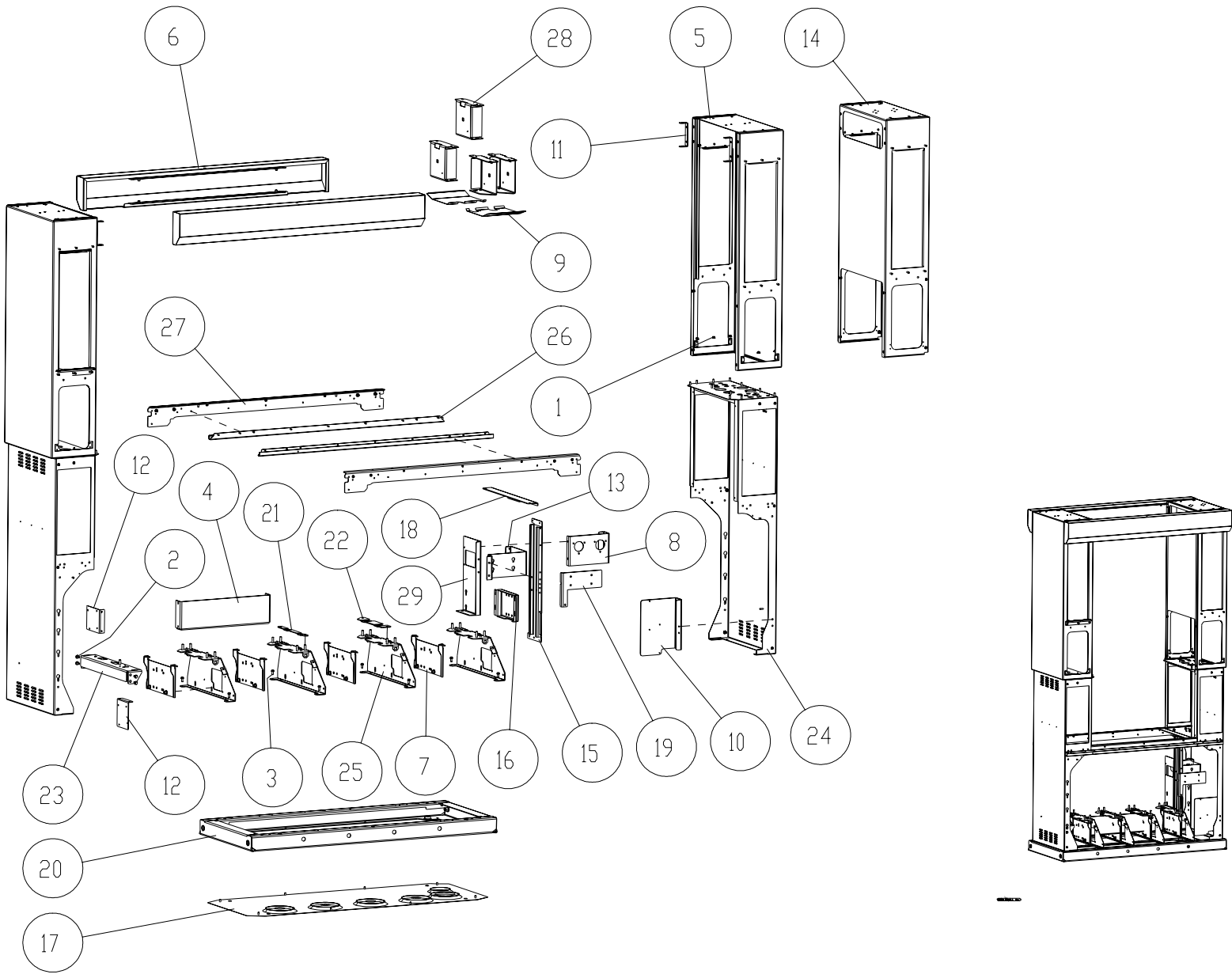


## 2 CLADDING & FRAMEWORK

### 2.1 Frame Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
3	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
4	Stiffener Bracket Long	La Parenthèse de Renfort	907108	
5	Column Upper Assy	Asm Supérieure De Colonne	908777	Internal access panel (option)
6	Canopy Trim Assembly	Asm Habillage Verrière	908794	
7	Bracket Motor Assy	Asm Support Moteur	908803	
8	Assy Bracket Durr Pump	Asm Support Pompe Durr	908894	
9	Hose Protector	Protecteur de Tuyau	908895	
10	Bracket Bernstein Box	Support Boite Bernstein	909084	
11	Bracket Canopy Mounting	Support De Verrière	909158	
12	Bracket Fire Detection	Support Détection de Feu	909300	
13	Bracket Second Junction Box	Supp Deuxieme Boite Connexion	909302	
14	Assy Column Upper	Asm Colonne Superieur	909505	External access panel
15	Bracket Vertical Frame	Chassis Vertical	940434	
16	Motor Bucket ECVR	Support De Moteur ECVR	940435	
17	Leak Plate Assy	Plaque Egouttures Assy	940483	
18	Upright Crossmember	Support Verticale	940777	
19	Bracket Junction Box	Support Bonte Connexion	941673	
20	Dispenser Base Assy Uni	Asm Base de Distributeur Uni	942176	
21	Adaptor EPZ75 Uni	Adaptateur EPZ75 Uni	942178	EPZ Only
22	Adaptor EPZ75 Uni B	Adaptateur EPZ75 Uni B	942310	EPZ Only
23	Assy Pump Support End Uni	Asm Support Pompe Extr uni	942346	
24	Column Lower Assy Uni	Asm La Colonne S'abaissent Uni	942348	
25	Assy Pump Brkt Uni	Asm Support Pompe Uni	942349	

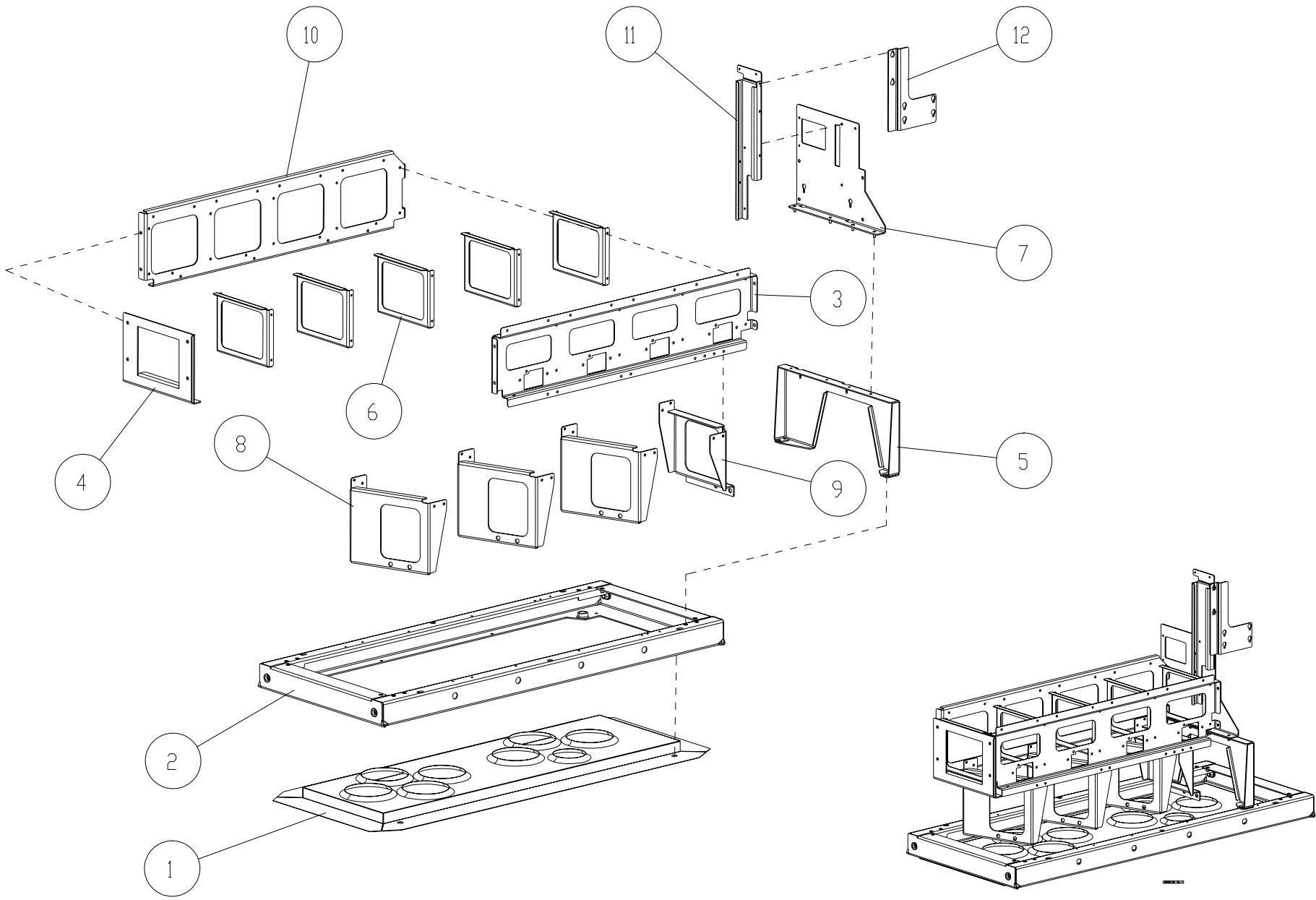
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Issue B

**2.1 Frame Assembly (Cont.)**

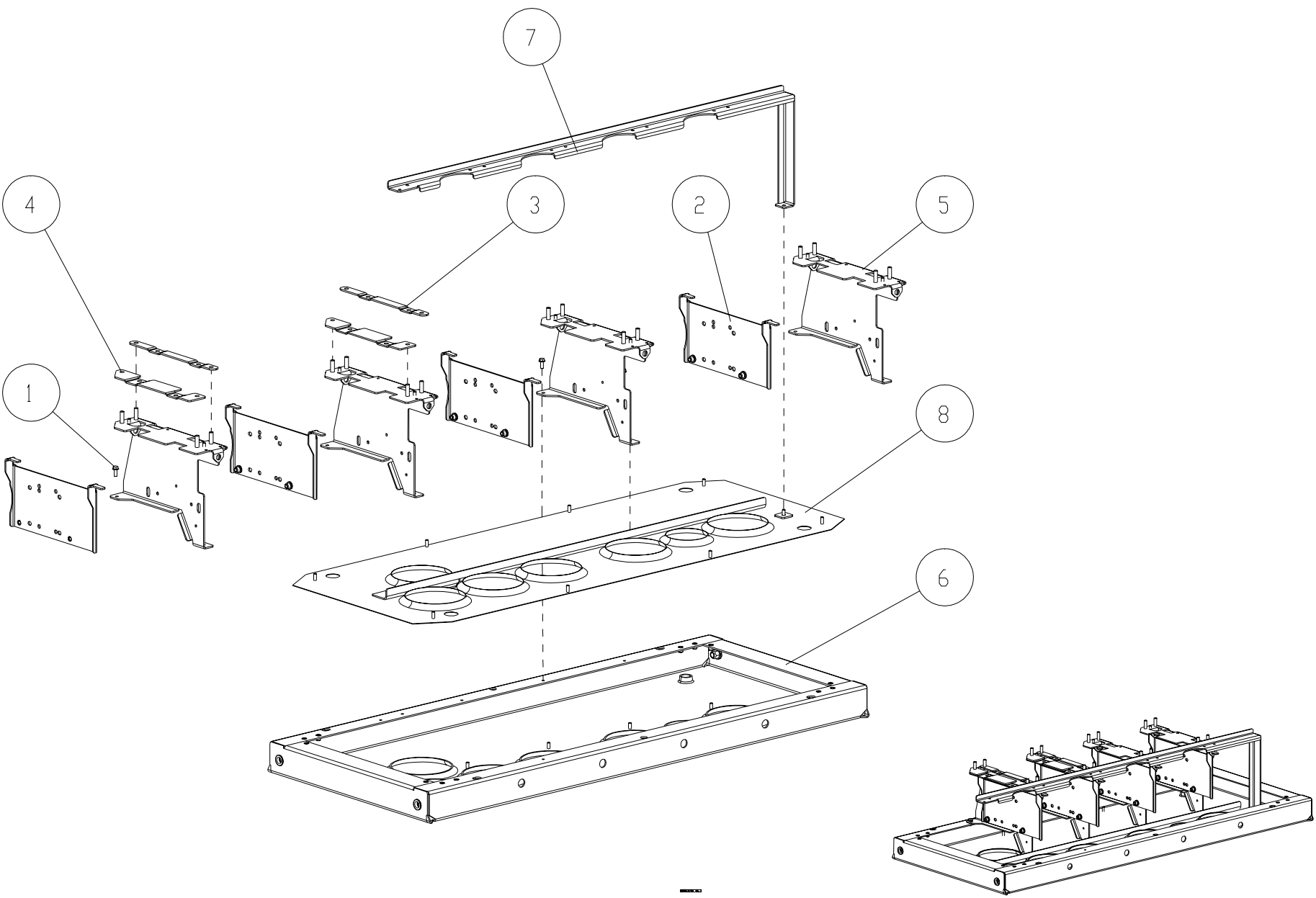
Item No	Description	Désignation Français	Part No	Comments
26	Door Gutter	Gouttière De Porte asm	942425	
27	Crossmember Assy	Asm Support Transversal	942427	
28	Drum Bracket Assy	Asm Support Enrouleur	942573	
29	Support Bracket ECVR	Chassis Support ECVR	942659	



Issue B

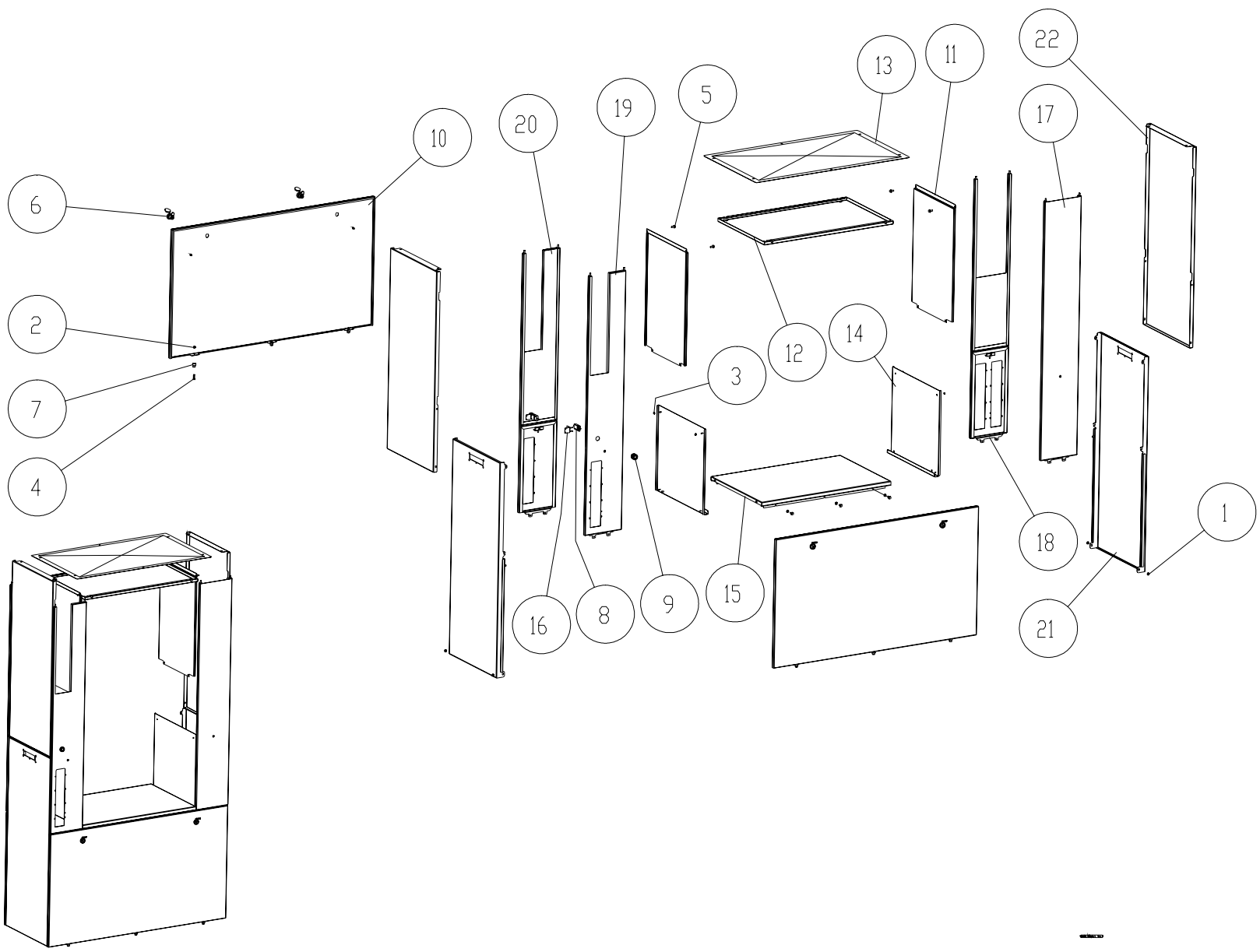
## 2.1.1 SUBMERGED MODELS

Item No	Description	Désignation Français	Part No	Comments
1	Leakage Plate	Plaque Egouttures	906058	
2	Dispenser Base Assy Uni	Asm Base de Distributeur Uni	942176	
3	Bracket Submerged Side B	Support Immergee Cote B	942418	
4	Bracket Position 1 Submerged	Support Location 1 Immergee	942428	
5	Bracket Submerged Position 4	Support Immergee Location 4	942430	
6	Bracket Lateral Submerged	Support Lateral Immergee	942449	
7	Assy Support Brkt ECVR	Asm Chassis Support ECVR	942460	
8	Bracket Retro Sub Shear Valve A	Supp Retro Imm Raccord Cassant A	942475	Option with OPW Shearvalves only
9	Brckt Retro Sub Shear Valve B	Supp Retro Imm Racc Cassant B	942476	Option with OPW Shearvalves only
10	Bracket Submerged Side A	Support Immergee Cote A	942485	
11	Bracket Vertical Submerged	Support Vertical Immergee	942547	
12	Bracket Junction Box Sub	Support Boitier Connection Sub	942684	



## 2.1.2 RETROFIT PARTS

Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
2	Bracket motor assy.	Asm Support Moteur	908803	
3	Adaptor EPZ75 Uni	Adaptateur EPZ75 Uni	942178	
4	Adaptor EPZ75 Uni B	Adaptateur EPZ75 Uni B	942310	
5	Assy Brkt Pump Retro	Asm Support Pompe Retro	942375	
6	Assy Drip tray Q410 Retro	Asm Bac de Recup Q410 Retro	942377	
7	Bracket Longitudinal Retro	Support Longitudinal Retro	942572	
8	Assy Leakage Plate Suction Retro	Asm Plat de Fuite Suction Retro	942640	



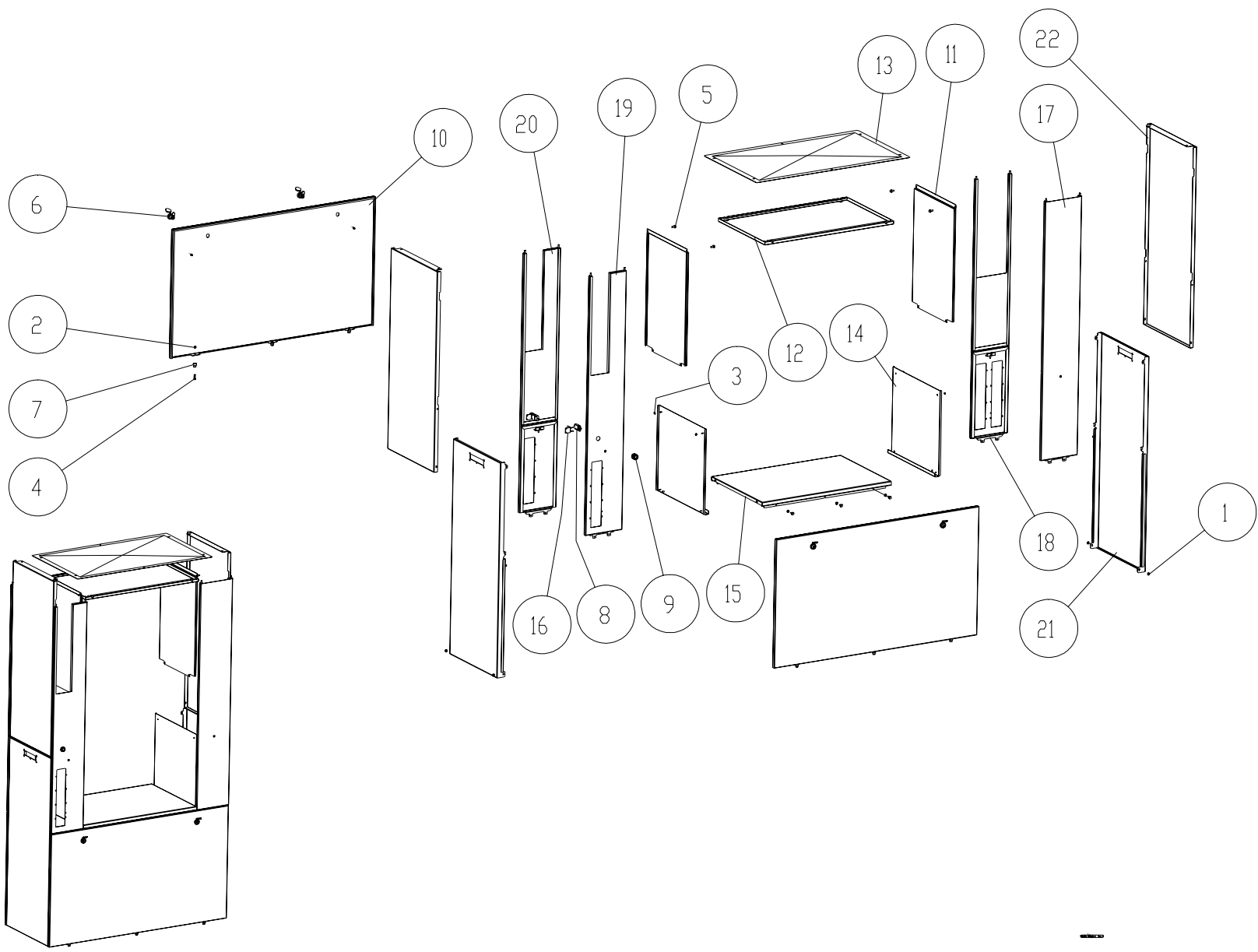
Issue B



## 2.2 Cladding Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
4	Screw SCS M6x25	Vis FS M6x25	900014-002	
5	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
6	Assembly Door Lock	Assy Porte Serrure	-	Refer to separate drawing
7	Adjustment Pin	Broche de Reglage	900403	
8	Microswitch	Microrupteur Inverseur	902503-001	
9	Button Black	Bouton Noir	908603-001	
10	Assy Door Hydraulic	Asm Porte Hydraulique	908783	
11	Column Cover Upper	Couverture de Colonne Supérieur	908788	
12	Canopy Cover	Couverture de Verrière	908791	
13	Canopy Top Cover Sheet	Couverture Supérieure de Verrière	909018	
14	Lower Column Cover Assy	Asm Couverture de Colonne Inf.	909077	
15	Hydraulic Cover Panel Assy	Asm Panneau de Couverture Hyd	909115	
16	Assy Microswitch Bracket	Asm Support Micro Rupteur	909304	
17	Assy Upper Cladding Panel Blind	Asm Panneau Supérieur Plaine	942313	
18	Assy Upper Clad Panel 2 Slot	Asm Panneau Supérieur 2 Fennes	942315	No push buttons
	Assy Upper Clad Panel 2 Slot 2 PB	Asm Panneau Supérieur 2 Fennes 2PB	942317	2 push buttons
	Assy Upper Clad Panel 2 Slot 1 PB RH	Asm Panneau Supérieur 2 Fennes 1PB RH	942319	1 push button right
	Assy Upper Clad Panel 2 Slot 1 PB LH	Asm Panneau Supérieur 2 Fennes 1PB LH	942321	1 push button left
19	Upper Clad Panel LH PB Assy	Droite Supérieure de Panneau PB	942402	1 push button
	Upper Clad Panel LH Assy	Droite Supérieure de Panneau	942400	No push buttons

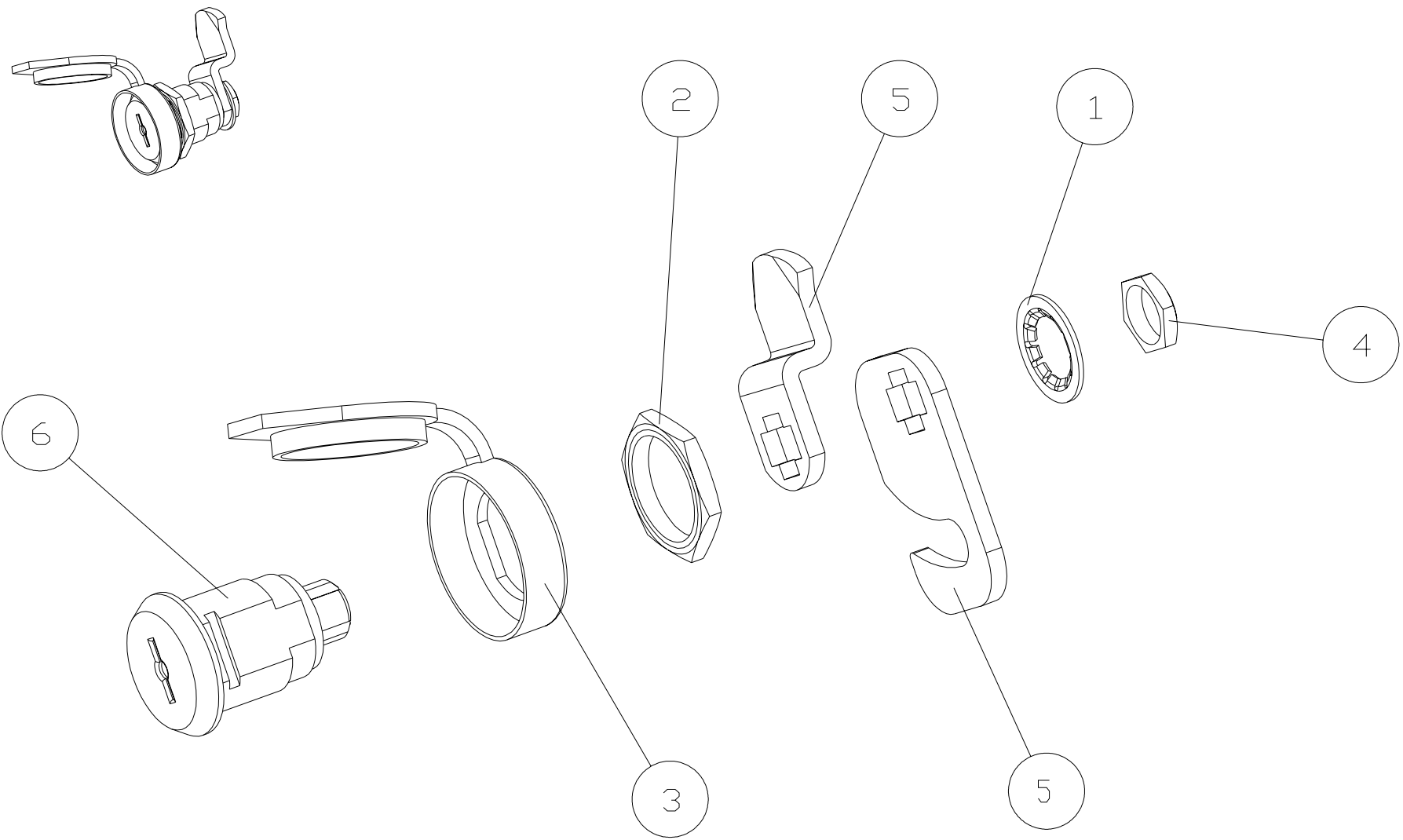
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Issue B

**2.2 Cladding Assembly (Cont.)**

Item No	Description	Désignation Français	Part No	Comments
20	Upper Clad Panel RH PB Assy	Gauche Supérieur de Panneau PB	942406	1 push button
	Upper Clad Panel RH Assy	Gauche Supérieur de Panneau	942404	No push button
21	Assy Lower End Cladding Panel	Asm Panneau De Revetement Inférieure	943102	
22	Upper End Clad Panel	Panneau D'Extrémité Supérieure	943103	



Issue A

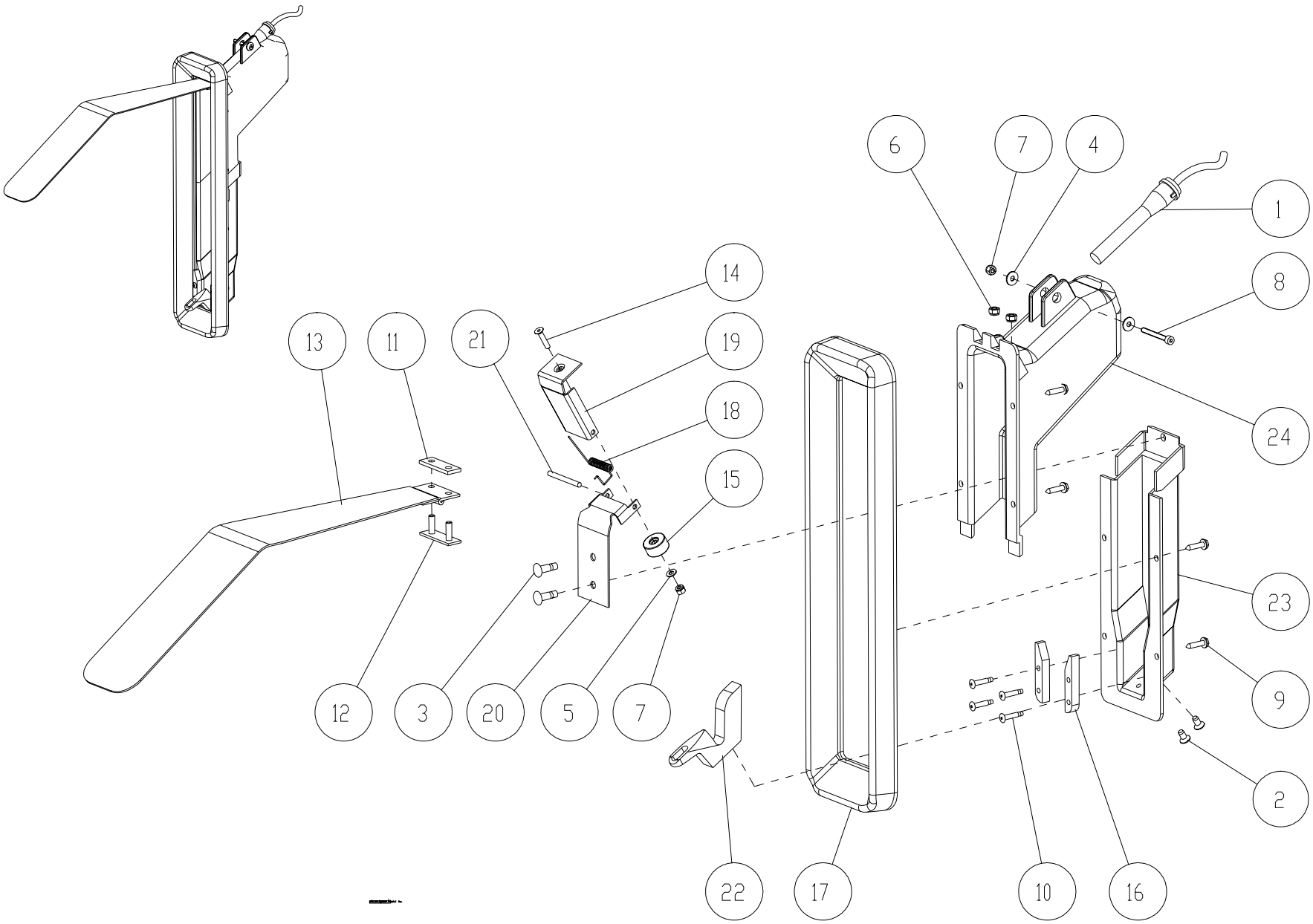
**2.3 Lock Assembly**

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	Lock Cam DIT Door	Came de serrure Porte DIT	900986	Q410 dispensers
6	Lock	Serrure	900389	

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Issue A

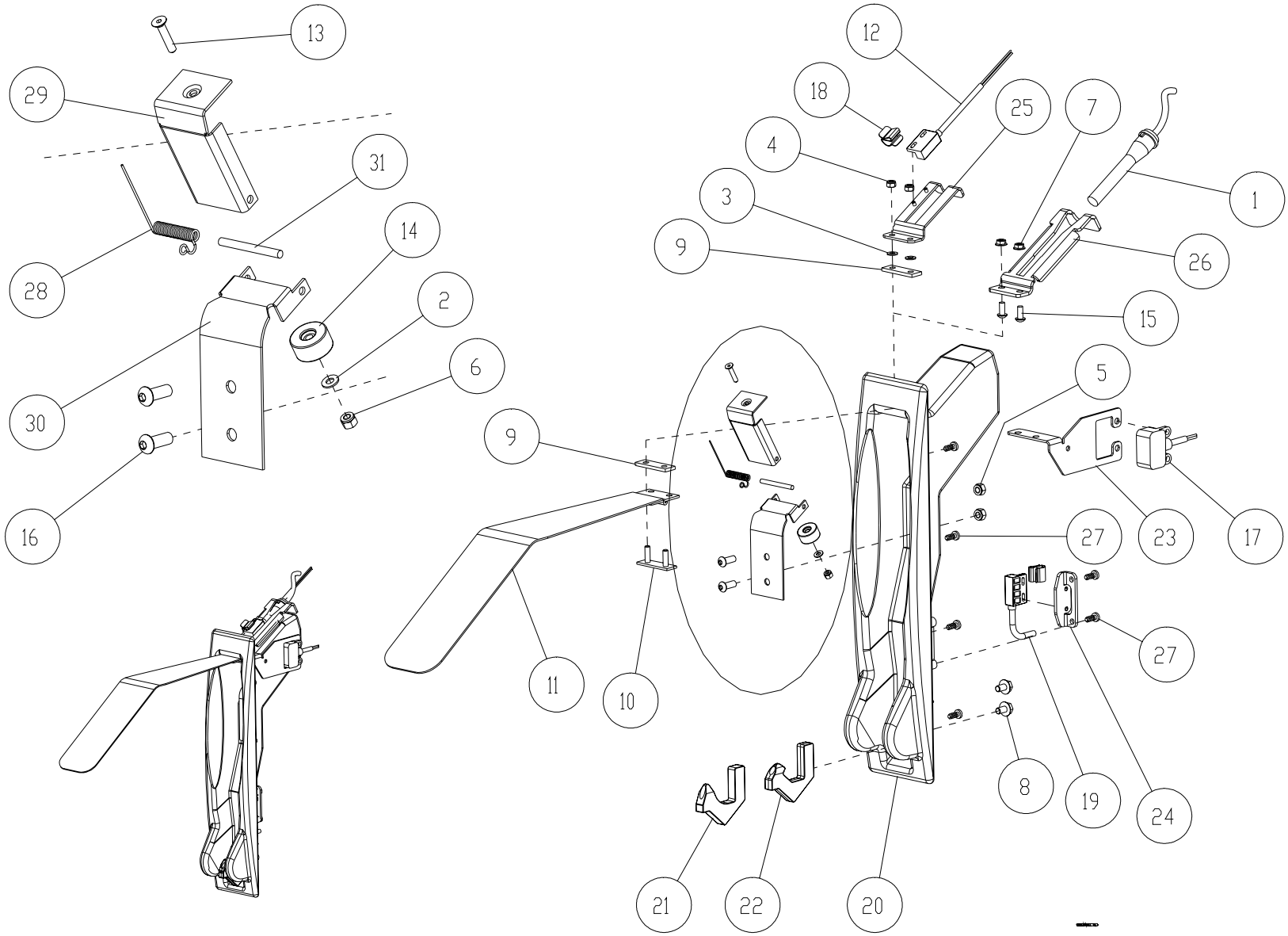


### 3 HOSE MANAGEMENT

#### 3.1 Nozzle Boot Assemblies

##### 3.1.1 ALUMINIUM NOZZLE BOOT

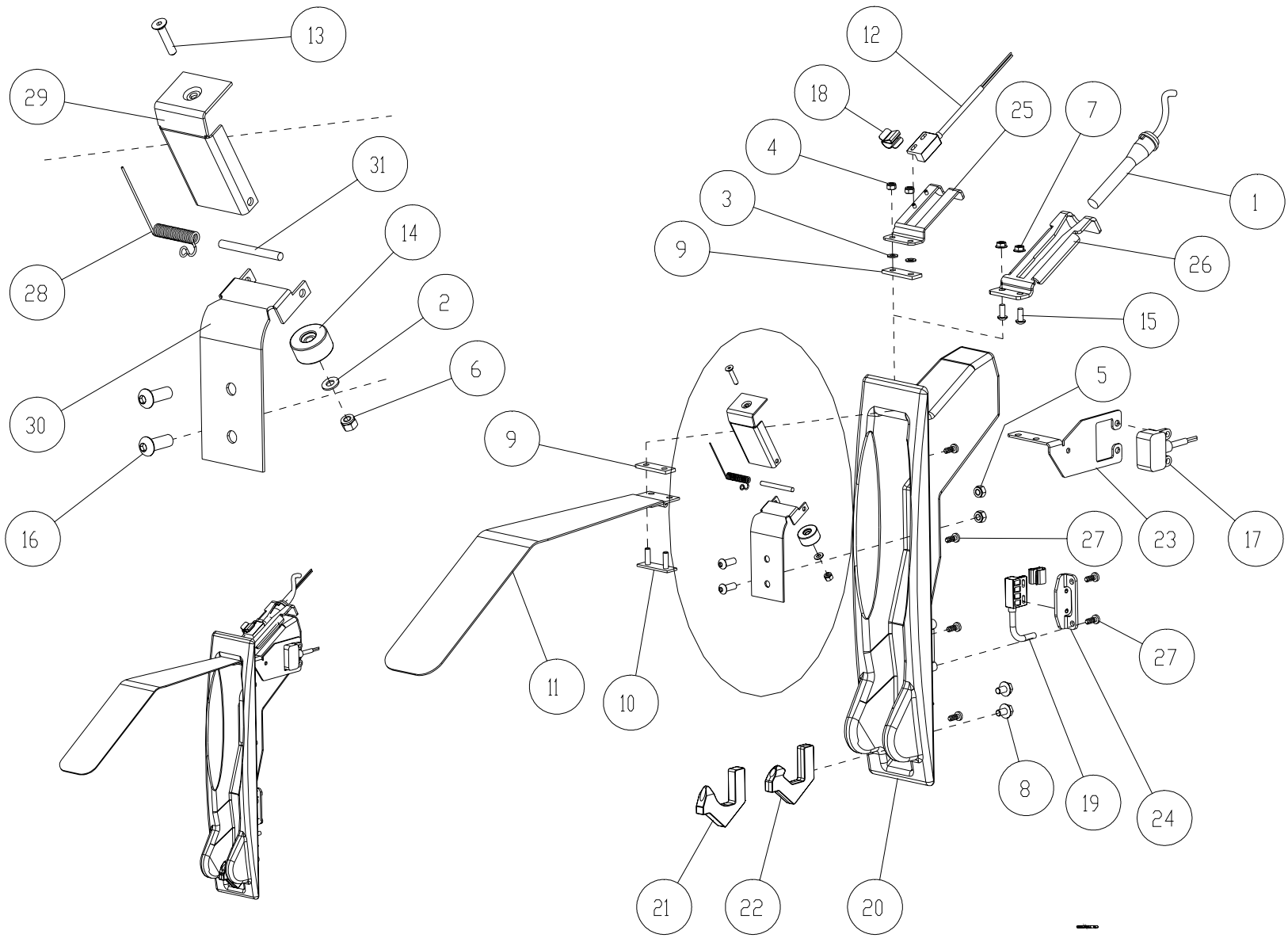
Item No	Description	Désignation Français	Part No	Comments
1	Nozzle Switch EEXD EECS Cert.	Contacteur EEXD EECS Cert.	5506000001	
2	C-Sink Tap Scr St-St M5 X 10	C-Sink Tap Scr St-St M5 x 10	5511000040	
3	Blind Rivet 6 x 12	Aveugne Rivet 6 x 12	5522000001	
4	Washer PI d2=3xd1 M4	Rondelle PI d2=3xd1 M4	900008-003	
5	Washer PI M4	Rondelle PI M4	900008-009	
6	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
7	Nut Hex Prev Torque M4	Ecrou Frein M4	900012-004	
8	Screw HSHC M4x35	Vis CHC M4x35	900017-030	
9	Screw HWHT ST4,2x19	Vis Autotaraud Hex ST4,2x19	900020-001	
10	Rivet Blind Domed 4.0x16.0	Rivet Pop Bomb 4.0x16.0	900025-003	
11	Gasket Prod. Ind. Flap	Joint Etanch Prod Ind Volet	900375	
12	Fixing Plate Prod. Ind. Flap	Plaque Fix Prod Ind Volet	900376	
13	Prod Ind Flap CPL.	Volet Prod Inf CPL.	900379	
14	Screw HSC M4x20	Vis FHC M4x20	900643-011	
15	Magnet 20x4,4x10	Aimant 20x4,4x10	900757-001	
16	Nozzle Boot Extension	Extension Crochet Buse	903572	
17	Nozzle Boot Trim	Crochet de Bec Trim	9220110003	
18	Spring	Resort	9220110082	
19	Switch Plate	Support Commutateur	9220110083	
20	Bracket Switch Mechanism	Support Mécanisme Commutateur	9220110084	
21	Pin	Goupille	9220110085	
22	Nozzle Boot Hook	Crochet de Bec	9223910080	
23	Aluminium Nozzle boot (Lower)	Buse Aluminium Inferieur	9223910081	
24	Aluminium Nozzle boot (Upper)	Buse Aluminium Inferieur	9223910082	



## 3.1.2 PLASTIC NOZZLE BOOT

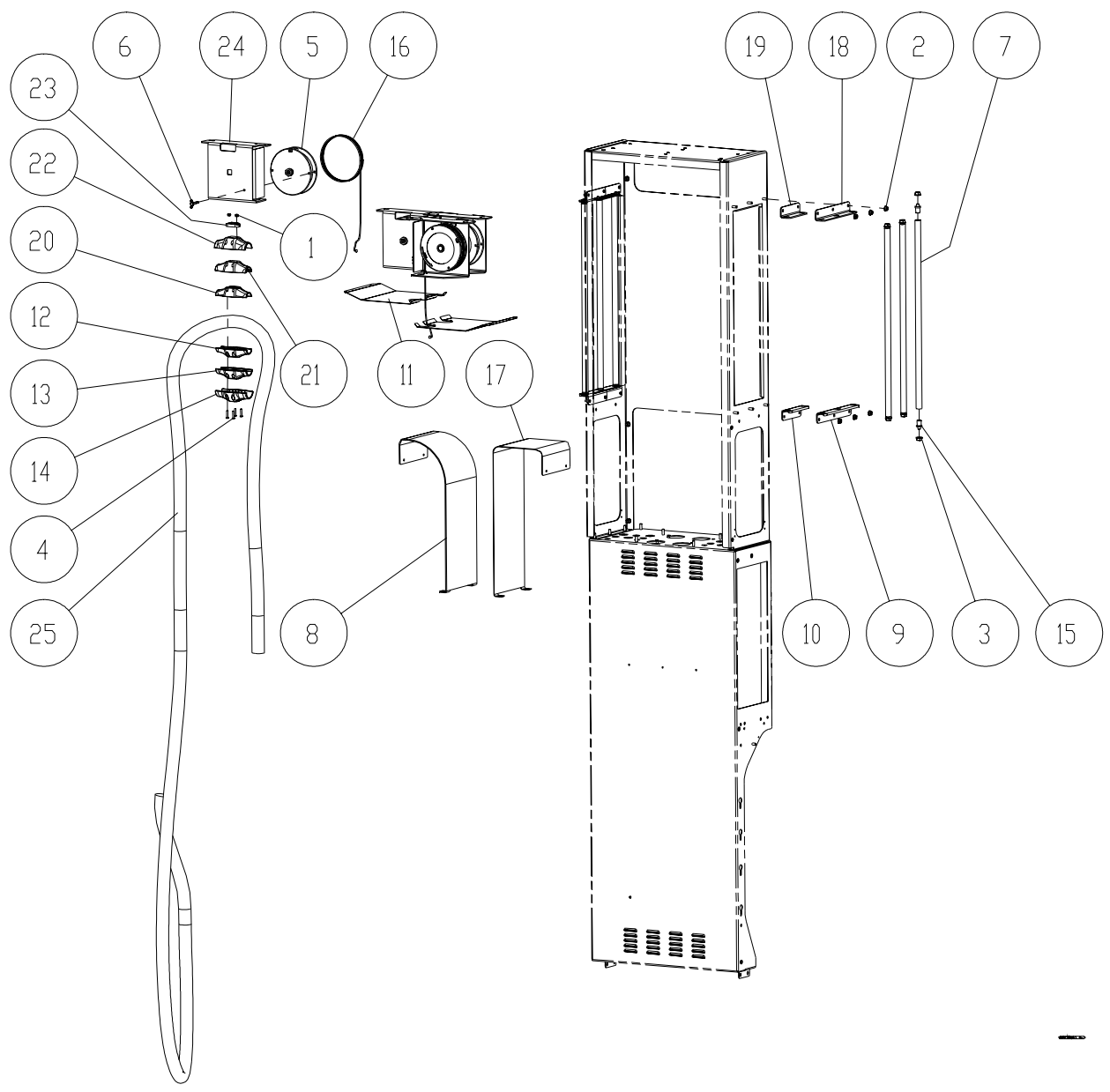
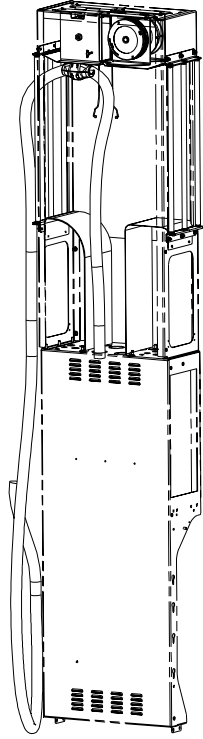
Item No	Description	Désignation Français	Part No	Comments
1	Nozzle Switch EEXD EECS Cert.	Contacteur EEXD EECS Cert.	5506000001	
2	Washer PI M4	Rondelle PI M4	900008-009	
3	Washer PI M5	Rondelle PI M5	900008-015	
4	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
5	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
6	Nut Hex Prev Torque M4	Ecrou Frein M4	900012-004	
7	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
8	Screw Hex Flange Head Selflock	Vis Hex Bride Autobloquant	900016	
9	Gasket Prod. Ind. Flap	Joint Etanch Prod Ind Volet	900375	
10	Fixing Plate Prod. Ind. Flap	Plaque Fix Prod Ind Volet	900376	
11	Prod Ind Flap Cpl.	Volet Prod Inf Cpl.	900379	
12	Magnetic Proximity Switch	Contact Magneti.q.de Proximité	900387-001	
13	Screw HSC M4 x 20	Vis FHC M4 x 20	900643-011	
14	Magnet 20X4,4X10	Aimant 20X4,4X10	900757-001	
15	Screw HSB M5x12	Vis CBHC M5x12	900795-001	
16	Screw HSB M6x16	Vis M6x16	900795-002	
17	Sensor Housing SATAM 230V	Capteur type SATAM 230V	904846	
18	Reed Switch Spring Clip	Ressort Fixation	907666	
19	Magnetic Proximity Switch Gen	Contact Magneti.q.de Proximité Gen	908172-001	
20	Nozzle Boot Slim	Buse Mince	909090	
21	Nozzle Boot Hook OPW	Crochet de bec OPW	940471	
22	Nozzle Boot Hook Secure	Cochet de bec Bloqué	940472	
23	Bracket Switch 230V	Support Commutateur 230V	940779	
24	Assy Bracket Lower Reed Switch	Asm Support Commutateur Inférieur	940780	
25	Assy Bracket Upper Reed Switch	Asm Support Commutateur Supérieur	940782	
26	Bracket Large Reed Switch	Support Grand Commutateur	940785	

(CONT.)



## 3.1.2 PLASTIC NOZZLE BOOT (CONT.)

Item No	Description	Désignation Français	Part No	Comments
27	Screw Poly 30 Posi Pan Dia 5x12	Vis Poly 30 Posi Pan Dia 5x12	940787-001	
28	Spring	Resort	942185	
29	Switch Plate	Support Commutateur	942186	
30	Bracket Switch Mechanism	Support Mécanisme Commutateur	942187	
31	Pin	Goupille	942188	



Issue B

### 3.2 Hose Management System

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	Bearing Vertical Roller	Palier de Rouleau Vertical	900505	
4	Screw HSB M4x20	Vis M4x20	900795-004	
5	Spring Drum 8 Kg	Equilibreur 8 Kg	902027-001	
6	Wing Screw	Vis D Aile	904300	
7	Vertical Roller D=16	Rouleau Vertical d=16	905976	
8	Hose Pullout Plate	Plat de Tube	908889	
9	Lower Roller Bracket 2 Hose	Support Rouleau deux Tuyaux	908890	
10	Roller Bracket Single Hose	Support Rouleau Tuyau Simple	908891	
11	Hose Protector	Protecteur de Tuyau	908895	
12	Hose Clamp Slimline	Collier de la Conduite Mince	909111	
13	Hose Clamp VR	Collier de la Conduite RV	909112	
14	Hose Clamp VHS	Collier de la Cond. Grande Vitesse	909113	
15	Vertical Roller End Plug	Bouchon Roleau Vertical	909119	
16	Rope Spring Drum L=1.9m	Corde d'enrouleur L=1.9m	909966	
17	Protection Bracket	Support de Protection	940387	
18	Upper Roller Bracket 2 Hose	Support Rouleau deux Tuyaux	940701	
19	Upper Roller Bracket Single Hose	Support Rouleau Tuyau Simple	940702	
20	Assy Hose Clamp Slimline	Asm Collier de la cond. Slimline	942394	
21	Assy Hose Clamp VR	Asm Collier de la cond. VR	942395	
22	Assy Hose Clamp VHS	Asm Collier de la cond. VHS	942396	
23	Cord Clamp	Collier de Corde	942411	
24	Drum Bracket Assembly	Asm Support enrouleur	942573	
25	Hose	Tuyau	-	Refer to separate Hose list

### 3.3 Hoses



#### 3.3.1 410CM LENGTH

Part No	Hose Colour	Hose Dia	Hose Length	Hose Type	Anti kink sleeve column	Anti kink sleeve nozzle	Coupling column	Coupling nozzle	Manufacturer	Special Performance
901103-214	black	16mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	standard
901103-215	black	16mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	Low Temp
901103-216	black	16mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	BioDiesel
901103-217	black	21mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	standard
901103-218	black	21mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	Low Temp
901103-219	black	21mm	410cm	slimline	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	BioDiesel
901103-221	black	25mm	410cm	slimline	none	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Elaflex	Low Temp
901103-223	black	21mm	410cm	VR	standard lattice	none	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	standard
901103-224	black	21mm	410cm	VR	standard lattice	none	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	Low Temp



### 3.4 Nozzles

#### 3.4.1 ELAFLEX NOZZLES



Part No	Speed (l/min)	Fuel	VR	Coupling	Break	Grip	Nozzle cover	Magnet	Tip/Spout	Manufacturer	Special
901135-038	40	unleaded	ECVR	1" male	none	standard	standard	in guard	st steel	Elaflex	on/off valve VR
901135-039	40	leaded	ECVR	1" male	none	standard	standard	in guard	st steel	Elaflex	on/off valve VR
901135-040	40/80	diesel	none	1" male	break coupling	standard	standard	in guard	standard	Elaflex	Dripcatcher
901135-044	80/130	diesel	none	1" male	none	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25
901135-046	40/80	diesel	none	1" male	none	standard	standard	in guard	standard	Elaflex	Dripcatcher
901135-047	80/130	diesel	none	1" male	break coupling	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25
901135-049	40	leaded	GRVP	1" male	none	standard	standard	in guard	st steel	Elaflex	no on/off valve VR
901135-050	40	unleaded	GRVP	1" male	none	standard	standard	in guard	st steel	Elaflex	no on/off valve VR
901135-051	40	leaded	ECVR	1" male	none	standard	standard	in guard	st steel	Elaflex	no on/off valve VR
901135-052	40	unleaded	ECVR	1" male	none	standard	standard	in guard	st steel	Elaflex	no on/off valve VR
901135-071	40	unleaded	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	
901135-072	40	leaded/diesel	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	
901135-073	40	unleaded	none	1" male	none	standard	standard	in guard	st steel	Elaflex	
901135-074	40	leaded/diesel	none	1" male	none	standard	standard	in guard	st steel	Elaflex	
901135-076	40	diesel	none	1" male	none	standard	standard	in guard	st steel	Elaflex	Dripstop
901135-077	40	diesel	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	Dripstop
901135-082	40	unleaded	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	
901135-083	40	leaded/diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	
901135-084	40/80	diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Dripcatcher
901135-085	40	diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Dripstop

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## 3.4.1 ELAFLEX NOZZLES (CONT.)

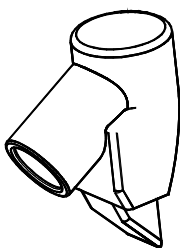
Part No	Speed (l/min)	Fuel	VR	Coupling	Break	Grip	Nozzle cover	Magnet	Tip/Spout	Manufacturer	Special
901135-086	80/130	diesel	none	1" male	non-reusable	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25
901135-092	40	ethanol	none	1" male	???	standard	standard	???	standard	Elaflex	
901135-093	40	unleaded	none	1" male	none	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-094	40	unleaded	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-095	40	unleaded	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-096	40	leaded/diesel	none	1" male	none	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-097	40	leaded/diesel	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-098	40	leaded/diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Secure handle
901135-099	40/80	diesel	none	1" male	none	standard	standard	in guard	standard	Elaflex	Dripcatcher; Secure handle
901135-100	40/80	diesel	none	1" male	break coupling	standard	standard	in guard	standard	Elaflex	Dripcatcher; Secure handle
901135-101	40/80	diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Dripcatcher; Secure handle
901135-102	40	diesel	none	1" male	none	standard	standard	in guard	st steel	Elaflex	Dripstop; Secure handle
901135-103	40	diesel	none	1" male	break coupling	standard	standard	in guard	st steel	Elaflex	Dripstop; Secure handle
901135-104	40	diesel	none	1" male	non-reusable	standard	standard	in guard	st steel	Elaflex	Dripstop; Secure handle
901135-105	80/130	diesel	none	1" male	none	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25; Secure handle
901135-106	80/130	diesel	none	1" male	break coupling	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25; Secure handle
901135-107	80/130	diesel	none	1" male	non-reusable	standard	standard	in guard	standard	Elaflex	HS 1" ZVA25; Secure handle
901135-108	40	unleaded	ECVR	1" male	none	standard	standard	in guard	st steel	Elaflex	on/off valve VR; Secure handle
901135-109	40	AdBlue	none	1" male	none	standard	standard	in guard	standard	Elaflex	AdBlue; swivel; filter

## 3.4.2 OPW NOZZLES

Part No	Speed (l/min)	Fuel	VR	Coupling	Break	Grip	Nozzle cover	Magnet	Tip/Spout	Manufacturer	Special
901852-001	40	unleaded	none	3/4" femal	none	standard	standard	none	standard	OPW	latch & spring
901852-002	40	leaded	none	3/4" femal	none	standard	standard	none	standard	OPW	latch & spring
901852-003	40	unleaded	none	3/4" femal	none	standard	standard	none	standard	OPW	
901852-004	40	leaded	none	3/4" femal	none	standard	standard	none	standard	OPW	
901852-005	40	diesel	none	3/4" femal	none	standard	standard	none	standard	OPW	Dripless latch & spring
901852-006	40	diesel	none	3/4" femal	none	standard	standard	none	standard	OPW	Dripless
901852-007	80/130	diesel	none	1" female	none	standard	standard	none	standard	OPW	1" latch & spring

### 3.5 Nozzle Extras

#### 3.5.1 NOZZLE COVERS



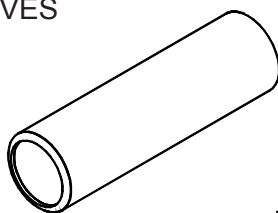
#### Elaflex Nozzle Covers

Part No	Description	Désignation Français
901136-001	Cover Nozzle EK144 Red	Capuchon Buse EK144 Rouge
901136-002	Cover Nozzle EK144 Green	Capuchon Buse EK144 Vert
901136-003	Cover Nozzle EK144 Light Green	Capuchon Buse EK144 Vert Clair
901136-004	Cover Nozzle EK144 Blue	Capuchon Buse EK144 Bleu
901136-005	Cover Nozzle EK144 Yellow	Capuchon Buse EK144 Jaune
901136-006	Cover Nozzle EK144 Black	Capuchon Buse RV EK144 Noir
901136-007	Cover VR Nozzle EK104 Black	Capuchon Buse RV EK104 Noir
901136-008	Cover VR Nozzle EK104 Red	Capuchon Buse RV EK104 Rouge
901136-009	Cover VR Nozzle EK104 Green	Capuchon Buse RV EK104 Vert
901136-010	Cover VR Nozzle EK104 Blue	Capuchon Buse RV EK104 Bleu
901136-011	Cover VR Nozzle EK104 Yellow	Capuchon Buse RV EK104 Jaune
901136-012	Cover VR Nozzle EK104 Light Green	Capuchon Buse RV EK104 Vert Clair
901136-013	Cover Nozzle EK144 Silver/Grey	Capuchon Buse EK144 Argent/Gris
901136-014	Cover VR Nozzle EK104 Silver/Grey	Capuchon Buse RV EK104 Argent/Gris
901136-015	Cover Nozzle EK144 Orange	Capuchon Buse EK144 Orange
901136-016	Cover VR Nozzle EK104 Orange	Capuchon Buse RV EK104 Orange
901136-017	Cover Nozzle EK144 Light Blue	Capuchon Buse RV EK144 Bleu Clair
901136-018	Cover VR Nozzle EK104 Light Blue	Capuchon Buse RV EK104 Bleu Clair
901136-019	Cover Nozzle EK144 Dark Blue	Capuchon Buse EK144 Bleu Fonce
901136-020	Cover VR Nozzle EK104 Dark Blue	Capuchon RV Buse EK104 Bleu Fonce

#### OPW Nozzle Covers

Part No	Description	Désignation Français
901853-001	Nozzle Cover OPW/19/Hole/Yellow	Protecteur de Buse OPW/19/Hole/Jaune
901853-002	Nozzle Cover OPW/19/Hole/Green	Protecteur de Buse OPW/19/Hole/Vert
901853-003	Nozzle Cover OPW/19/Hole/Red	OPW/19/Hole/Rouge
901853-004	Nozzle Cover OPW/19/Hole/Blue	Protecteur de Buse OPW/19/Hole/Bleu
901853-005	Nozzle Cover OPW/19/Hole/Black	Protecteur de Buse OPW/19/Hole/Noir
901853-006	Nozzle Cover OPW/19/No Hole/Yellow	Hole/Jaune
901853-007	Nozzle Cover OPW/19/Nohole/Green	OPW/19/Nohole/Vert
901853-008	Nozzle Cover OPW/19/Nohole/Red	OPW/19/Nohole/Rouge
901853-009	Nozzle Cover OPW/19/Nohole/Blue	OPW/19/Nohole/Bleu
901853-010	Nozzle Cover OPW/19/Nohole/Black	OPW/19/Nohole/Noir
901853-011	Nozzle Cover OPW/25/Hole/Black	Protecteur de Buse OPW/25/Hole/Noir
901853-012	Nozzle Cover OPW/25/Nohole/Black	OPW/25/Nohole/Noir

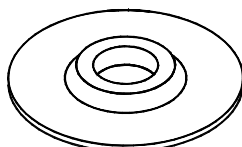
## 3.5.2 SLEEVES



## Elaflex Sleeves

Part No	Description	Désignation Français
901107-001	Sleeve ST16 Red	Gaine Flex ST16 Rouge
901107-002	Sleeve ST16 Green	Gaine Flex ST16 Verte
901107-003	Sleeve ST16 Blue	Gaine Flex ST16 Bleue
901107-004	Sleeve ST16 Yellow	Gaine Flex ST16 Jaune
901107-005	Sleeve ST16 Black	Gaine Flex ST16 Noire
901107-006	Sleeve ST21 Red	Gaine Flex Coax ST21 RV Rouge
901107-007	Sleeve ST21 Green	Gaine Flex Coax ST21 RV Verte
901107-008	Sleeve ST21 Blue	Gaine Flex Coax ST21 RV Bleue
901107-009	Sleeve ST21 Black	Gaine Flex Coax ST21 RV Noire
901107-010	Sleeve ST21 Yellow	Gaine Flex Coax ST21 RV Jaune
901107-011	Sleeve ST16 Silver/Grey	Gaine Flex Coax ST16 Argent/Gris
901107-012	Sleeve ST21 Silver/Grey	Gaine Flex Coax ST21 RV Argent/Gris
901107-013	Sleeve ST16 Orange	Gaine Flex Coax ST16 Orange
901107-014	Sleeve ST21 Orange	Gaine Flex Coax ST21 RV Orange

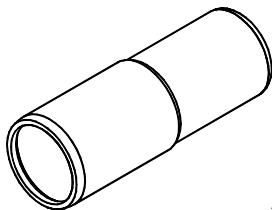
## 3.5.3 SPLASHGUARDS



## Elaflex Splashguards

Part No	Description	Désignation Français
901138-001	Splashguard Red	Rondelle Anti Egoutture Rouge
901138-002	Splashguard Green	Rondelle Anti Egoutture Verte
901138-003	Splashguard Blue	Rondelle Anti Egoutture Bleu
901138-004	Splashguard Yellow	Rondelle Anti Egoutture Jaune
901138-005	Splashguard Black	Rondelle Anti Egoutture Noire
901138-006	Splashguard Ultimate Unleaded VR	Rondelle Anti Egout. Ultime Sans Plomb RV
901138-007	Splashguard Ultimate Unleaded non-VR	Rondelle Anti Egout. Ultime Sans Plomb Non-RV
901138-008	Splashguard Ultimate Diesel Dripcatcher O/B	Rondelle Bague Anti Egout Ultime Diesel
901138-009	Splashguard Ultimate Diesel Standard O/B	Rondelle Anti Egout Ultime Diesel Std
901138-010	Splashguard Green VR	Rondelle Anti Egoutture Vert RV
901138-011	Splashguard Black Dripcatcher/VR	Rondelle Anti Egoutture Noir
901138-012	Splashguard FR Unleaded Light Blue	Rondelle Anti Egoutture FR Bleu Clair
901138-013	Splashguard France Ultimate Diesel Dark Blue	Rondelle Anti France Ultime Diesel Bleu Fonce

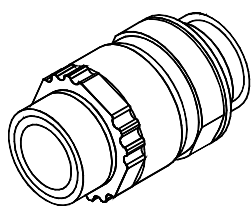
3.5.4 SLEEVE BREAKS



**Elaflex Sleeve Breaks**

Part No	Description	Désignation Français
901140-001	Sleeve Break BT16 Red	Gaine Flex Rac Cass BT16 Rouge
901140-002	Sleeve Break BT16 Green	Gaine Flex Rac Cass BT16 Vert
901140-003	Sleeve Break BT16 Blue	Gaine Flex Rac Cass BT16 Bleu
901140-004	Sleeve Break BT16 Yellow	Gaine Flex Rac Cass BT16 Jaune
901140-005	Sleeve Break BT16 Black	Gaine Flex Rac Cass BT16 Noir
901140-006	Sleeve Break BT21 Red	Gaine Flex Rac Cass BT21 Rouge
901140-007	Sleeve Break BT21 Green	Gaine Flex Rac Cass BT21 Vert
901140-008	Sleeve Break BT21 Black	Gaine Flex Rac Cass BT21 Noir
901140-009	Sleeve Break BT21 Blue	Gaine Flex Rac Cass BT21 Bleu
901140-010	Sleeve Break BT21 Yellow	Gaine Flex Rac Cass BT21 Jaune
901140-011	Sleeve Break BT16 Silver/Grey	Gaine Flex Rac Cass BT16 Argent/Gris
901140-012	Sleeve Break BT21 Silver/Grey	Gaine Flex Rac Cass BT21 Argent/Gris
901140-013	Sleeve Break BT16 Orange	Gaine Flex Rac Cass BT16 Orange
901140-014	Sleeve Break BT21 Orange	Gaine Flex Rac Cass BT21 Orange

3.5.5 BREAK COUPLINGS



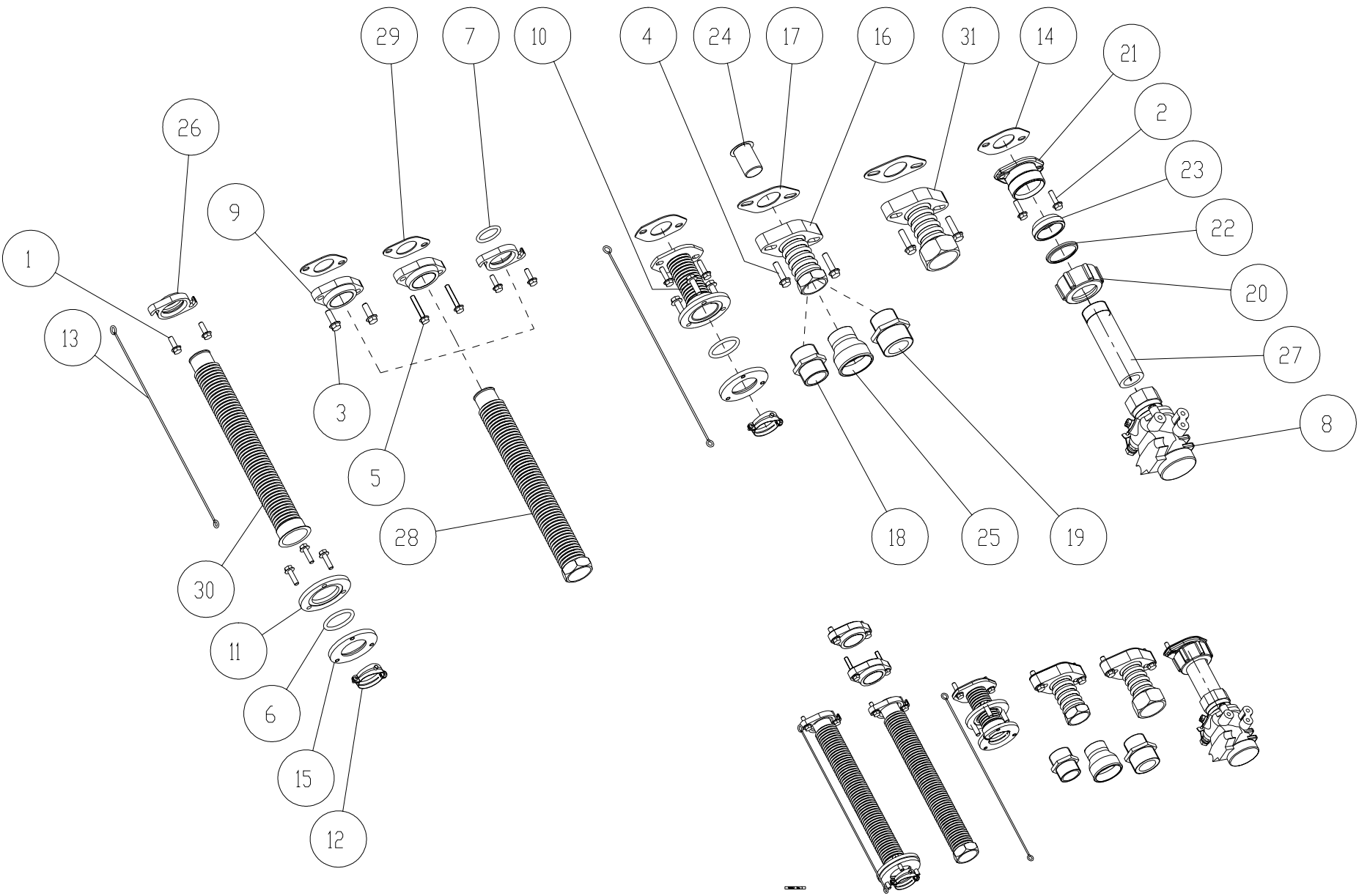
**Elaflex Break Couplings**

Part No	Description	Désignation Français
901137-001	Break Coupling 1" Male BS7117	Raccord Cassant 1" Mâle BS7117
901137-002	Break Coupling 1" Male Non BS7117	Raccord Cassant 1" Mâle Non BS7117
901137-003	Break Coupling 1" Male Non Reuseable	Raccord Cassant 1" Mâle Non Reutilisable
901568-001	Break Coupling VR	Raccord Cassant RV
901568-002	Break Coupling VR Non Reuseable	Raccord Cassant RV Non Reutilisable

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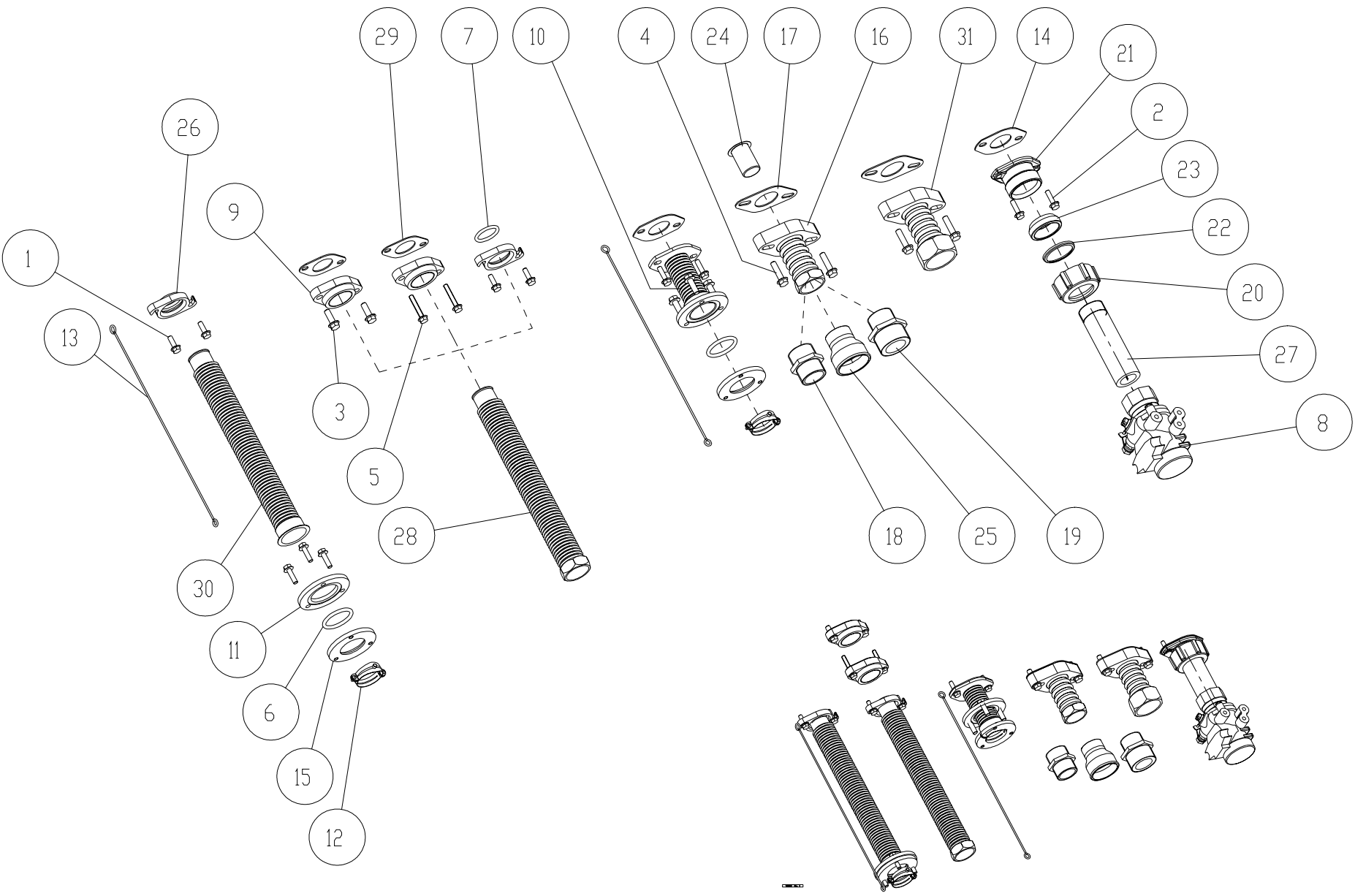


## 4 DISPENSER HYDRAULICS

### 4.1 Flexible Connections

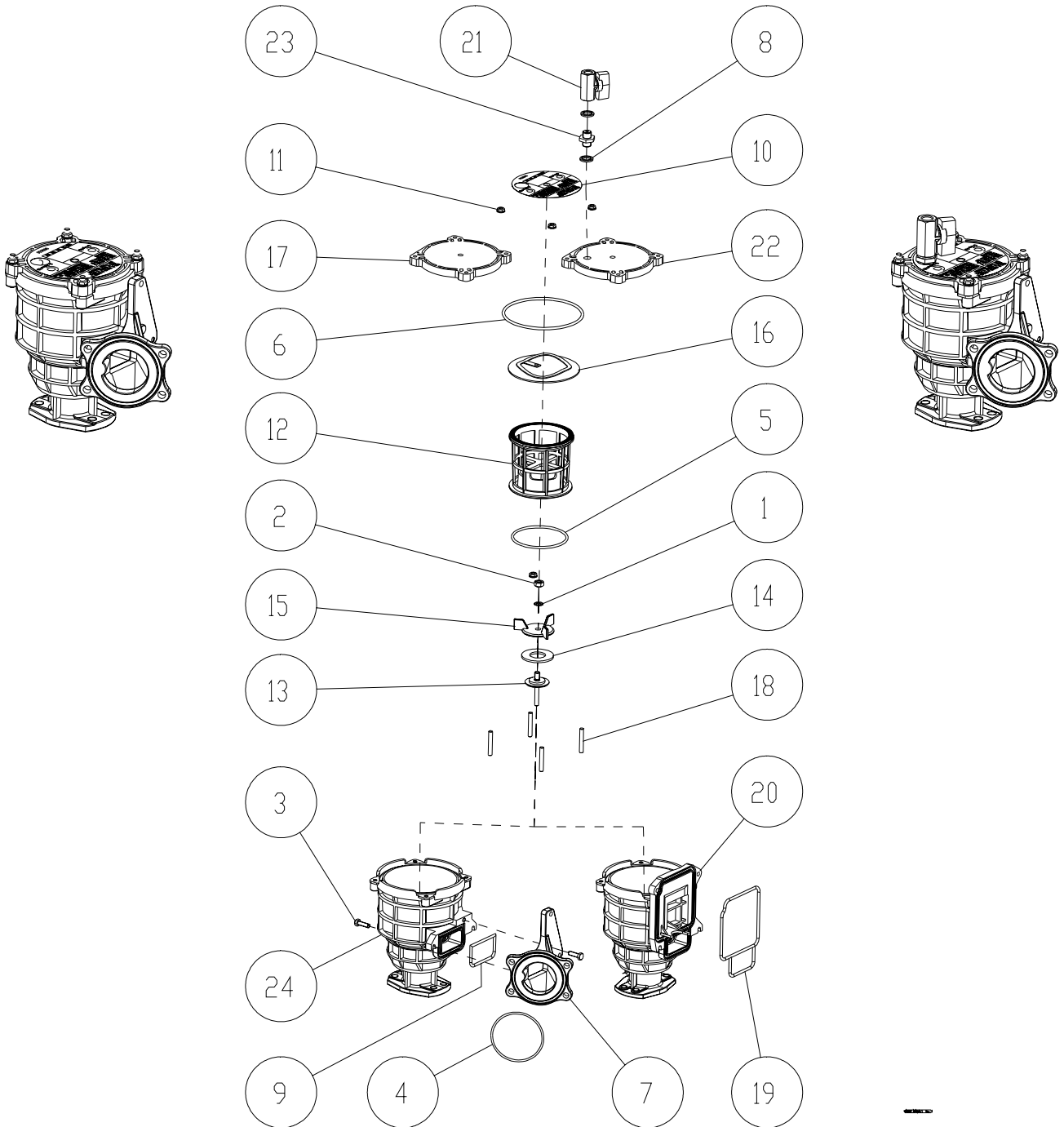
Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
2	Screw HFHSL M8x30	Vis Hex Br Autobl M8x30	900016-008	
3	Screw HFHSL M10x30	Vis Hex Br Autobl M10x30	900016-017	
4	Screw HFHSL M10x40	Vis Hex Br Autobl M10x40	900016-018	
5	Screw HFHSL M8x50	Vis Hex Br Autobl M8x50	900016-022	
6	O-Ring 49,00x6,00	Joint Torique 49,00x6,00	900050-028	
7	O-Ring 37,47x5,33	Joint Torique 37,47x5,33 (R28)	900050-047	
8	Shear Valve	Raccord Cassant	901108	
9	Flange 1-1/2" 82mm	Bride 1-1/2" 82mm	901320-002	
10	Pipe Flex Weld Assy	Tube d'aspiration Soude	901900	
11	Flange Backing	Contre-Bride	901902	
12	Terminal Earth Cable	Collier de Masse D50	901903	
13	Earthwire	Fil de Mise a la Terre	901904	
14	Gasket - Flange 76-84	Joint de Bride 76-84	901905	
15	Flange Backing for O-Ring	Contre-Bride Pour Joint Torique	901906	
16	Assy Flexwell 1 1/2" Female	Tube d'aspiration Soude	901929	
17	Gasket - Flange 82-110	Joint de Bride 82-110	901930	
18	R1 1/2" x R1 1/2" Nipple	Machon R1 1/2" x R1 1/2"	902212-002	
19	R1 1/2" x R2" Nipple	Machon R1 1/2" x R2"	902212-003	
20	Nut - NEFIT Coupling	Ecrou Raccord NEFIT	902863	
21	Body - NEFIT Coupling	Corps Raccord NEFIT	902864	
	Body - NEFIT Coupling anodised	Corps Raccord NEFIT anodisé	943158	Ethanol compliant
22	Washer - NEFIT seal	Rondelle Joint NEFIT	902865	
23	Sealing Ring - NEFIT coupling	Joint Raccord NEFIT	902866	

(Cont.)



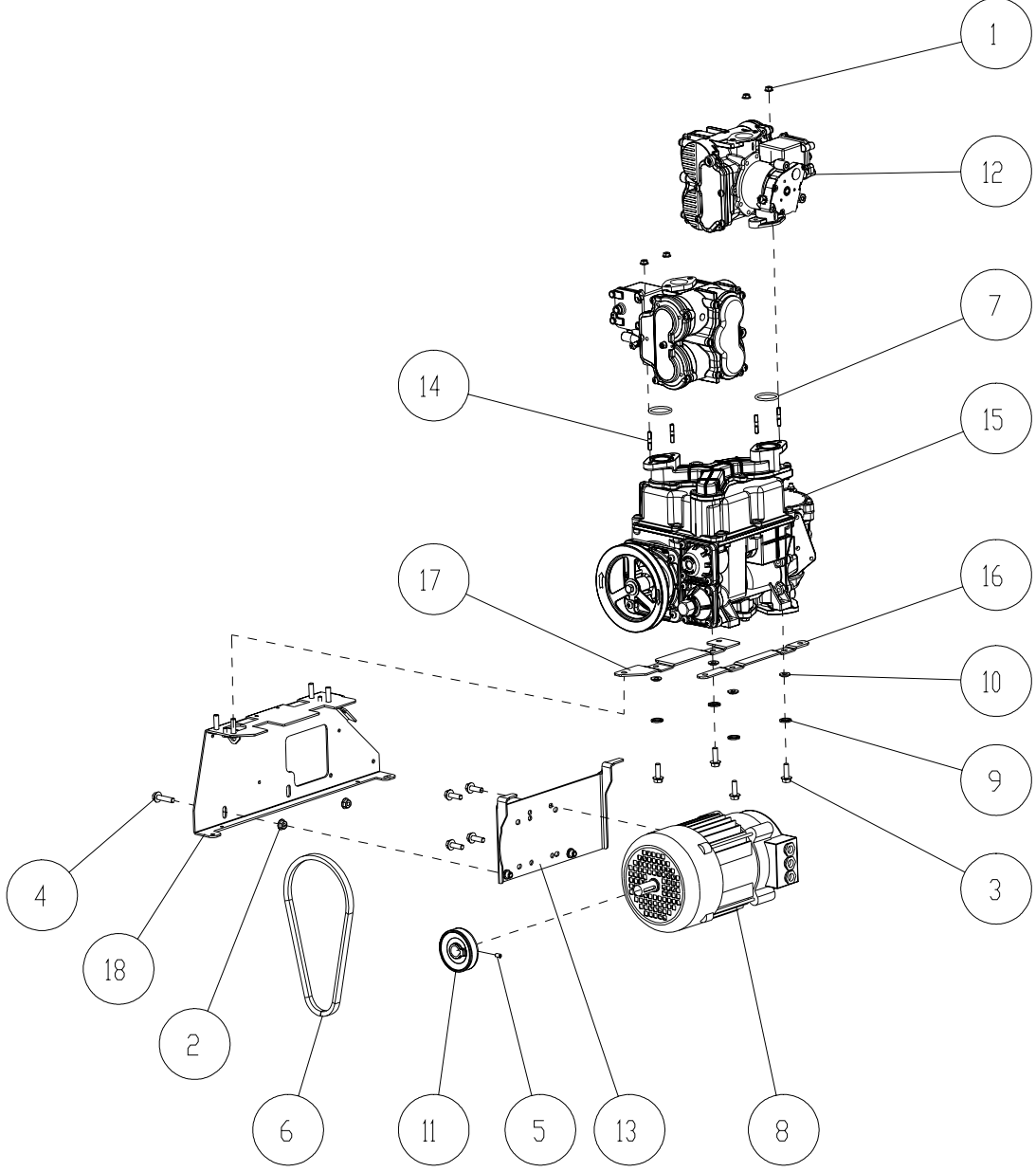
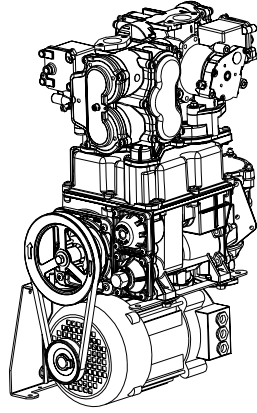
#### 4.1 Flexible Connections (Cont.)

Item No	Description	Désignation Français	Part No	Comments
24	Filter In Line	Filtre	902964	
25	Socket M/F 1 1/2" x 2"	Machon M/F 1 1/2" x 2"	903466-001	
26	Junction Flange Junction Flange anodised	Bride de Jonction Bride de Jonction anodisé	903535 909788	Ethanol compliant
27	Pipe NEFIT Adapter	Tube Connexion NEFIT	903583	
28	1 1/2" Flexwell Pipe Assy 380mm	1 1/2" Flexwell Tube Assy 380mm	906639	
29	Gasket - Flange	Joint de Bride	906960	
30	1 1/2" Flange Pipe 380mm	1 1/2" Bride tube 380mm	907008	
31	Assy Flexwell 2" female	Tube d'aspiration Soude	940479	



## 4.2 Filter Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M8	Rondelle a Dents DEC M8	900009-002	
2	Nut Hex M8	Ecrou H M8	900011-003	
3	Screw HH M6x20	Vis H M6x20	900015-010	
4	O-Ring 78,00x3,00	Joint Torique 78,00x3,00	900050-008	EPZ/TQP-RS
5	O-Ring 82,14x3,53	Joint Torique 82,14x3,53	900050-025	
6	O-Ring 120,00x4,00	Joint Torique 120,00x4,00	900050-027	
7	Adaptor EPZ-Filterbox	Adaptateur EPZ-Boite de Filtre	900358	EPZ/TQP-RS
8	Dowty Seal Self Centre 1/4" BSP	Dowty Joint Torique 1/4" BSP	900450-001	Filter monitor option
9	O-ring Filterbox	Joint de Filtre	900635	EPZ/TQP-RS
10	Sticker Filterbox Cover	Autocollant Couvercle Boite de	900636	
11	Nut Hex Serpress M6	Ecrou Serpress M6	901295-001	
12	Filter 90 microns	Filtre 90 microns	901612	
13	Foot Valve Guide	Guide Clapet	901690	
14	Foot Valve Flat Seal	Joint de Clapet	901691	
15	Foot Valve Head	Tete Clapet	901692	
16	Spring Plate	Plaque supp. equipee	901693	
17	Filter Box Cover	Couvercle Boite de Filtre	901694	
18	Stud M6x40 (18-4-18)	Goujon M6x40 (18-4-18)	901695	
19	O-ring Filterbox Support	Joint Platine BAF	902388	PAS V3
20	Filterbox	Boite de Filtre	902398	PAS V3
21	Valve - Ball (Mini)	Vanne Spherique(Mini)	903472-001	Filter monitor option
22	Cover - Adapted Filter Lid	Covercle - Adapte Filter	903473	Filter monitor option
23	Assy - Check Valve	Asm - Clapet Anti-retour	903478	Filter monitor option
24	Filterbox	Boite de Filtre	909769	EPZ/TQP-RS

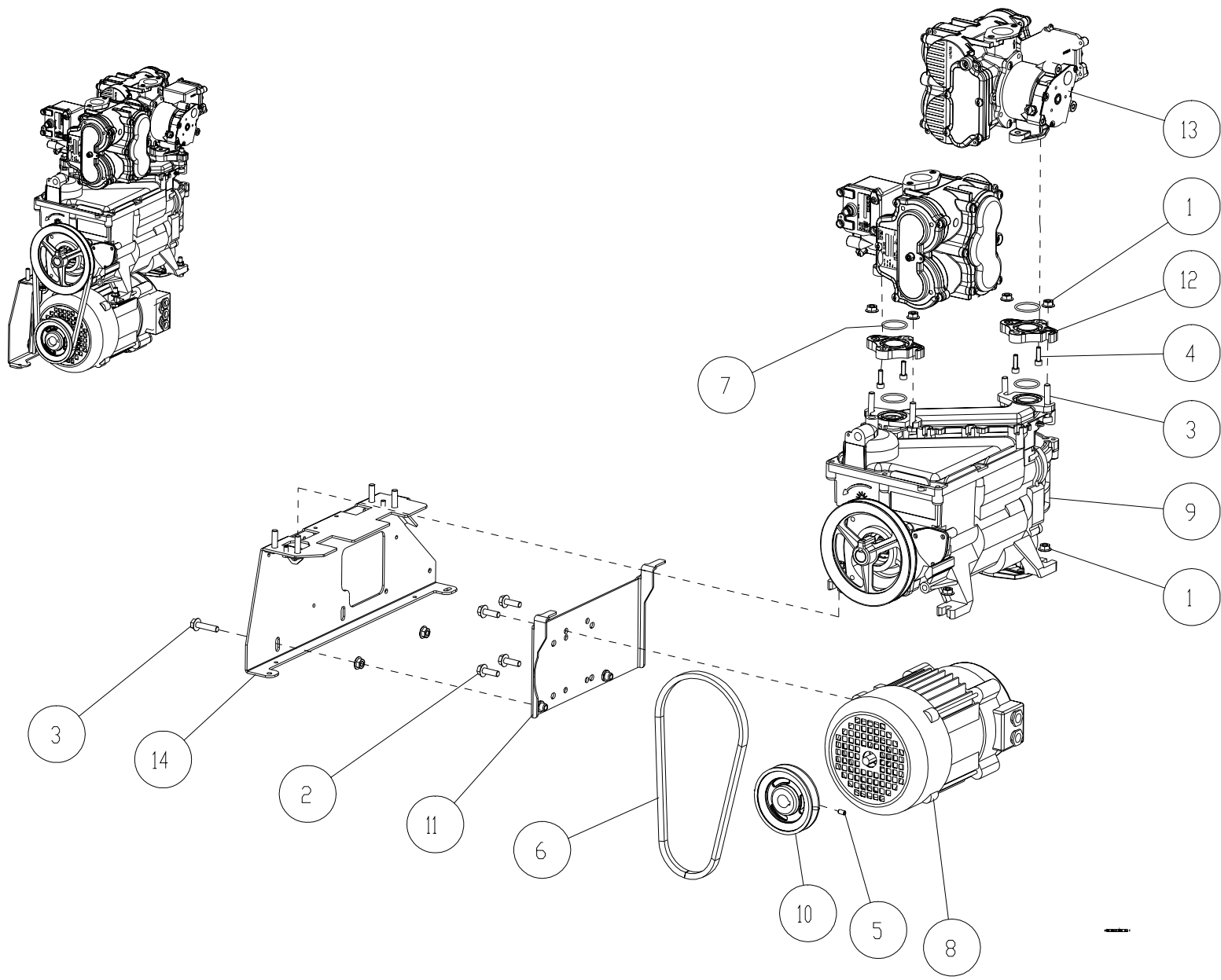


Issue B

### 4.3 Hydraulic Stack Assemblies

#### 4.3.1 EPZ HYDRAULIC STACK

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
3	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
4	Screw HFHSL M8x35	Vis Hex Br Autobl M8x35	900016-015	
5	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
6	V-Belt - 13 x 8 x 684 Lp	Courroie - 13 x 8 x 684 Lp	900028-003	Refer to separate list
7	O-Ring 34,10x3,60	Joint Torique 34,10x3,60	900050-019	
8	Motor EXD 0.75kW 240V 50Hz CW	Mot. EXD 0.75kW 240V 50 Hz CW	900060-006	Refer to separate list
9	Dowty Seal Self Centre 1/4" BSP	Dowty Joint Torique 1/4" BSP	900450-001	
10	Insulation Sleeve 8.2 mm	Manchon Isolant 8.2 mm	900758-003	
11	Pulley - Motor Datum Ø 68 mm	Poulie Moteur Axe D19mm Dp68mm	903963	Refer to separate list
12	Meter TM80 In Line	Meter TM80 en Ligne	908178	
13	Bracket Motor Assy.	Asm Support Moteur	908803	
14	Stub threaded specific M6x32	Goujon Special M6x32	909271	
15	EPZ Stack F/box Assy Std EPZ Stack F/box Assy Low Temp EPZ Stack w/o F/box Assy Std EPZ Stack w/o F/box Assy Low Temp EPZ Stack with Internal Filter Std EPZ Stack with Internal Filter Low Temp	EPZ Stack F/box asm Std EPZ Stack F/box Assy Low Temp EPZ Stack w/o F/box Assy Std EPZ Stack w/o F/box Assy Low Temp EPZ Stack with Internal Filter Std EPZ Stack with Internal Filter Low Temp	909650-001 909650-002 909652-001 909652-002 909652-003 909652-004	Refer to separate drawing
16	Adaptor EPZ75 Uni	Adaptateur EPZ75 Uni	942178	
17	Adaptor EPZ75 Uni B	Adaptateur EPZ75 Uni B	942310	
18	Assy Pump Brkt Uni	Asm Support Pompe Uni	942349	



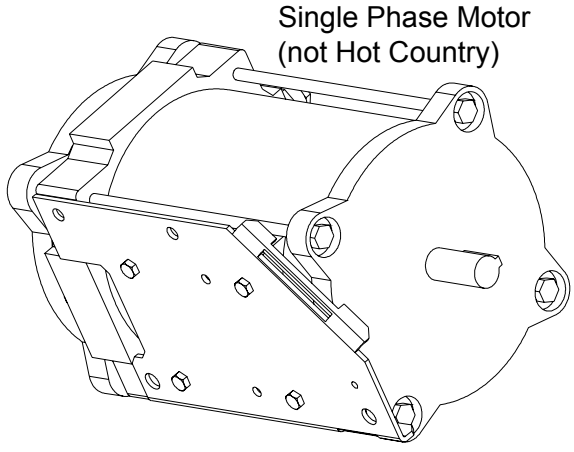
Issue B



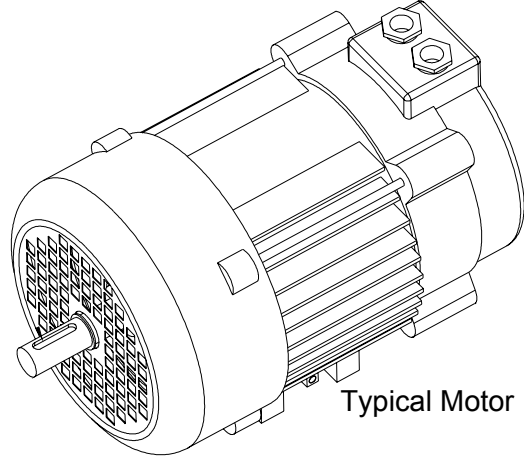
## 4.3.2 PAS V3 HYDRAULIC STACK

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
2	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
3	Screw HFHSL M8x35	Vis Hex Br Autobl M8x35	900016-015	
4	Screw HSHC M6x20	Vis CHC M6 x 20	900017-006	
5	Screw HSS Cup Point M6x10	Vis HC M6 x 10 Stzn	900019-001	
6	V-Belt - Various	Courroie - Divers	-	Refer to separate list
7	O-ring 32.00x2.5 NBR 70SH	Joint torique 32.00x2.5 NBR 70	900050-045	
8	Motors - Various	Moteurs - Divers	-	Refer to separate list
9	PASV3 Pump	PASV3 Pompe	900359	
10	Pulley Dp 95	Poulie Dp 95	-	Refer to separate list
11	Bracket Motor Assy	Asm Support Moteur	908803	
12	Meter Flange SM80/V3	Contre Bride SM80/V3	908927	
13	Meter TM80 in Line Assembly	Mesureur TM80 en Ligne Asm	910036	Refer to TM80 Meter Manual ***
14	Assy Pump Brkt Uni	Asm Support Pompe Uni	942349	

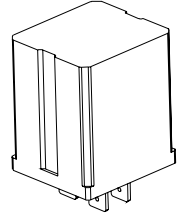
**\*\*\* PLEASE NOTE : EARLY ORDERS OF THIS DISPENSER MAY BE FITTED WITH SM80 METERS - PLEASE REFER TO RELEVANT SM80 METER MANUAL.**



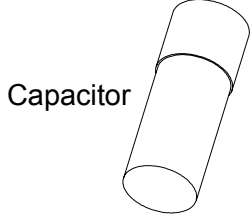
Single Phase Motor  
(not Hot Country)



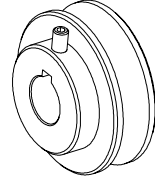
Typical Motor



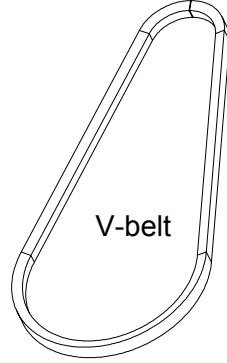
Relay



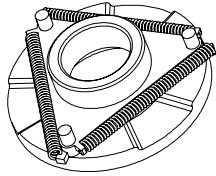
Capacitor



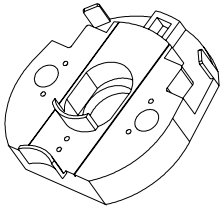
Pulley



V-belt



Centrifugal  
Switch Actuator



Centrifugal  
Switch Contact

4.3.3 MOTOR ACCESSORIES PARTS LIST

	EPZ		PAS V3 (80)		PAS V3 (130)	
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
<b>PULLEY</b> (size)	905839 Dp68mm	906446 Dp60mm	901465 Dp95mm	906447 Dp80mm	901466 Dp71mm	906446 Dp60mm
<b>V-BELT</b> (size)	900028-003 13x8x684	900028-003 13x8x684	900028-004 13x8x745	900028-005 13x8x720	900028-005 13x8x720	900028-014 13x8x705
<b>3 PHASE MOTOR STAR</b> (description)	900060-002 1kW		900060-002 1kW		900060-003 1.5kW	
<b>3 PHASE MOTOR DELTA</b> (description)	900068-002 1kW		900068-002 1kW		900068-003 1.5kW	
<b>1 PHASE MOTOR</b> (Hot Country)	900060-006 0.75kW CW	900060-007 0.75kW CW	900060-012 1kW CCW	900060-013 1kW CCW	907502 1.5kW CCW	906573 1.5kW CCW
<b>1 PHASE MOTOR</b> (Not Hot Country)	903079-001* 1kW CW		903079-002* 1kW CCW		903173* 1.5kW CCW	
<b>START CAPACITOR</b> (Hot Country)	907315-007 120uF	907315-007 120uF	907315-007 120uF	907315-007 120uF	907315-005* 175uF	907315-004* 100uF
<b>RUN CAPACITOR</b> (Hot Country)	907315-008 25uF	907315-009 20uF	907315-008 25uF	907315-009 20uF	907315-002* 25uF	907315-003* 30uF

	RAEL MOTORS		ELNOR MOTORS	
	1 Phase	3 Phase	1 Phase	3 Phase
<b>SPARE RELAYS</b>	907316-002	907316-003	907316-001	

KEY

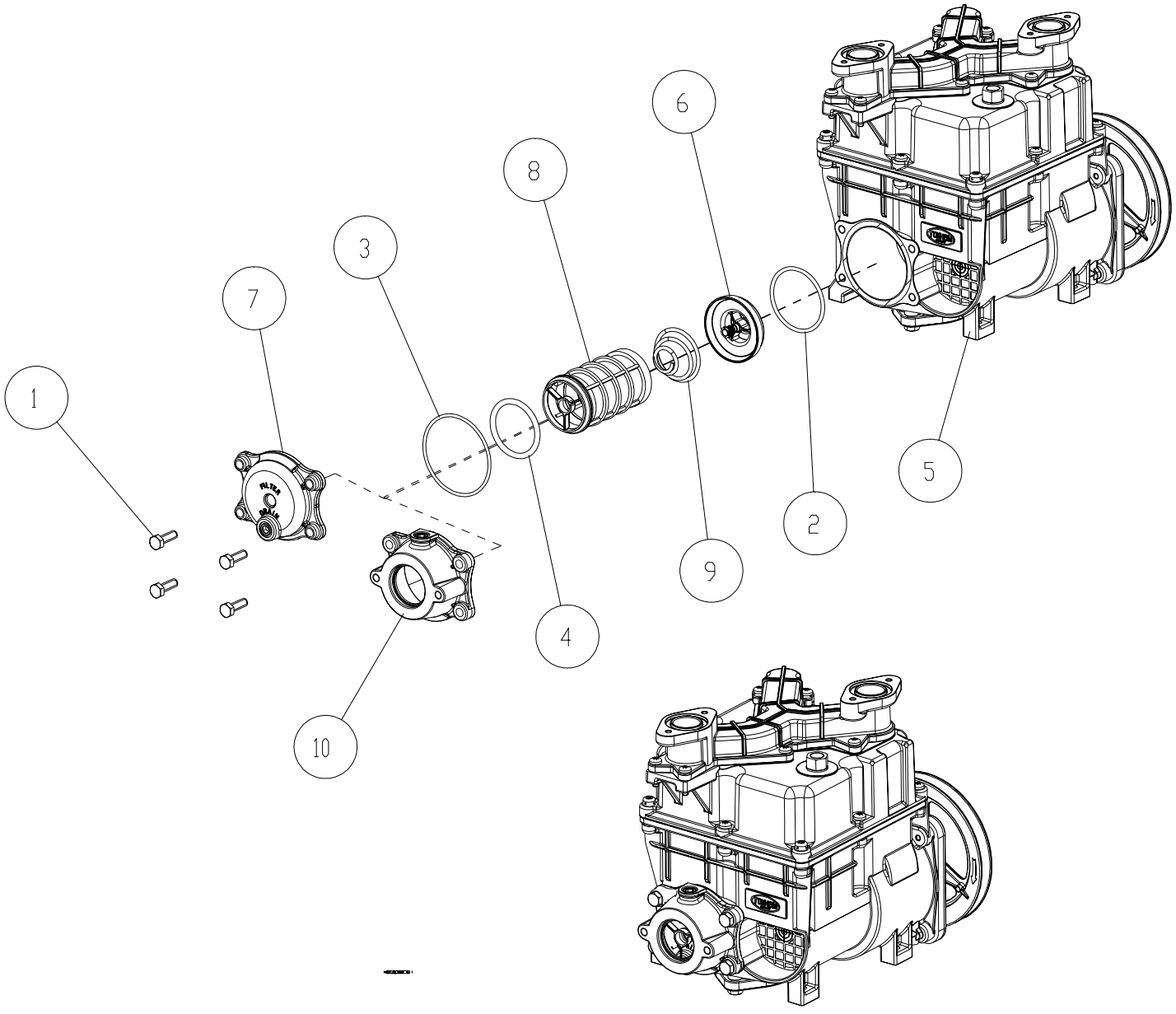


NOT AVAILABLE

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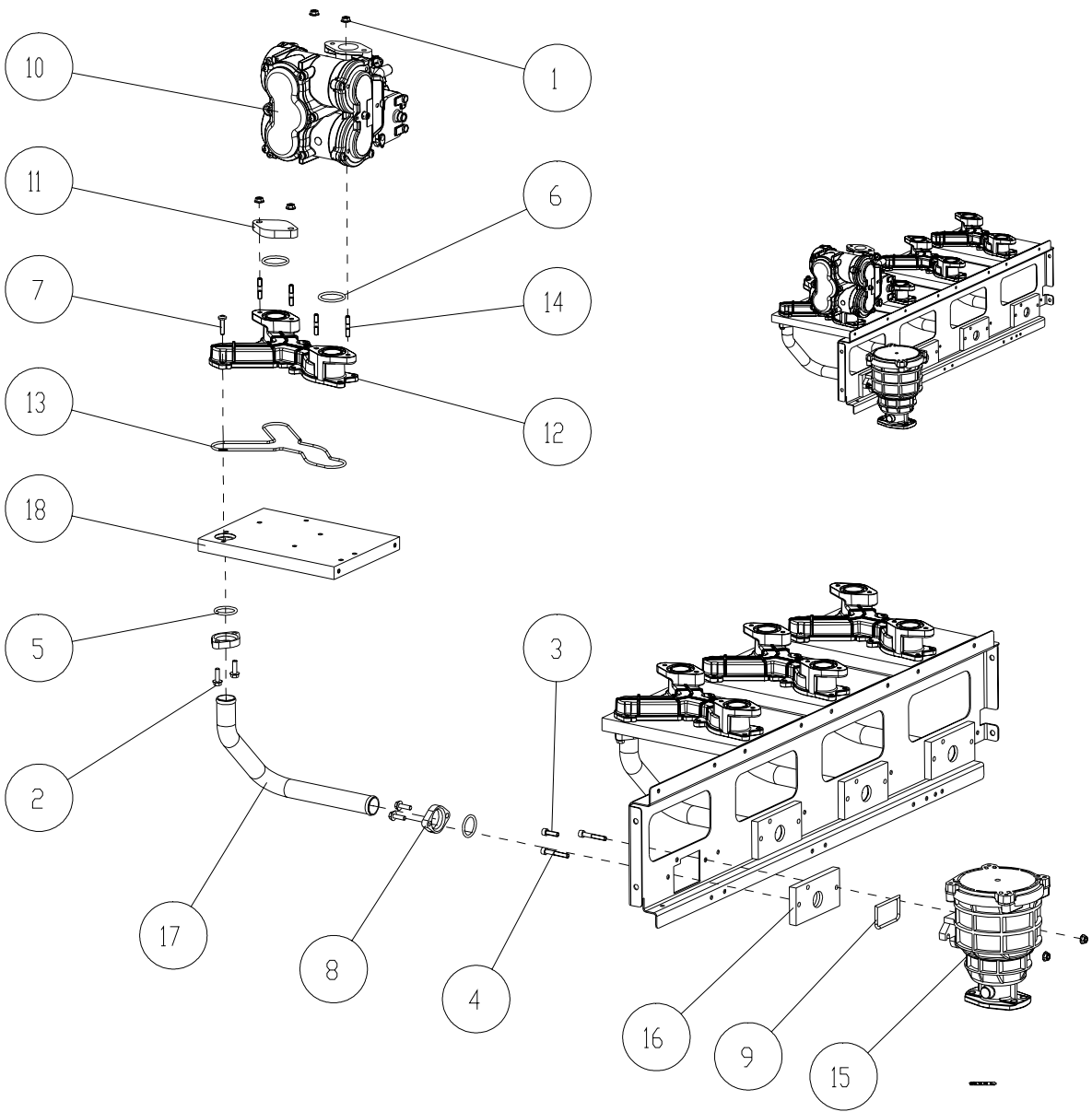
INTERNAL CAPACITORS

	RAEL MOTORS		ELNOR MOTORS	
	50 Hz	60 Hz	1kW	1.5kW
<b>SPARE CENTRIFUGAL SWITCH CONTACTS</b>	907317-004	907317-004	907317-001	907317-001
<b>SPARE CENTRIFUGAL SWITCH ACTUATOR</b>	907317-005	907317-006	907317-002	907317-003



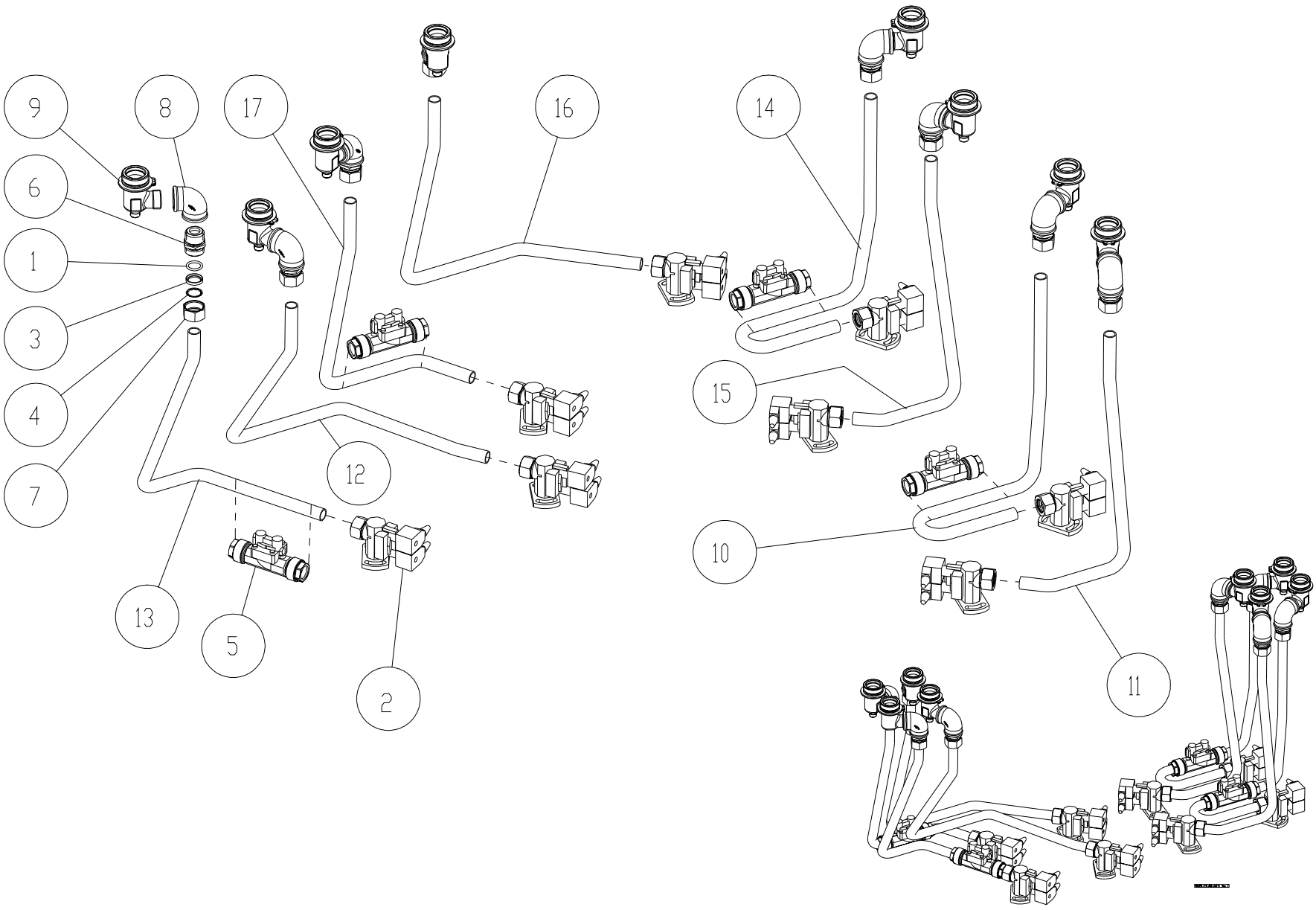
#### 4.4 EPZ Pump Internal Filter

Item No	Description	Désignation Français	Part No	Comments
1	Screw HH M8x25	Vis H M8x25	900015-012	
2	O-Ring 59.92x3.53	Joint Torique 59.92x3.53	900050-006	
3	O-Ring 78,00x3,00	Joint Torique 78,00x3,00	900050-008	
4	O-ring 50,17x5,33	Joint Torique 50,17x5,33	900050-031	
5	Body EPZ 75 Assembly	Corps EPZ 75 Equipé	-	Refer to separate drawing
6	Check Valve Assembly	Clapet A/R de Filtre	904170	
7	Filter cover with Screw	Couvercle Filtre avec Vis	906325	Bottom connection only
8	Filter 100 microns Sst Filter 80 microns Nylon	Filtre 100 microns Inox Filtre 80 microns Nylon	906500 904176	Standard Option
9	Spring Filter Hose Inlet	Ressort Filtre Entree Flexible	906545	
10	Flange Internal Filter Assy	Bride Filtre Interne Asm	907032	Flexible connection only



## 4.5 Submerged Hydraulics

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
3	Screw HSHC M6x20	Vis CHC M6x20	900017-006	
4	Screw HSHC M6x40	Vis CHC M6x40	900017-009	
5	O-Ring 27,80x3,60	Joint Torique 27,80x3,60	900050-016	
6	O-Ring 34,10x3,60	Joint Torique 34,10x3,60	900050-019	
7	Screw Torx Thr Form BH M6x25	Vis Torx Auto FTCBL Tril M6x25	900053-004	
8	Flange - Oval D28	Bride Ovale D28	900475	
9	O-ring Filterbox	Joint de Filtre	900635	
10	Meter TM80 in Line	Meter TM80 en Ligne	908178	
11	Flange Oval without Holes	Bride Ovale sans Trous	908456	Single-sided option only
12	Collector	Collecteur SM80	908526	
13	O-ring Collector Stack EPZ	Joint Collecteur EPZ Stack	908527	
14	Stub Threaded specific M6x32	Goujon Special M6x32	909271	
15	Filterbox	Boite de Filtre	-	Refer to Filter assembly
16	Adaptor Submerge Filterbox	Adapteur Immergee Filtreboite	941340	
17	Pipe Filter to Meters Submerged	Tube Filtre vers mes Immergee	942433	
18	Adaptor Block	Bloc d'Adapteur	942461	





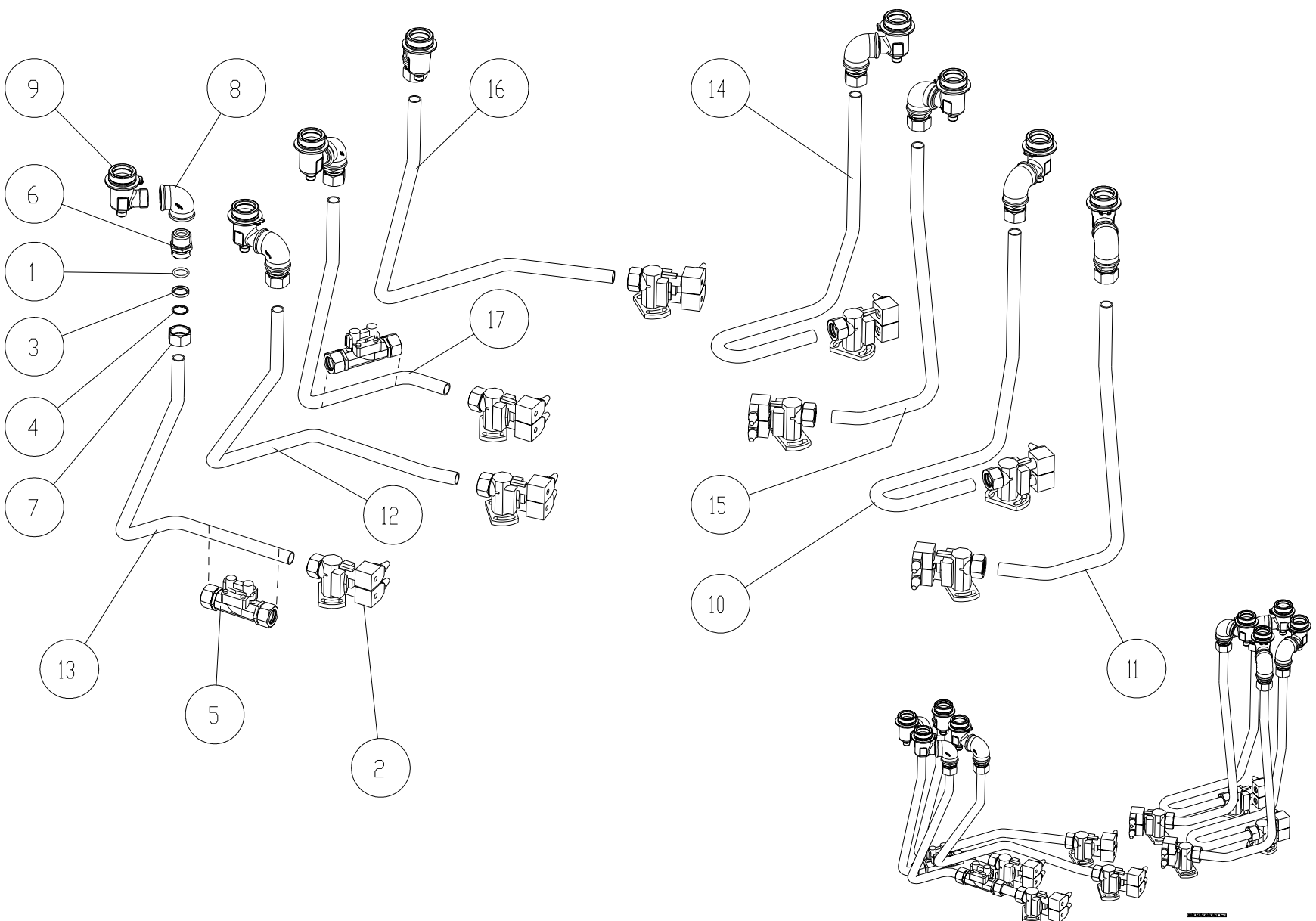
## 4.6 Meter to Column Pipes Assembly

### 4.6.1 STANDARD & HIGH SPEED MODELS (EPZ HYDRAULIC STACK)

MODELS 1-2, 2-2, 2-4, 3-3, 3-6, 4-4, 4-8, HS 1-2, HS 1-1, HS 2-2, HS 2-4, HS 3-3, HS 3-6, HS 4-4, HS 4-8

Item No	Description	Désignation Français	Part No	Comments
1	O-Ring 21,82x3,53	Joint Torique 21,82x3,53	900050-001	
2	Valve/Piston	Soupape/Piston	-	Refer to Valve & Fittings Drawing
3	Pressure Ring	Bague De Pression	900523	
4	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
5	Piston Valve 3/4" Drilled	Soupape 3/4" foré	-	Refer to Valve & Fittings Drawing
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
8	Elbow 1" F - 1"F galv.	Coude 1" F - 1"F galv.	902084-002	
9	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
10	Pipe Meter to Column A1	Tube Ma - Colonne A1	940661	
11	Pipe Meter to Column A2	Tube Ma - Colonne A2	940662	
12	Pipe Meter to Column A3	Tube Ma - Colonne A3	940663	
13	Pipe Meter to Column A4	Tube Ma - Colonne A4	940664	
14	Pipe Meter to Column B1	Tube Ma - Colonne B1	940665	
15	Pipe Meter to Column B2	Tube Ma - Colonne B2	940666	
16	Pipe Meter to Column B3	Tube Ma - Colonne B3	940667	
17	Pipe Meter to Column B4	Tube Ma - Colonne B4	940668	

**PLEASE NOTE : EARLY ORDERS OF THESE MODELS MAY BE FITTED WITH PAS V3 PUMPING UNITS, PLEASE REFER TO SPECIFIC PAS V3 PIPEWORK DRAWING ON THE FOLLOWING PAGE**



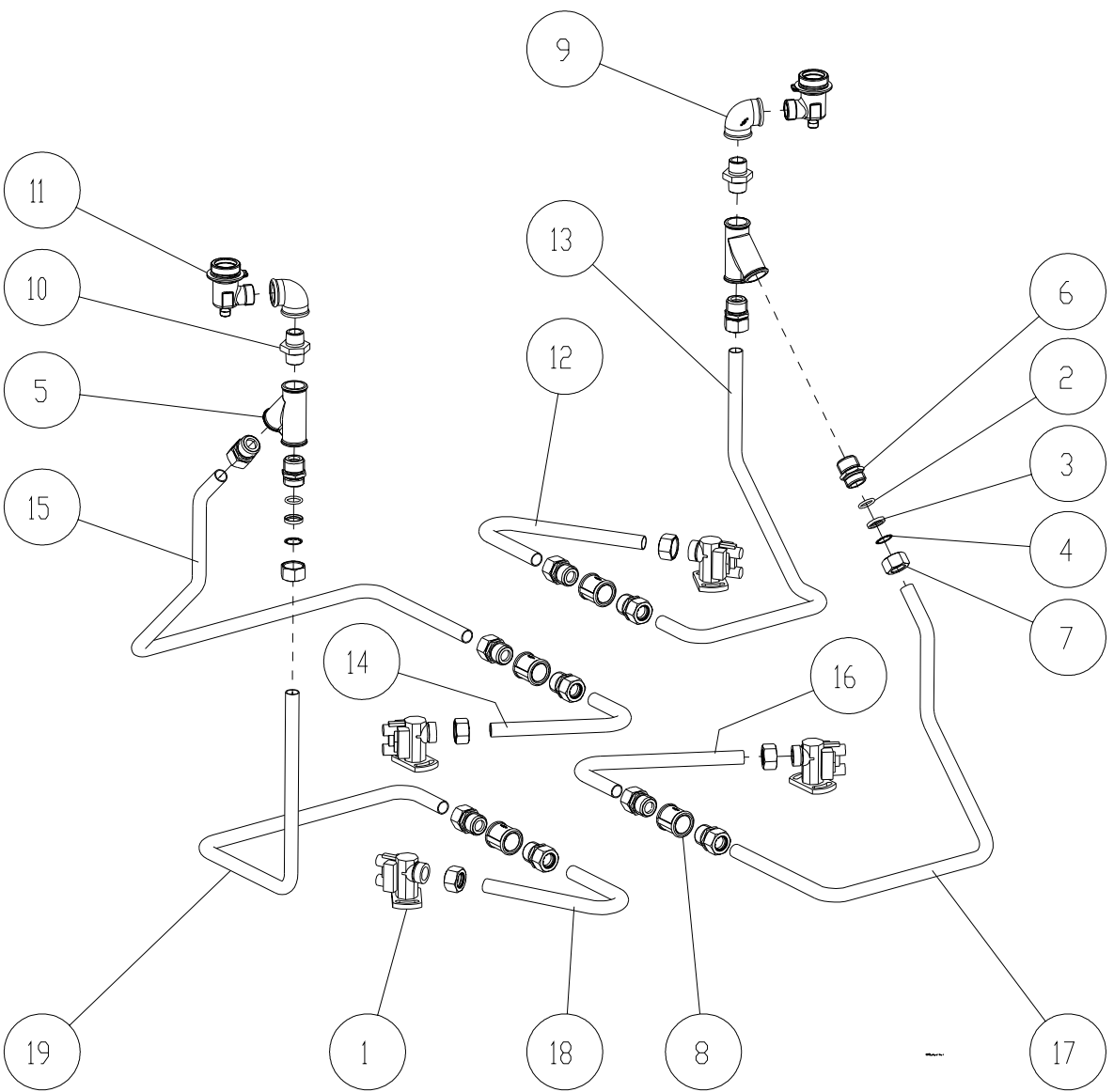
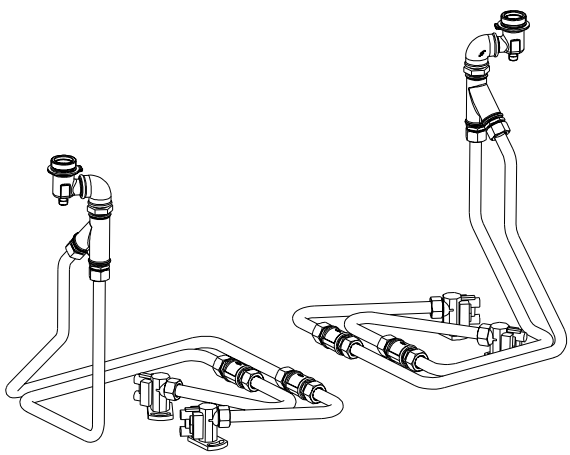
Issue B

## 4.6.2 STANDARD &amp; HIGH SPEED MODELS (PAS V3 HYDRAULIC STACK)

MODELS 1-2, 2-2, 2-4, 3-3, 3-6, 4-4, 4-8, HS 1-2, HS 1-1, HS 2-2, HS 2-4, HS 3-3, HS 3-6, HS 4-4, HS 4-8

Item No	Description	Désignation Français	Part No	Comments
1	O-Ring 21,82x3,53	Joint Torique 21,82x3,53	900050-001	
2	Valve/Piston	Soupape/Piston	-	Refer to Valve & Fittings Drawing
3	Pressure Ring	Bague De Pression	900523	
4	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
5	Piston Valve 3/4" Drilled	Soupape 3/4" foré	-	Refer to Valve & Fittings Drawing
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
8	Elbow 1" F - 1"F Galv.	Coude 1" F - 1"F Galv.	902084-002	
9	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
10	Pipe Meter to Column A1	Tube Ma - Colonne A1	941072	
11	Pipe Meter to Column A2	Tube Ma - Colonne A2	941073	
12	Pipe Meter to Column A3	Tube Ma - Colonne A3	941074	
13	Pipe Meter to Column A4	Tube Ma - Colonne A4	941075	
14	Pipe Meter to Column B1	Tube Ma - Colonne B1	941076	
15	Pipe Meter to Column B2	Tube Ma - Colonne B2	941077	
16	Pipe Meter to Column B3	Tube Ma - Colonne B3	941078	
17	Pipe Meter to Column B4	Tube Ma - Colonne B4	941079	

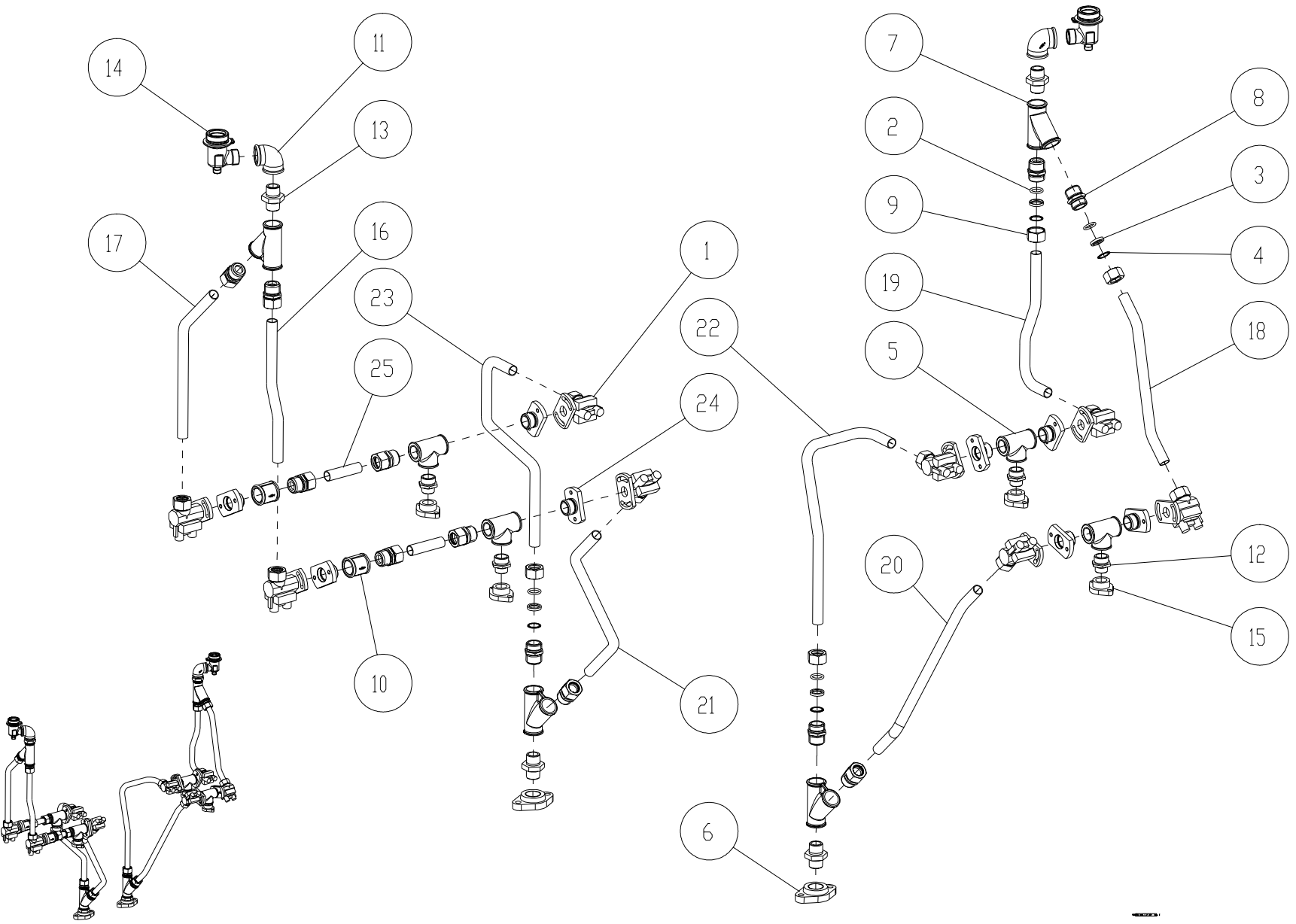
**PLEASE NOTE : THIS PIPEWORK ARRANGEMENT IS ONLY APPLICABLE TO EARLY ORDERS FITTED WITH PAS V3 HYDRAULIC STACKS FOR STANDARD SPEED AND HIGH SPEED MODELS**



Issue B

4.6.3 VERY HIGH SPEED & TRUE HIGH SPEED MODELS  
 MODELS VHS 1-1, VHS 1-2, THS 1-2

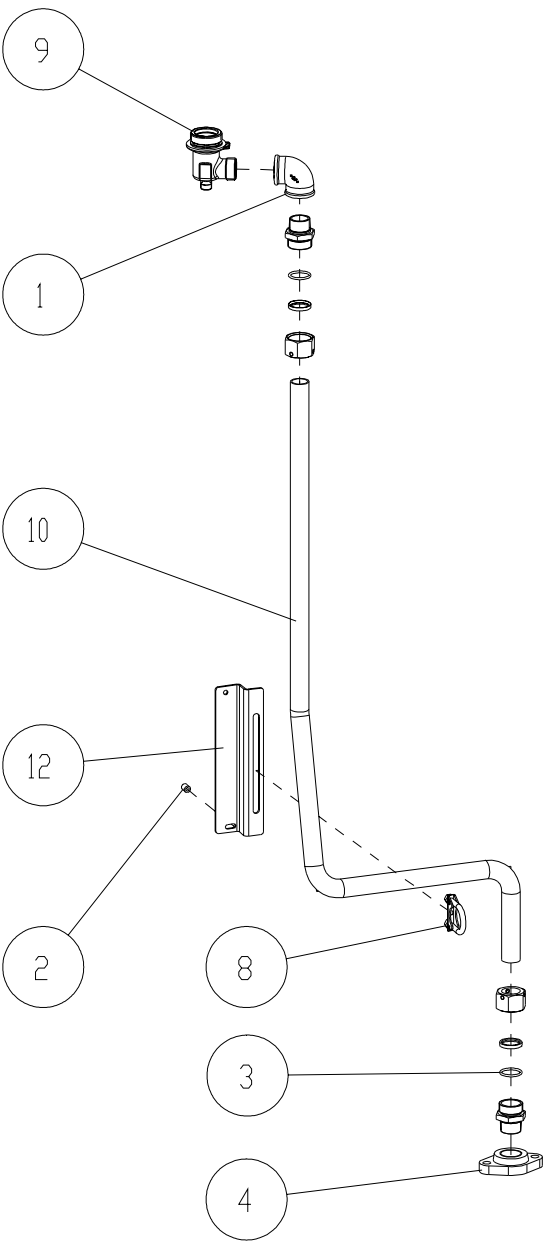
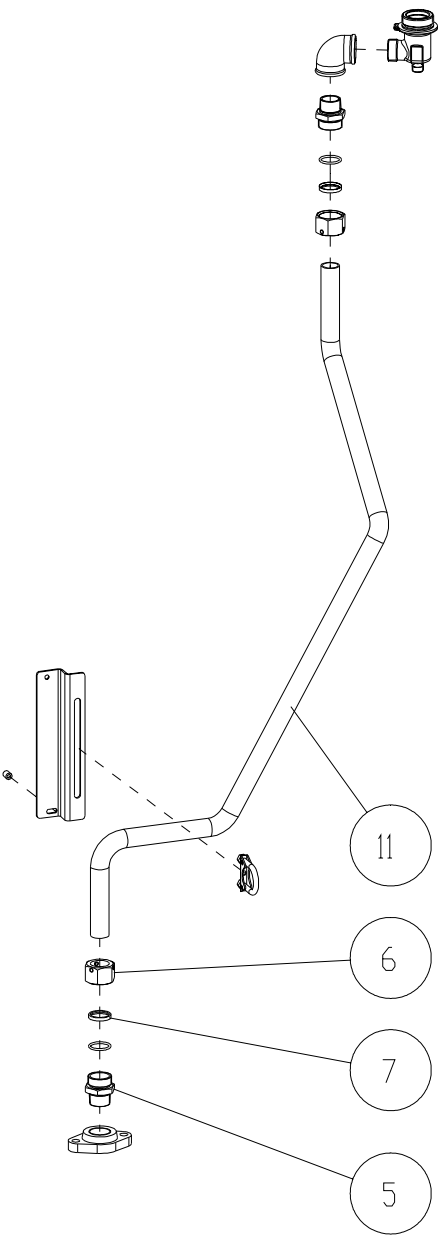
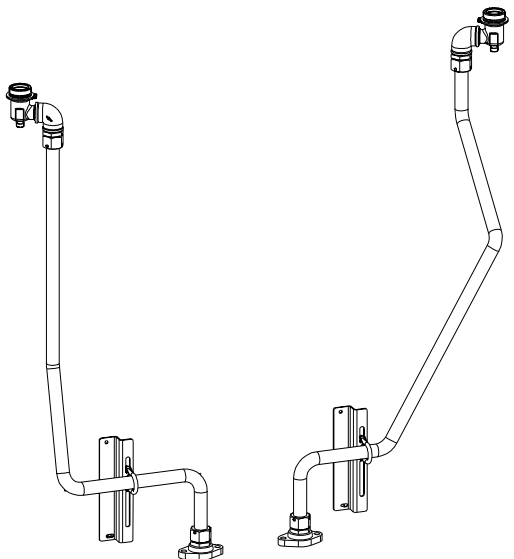
Item No	Description	Désignation Français	Part No	Comments
1	Piston Valve & Flange 3/4"	Soupape & Bride 3/4"	5536000023	
2	O-ring 21,30x3,60	Joint Torique 21,30x3,60 (R17)	900050-034	
3	Pressure Ring	Bague De Pression	900523	
4	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
5	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
8	Manchon G1"	Manchon G1"	901867-001	
9	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
10	Nipple M-M 1"	Mmmelon M-M 1"	906191	
11	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
12	Pipe VHS Meter to Socket A1	Tube VHS A1	941080	
13	Pipe VHS Socket to Column A1	Tube VHS A1	941081	
14	Pipe VHS Meter to Socket A4	Tube VHS A4	941082	
15	Pipe VHS Socket to Column A4	Tube VHS A4	941083	
16	Pipe VHS Meter to Socket B1	Tube VHS B1	941084	
17	Pipe VHS Socket to Column B1	Tube VHS B1	941085	
18	Pipe VHS Meter to Socket B4	Tube VHS B4	941086	
19	Pipe VHS Socket to Column B4	Tube VHS B4	941087	



Issue B

4.6.4 VERY HIGH SPEED MASTER MODELS  
MODELS VHSM 1-1, VHSM 1-2

Item No	Description	Désignation Français	Part No	Comments
1	Piston Valve & Flange 3/4"	Piston Valve & Bride 3/4"	5536000023	
2	O-ring 21,30x3,60	Joint Torique 21,30x3,60 (R17)	900050-034	
3	Pressure Ring	Bague De Pression	900523	
4	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
5	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
6	Flange 1" 78mm	Bride 1" 78mm	901320-001	
7	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
8	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
9	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
10	Manchon G1"	Manchon G1"	901867-001	
11	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
12	Nipple M-M 1" to 3/4"	Mamelon M-M 1" à 3/4"	906178	
13	Nipple M-M 1"	Mmmelon M-M 1"	906191	
14	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
15	Flange, Threaded Exit SM100	Bride Sortie SM100	9158017260	
16	Pipe VHS meter to column a4	Tub VHS a4	941088	
17	Pipe VHS meter to column b4	Tube VHS b4	941089	
18	Pipe VHS meter to column a1	Tube VHS a1	941090	
19	Pipe VHS meter to column b1	Tube VHS b1	941091	
20	Pipe VHS sat a1	Tube VHS sat a1	941092	
21	Pipe VHS sat a4	Tube VHS sat a4	941093	
22	Pipe VHS sat b1	Tube VHS sat b1	941094	
23	Pipe VHS sat b4	Tube VHS sat b4	941095	
24	Flange Adaptor G1"-Pipe Ø22	Bride Adaptation G1"-tube Ø22	941096	
25	Pipe VHS- Valve Extension	Tube VHS - Prolongation Valve	941097	

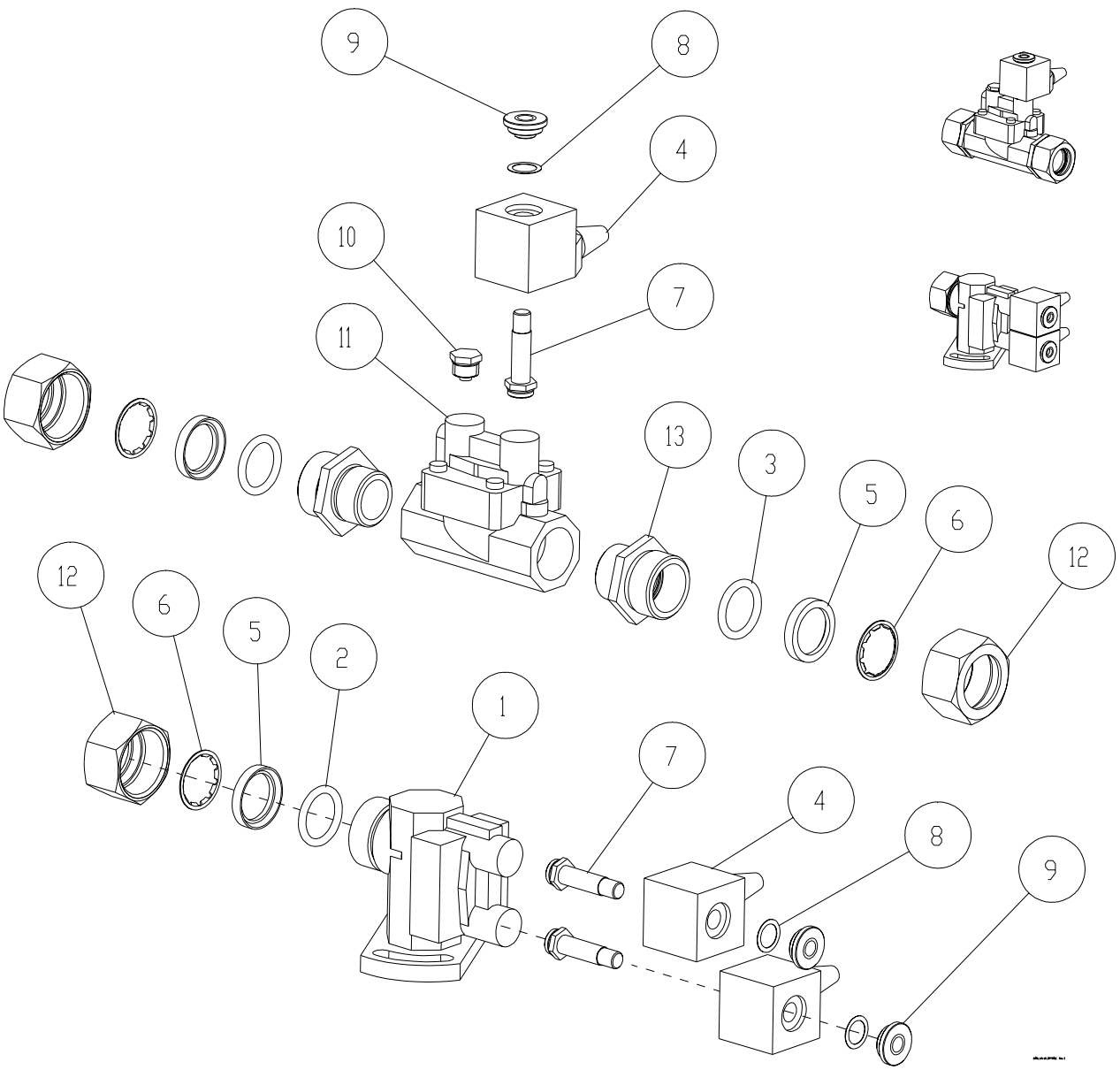


Issue C



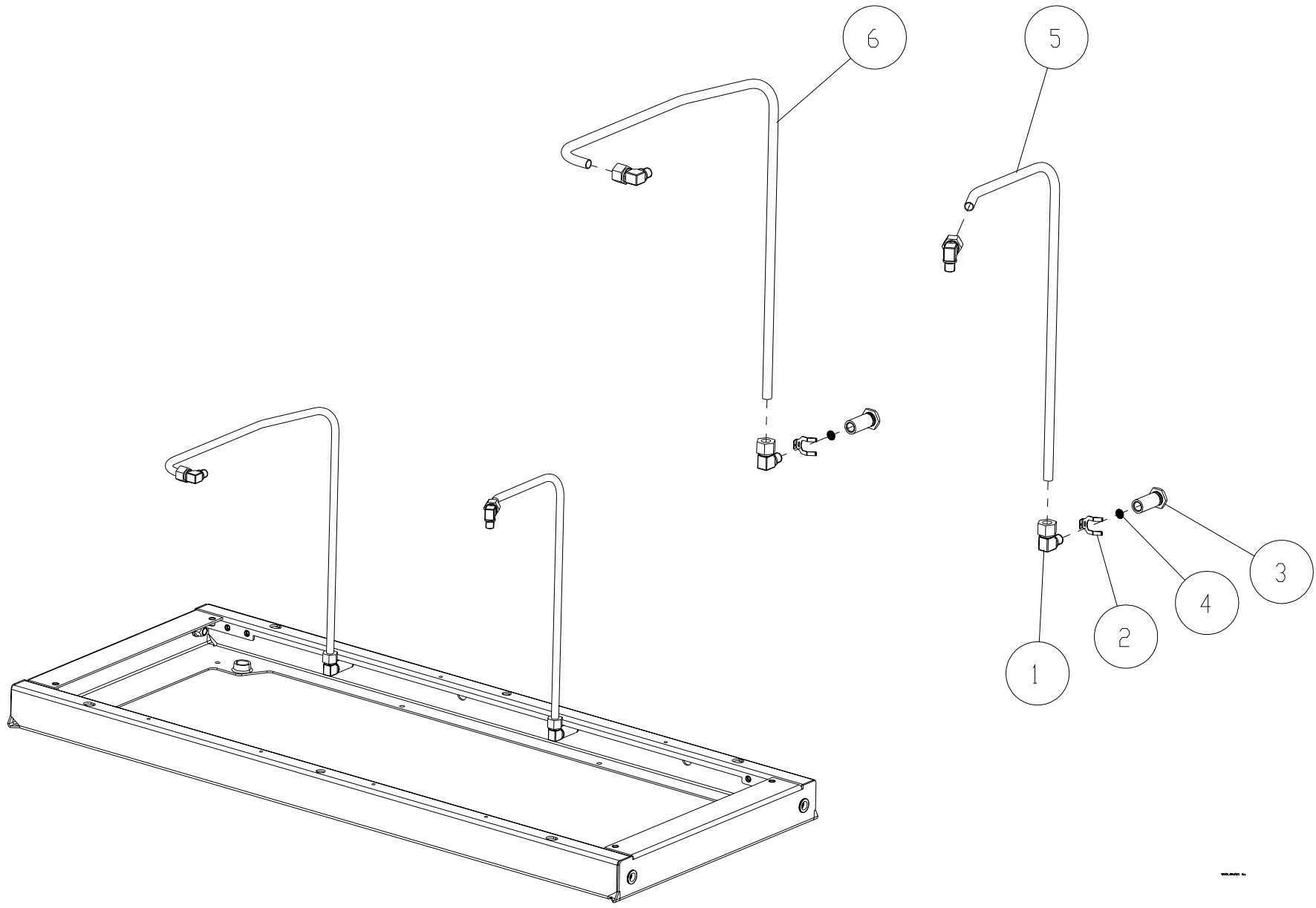
## 4.6.5 SATELLITE MODEL

Item No	Description	Désignation Français	Part No	Comments
1	Spacer 5.5x10x12	Entretoise Cyl 5.5x10x12	900024-008	
2	O-ring 28,00x3,00	Joint Torique 28,00x3,00	900050-032	
3	Flange 1" 78mm	Bride 1" 78mm	901320-001	
4	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
5	Pressure Nut 28mm pipe	Ecrou de Pression Tube 28mm	901770	
6	Pressure Ring 28mm	Bague de Pression 28mm	901771	
7	Assy Elbow Q450T	Asm Coude Q450T	902084-002	
8	32mm Clamp	Bride de 32mm	904256	
9	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
10	Pipe VHS Sat Left	Tube VHS Sat Gauche	942612	
11	Pipe VHS Sat Right	Tube VHS Sat Droite	942613	
12	Bracket Sat Pipes	Support Sat Tube	942614	



#### 4.7 Valve & Fittings Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Piston Valve and Flange 3/4"	Soupape & Bride 3/4"	5536000023	
2	O-Ring 21,82x3,53	Joint Torique 21,82x3,53	900050-001	
3	O-ring 21,30x3,60	Joint Torique 21,30x3,60 (R17)	900050-034	
4	COIL 24V EEx m II T4 Fuse	Bobine 24V EEx m II T4 Fuse	900082	
5	Pressure Ring	Bague De Pression	900523	
6	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
7	Plungerhouse + Plunger	Plongeur Complete	900723	
8	Spring for Plunger	Ressort de Plongeur	900724	
9	Nut for Plunger	Ecrou par Plongeur	900725	
10	Stop+Seal Inline Valve	Bouchon Soupape	900726	
11	Piston Valve 3/4" Drilled	Soupape 3/4" Foré	900788	
12	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
13	Nipple M-M 1" to 3/4"	Mamelon M-M 1" à 3/4"	906178	



Issue B

**4.8 Air Vent Pipe Assembly**

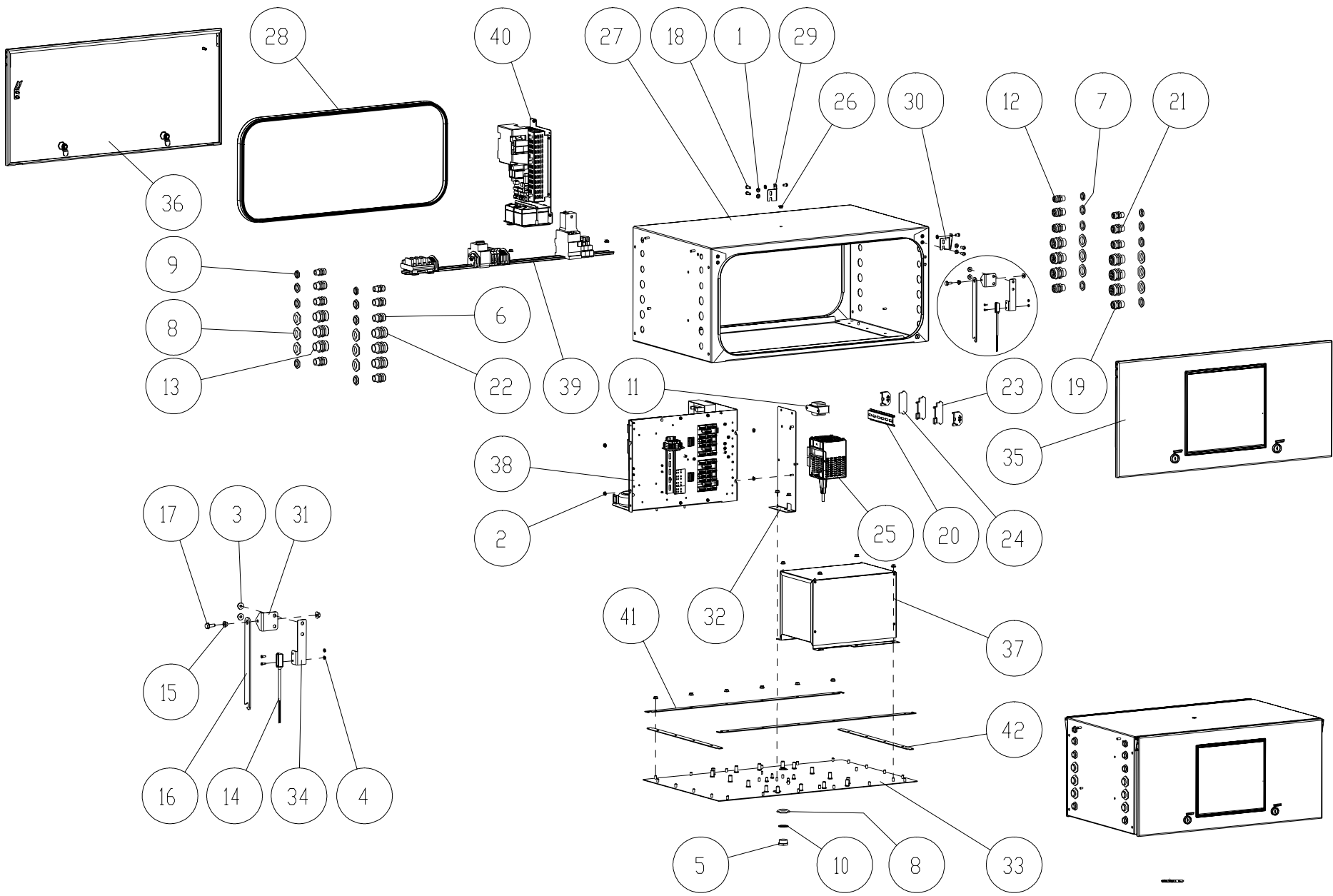
Item No	Description	Désignation Français	Part No	Comments
1	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	900031-001	
2	Clip H/SHOE	Fixation H/SHOE	900057	
3	Vent Outlet	Mise en Atmosphere	901724	
4	Gauze - Flame Arrestor	Grillage Pare Flamme	902358	
5	Pipe Air Vent EPZ	Tube Mise en Atmosphere EPZ	940352	
6	Pipe Air Vent PAS V3	Tube Mise en Atmosphere PAS V3	940353	

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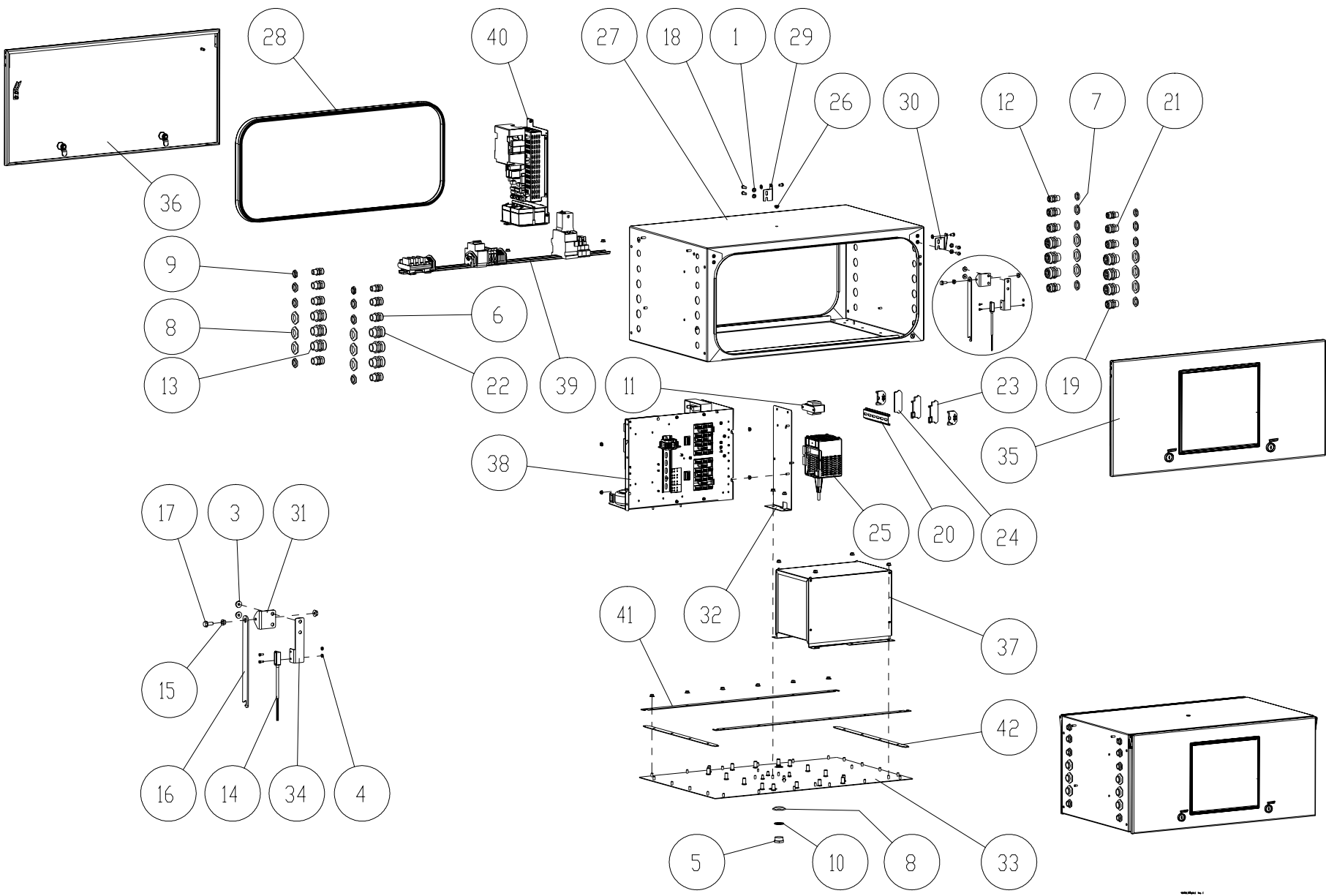


## 5 DISPENSER ELECTRONICS

### 5.1 Calculator Head Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Plug M25 x 1,5 EEXE/IP66	Bouchon PG M25 x 1,5 EEXE/IP66	900044-002	
6	Gland M20x1,5 Eexe II 8-13mm	PE M20x1,5 Eexe II 8-13mm	900064-001	
7	Nut Hex M20 x 1,5 (Bartec)	Ecrou Hex M20 x 1,5 (Bartec)	900088-001	
8	Nut Hex M25 x 1,5 (Bartec)	Ecrou Hex M25 x 1,5 (Bartec)	900088-002	
9	Nut Hex M16 x 1,5 (Bartec)	Ecrou Hex M16 x 1,5 (Bartec)	900088-005	
10	Washer Sealing 25x30x1,5	Rondelle Etanche 25x30x1,5	900101-002	
11	Speaker 8 Ohm 10W MM	Haut Parleur 8 Ohm 10W MM	900302	
12	Gland M16x1,5 Eexell 5-8mm	PE M16x1,5 Eexell/ 5-8mm	900362-001	
13	Gland M25x1,5 IP66 4x 6mm	PE M25x1,5 IP66 4x 6mm	900363-001	
14	Magnetic Proximity Switch	Contact MagnetiQ.de Proximité	900387-001	
15	Bearing 6x9x6	Coussinet 6x9x6	900497-001	
16	Stay Arm Calc Door Q500T	Bras Arret Porte Calc Q500T	900578	
17	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
18	Screw HSB M6x16	Vis M6x16	900795-002	
19	Gland M20x1,5 Eexe II/IP66-68 1x 5-9mm	PE M20x1,5 Eexe II 5-9mm Bleu	901404-001	
20	Rail TS 35 I=180	Rail de Bornier TS 35 I=180	901432-002	
21	Gland M20x1,5 IP66 2x5mm	PE M20x1,5 IP66 2x 5mm	901479-001	
22	Gland M25x1,5 IP66 3x 7mm	PE M25x1,5 IP66 3x 7mm	901488-001	
23	Terminal Clamp 2x2 way	Terminal Clamp 2x2 way	901714-001	
24	Separation Plate (for termial 2x2 way)	Separation Plate (for termial 2x2 way)	901855-001	
25	OPT Heater Assembly	Chauffage OPT Assemblé	903593	

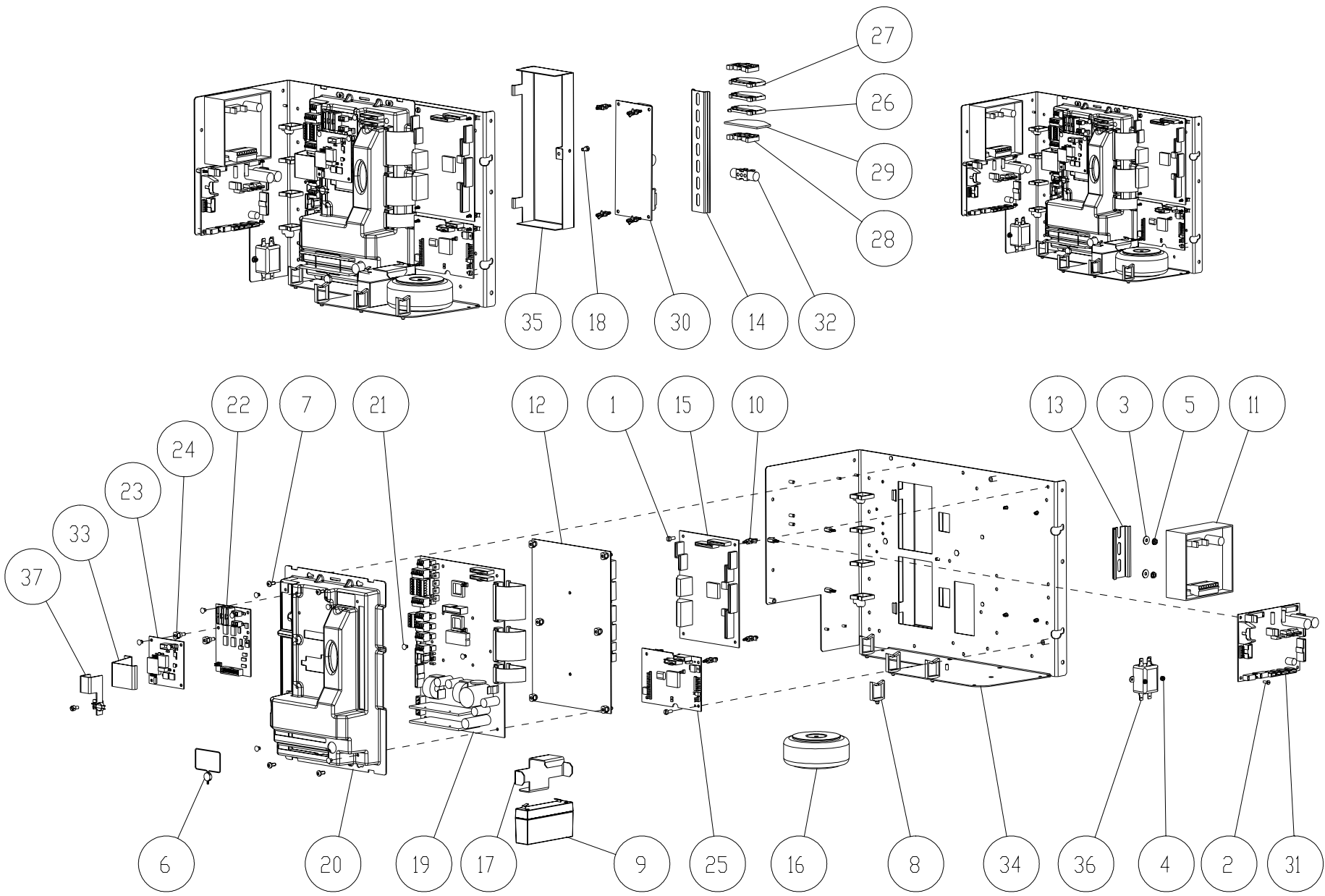
(Cont.)



Issue A

## 5.1 Calculator Head Assembly (Cont.)

Item No	Description	Désignation Français	Part No	Comments
26	Gore Supra Vent	Gore Supra Vent	906628	
27	Assy Calculator Housing	Asm Couvercle de Calc	908689	
28	Gasket Rain Gutter	Gouttiere De Pluie Garniture	908786	
29	Assy Door Hinge L/H	Asm Charnière De Porte Gauche	908885	
30	Assy Door Hinge RH	Asm Charnière de Porte Droite	908886	
31	Bracket Door Stay	Support de Bras de Porte	908887	
32	Assy Bracket Centreplate Support	Asm Support Plat de Centre	909049	
33	Assy Base Calculator Housing IQ	Asm Basse Couvercle de Calc IQ	909197	
34	Bracket Magnet Switch	Support Commutateur D'aimant	909305	
35	Assy LCD Door (Std, Keypad, Blind)	Asm Portillon LCD (Std, Clavier, Aveugle)	-	Refer to separate drawing
36	Assy Electronic Door Vidium LCD	Asm Portillon Elec Vidium LCD	-	Refer to separate drawing
37	Capacitor Box Assy	Boîte De Condensateur Asm	-	Refer to separate drawing
38	Centreplate Assy	Plat de Centre Asm	-	Refer to separate drawing
39	Mains Rail Assy Q450T	Rail De Forces Asm Q450T	-	Refer to separate drawing
40	OPT Power Supply Assy	OPT Alimentation D'Énergie Asm	-	Refer to separate drawing
41	Seal - Head Long	Joint de Tête Long	940389	
42	Seal - Head Short	Joint de Tête Court	940390	

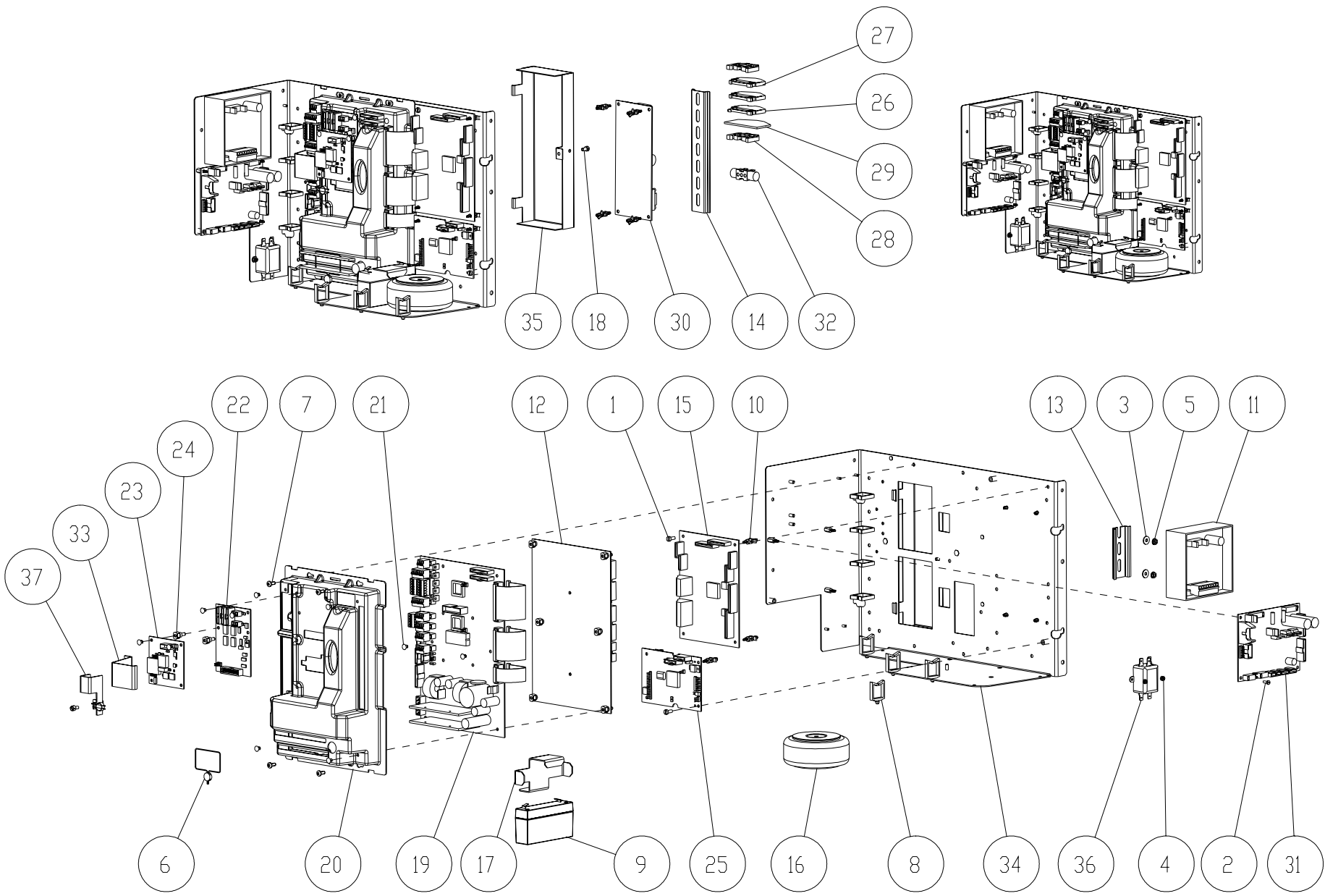


Issue A

## 5.2 Centre Plate Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x10	Vis CS M4x10	900007-001	
2	Screw SCH M3x8	Vis CS M3x8	900007-008	
3	Washer PI d2=3xd1 M4	Rondelle PI d2=3xd1 M4	900008-003	
4	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
5	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
6	Sealing Lead	Plomb à Pincer	900040	
7	Screw Torx Thr Form BH M4x10	Vis Torx AutoF TCBL Tril M4x10	900053-001	
8	Wire Clip Max Entas. 19	Fixation Câble Max Bundle 19	900058-001	
9	Battery 6V 1.2 Ah	Batterie 6V 1.2 Ah	900075-001	
10	Lock. Circuitboard Support 9,5mm	Tabl Circ Verrouil Sup. 9.5mm	900456-001	
11	ERZ Assy VFM Zener Barrier	ERZ assy VFM Zener barrier	901207	
12	WWC IO Board V5	WWC IO Board V5	901410	
13	Rail TS 35 L=75	Rail de Bornier TS35 L=75	901432-001	
14	Rail TS 35 I=180	Rail de Bornier TS 35 I=180	901432-002	
15	OCB (Option Controller Board)	Le Controleur d'option Monte	901538	
16	WWC Toroidal Transformer	WWC Toroidal Transformateur	901541	
17	Bracket Battery Calculator	Encadrer Calc de Batterie	901545	
18	M4x8 Sealing Screw 5-8 StZn	M4x8 Scellant VIS 5-8 StZn	901551-001	
19	WWC Mainboard V4	WWC Mainboard V4	901553	
20	WWC-251-Cover	WWC-251-Couvrir	901559	
21	4mm Nylon Rivet	4mm Nylon Rivet	901560-001	
22	PCB/WWC022/EIB/IO Ext Brd	PCB/WWC022/EIB/IO Ext Monte	901561	
23	WWC Comms Board Gen	WWC Communication Monter Gen	901562	
24	11mm Nylon Board Support	11mm Nylon Monter Soutien	901563-002	
25	User Access Module IR	Utilisateur Accede le Module IR Seulement	901565	
26	Clamps 3 ways 2.5Qmm Green/Yellow	Borne 3 Voies 2.5Qmm Vert/Jaune	901710-001	

(Cont.)



Issue A

## 5.2 Centre Plate Assembly (Cont.)

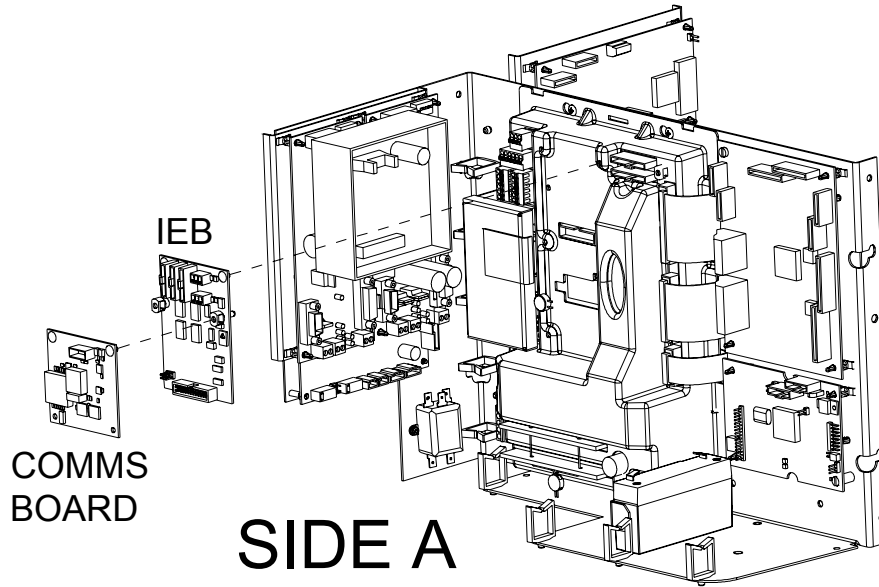
Item No	Description	Désignation Français	Part No	Comments
27	Clamps 4 ways 2.5QMM Grey	Borne 4 Voies 2.5 QMM Gris	901711-001	
28	Endstop Grey 35mm 249-116	Butée Arrêt Grise 35mm 249-116	901712-001	
29	Separation Plate OG, 280-318	Plaque Séparation OG, 280-318	901854-001	
30	EPSI Interface ZSR/B 2 IN 1	EPSI Interface ZSR/B 2 IN 1	902958	
31	VRC-3 ECVR Board	VRC-3 ECVR Board	904197	
32	Vibration Contact	Vibration Contact	905176	
33	Mainboard Pulser Seal	Mainboard Pulser Seal	906486	
34	WWC-T1 Centre Plate V1 Assy	WWC-T1 Centre Plaquer V1 Assy	906536	
35	Sealing Cover IO	Couvercle Plombage Carte I/E	906644	
36	Mains Filter	Filtre de Forces	906645	
37	Pulser Cover	Couvercle Emmetteur	9400025980	

## 5.2.1 CENTRE PLATE ALTERNATIVES

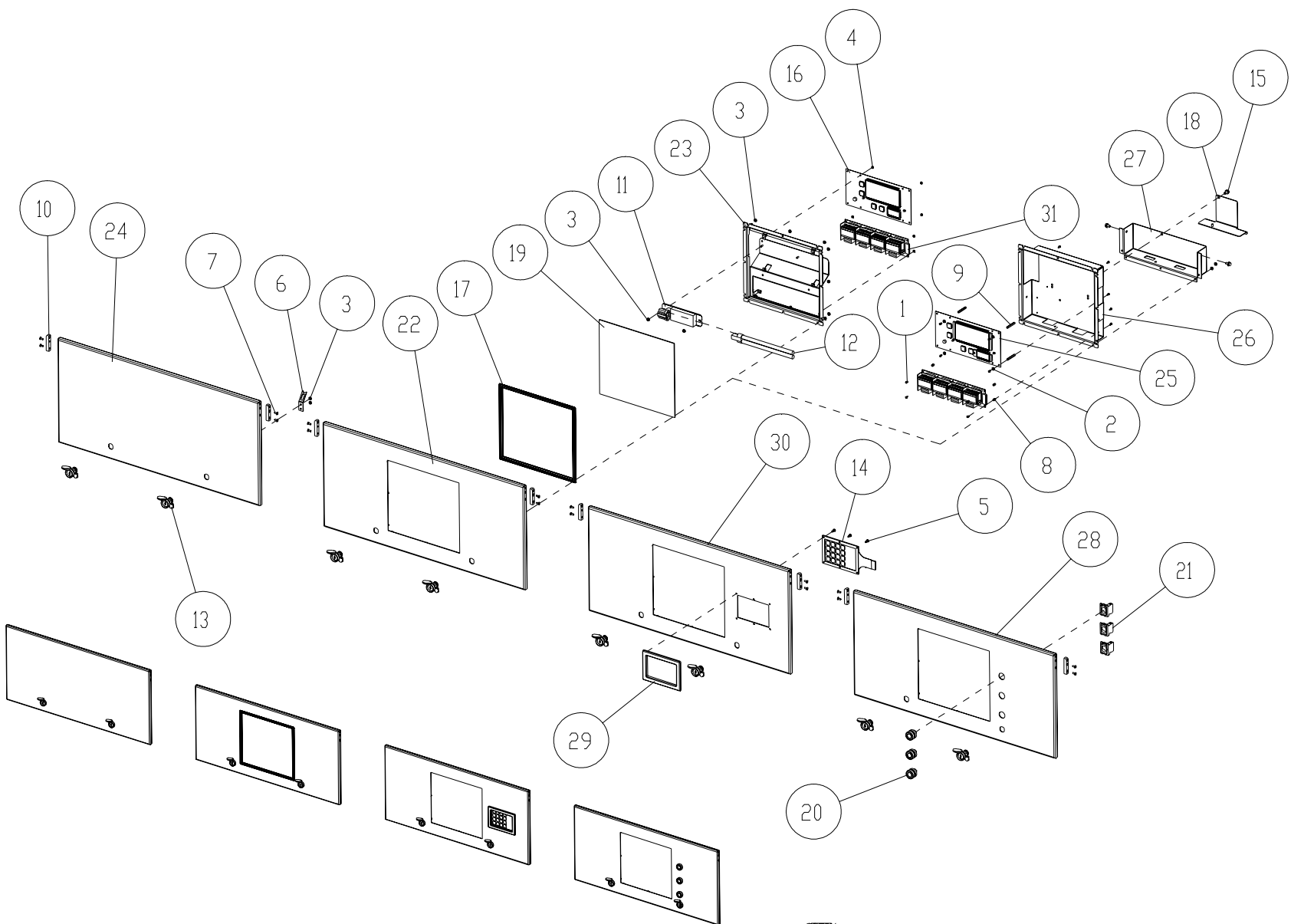
Description	Désignation Français	Part No	Comments
WWC CP Assy 3-4 Pr STD	WWC CP Asm 3-4 Pr STD	901434	
WWC CP Assy 1-2 Pr STD	WWC CP Asm 1-2 Pr STD	901435	
WWC CP Assy 1-2 Pr LPG	WWC CP Asm 3-4 Pr GPL	901437	
WWC CP Assy 3-4 Pr LPG	WWC CP Asm 1-2 Pr GPL	901439	
WWC CP Version 3	WWC CP Ver 3	901433	
WWC CP 3-4 Pr STD ZSR	WWC CP 3-4 Pr STD ZSR	902540	Germany only
WWC CP 3-4 Pr LPG ZSR	WWC CP 3-4 Pr GPL ZSR	902541	Germany only
WWC CP STD 1-2H ZSR	WWC CP STD 1-2H ZSR	902543	Germany only
WWC CP LPG 1-2H ZSR	WWC CP GPL 1-2H ZSR	902544	Germany only
WWC CP 3-4 Pr STD EPS	WWC CP 3-4 Pr STD EPS	902546	Germany only
WWC CP LPG EPS	WWC CP GPL EPS	902547	Germany only
WWC CP STD 1-2H EPS	WWC CP STD 1-2H EPS	902549	Germany only
WWC CP LPG 1-2H EPS	WWC CP GPL 1-2H EPS	902550	Germany only
WWC CP 3-4 Pr STD TOK	WWC CP 3-4 Pr STD TOK	902552	Germany only
WWC CP LPG TOK	WWC CP GPL TOK	902553	Germany only
WWC CP STD 1-2H TOK	WWC CP STD 1-2H TOK	902555	Germany only
WWC CP LPG 1-2H TOK	WWC CP GPL 1-2H TOK	902556	Germany only
WWC CP 3-4 Pr STD ER3	WWC CP 3-4 Pr STD ER3	902558	Germany only
WWC CP LPG ER3	WWC CP GPL ER3	902559	Germany only
WWC CP STD 1-2H ER3	WWC CP STD 1-2H ER3	902561	Germany only
WWC CP LPG 1-2H ER3	WWC CP GPL 1-2H ER3	902562	Germany only
WWC CP 3-4 Pr STD S&B	WWC CP 3-4 Pr STD S&B	902564	Germany only
WWC CP LPG S&B	WWC CP GPL S&B	902565	Germany only
WWC CP STD 1-2H S&B	WWC CP STD 1-2H S&B	902567	Germany only
WWC CP LPG 1-2H S&B	WWC CP GPL 1-2H S&B	902568	Germany only



5.2.2 COMMUNICATIONS SOFTWARE ALTERNATIVES



Description	Désignation Français	Part No	Comments
LON/IFSF	LON/IFSF	902254	
M32/M3000	M32/M3001	902255	
FM	FM	902256	
Kienzle/ER3/S&B/DOMS	Kienzle/ER3/S&B/DOMS	902257	
Autotank	Autotank	902258	
Dresser/EPS	Dresser/EPS	902259	
TOK	TOK	902260	
LOG	LOG	902261	
EIN/82D/Sofitam	EIN/82D/Sofitam	900329	

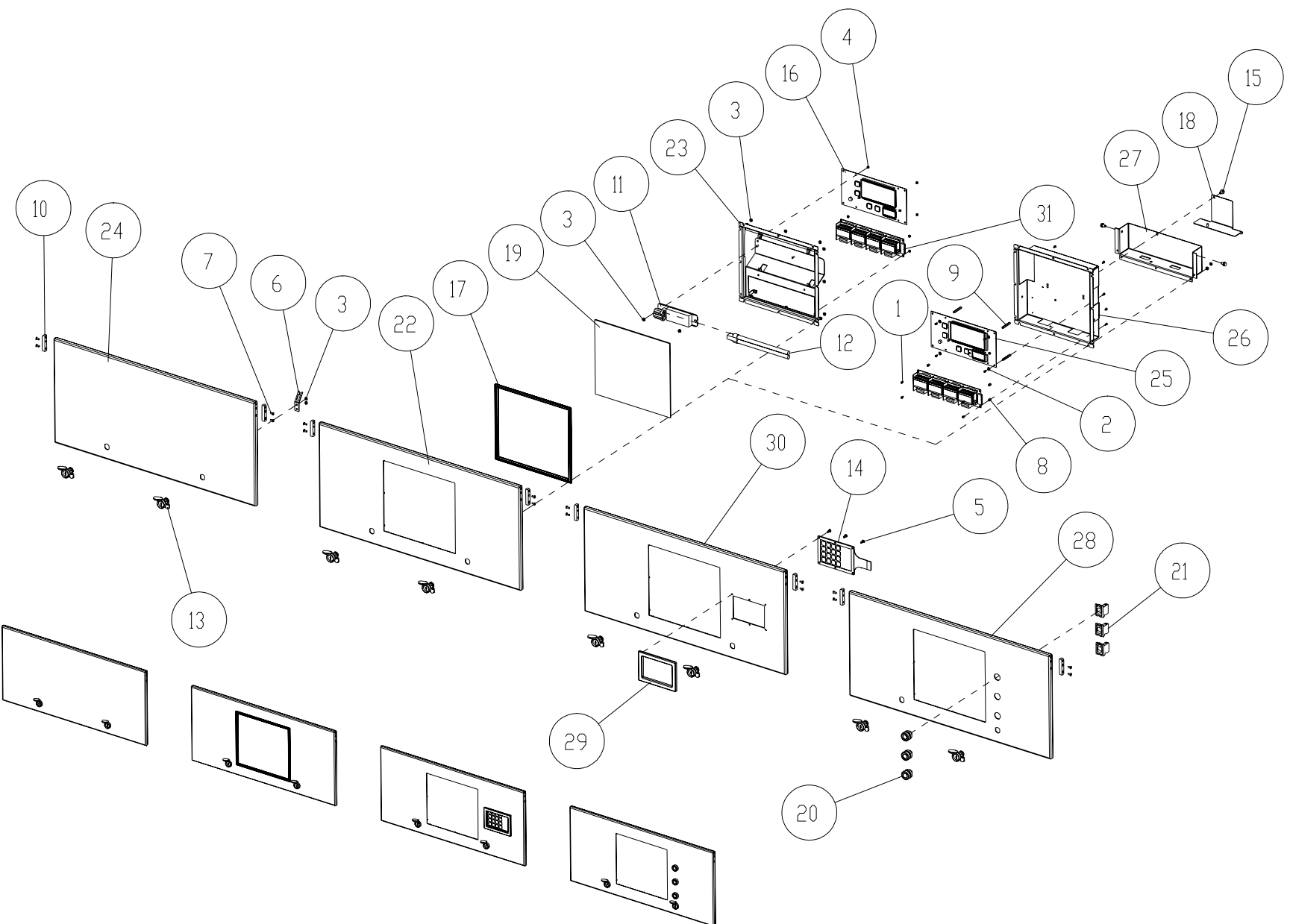


### 5.3 Door Assemblies

#### 5.3.1 LCD DISPLAY DOOR

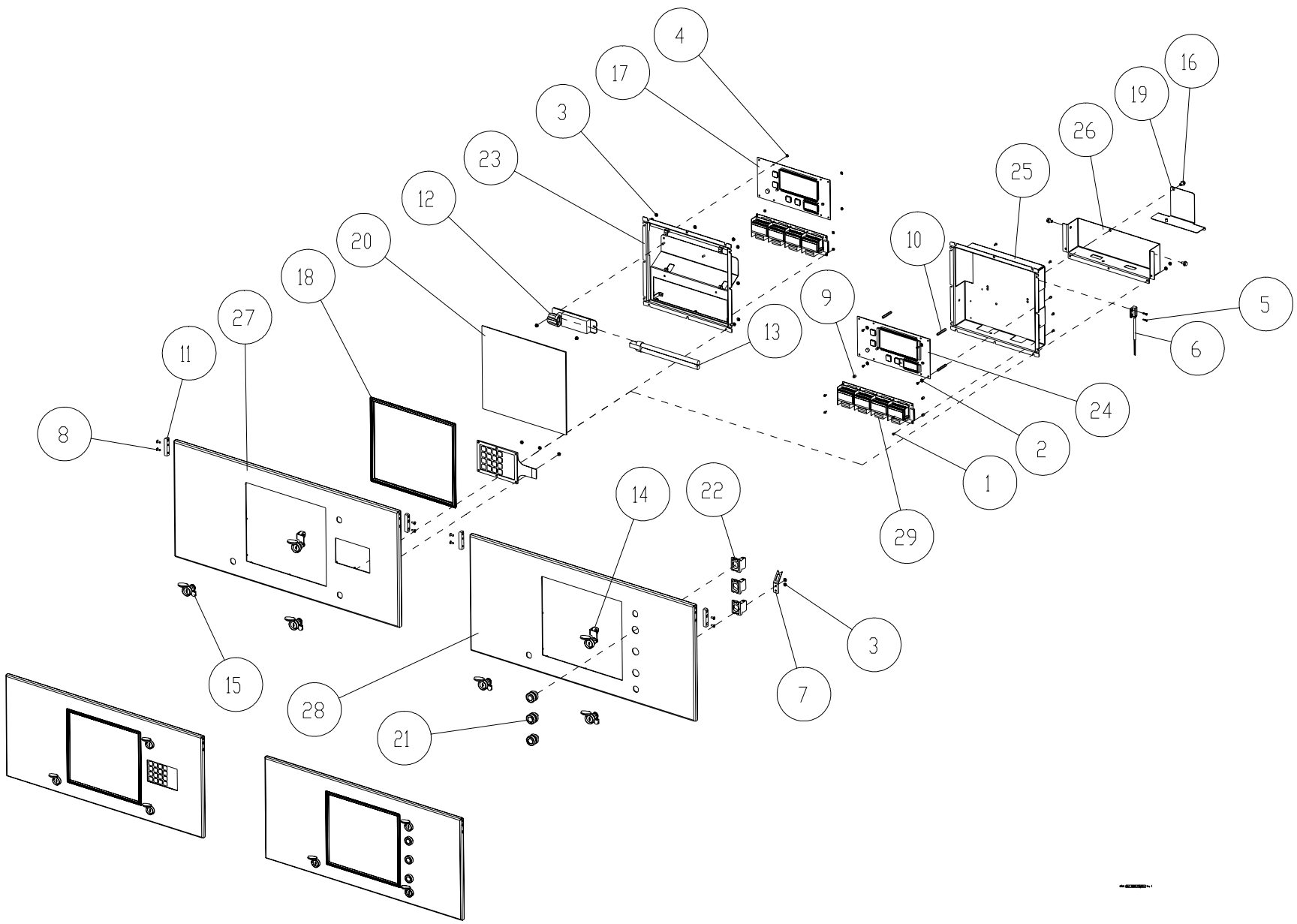
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x6	Vis CS M3x6	900007-017	
2	Washer PI M4	Rondelle PI M4	900008-009	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Screw CRRCH M4x10	Vis CBLZ M4x10	900052-003	
6	Stay Tab Calc Door Q500T	Fiche Arret Porte Calc	900577	
7	Screw HSC M4x10	Vis FHC M4x10	900643-002	
8	Spacer Thr Hex FF M3x8	Entretoise Hex FF M3x8	900711-010	
9	Spacer Thr Hex FF M3x40	Entretoise Hex FF M3x40	900711-022	
10	Hingebar Brass	Gond Porte Colonne	900733	
11	Ballast Socket Integrated	Ballast Douille Intégré	900738	
12	Lamp Fluorescent Oryx 11 W	Tube Flou Oryx 11W	900739	
13	Lock Assembly	Serrure Asm	-	Refer to Lock drawing
14	Membrane Keyboard 4X4	Clavier Prede 4X4	902470	
15	Screw HFHTF M6x10 Drilled	Vis Hex. Tar. M6x10 Percee	903812-001	
16	Cust Sales Display LCD	Afficheur Prix de Vente LCD	904788	
17	Calc Door Seal Moulded Q500T1	Joint Porte Calc Moule Q500T1	905874	
18	Cable Security Plate Assy	Plaque de Sécurité de Câble	907314	Option for Italy only
19	LCD Plexi Glass Q500T1	LCD Plexi Glace Q500T1	907508	
20	Button Black	Bouton Noir	908603-001	
21	Switch Body ZB5	Corps Contact ZB5	908604	
22	Assy Calculator Door Standard	Asm Porte Calculateur Regular	908693	
23	Assy Bracket LCD	Asm Support LCD	908696	
24	Electronic Door Blind Assy	Asm Portillon Elec Plaine	908934	
25	PCB/WWC025L4/CSD-LCD V4 APPL_F	Afficheur prix de Vente LCD	909692-004	Backlit LCD
26	Bracket LCD	Support LCD	941482	Backlit LCD

(CONT.)



## 5.3.1 LCD DISPLAY DOOR (CONT.)

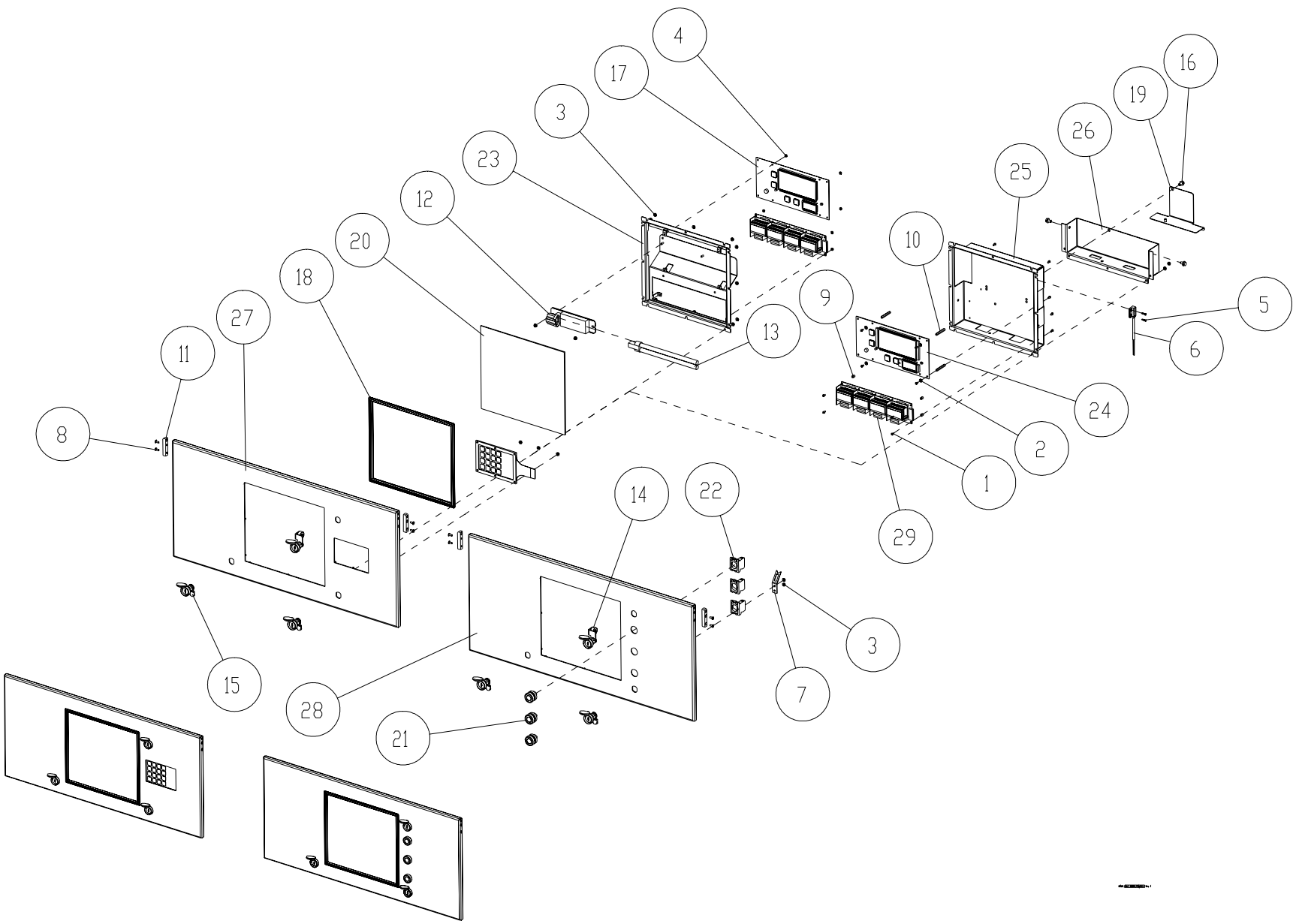
Item No	Description	Désignation Français	Part No	Comments
27	Security Cover Plate - Std Door	Couvercle de Sécurité - Porte Std	941483	Option for Italy only
28	Assy Calculator Door PB Standard	Asm Porte Calculateur Regular PB	941961	
29	Bezel Preset Keypad	Clavier prédé Couvercle	942247	
30	Assy Electronic Door Keypad	Asm Portillon Elec Keypad	943533	
31	Optional Peripheral Unit - No EMT	PCB/WWC032/OPU/OPT PER UNIT	901354	
	PCB assy/OPU/1 PR Left EMT	PCB asm/OPU/1 PR G EMT	906897-001	
	PCB assy/OPU/1 PR Right EMT	PCB asm/OPU/1 PR D EMT	906897-002	
	PCB assy/OPU/2 PR Left EMT	PCB asm/OPU/2 PR G EMT	906897-003	
	PCB assy/OPU/2 PR Right EMT	PCB asm/OPU/2 PR D EMT	906897-004	
	PCB assy/OPU/3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	906897-005	
	PCB assy/OPU/4 PR Left EMT	PCB asm/OPU/4 PR G EMT	906897-006	
	PCB assy/OPU/4 PR Right EMT	PCB asm/OPU/4 PR D EMT	906897-007	
	PCB assy/OPU/5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	906897-008	
	PCB assy/OPU/2nd PR L/R EMT	PCB asm/OPU/2eme PR G/D EMT	906897-009	
	PCB assy/OPU/1 PR L+1 PR R EMT	PCB asm/OPU/1 PR G +1 PR D EMT	906897-010	



## 5.3.2 PROGRAMMING SWITCH

Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M3x6	Vis CS M3x6	900007-017	
2	Washer PI M4	Rondelle PI M4	900008-009	
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	Screw SCS M3x12	Vis FS M3x12	900014-001	
6	Magnetic Proximity Switch	Contact Magnetiq.de Proximité	900387-001	
7	Stay Tab Calc Door Q500T	Fiche Arret Porte Calc	900577	
8	Screw HSC M4x10	Vis FHC M4x10	900643-002	
9	Spacer Thr Hex FF M3x8	Entretoise Hex FF M3x8	900711-010	
10	Spacer Thr Hex FF M3x40	Entretoise Hex FF M3x40	900711-022	
11	Hingebar Brass	Gond Porte Colonne	900733	
12	Ballast Socket Integrated	Ballast Douille Intégré	900738	
13	Lamp Fluorescent Oryx 11 W	Tube Fluor Oryx 11W	900739	
14	Programming Switch Mechanism	Programming Switch Mechanism	-	Refer to separate drawing
15	Lock Cam DIT Door	Came De Serrure Porte DIT	-	Refer to Lock drawing
16	Screw HFHTF M6x10 Drilled	Vis Hex. Tar. M6x10 Percee	903812-001	
17	Cust Sales Display LCD	Afficheur Prix de Vente LCD	904788	
18	Calc Door Seal Moulded	Joint Porte Calc Moule	905874	
19	Cable Security Plate Assy	Plaque de Sécurité de Câble	907314	Option for Italy only
20	LCD Plexi Glass Q500T1	LCD Plexi Glace Q500T1	907508	
21	Button Black	Bouton Noir	908603-001	
22	Switch Body ZB5	Corps Contact ZB5	908604	
23	Assy Bracket LCD	Asm Support LCD	908696	
24	PCB/WWC025L4/CSD-LCD V4 APPL_F	Afficheur prix de vente LCD	909692-004	Backlit LCD
25	Bracket LCD	Support LCD	941482	Backlit LCD
26	Security Cover Plate - Std Door	Couvercle de Sécurité - Porte Std	941483	Option for Italy only

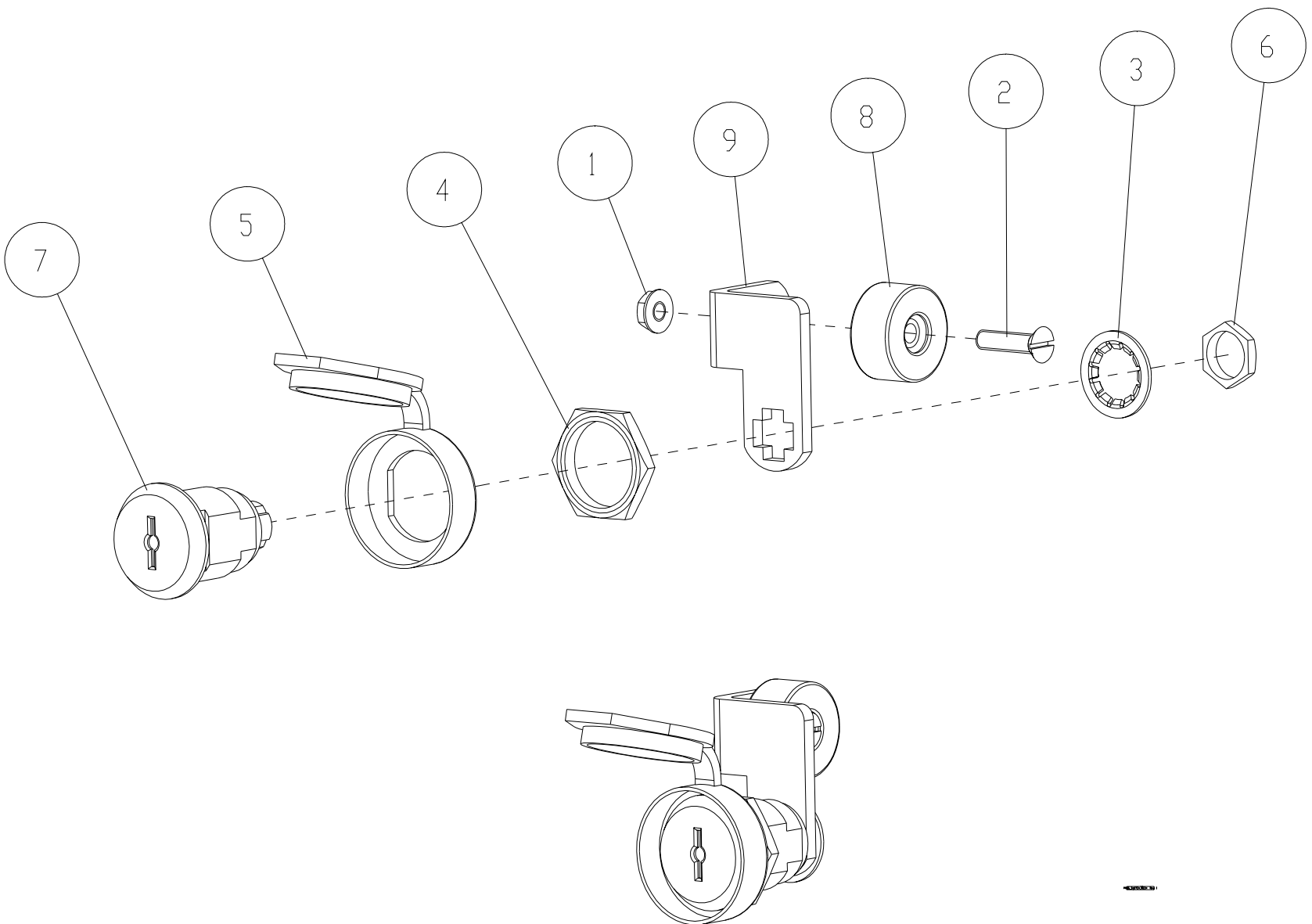
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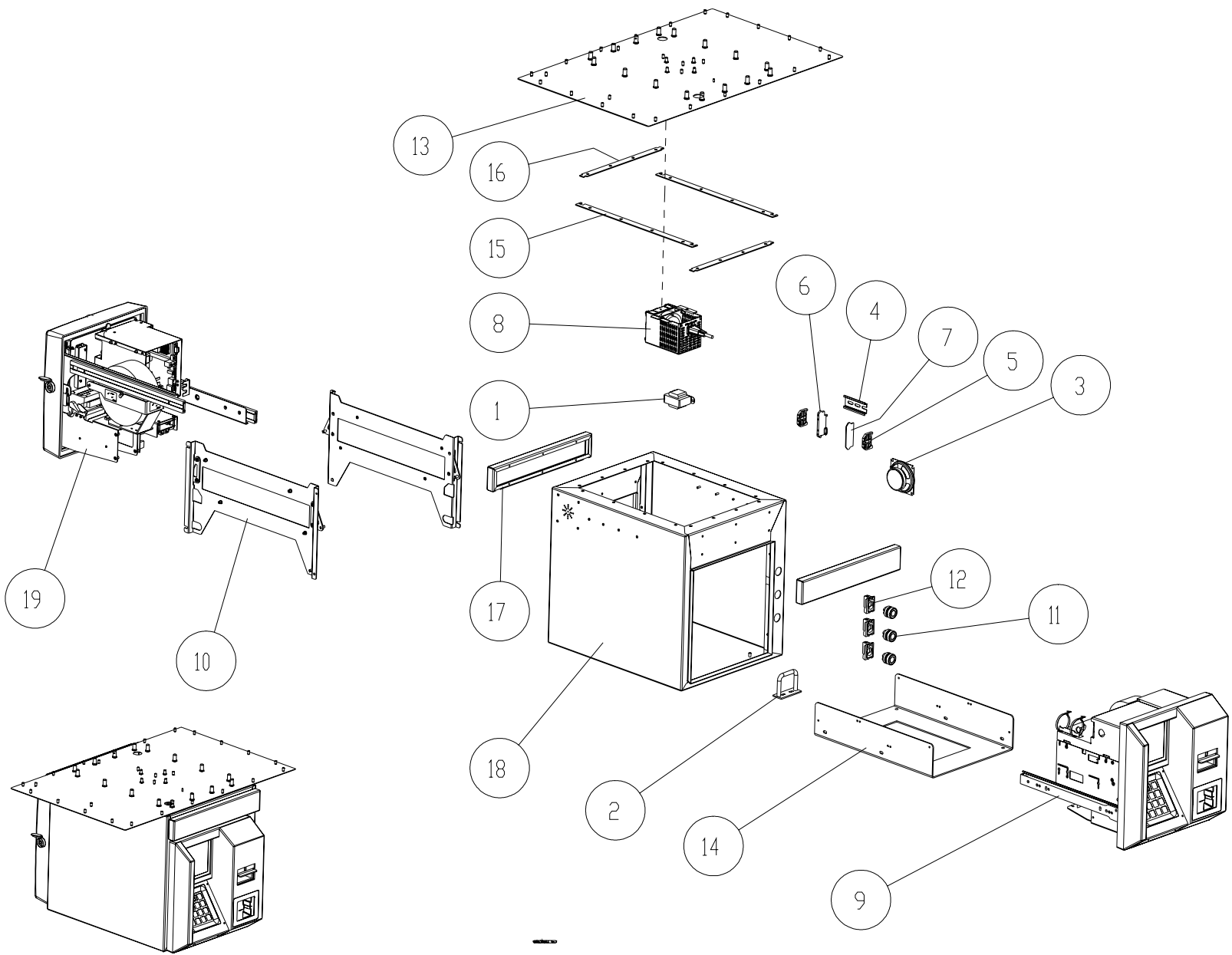
## 5.3.2 PROGRAMMING SWITCH (CONT.)

Item No	Description	Désignation Français	Part No	Comments
27	Assy Electronic Door Keypad PS	Asm Portillon Elec Keypad PS	943370	
28	Assy Calculator Door PB and PS	Asm Porte Calculateur PB and PS	943372	
29	Optional Peripheral Unit - No EMT	PCB/WWC032/OPU/OPT PER UNIT	901354	
	PCB assy/OPU/1 PR Left EMT	PCB asm/OPU/1 PR G EMT	906897-001	
	PCB assy/OPU/1 PR Right EMT	PCB asm/OPU/1 PR D EMT	906897-002	
	PCB assy/OPU/2 PR Left EMT	PCB asm/OPU/2 PR G EMT	906897-003	
	PCB assy/OPU/2 PR Right EMT	PCB asm/OPU/2 PR D EMT	906897-004	
	PCB assy/OPU/3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	906897-005	
	PCB assy/OPU/4 PR Left EMT	PCB asm/OPU/4 PR G EMT	906897-006	
	PCB assy/OPU/4 PR Right EMT	PCB asm/OPU/4 PR D EMT	906897-007	
	PCB assy/OPU/5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	906897-008	
	PCB assy/OPU/2nd PR L/R EMT	PCB asm/OPU/2eme PR G/D EMT	906897-009	
	PCB assy/OPU/1 PR L+1 PR R EMT	PCB asm/OPU/1 PR G +1 PR D EMT	906897-010	



## 5.3.3 PROGRAMMING SWITCH MECHANISM

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Screw SCS M4x16	Vis FS M4x16	900014-007	
3	Washer Serr Lock Int M10	Rondelle a Dents DIC M10	900021-001	
4	Nut Hex 3/4 - 24 UNS	Ecrou Hex 3/4 - 24 UNS	900041-001	
5	Cap SouthCo 90-2 (Cover)	Bouchon SouthCo 90-2 (Chapeau)	900042	
6	Nut Hex M10 x 1,00 For Lock	Ecrou M10 x 1,00 Pour Serrures	900043-001	
7	Lock Fort Securite	Serrure Fort Securite	900389	
8	Magnet 20X4,4X10	Aimant 20X4,4X10	900757-001	
9	Lock Cam Programme Swtich	Came de serrure PS	941945	

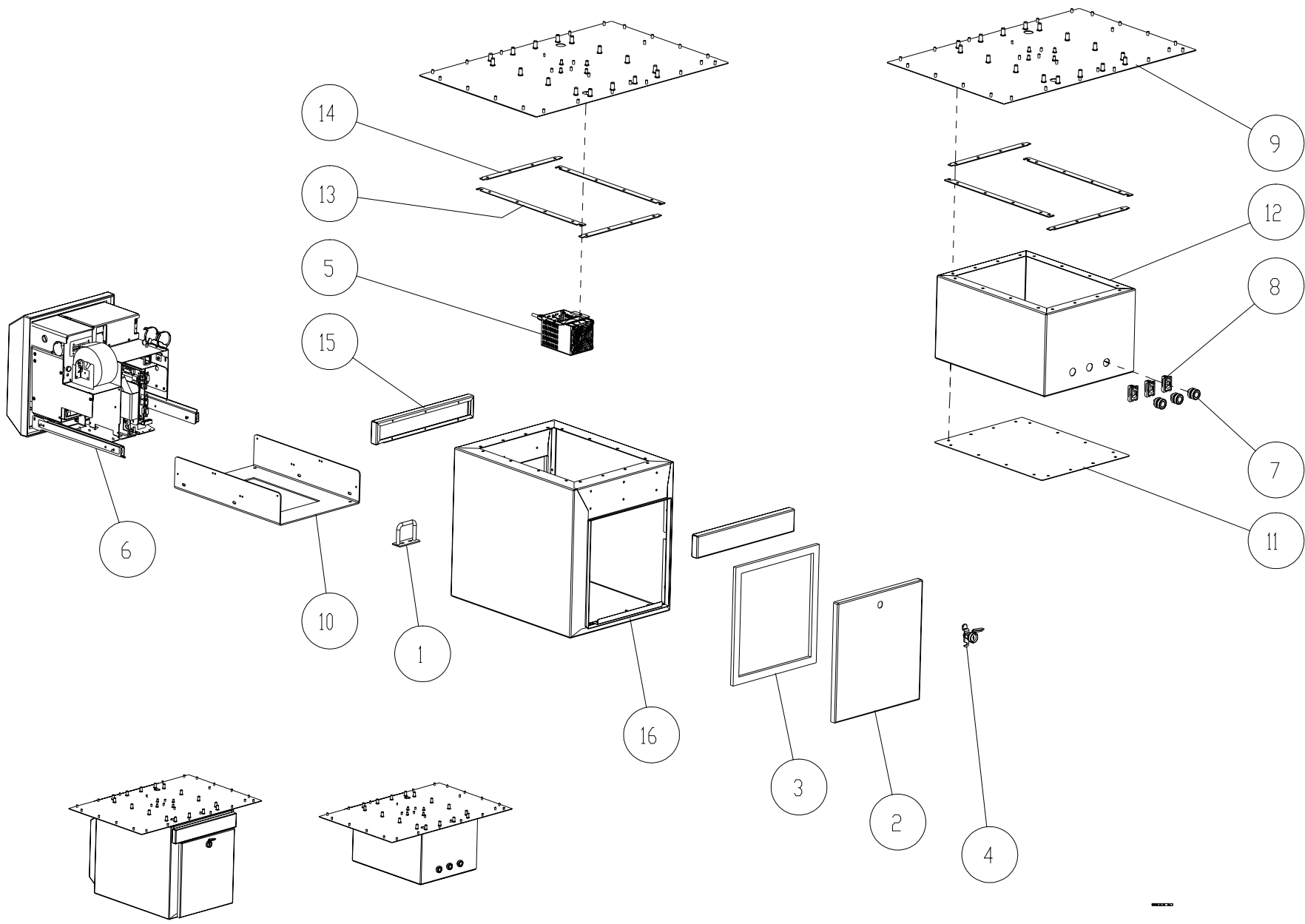


Issue B

## 5.4 DIT Assembly

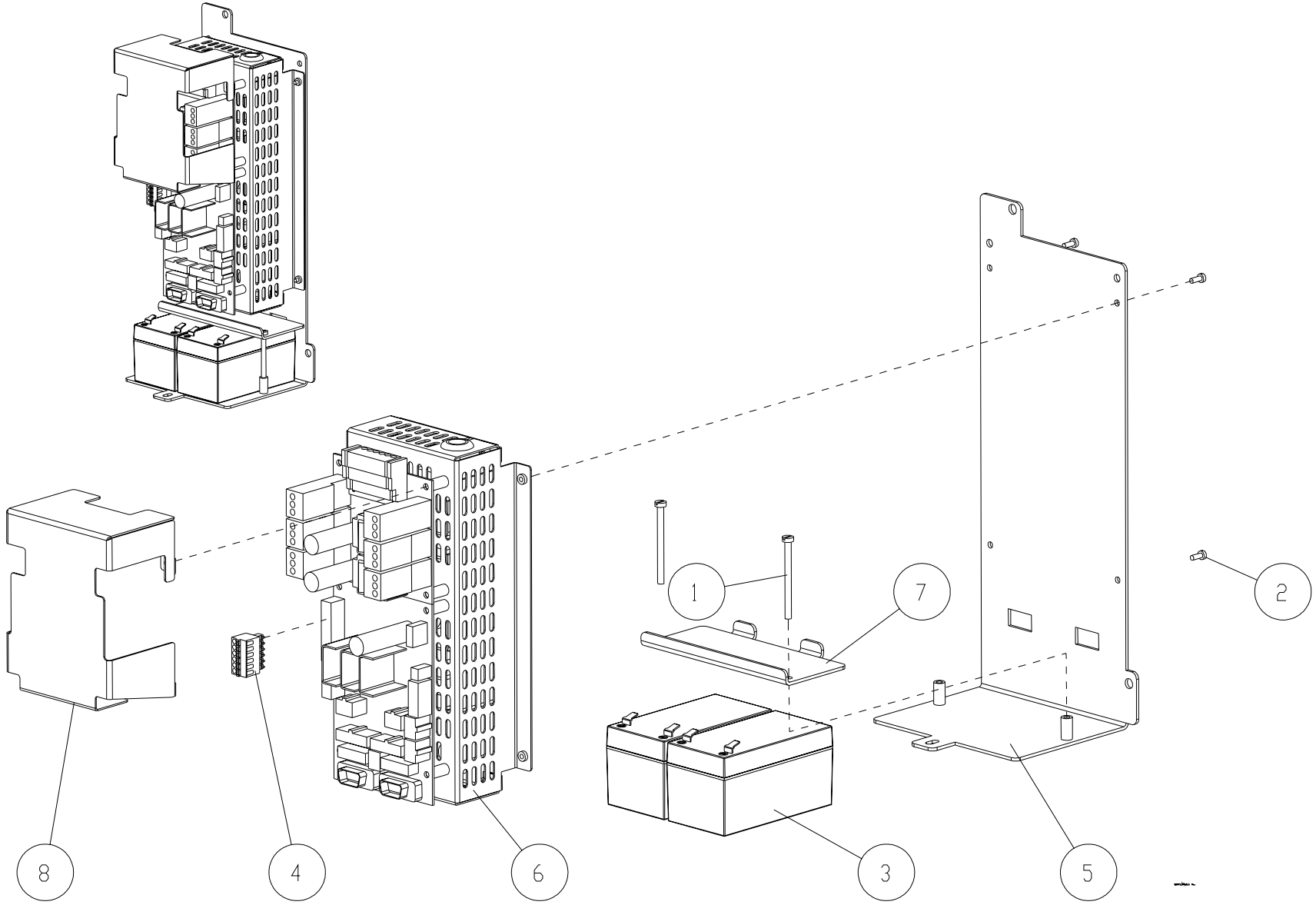
### 5.4.1 DOUBLE-SIDED DIT - IQ6000 OR IQ7000

Item No	Description	Désignation Français	Part No	Comments
1	8 ohm Speaker Transformer	8 ohm Transformateur Haut Parleur	900302	
2	Lock Staple MD	Agrfe Verrouillage MD	900541	
3	8 ohm pa Speaker	8 ohn pa Haut Parl	901057	
4	Rail TS 35 l=75	Rail de Bornier TS 35 l=75	901432-001	
5	Endstop Grey 35mm 249-116	Butée Arrêt Grise 35mm 249-116	901712-001	
6	Terminal Clamp 2x2 way grey 280-626	Borne 2x2 Voies, Gris 280-626	901714-001	
7	Separation Plate (for terminal 2x2 way)	Plaque Separation OG, 280-327	901855-001	
8	OPT Heater Assembly	Chauffage OPT assemblé	903593	
9	IQ 6000	IQ6000	-	Refer to separate IQ6000 Manual
10	Mounting Kit	Ensemble d'Adaptation	908101	
11	Black Button	Bouton Noir	908603-001	
12	Switch Body ZB5	Corps Contact ZB5	908604	
13	Assy Base Calculator Housing IQ	Asm Basse Couvercle de Calc IQ	909197	
14	Bracket IQ 6000 Slide	Support IQ 6000	909257	
15	Seal - IQ Long	Joint de IQ Long	940399	
16	Seal - IQ Short	Joint de IQ Court	940401	
17	Brow IQ Housing	front Clôt IQ	942012	
18	Assy Housing Speaker IQ	Asm Clôture Haut-Parler IQ	940449	
19	IQ7000	IQ7000	-	Refer to separate IQ7000 Manual



## 5.4.2 SINGLE-SIDED DIT &amp; NON-DIT OPTION

Item No	Description	Désignation Français	Part No	Comments
1	Lock Staple MD	Agrfe Verrouillage MD	900541	
2	Q500T DIT Blind Door Weldassy	Q500T DIT Porte Aveugle Soudé	900673	
3	Q500T DIT Blind Door Seal	Q500T DIT Joint Porte Aveugle	900676	
4	Lock Assembly (Manual)	Serrure Porte Asm (Manuel)	-	Refer to separate Lock drawing
5	OPT Heater Assembly	Chauffage OPT Assemblé	903593	
6	IQ 6000 IQ 7000	IQ 6000 IQ 7000	- -	Refer to separate IQ 6000 Manual Refer to separate IQ 7000 Manual
7	Black Button	Bouton Noir	908603-001	
8	Switch Body ZB5	Corps Contact ZB5	908604	
9	Assy Base Calculator Housing IQ	Asm Basse Couvercle de Calc IQ	909197	
10	Bracket IQ 6000 Slide Mounting Kit	Support IQ 6000 Ensemble d'adaptation	909257 908101	For IQ 6000 For IQ 7000
11	Base Plate PB Box	Embase Boîte de Bouton de Poussée	909576	
12	Assy Enclosure Push Button	Asm Clôture Bouton de Poussée	909577	
13	Seal - IQ Long	Joint de IQ Long	940399	
14	Seal - IQ Short	Joint de IQ Court	940401	
15	Brow IQ Housing	front Clôt IQ	942012	
16	Assy Housing IQ Standard	Asm Clôture Std. IQ	942013	

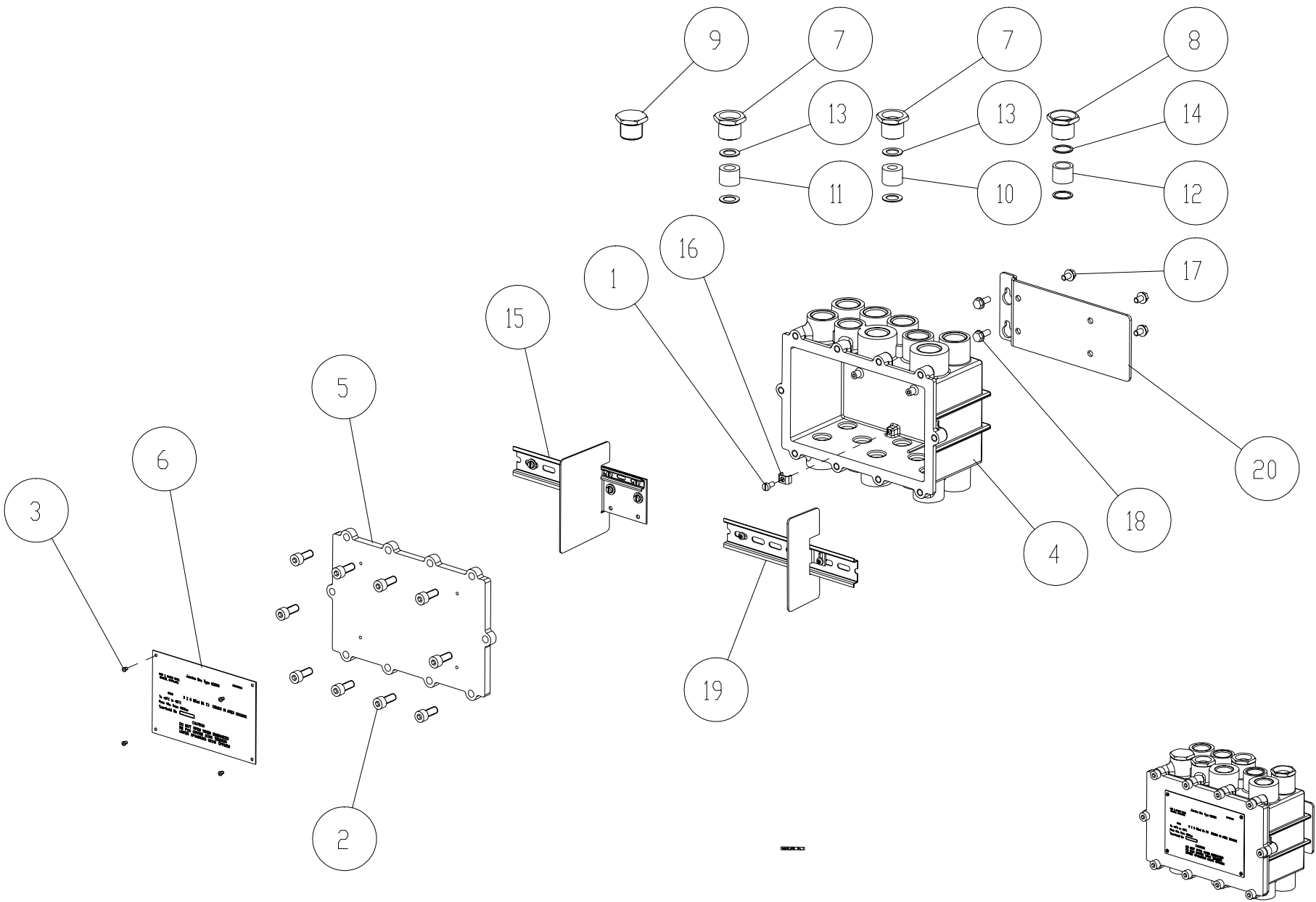


Issue A



### 5.5 Power Supply Unit for DIT Assembly

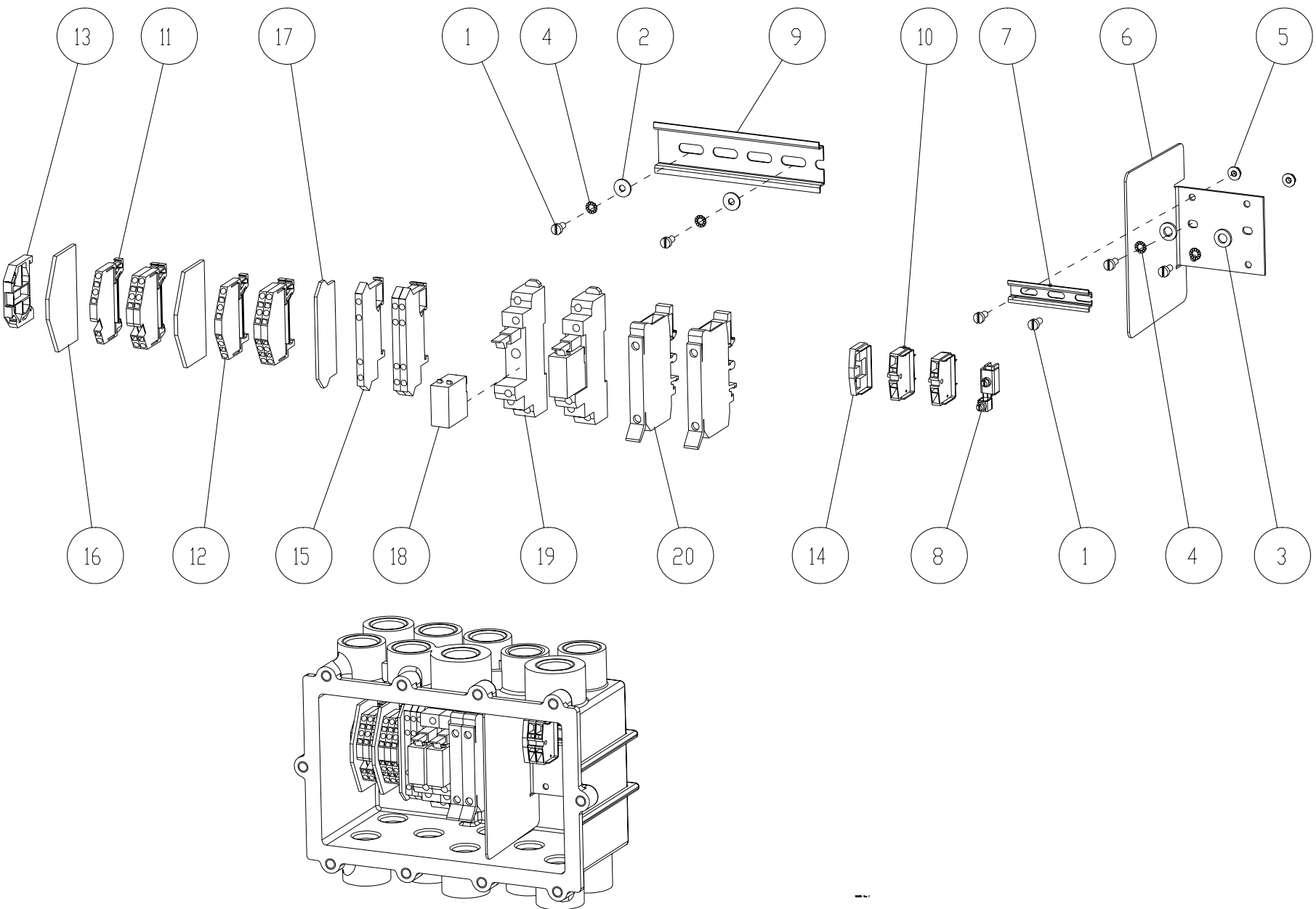
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x50	Vis CS M4x50	900007-007	
2	Screw SCH M3x8	Vis CS M3x8	900007-008	
3	Battery 12V 1,2 Ah (box type)	Batterie 12V 1,2 Ah	900072-001	
4	Connector Pitch 3.81mm	Lancement Connecteur 3.81mm	900862-006	
5	DIT PSU Bracket	DIT PSU Encadrer	902076	
6	OPT PSU Assembly	OPT PSU Assemblee	902077	
7	DIT PSU Battery Bracket	DIT PSU Batterie Encadrer	902079	
8	Cover DIT Power Supply	Couverture DIT PS	909532	



Issue A

## 5.6 Main Junction Box Assembly

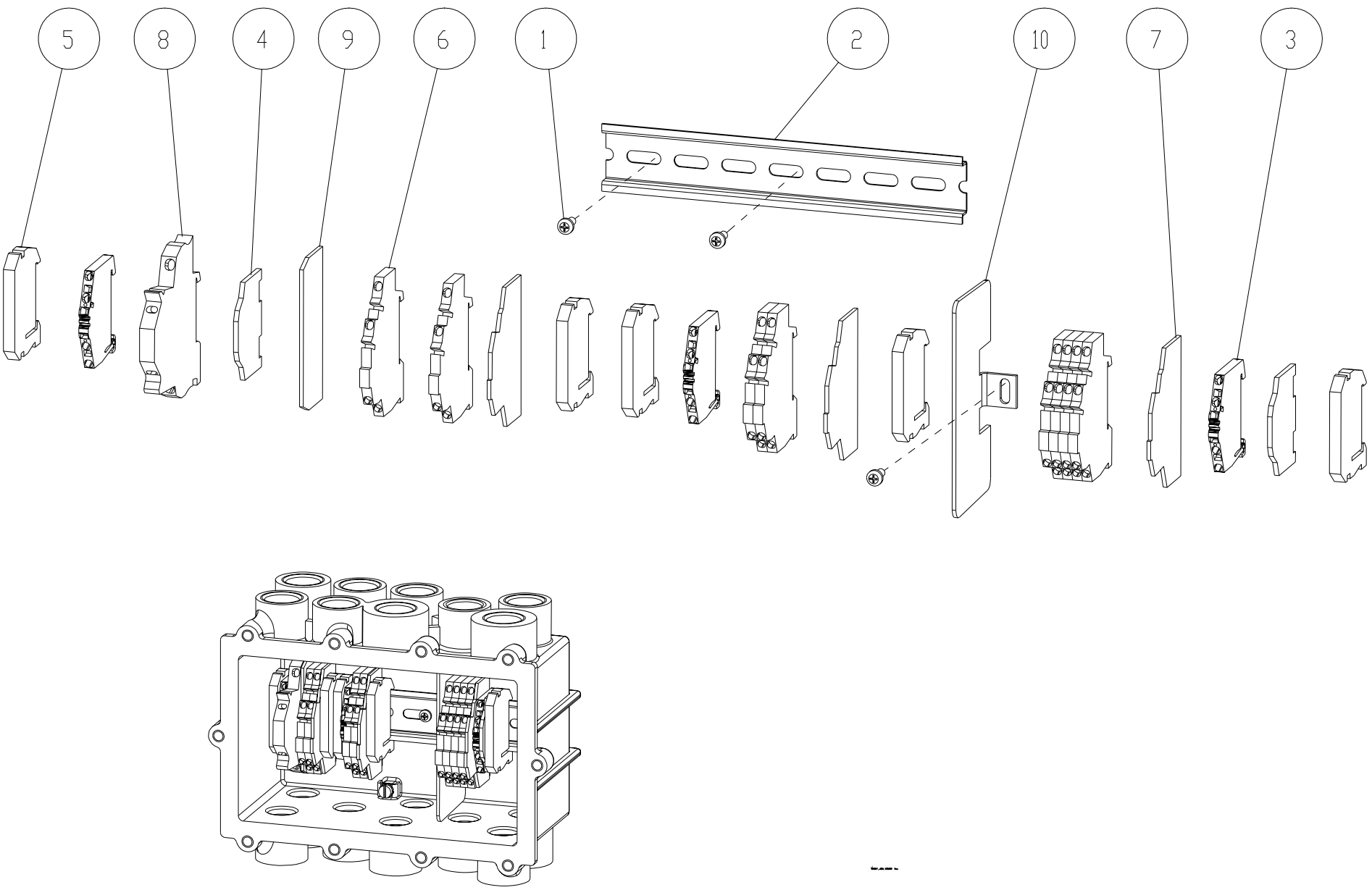
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M5x10	Vis CS M5x10	900007-004	
2	Screw HSHC M8x20	Vis CHC M8x20	900017-002	
3	Rivet Rokut	Rivet Expansion	900022-002	
4	Junction Box-M2000-series	Boitier de Connection-M2000	900104	
5	Cover Junction Box M2000	Couvercle Boitier Connection	900105	
6	Typelate junction box M2000	Plaque no Serie Boitier	900106	
7	Gland Exd M25 14mm	Ecrou P.E.	900108	
8	Gland Exd M25 19mm	Ecrou P.E.	900109	
9	Blindstop Exd M25	Bouchon	900110	
10	Grommet 8-11	Bouchon	900111	
11	Grommet 10-13	Bouchon	900112	
12	Grommet 14-17	Bouchon	900113	
13	Back-up Ring 8-13	Rondelle Acier	900114	
14	Back-up Ring 14-17	Rondelle Acier	900115	
15	Rail Assy	Rail Assy	-	Refer to separate drawing
16	Grounding Clamp	Borne de Mise la terre	900118	
17	Screw Hex Flange Head Thread For.	Vis Auto-Taraudeuse Hex Emb. Cyl.	900708	
18	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
19	Rail Assy	Rail Assy	-	Refer to separate drawing
20	Bracket Junction Box Q400T	Support boîte Connexion Q400T	904009	



Issue A

## 5.6.1 MAIN JUNCTION BOX INTERNAL COMPONENTS (M2000 BOXES ONLY)

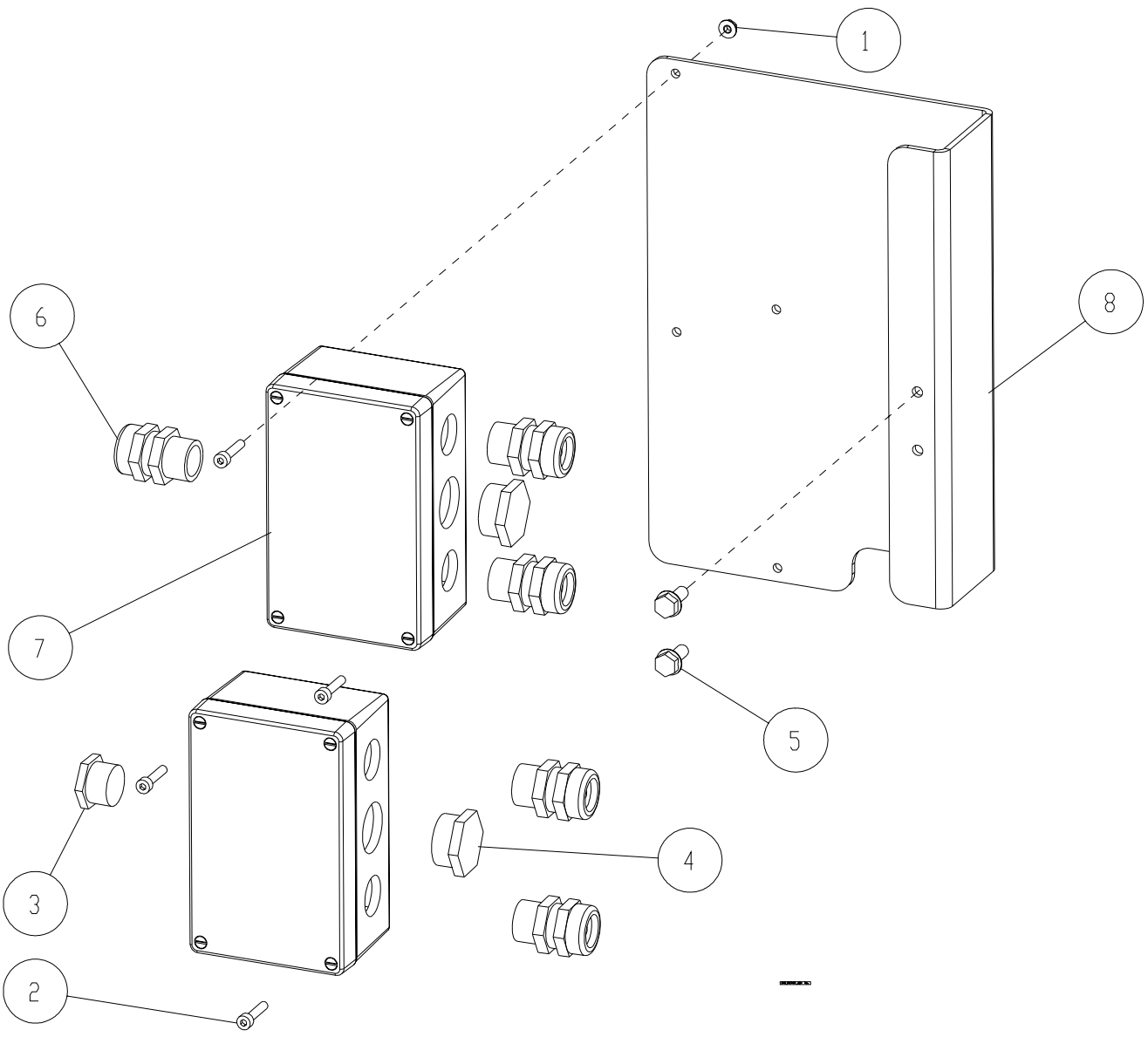
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x8	Vis CS M4x8	900007-003	
2	Washer PI d2=3xd1 M4	Rondelle PI d2=3xd1 M4	900008-003	
3	Washer PI M6	Rondelle PI M6	900008-007	
4	Washer Serr Lock Ext M4	Rondelle a Dents DEC M4	900009-001	
5	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
6	Junction Box Divider Plate	Plaque Separation Boitier	900107	
7	Rail TS-15 L=59	Rail de Bornier	900117	
8	PE Terminal for 15MM Rail	-	900657-001	
9	Rail TS 35 l=121	Rail de Bornier TS 35 l=121	901432-003	
10	Clamp 2 way Grey	-	901709-001	
11	Clamp 3 way 2.5QMM Green/Yellow	Borne 3 voies 2.5QMM Vert/Jaune	901710-001	
12	Clamp 4 way 2.5QMM Grey	Borne 4 voies 2.5 QMM Gris	901711-001	
13	Endstop Grey 35mm 249-116	Butée arrêt Grise 35mm 249-116	901712-001	
14	Separation Plate	Plaque Séparation	901713-001	
15	Terminal Clamp 2x2 way	-	901714-001	
16	Separation Plate OG, 280-318	Plaque Séparation OG, 280-318	901854-001	
17	Separation Plate (for termial 2x2 way)	Plaque Séparation	901855-001	
18	Relay 10A Single Pole Contact	Relais Contact Simple Pôle 10A	902236-001	
19	Relay Socket TS35 Rail 10A 25	Cavité Relais TS35 Rail 10A 25	902237-001	
20	Fuse Holder for 6,3x32 Fuse	Porte Fusible Section 6.3x32	903482	



Issue A

## 5.6.2 MAIN JUNCTION BOX INTERNAL COMPONENTS (M2000T BOXES ONLY)

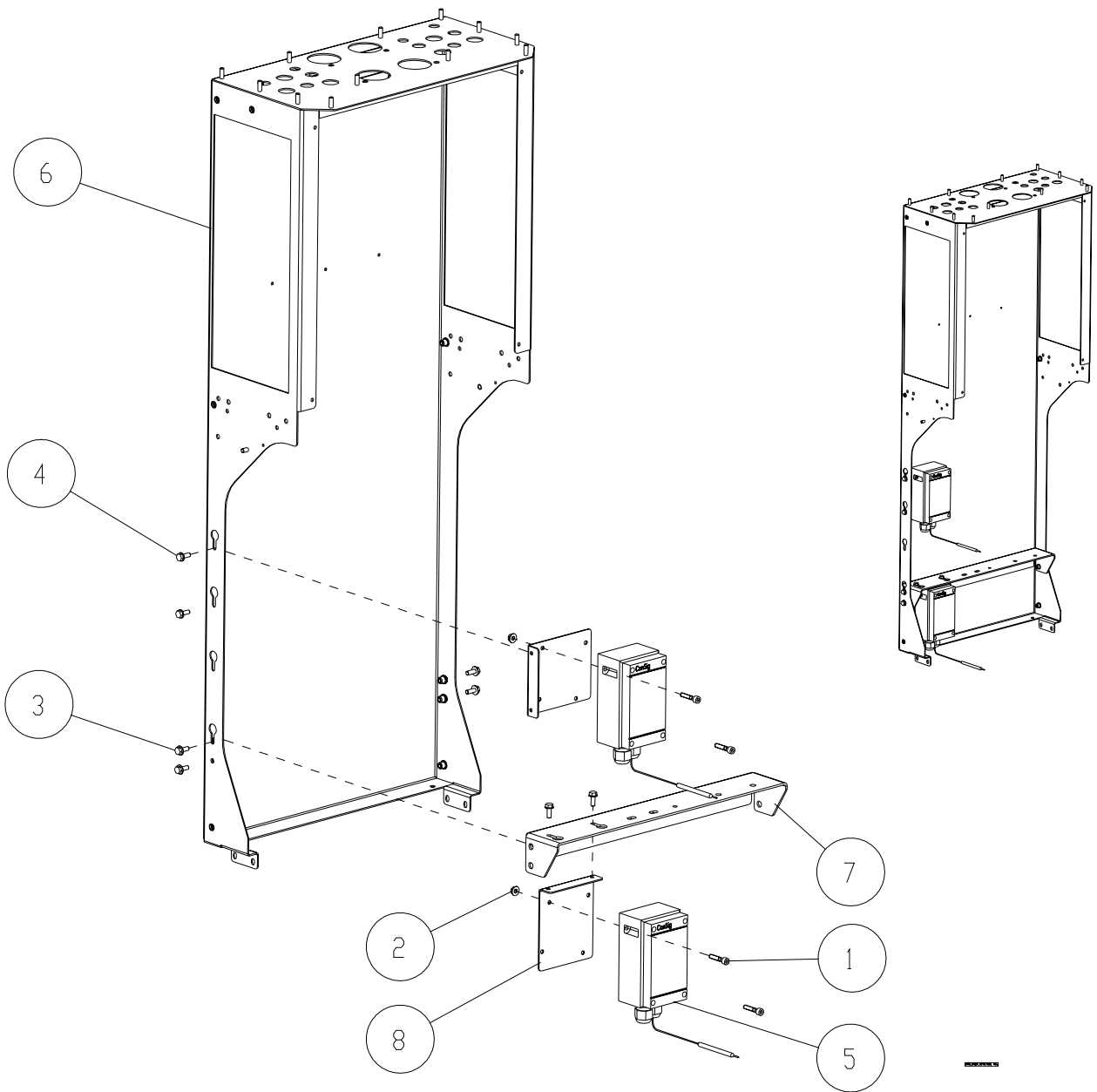
Item No	Description	Désignation Français	Part No	Comments
1	Screw CRRCHTF M4x10	Autotara Cyl Bomb Emp Cru M4x10	900078-004	
2	Rail TS 35 l=190	Rail de Bornier TS 35 l=190	901432-012	
3	Clamp 4 x 0,13 - 2,50 mm gn/ye	Borne 4x0.13-2.50mm Vert/Jaune	909416-002	
4	End Plate Orange	Plaque Separation Orange	909416-003	
5	End Bracket Beige	Extremite Stop Beige	909416-006	
6	Clamp 2x2x 0.13-2.50mm Beige	Borne 2x2x 0.13-2.50mm Beige	909416-013	
7	End Plate Orange for Clamp 013	Plaque Separa Orange pour -013	909416-014	
8	Clamp Fuse 5x20 2,50mm Beige	Borne Fusible 5x20 2.50mm Beige	909416-015	
9	End Plate Beige for Clamp -016	Plaque Separation Beige pour -015	909416-016	
10	Divider Plate Junction Box	Devider Plate Junction Box	940340	





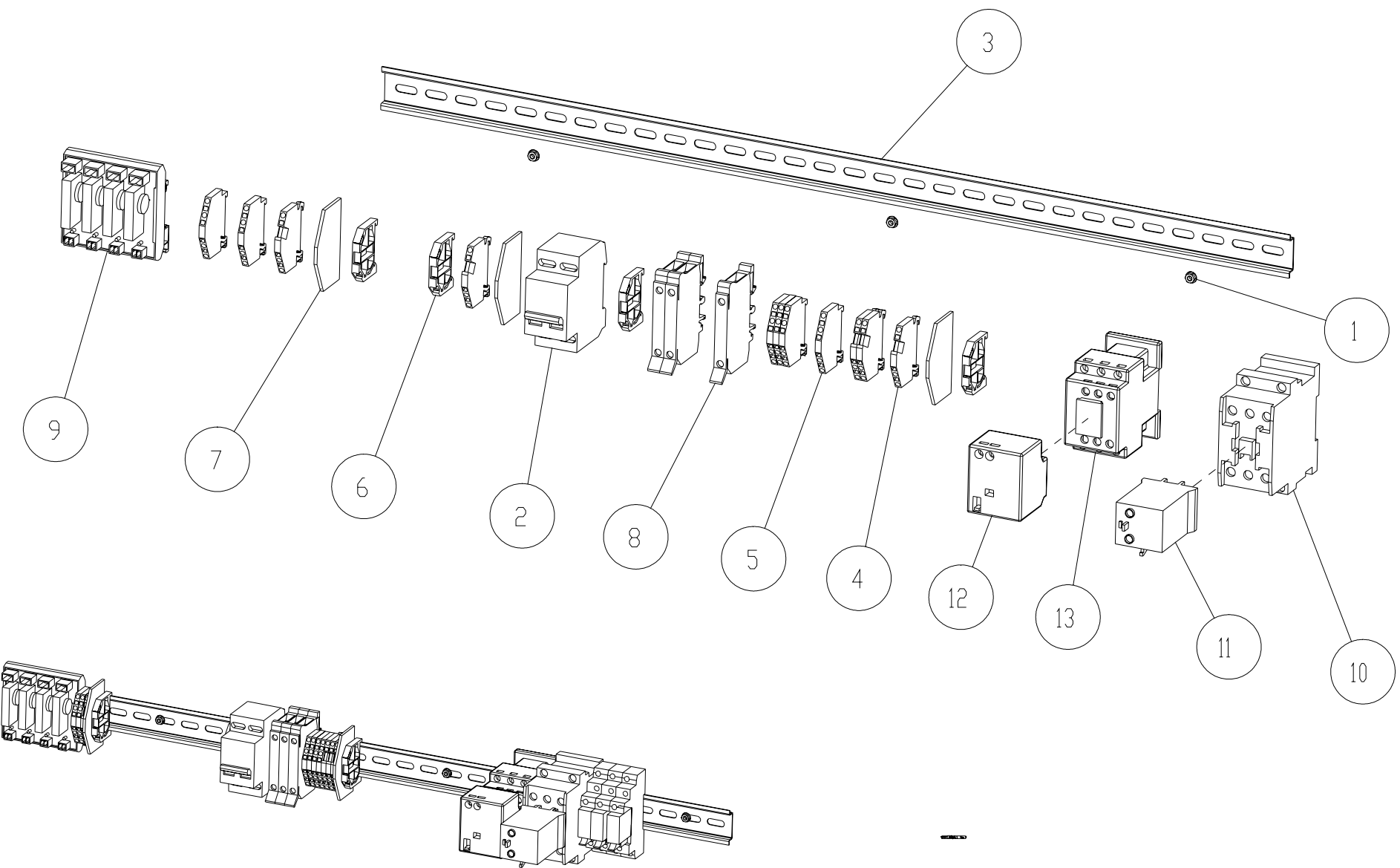
## 5.7 Speaker Option

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Screw HSHC M4x20	Vis CHC M4x20	900017-011	
3	Plug M20 x 1.5 EExE/IP66	Bouchon PG M20 x 1.5 EExE/IP66	900044-001	
4	Plug M25 x 1.5 EExE/IP66	Bouchon PG M25 x 1.5 EExE/IP66	900044-002	
5	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
6	Gland M20x1.5 EExe II/IP66-68 1x 5-9mm	PE M20x1.5 Eexe II/IP66-68 1x 5-9mm	901478-001	
7	Junction box Bernstein CA150	Boitier de connection Bernstein CA150	901753	
8	Bracket Bernstein Box	Support Boite Bernstein	909084	



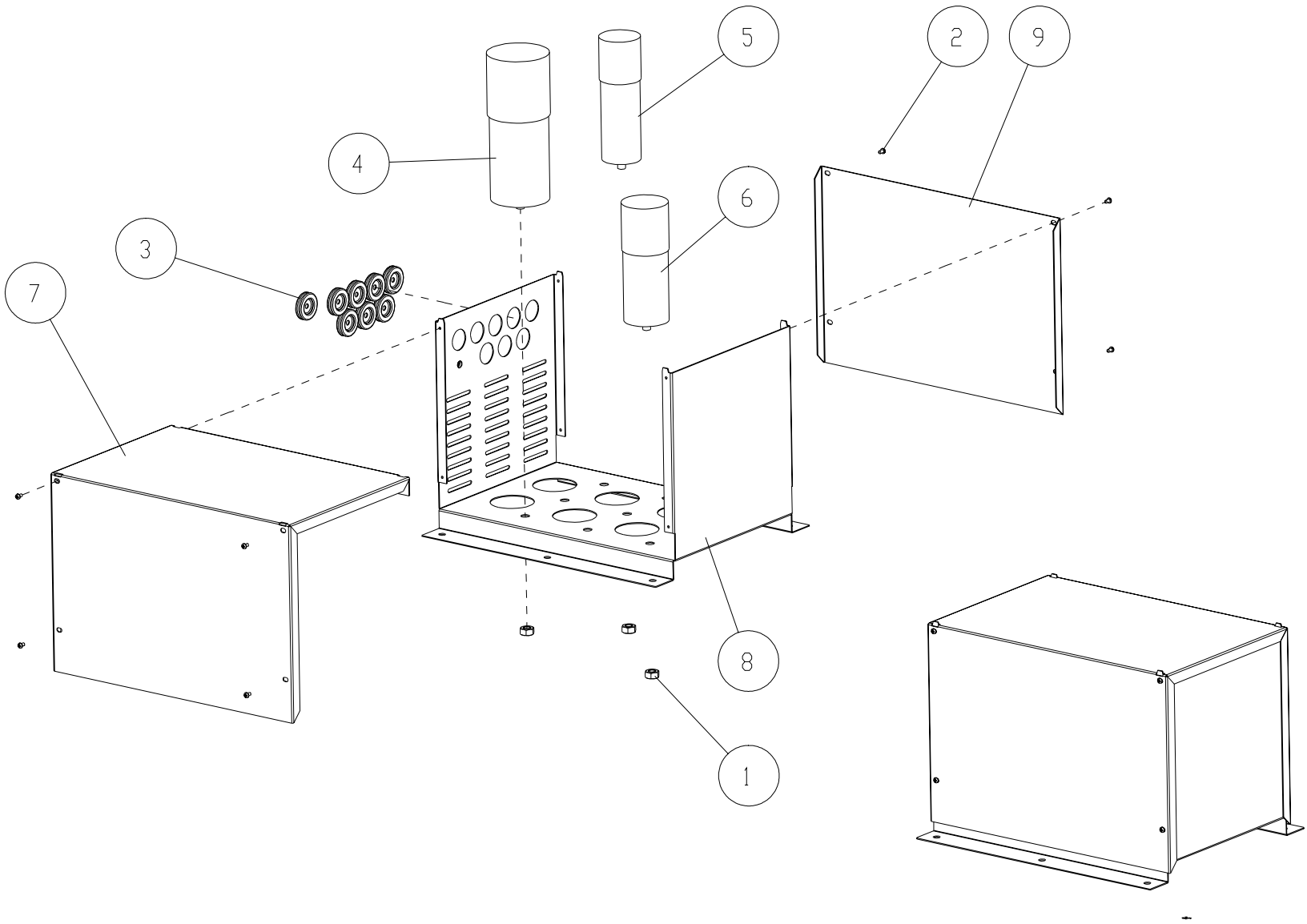
## 5.8 Fire Detection Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HSHC M6x30	Vis CHC M6x30	006-191197	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
4	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
5	Fire Detector - Stahl	Detection de Feu	903291	
6	Column Lower Assy	Asm La Colonne S'abaissent	908775	
7	Pump support End Assy	Asm Support De Pompe	908805	
8	Bracket Fire Protection	Support Détection de feu	909300	



## 5.9 Main Rail Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Main Switch 380 V / 32 A	Int Princ 380 V / 32 A	900074	
3	Rail TS 35 I=760	Rail de Bornier TS 35 I=760	901432-011	
4	Clamps 3 ways 2.5QMM Green/Yellow	Borne 3 voies 2.5QMM Vert/Jaune	901710-001	
5	Clamps 4 ways 2.5QMM Grey	Borne 4 voies 2.5 QMM Gris	901711-001	
6	Endstop Grey 35mm 249-116	Butée Arrêt Grise 35mm 249-116	901712-001	
7	Separation Plate OG, 280-318	Plaque Séparation OG, 280-318	901854-001	
8	Fuse Holder for 6,3x32 Fuse	Porte Fusible Section 6.3x32	903482	
9	Solid State Relay Board Complète	Carte Relais Statique Complète	903872	
10	Contacteur DIL 0M 230V 50Hz	Contacteur DIL 0M 230V 50Hz	905174-001	
11	Mechanical Latching Module V DIL 230V 5	Mechanical Latching Module V DIL 230V 5	905175-001	
12	Mechanical Latch	Mechanical Latch	941653	
13	Contacteur 230Vac	Contacteur 230Vac	941654-001	



### 5.10 Capacitor Box Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex M8	Ecrou H M8	900011-003	
2	Screw CRRCHTF M3x6	Autotara Cyl Bomb Emp Cru M3x6	900078-001	
3	Grommet Membrane ID 16	Passe fil à Membrane DG16	903754-002	
4	Capacitor Start	Condensateur	906505	Refer to Section 4.3.3
5	Capacitor Run	Condensateur	906506	Refer to Section 4.3.3
6	Capacitor VR Motor	Condensateur VR Moteur	906507	
7	Capacitor Box Top	Dessus de Boîte de Condensateu	906529	
8	Capacitor Box Base Assy	Fond de Boîte de Condensateur	906560	
9	Capacitor Box Side	Côté de Boîte de Condensateur	906572	

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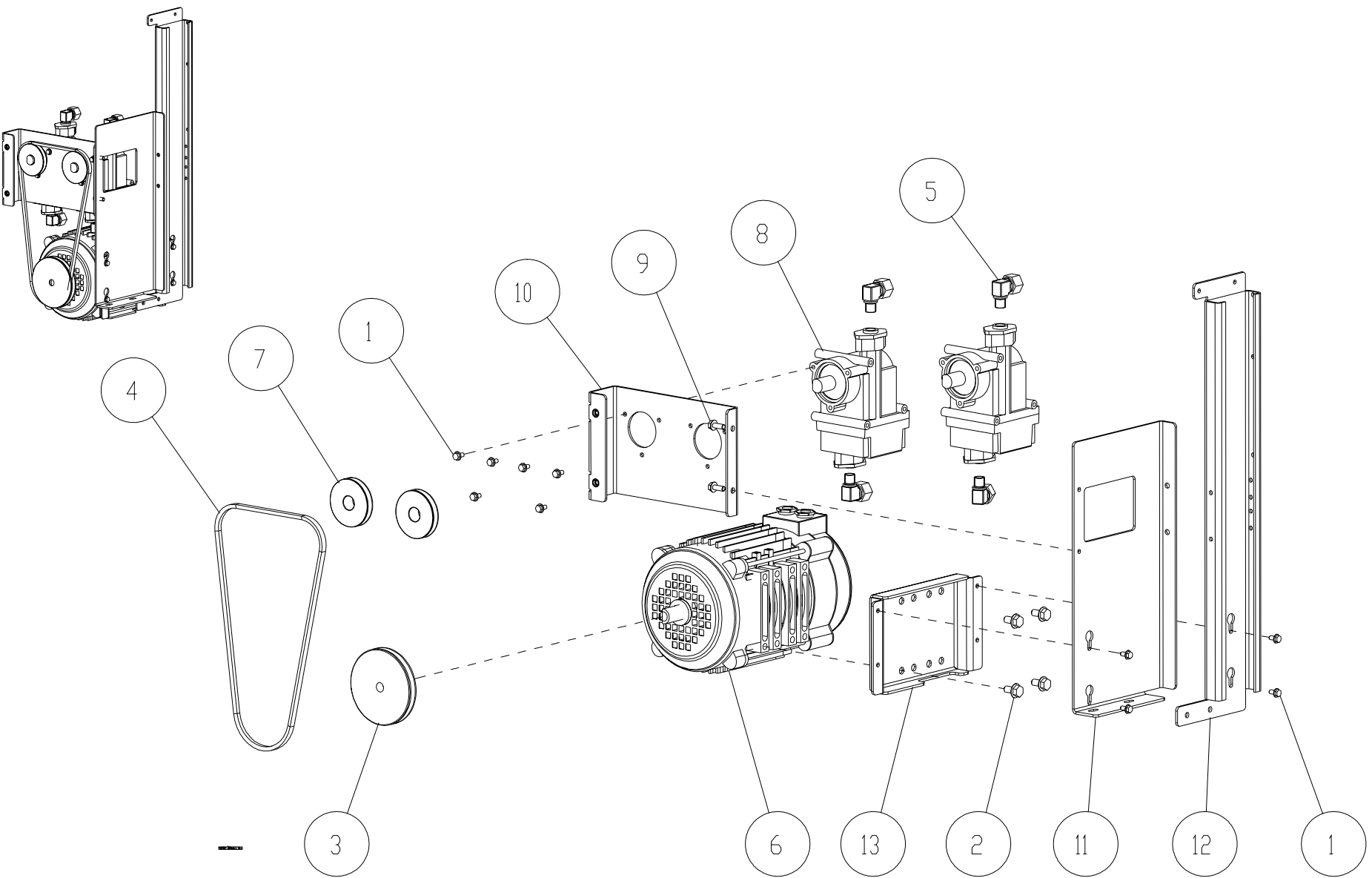


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**CONTENTS**

**6 VAPOUR RECOVERY ..... 6-2**

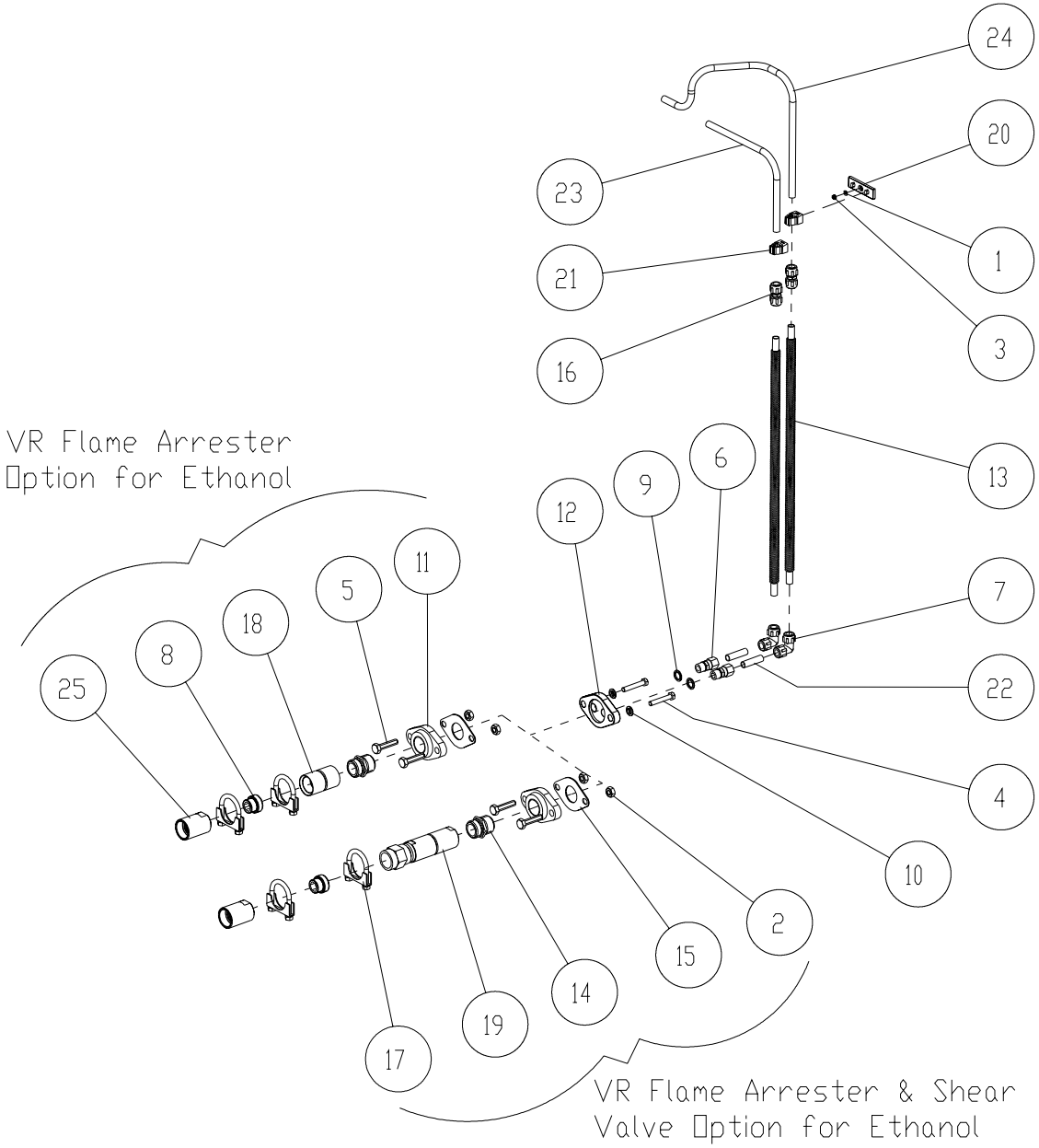
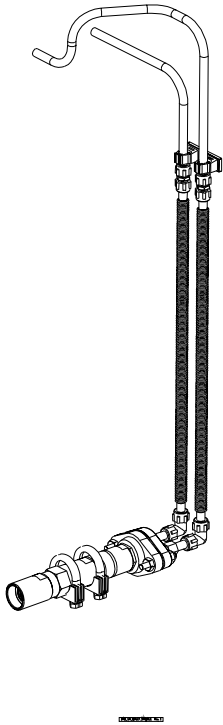
- 6.1 VR Pump Assembly ..... 6-2
- 6.2 VR Return Line Assembly ..... 6-4
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## 6 VAPOUR RECOVERY

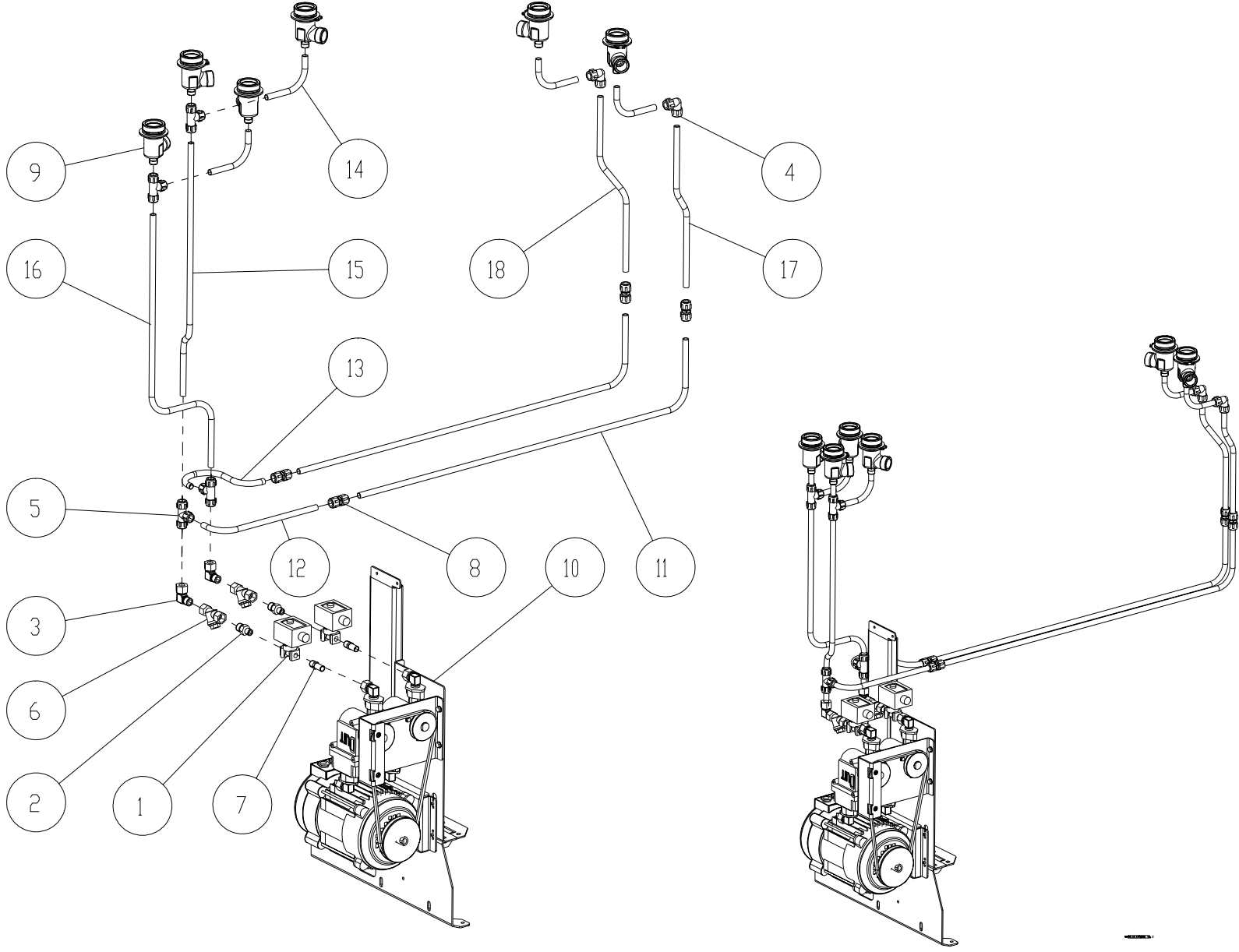
### 6.1 VR Pump Assembly

Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M5x10	Vis Hex Br Autobl M5x10	900016-001	
2	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
3	Pulley V-Belt VR Pump	Poulie gor courr trap VR Pompe	900027	
4	V-Belt - 8 x 5 x 820 Lp	Courroie - 8 x 5 x 820 Lp	900028-001	
5	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	900031-001	
6	Motor EXD 0.37Kw Star 400V 3cl Motor EXD 0.37kW 210V 60Hz	Mot, EXD 0.37Kw Star 400V 3cl Moteur EXD 0.37kW210V 60Hz	900060-004 900060-009	
7	Pulley VR Pump Dm 61mm	Poulie Pompe GR Dm61mm	900293	
8	Durr Pump MEX 0831-11	Pompe Durr MEX 0831-11	900295	
9	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
10	Assy Bracket Durr Pump	Asm Support Pompe Durr	908894	
11	Support Bracker ECVR	Chassis Support ECVR	940433	
12	Bracket Vertical Frame	Chassis Vertical	940434	
13	Motor Bracket ECVR	Support De Moteur ECVR	940435	



## 6.2 VR Return Line Assembly

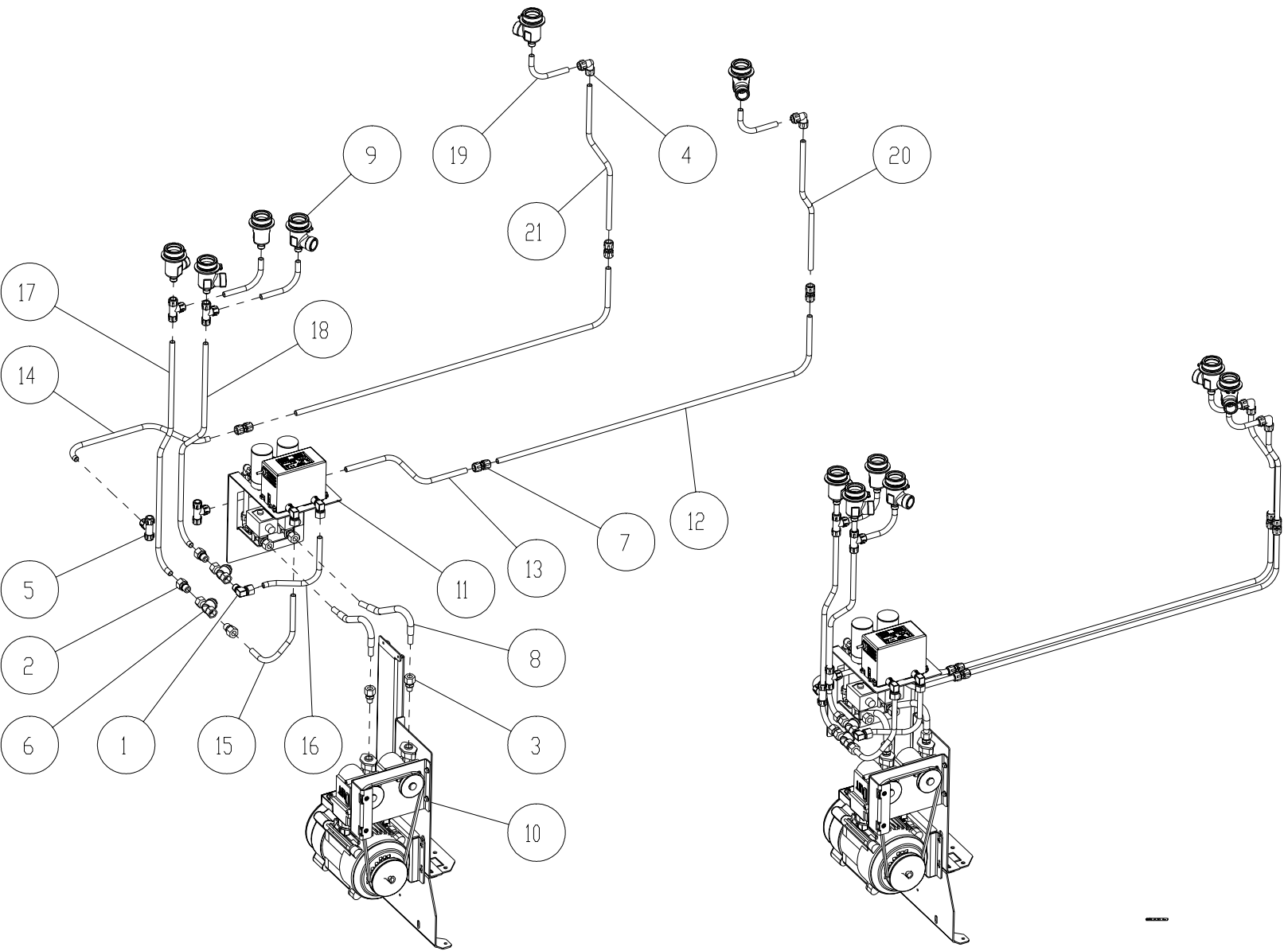
Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M4	Rondelle PI M4	900008-004	
2	Nut Hex M10	Ecrou H M10	900011-004	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-008	
4	Screw HH M8x50	Vis H M8x50	900015-005	
5	Screw HH M10x45	Vis H M10x45	900015-022	
6	Straight Compr 3/8" BSP 12mm	Rac Piq Male 12 - 3/8	900032-003	
7	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
8	Nipple 22mm G1"-G3/4"	Douille 22mm G1	900416	
9	Dowty Seal Self Centre 3/8" BSP	Dowty Joint Torique 3/8" BSP	900450-005	
10	Insulation Sleeve 8.2 mm	Manchon Isolant 8.2 mm	900758-003	
11	Flange 1" 78mm	Bride 1" 78mm	901320-001	
12	Flange - VR Return	Bride Retour RV	901596	
13	Flexible Outlet VR Pump Assy	Flexible Sortie Pompe RV Assy	901597	
14	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
15	Gasket - Flange 78-82	Joint de Bride 78-82	901859	
16	Coupling Straight 12x12mm	Raccord Double égal 12x12mm	903084-001	
17	U-clamp	U-clamp	903184	
18	Body for Shear Valve	Corps de Valve	904587	Arrester without Shear Valve only
19	Shear Valve Risbridger	Raccord Cassant Risbridger	906069	Arrester with Shear Valve only
20	Backplate - Pipe Clip	Plaque arrière - Collier De Pipe	908111	
21	Clip Pipe 12-14mm	Collier de Tube 12-14mm	908114	
22	Pipe, VR, 45mm	Tube, VR, 45mm	909409	
23	Pipe VR - Pump to Flexi	Tube VR - Pompe à Fléchir	940849	
24	Pipe VR - Pump to Flexi	Tube VR - Pompe à Fléchir	940850	
25	Flame Arrester Assy - Ethanol	Flame Arrester Assy - Ethanol	943050-001	



### 6.3 VR Suction Line Assembly

#### 6.3.1 VR OPEN LOOP CONFIGURATION (STANDARD)

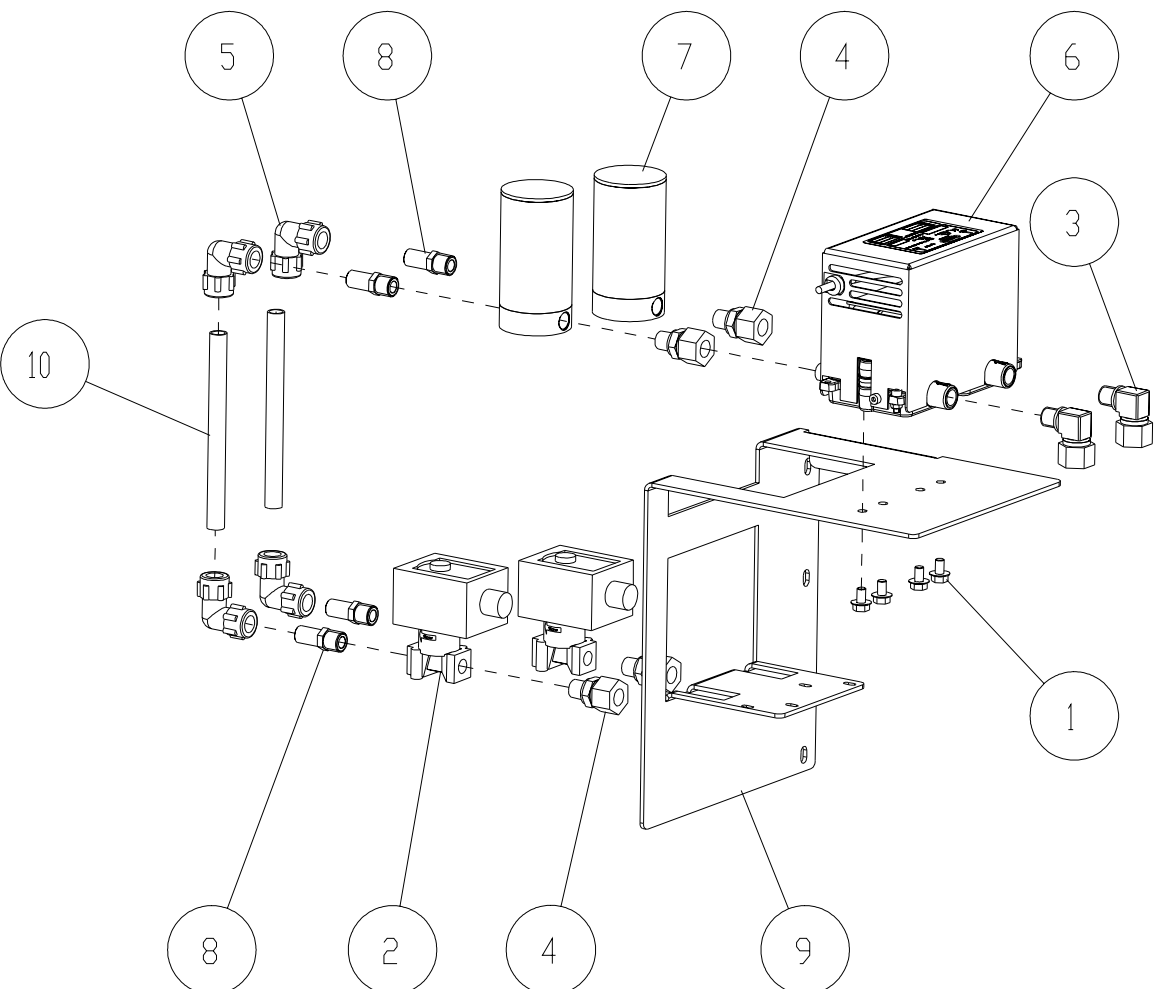
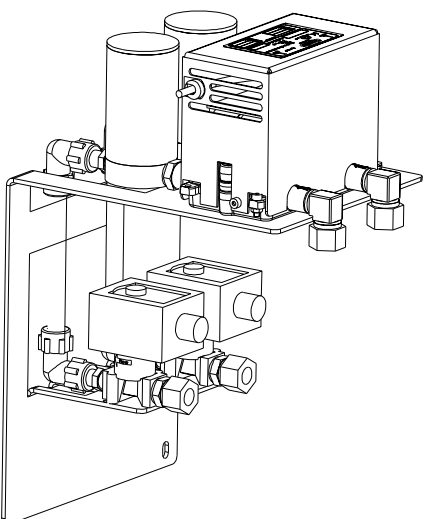
Item No	Description	Désignation Français	Part No	Comments
1	Proport Valve ECVR	Soupape Proport ECVR	900029-001	
2	Nipple 3/8" BSPM 1/4" BSPM	Rac Mam 1/4 - 3/8	900030-001	
3	Elbow Compr 3/8" BSPM 12mm	EQ-PIQ-M12-3/8	900031-002	
4	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
5	T Compr 12x12x12	Rac Te Egal D12	900035-001	
6	VR Filter	VR Filtre	900037	
7	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
8	Coupling Straight 12x12mm	Raccord Double égal 12x12mm	903084-001	
9	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
10	ECVR Assy	Asm ECVR	909487	Refer to separate drawing
11	VR pipe d	VR Tube d	940682	
12	VR pipe f	VR Tube f	940686	
13	VR pipe g	VR Tube g	940687	
14	VR pipe s	Tube vr s	941656	
15	VR pipe t	Tube vr t	941657	
16	VR pipe u	Tube vr u	941658	
17	VR pipe v	Tube vr v	941693	
18	VR pipe w	Tube vr ww	941694	





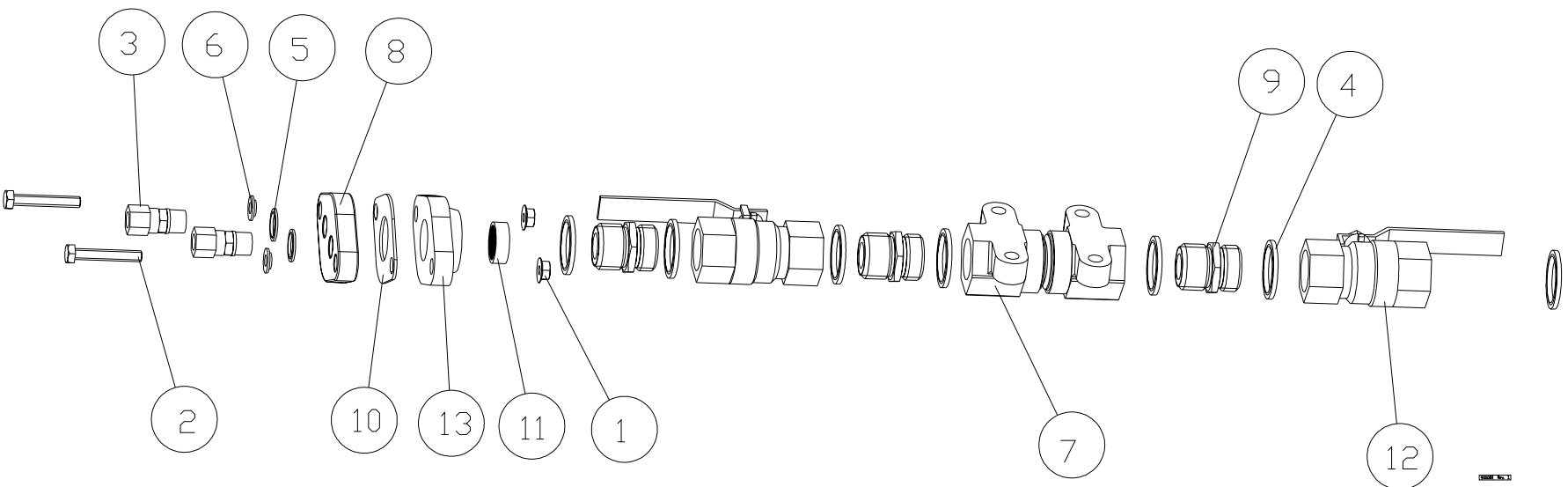
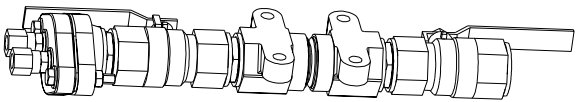
## 6.3.2 VR SELF CALIBRATING SYSTEM

Item No	Description	Désignation Français	Part No	Comments
1	Elbow Compr 3/8" BSPM 12mm	EQ-PIQ-M12-3/8	900031-002	
2	Straight Compr 3/8" BSP 12mm	Rac Piq Male 12 - 3/8	900032-001	
3	Straight Compr 1/4" BSP 12mm	Rac Piq Male 12 - 1/4	900032-002	
4	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
5	T Compr 12x12x12	Rac Te Egal D12	900035-001	
6	VR Filter	VR Filtre	900037	
7	Coupling Straight 12x12mm	Raccord Double Egal 12x12mm	903084-001	
8	Assy SCS Flexi Pipe	ASM SCS Pipe Flexible	908784	
9	Flange Bulkhead Adapter VR	Adaptateur G1	908824	
10	ECVR Assy	Asm ECVR	909487	
11	ECVR Flow Meter Assy.	ECVR Débit Compteur Asm.	909970	Refer to separate drawing
12	VR pipe d	VR Tube d	940682	Refer to separate drawing
13	VR pipe m	VR Tube m	940695	
14	VR pipe n	VR Tube n	940696	
15	VR pipe k	VR Tube k	940754	
16	VR pipe l	VR Tube l	940755	
17	VR pipe dcz	VR Tube dcz	940756	
18	VR pipe dz	VR Tube dz	940757	
19	VR pipe s	Tube vr s	941656	
20	VR pipe v	Tube vr v	941693	
21	VR pipe w	Tube vr ww	941694	



**6.4 ECVR Vapour Flow Meter Option**

Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
2	Proport Valve ECVR	Soupape Proport ECVR	900029-001	
3	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	900031-001	
4	Straight Compr 1/4" BSP 12mm	Rac Piq Male 12 - 1/4	900032-002	
5	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
6	VFM 2 Assy	VFM - 2 Assemblé	900452	
7	Damping Vessel	Recipient	901053	
8	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
9	Bracket ECVR SCS	Support ECVR SCS	908809	
10	VR Pipe VFM	VR Tube VFM	941510	



## 6.5 VR Shear Valve Option

Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M8	Ecrou autobloquant Flange M8 x	900013-004	
2	Screw HH M8x50	Vis H M8x50	900015-005	
3	Straight Compr 3/8" BSP 12mm	Rac Piq Male 12 - 3/8	900032-003	
4	Dowty seal self centre 1"BSP	Dowty joint auto centre 1"BSP	900450-004	
5	Dowty seal self centre 3/8"BSP	Dowty joint auto centre 3/8"	900450-005	
6	Insulation sleeve 8.2 mm	Manchon isolant 8.2 mm	900758-003	
7	Shear valve	Raccord cassant RV	901109	
8	Flange - VR return	Bride retour RV	901596	
9	Nipple 22mm G1	Douille 22mm G1	901772	
10	Gasket - flange 78-82	Joint de bride 78-82	901859	
11	Flame Arrestor VR	Pare Flamme RV	902002	
12	Valve	Vanne	902681	
13	Flange Flange anodised	Bride Bride anodisé	902682 943157	Ethanol compliant

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