



Quantum 410 Low Cost Parts Manual



Document Ref 952259-001
Rev - 3
03\2016



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REVISION RECORD

Date	Revision	Page	Reason
17/01/2013	1	All	Original Issue
26/06/2014	2	5-12 to 5-15	Updated WWC LCD Door Asm
	2	2-2 to 2-3	95334 & 948195 Added
	2	2-7	2.2.1 Title Submerged assemblies - manufactured before July
	2	2-8 to 2-9	2.2.2 Submerged assemblies - manufactured after June 2013 added
	2	2-10 to 2-11	2.2.3 Filter Immerg Stack assembly added
	2	2-13	Stainless steel & ACP cladding options added
	2	2-14 to 2-19	2.4 Payment Terminals, 2.4.1 Verifone head, 2.4.2 verifone printer, verifone blank door removed.
	2	4.2.2	Submerged Filter Assembly added
	2	4-9	Balloon (8) number change
	2	5-2 to 5-3	Balloon (18) added
	2	5-5	Alu side boxes added
	2	5-7	Alu calc boxes added
	2	5-10 to 5-11	Drawing & Parts List Updated
	2	5-26 to 5-29	Drawing & Parts List Updated
	2	5-42 to 5-43	5.6 Hom board Assembly updated
	2	6-3	Parts List Updated
	2	6-4 to 6-5	Added
	2	6-9	Title 6.3.1 VR open Loop configuration (standard) manufactured
	2	6-11	Title 6.3.2 VR Open loop configuration (standard) manufactured after June 2013 added
	2	6-13	6.4.1 VR Self calibration system (closed loop) manufactured before July 2013 added
	2	6-14 to 6-15	6.4.2 VR self calibration system (closed loop) manufactured after June 2013 added
	2	6-17	Title 6.5.1 VFM assembly manufactured before July 2013 added
	2	6-18 to 6-19	VFM assembly manufactured after June 2013 added
	2	Back Cover	Glossary & Addresses changed
29/03/2016	3	2-3	940483 replaced by 957965
		2-3	Item 9 Bracket Support VR Standard 948195 replaced by 956267 Bracket Support VR Standard.
		2-3	Item 2: Bracket motor Assly 908803 replaced by 957283 Bracket motor Assly
		2-9	Item 9 Bracket Support VR Submerged 948196 replaced by 956268 Bracket Support VR Submerged
		2-9	Item 6 Upright Crossmember 950604 replaced by 957778 Upright Crossmember
		3-7	949059 replaced by 957961
		3-7	This part will replace part 948221. However 948221 will still be required for spares
		3-7	Re-Design of Q410LC Hose Clamp.
		3-9	Release of new bungee design. Will replace 952278.
		3-9	This part will replace part 948221. However 948221 will still be required for spares.
		4-7	replaced by 948807

Date	Revision	Page	Reason
		4-13	Item 16: Bracket motor Assly 908803 replaced by 957283 Bracket motor Assly
		4-56	New submerged
		4-59	New Transport bracket 995348
		5-3	Item 10: 949113 replaced by 957648 951137 replaced by 957649
		5-5	Q410LC Aluminium Head and Side Boxes.
		5-7	Q410LC Aluminium Head and Side Boxes.
		5-7	Item 16 Hinge Bracket L 942208 replaced by 958097 Hinge Bracket Left Assy
		5-7	Item 16 Hinge Bracket R 942210 replaced by 958078 Hinge Bracket Right Assy
		5-11	Remove TQC VGA SBC 944693-003.
		5-29	Addition of Velcro strap 957835
		5-29	replaced by 957834
		5-51	Change material of 909576 to Stainless Steel.
		5-63	Change to 952120 to allow for fitment on Q410 and better assembly
		6-1	Boxer VR Pump Integration
		6-1	Boxer VR Pump Integration
		6-5	addition of strap 957896 & screws 900708-001
		6-7	replaced by 909674

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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 410LC range of fuel dispensers.

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

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

1.4 Contact Information

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

Technical Author
Tokheim UK Ltd.
Dundee, Scotland
author@dundee.tokheim.com

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.

Components filled with fuel must be drained in such a way to conform to local and national environmental regulations.

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.

IMPORTANT : A HIGHLY VISIBLE CORDON MUST BE PLACED AROUND THE DISPENSER THAT IS BEING SERVICED.

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
	No naked flames	Visible from both sides of dispenser
	Do not spill fuel on the ground	Visible from both sides of dispenser
	Smoking forbidden	Visible from both sides of dispenser
	Stop vehicle engine	Visible from both sides of dispenser
	Trucks only	At Diesel high speed dispensers near the nozzle boots
	Do not drive away with nozzle in tank	Visible from both sides of dispenser
For more information see User Manual available at this station		Next to User Instructions near the nozzle boot

1.5.5 PERSONAL PROTECTIVE EQUIPMENT (PPE)**PROTECTIVE CLOTHING**

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

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

SAFETY EQUIPMENT FOR WORKING IN HAZARDOUS AREAS

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

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

SAFETY INSTRUCTIONS

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

- Inhalation of 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 2006/42/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.

Dispensers fitted with a Stage II Vapour Recovery system, are in conformity with the requirements of European Directive 2009/126/EC.

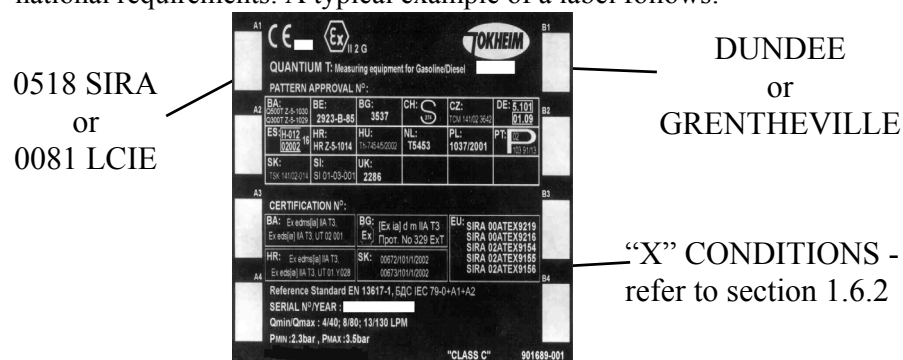
The production and end test is controlled through the Quality Assurance systems within the Tokheim Manufacturing Centres, and has received Quality Assurance Notification from a Notified Body.

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:-



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:-

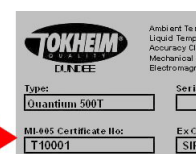
CHECKING THE SEALS

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.



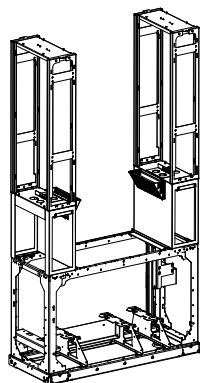
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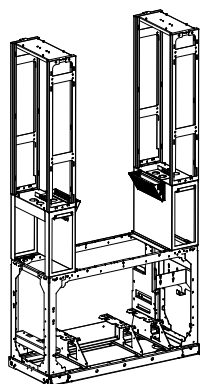
2 CLADDING & FRAMEWORK

2.1 Frame Assemblies

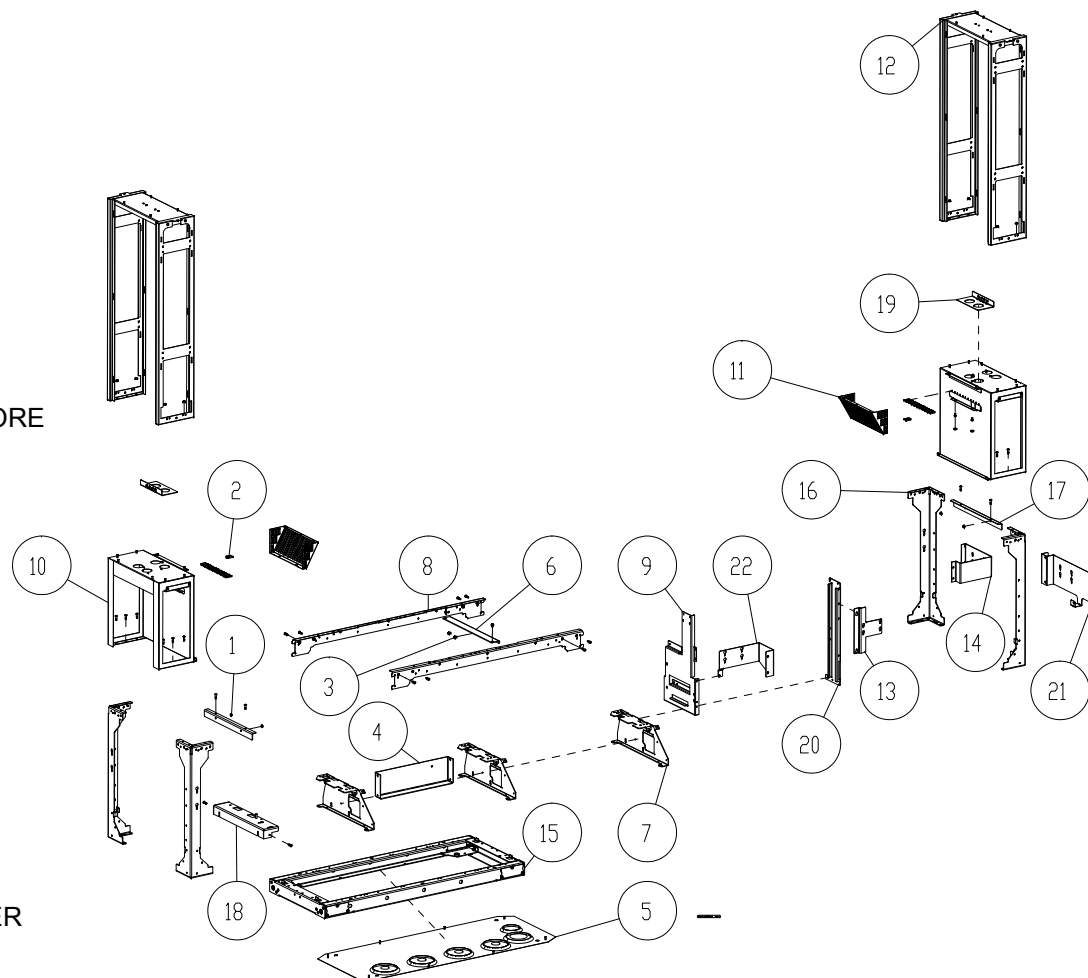
2.1.1 FRAME ASSEMBLY



MANUFACTURED BEFORE
APRIL 2013

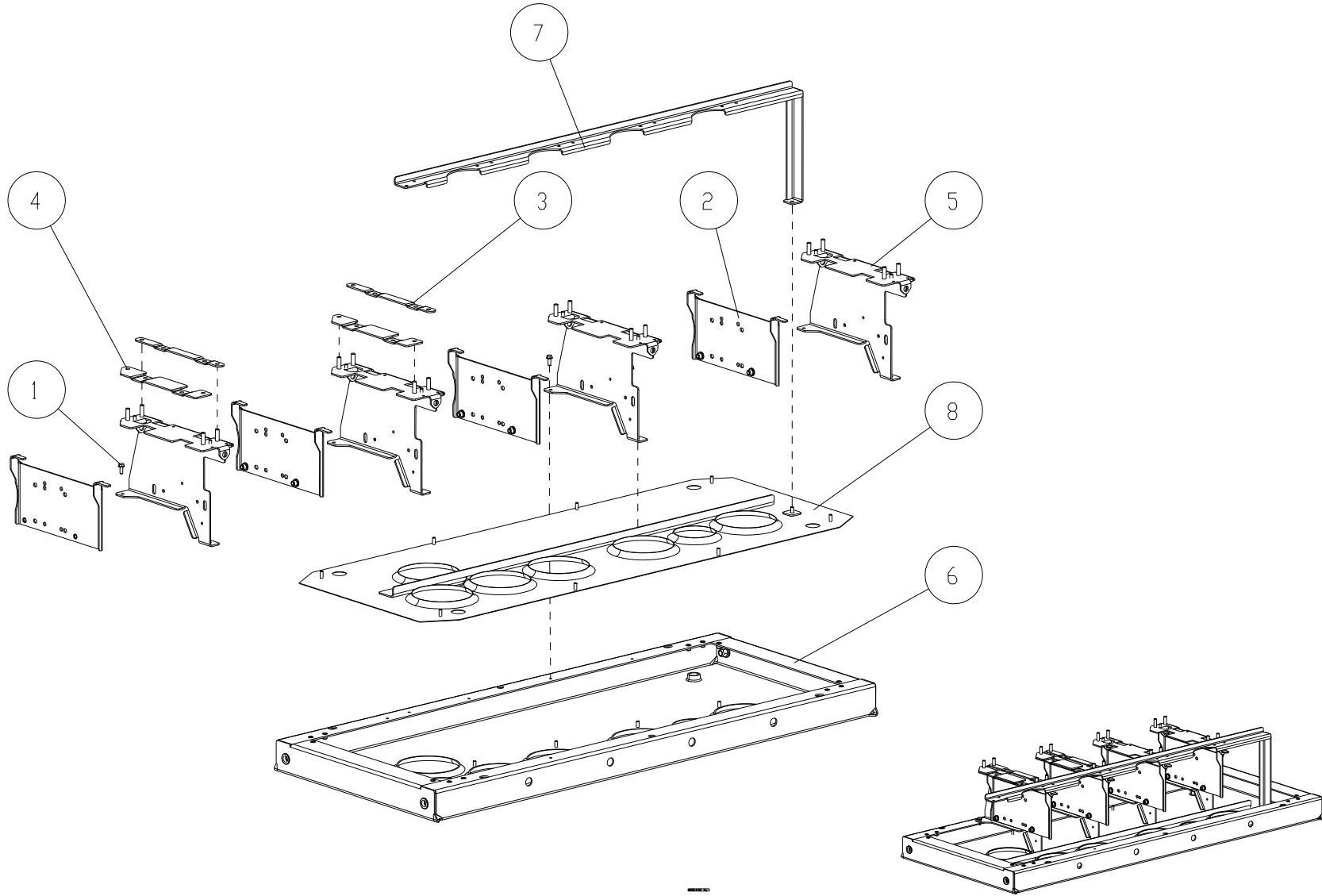


MANUFACTURED AFTER
MARCH 2013



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Wire Clip Max Entas. 19	Fixation Câble Max Bundle 19	900058-001	
3	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
4	Stiffener Bracket Long	La Parenthèse De Renfort Long	907108	
	Stiffener Bracket Short	La Parenthèse De Renfort Court	907109	
5	Leakplate Q410 ACP Asm	Plaque egoutture Q410 ACP Asm	957965	
6	Upright Crossmember	Support Verticale	940777	
7	Pump Bracket Universal	Support Pompe Universal	942174	
8	Crossmember Assy	Asm Support Transversal	942427	
9	Bracket Support VR Standard	Bracket Support VR Standard	956267	Manufactured after March 2013
10	Frame Mid Column ACP Assy	Frame Mid Column ACP Assy	949044	
11	Air Gap Cover ACP	Air Gap Cover ACP	949051	
12	Panel Column Upper Top	Panel Column Upper Top	949060	
13	Brkt Junction Box	Brkt Junction Box	950313	Manufactured before April 2013
14	Bracket Second Junction Box	Supp Deuxieme Boite Connexion	950316	Manufactured before April 2013
15	Q410 Riveted Frame Base Assy	Q410 Riveted Frame Base Assy	950736	
16	Frame Lower Column Assy	Frame Lower Column Assy	950891	
17	Brkt Lower Column Cross	Brkt Lower Column Cross	950893	
18	Brkt Pump Support End Assy	Brkt Pump Support End Assy	952152	
19	Brkt Bungee Hooks	Brkt Bungee Hooks	952250	
20	Brkt Vertical Frame	Brkt Vertical Frame	952296	Manufactured before April 2013
21	Brkt Q410 CVR Support	Brkt Q410 CVR Support	953334	
22	Q410LC Junction Box Brkt	Q410LC Junction Box Brkt	953668	Manufactured after March 2013

2.1.2 RETROFIT PARTS

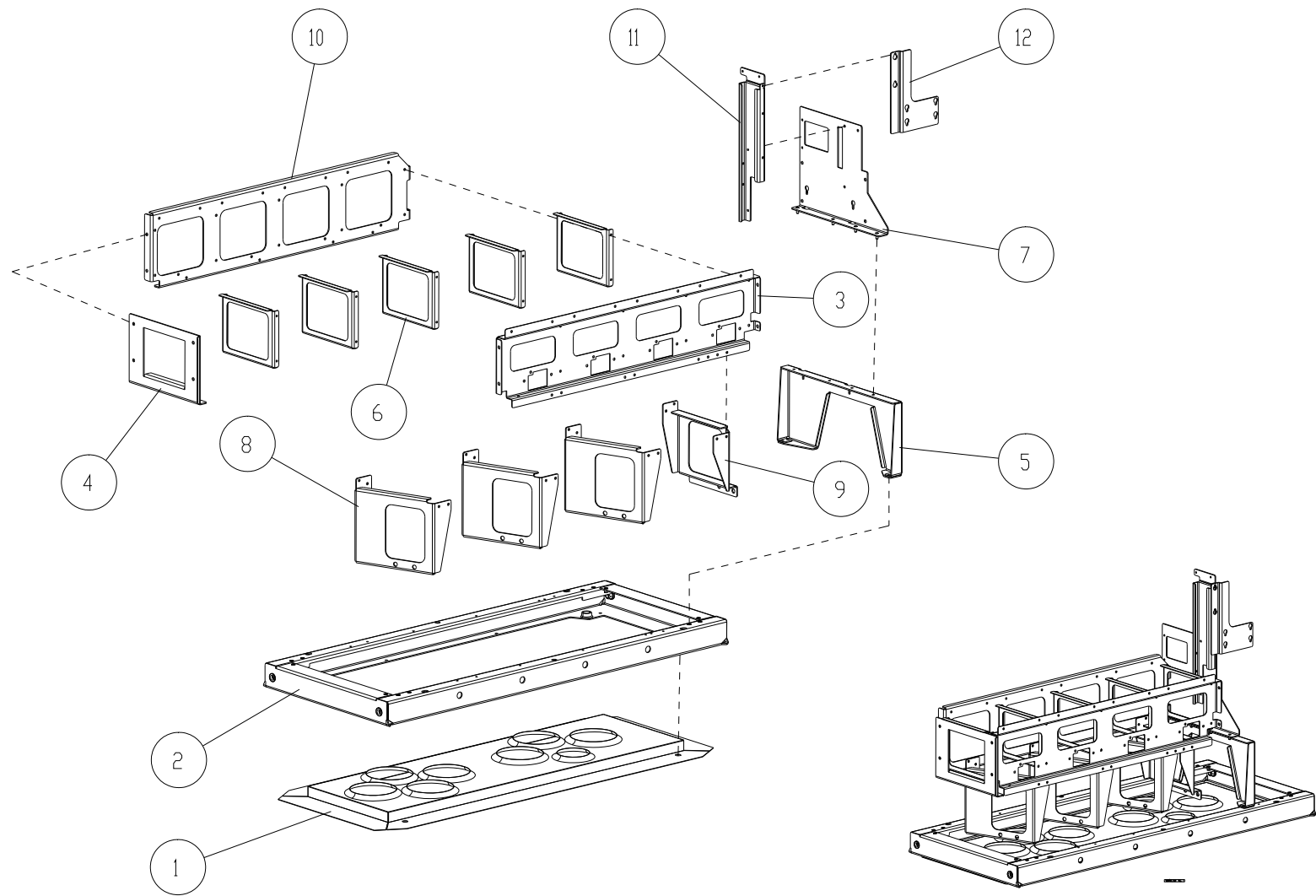


Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHTF M6x16	Vis Hex. Taraudeuse M6x16	900708-003	
2	Bracket Motor Assembly	Bracket Motor Assembly	957283	
3	Adaptor EPZ75 Uni	Adaptateur EPZ75 Uni	942178	
4	Adaptor EPZ75 Uni B	Adaptateur EPZ75 Uni B	942310	
5	Assy Brkt Pump Retro	Asm 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	



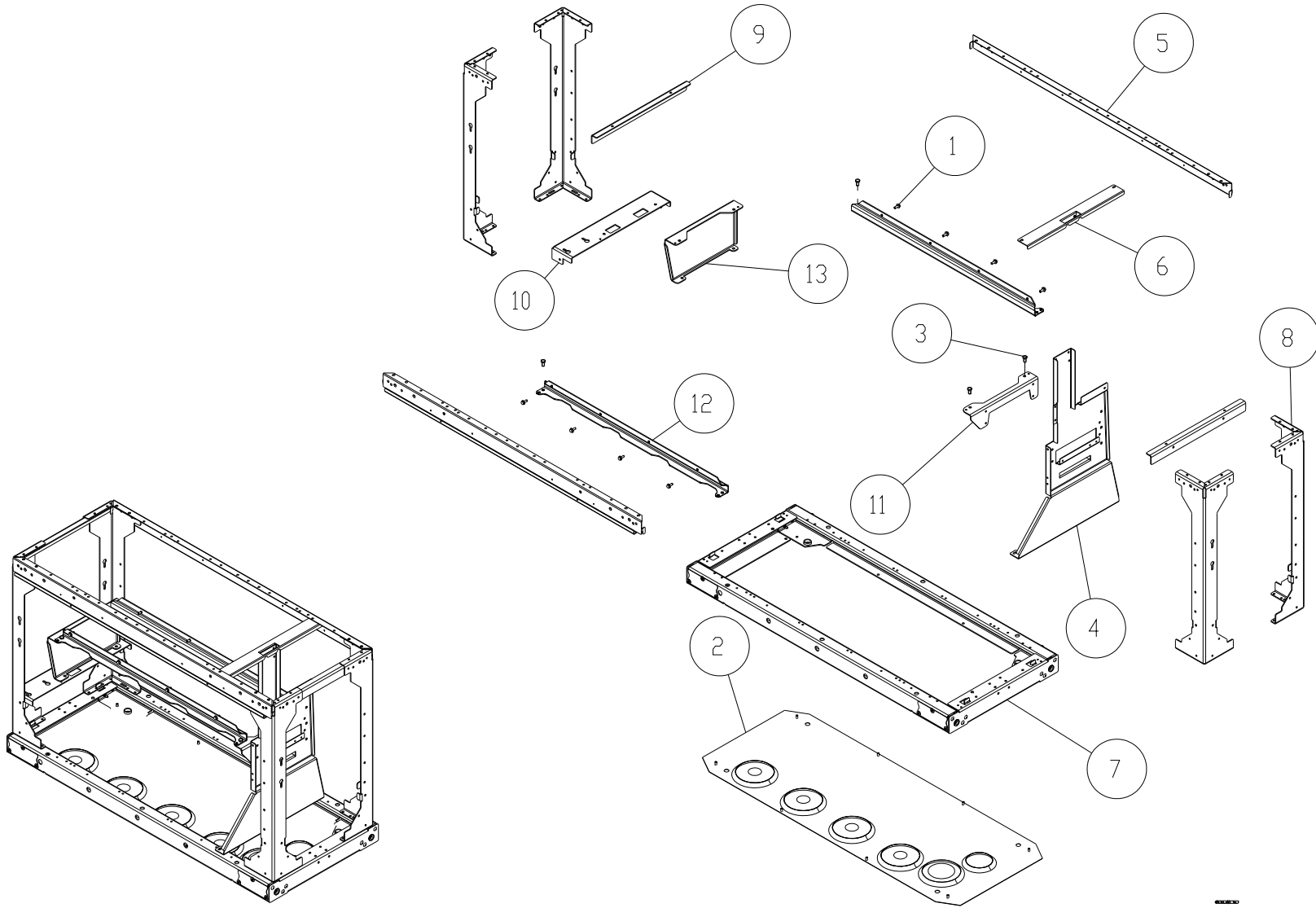
2.2 Submerged Assemblies

2.2.1 SUBMERGED ASSEMBLIES - MANUFACTURED BEFORE JULY 2013



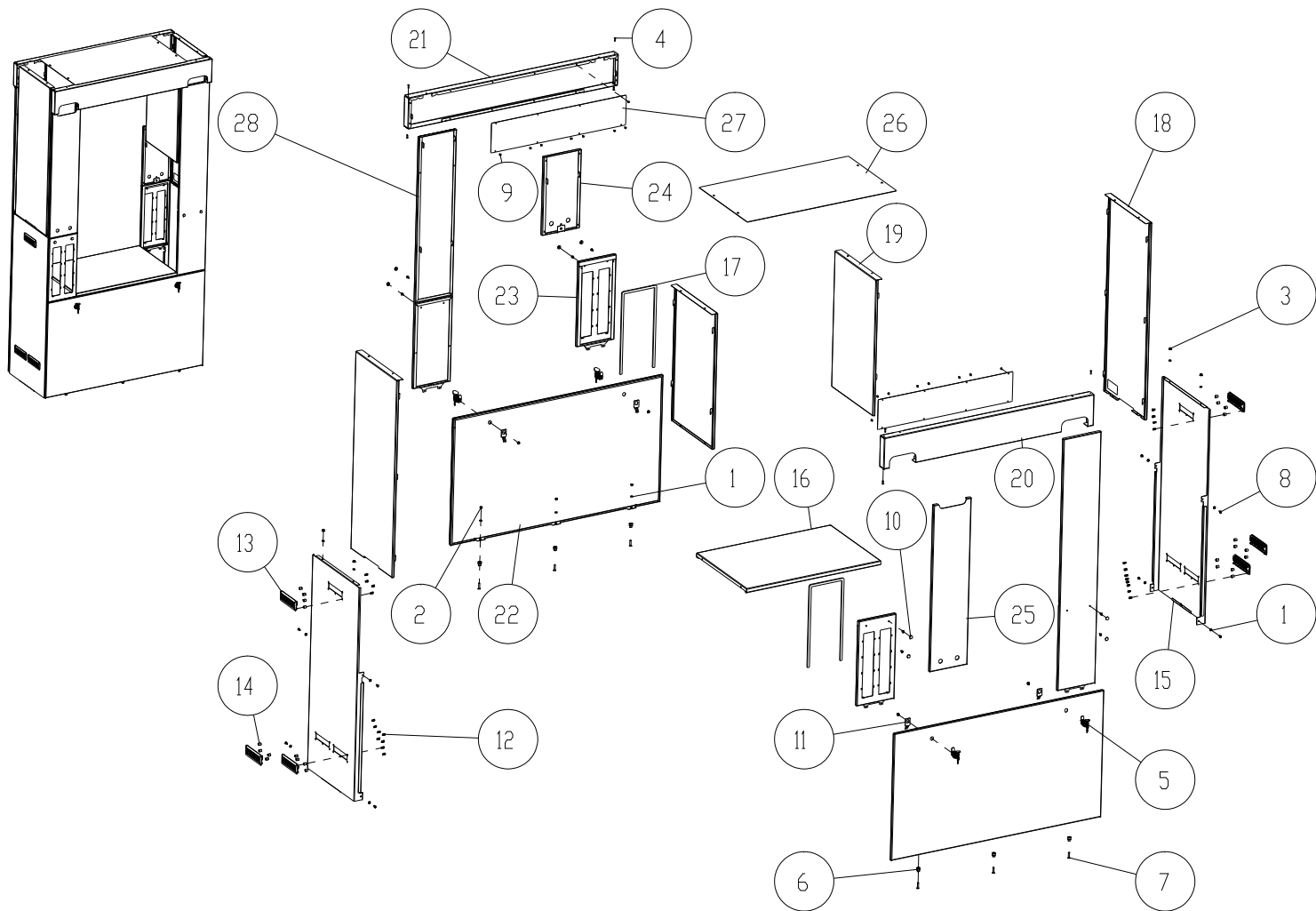
Item No	Description	Désignation Français	Part No	Comments
1	Leakage Plate	Plaque Egouttures	906058	
2	Dispenser Base Assy Uni	Asm Base de Distributeur Uni	942176	
3	Bracket Submerged Side B	Support Immergee Cote B	942418	
4	Bracket Position 1 Submerged	Support Location 1 Immergee	942428	
5	Bracket Submerged 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	

2.2.2 SUBMERGED ASSEMBLIES - MANUFACTURED AFTER JUNE 2013



Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M6x16	Vis Bride Hex Autobloq M6x16	900016-004	
2	leakage plate Assy	Asm. plat de fuite	940483	
3	Screw Nylon Shear M8 x 16	Vis nylon cisaillement M8 x 16	941002	
4	Bracket Support VR Submerged	Bracket Support VR Submerged	956268	
5	Frame Gutter Hydraulic	Frame Gutter Hydraulic	949039	
6	Upright Crossmember	Upright Crossmember	957778	
7	Q410 Riveted Frame Base Assy	Q410 Riveted Frame Base Assy	950736	
8	Frame Lower Column Assy	Frame Lower Column Assy	950891	
9	Brkt Lower Column Cross	Brkt Lower Column Cross	950893	
10	Brkt Pump Support End Assy	Brkt Pump Support End Assy	952152	
11	Adaptg plate submerge HMS side	Adaptg plate submerge HMS side	953221	
12	Collect bkt submerged Q510 2F	Collect bkt submerged Q510 2F	953225	
	Collect bkt submerged Q510 3F	Collect bkt submerged Q510 3F	953226	
	Collect bkt submerged Q510 4F	Collect bkt submerged Q510 4F	953227	
	Collect bkt submerged Q510 5F	Collect bkt submerged Q510 5F	953228	
13	Collect bkt submerged Q410	Collect bkt submerged Q410	953229	

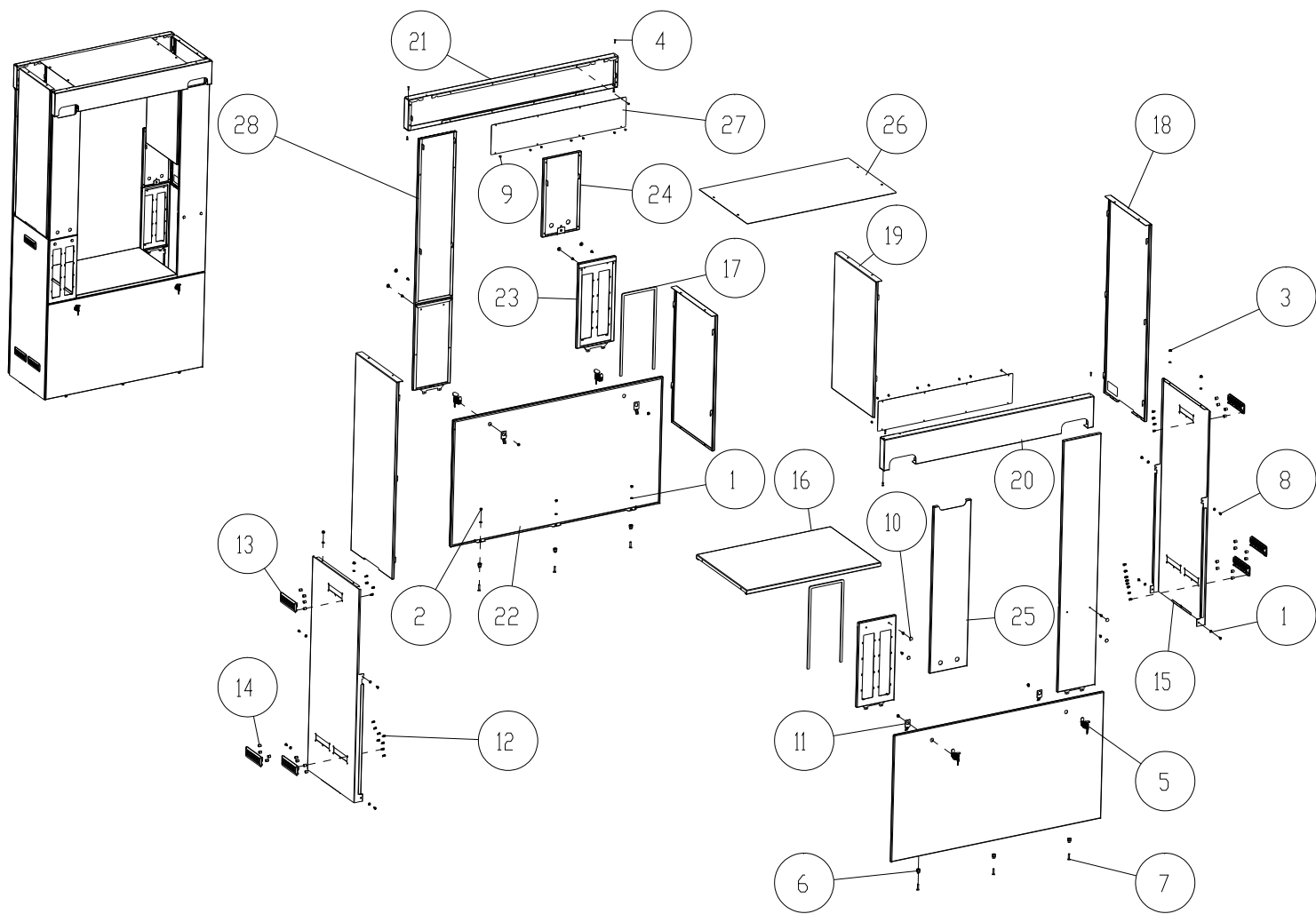
2.3 Cladding Assembly



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 M6	Ecrou Bride Autobloquant M6	900013-003	
4	Rivet Blind Domed 4.0x12.0	Rivet Pop Bomb 4.0x12.0	900025-006	
5	Cap SOUTHCO 90-2 (Cover)	Bouchon SOUTHCO 90-2 (Chapeau)	900042	
6	Adjustment Pin	Broche de Reglage	900403	
7	Screw HSC M6x30	Vis FHC M6x30	900643-014	
8	Screw HSB M6x10	Vis M6x10	900795-005	
9	D4MM L6MM NYLON RIVET	D4mm L6mm nylon rive	901560-001	
10	Snap Cap White M6	Chapeau Vis Blanc M6	903192-001	
11	Latch - cord (lock)	Butee de bequille (serrure)	952863	
12	Screw Poly 30 Posi Pan Dia 5x12	Vis Poly 30 Posi Pan Dia 5x12	940787-001	
13	Plastic Vent	Mise en atmosphere	942689	
14	Plastic Collar	Collier	942690	
15	Panel Lower End ALU Panel Lower End SS Panel Lower End ACP	Panel Lower End ALU Panel Lower End SS Panel Lower End ACP	949043 953579 953703	
16	Panel Hydraulic Top ALU Panel Hydraulic Top SS Panel hydraulic Top ACP	Panel Hydraulic Top ALU Panel Hydraulic Top SS Panel hydraulic Top ACP	949053 953582 953707	
17	Seal Panel Nozzle Boot	Seal Panel Nozzle Boot	949054	
18	Panel Upper Column Ext ALU Panel Upper Column Ext SS Panel upper Column Ext ACP	Panel Upper Column Ext ALU Panel Upper Column Ext SS Panel upper Column Ext ACP	949067 953580 953704	
19	Panel Upper Column Int ALU Panel Upper Column Int SS Panel Upper Column Int ACP	Panel Upper Column Int ALU Panel Upper Column Int SS Panel Upper Column Int ACP	949068 953581 953705	

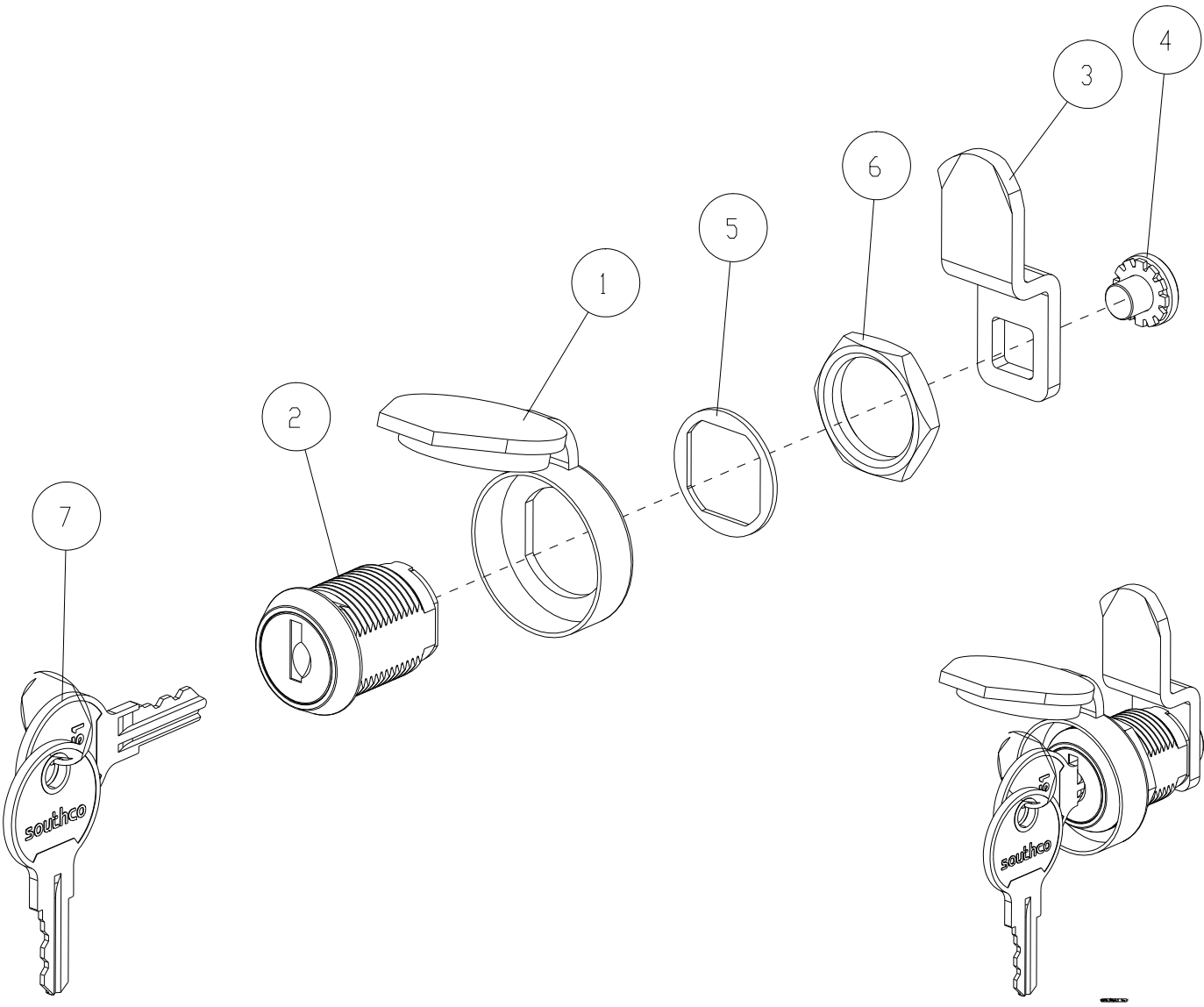
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2.3 Cladding Assembly (Cont.)



Item No	Description	Désignation Français	Part No	Comments
20	Panel Canopy HH ALU Assy	Panel Canopy HH ALU Assy	949115	
21	Panel Canopy HR ALU	Panel Canopy HR ALU	952194	
22	Door Hydraulic ALU Q410	Door Hydraulic ALU Q410	952200	
	Door Hydraulic ACP Q410	Door Hydraulic ACP Q410	953754	
23	Panel Nozzle ALU	Panel Nozzle ALU	952201	
24	Panel Upper PB HR ALU	Panel Upper PB HR ALU	952213	Push Button
	Panel Upper HR ALU	Panel Upper HR ALU	952211	Standard
25	Panel Upper PB HH ALU	Panel Upper PB HH ALU	952217	Push Button
	Panel Upper HH ALU	Panel Upper HH ALU	951042	Standard
26	Panel Canopy Top ALU	Panel Canopy Top ALU	952303	
27	Panel Canopy Back ALU	Panel Canopy Back ALU	952469	
28	Panel Upper Blind ALU Assy	Panel Upper Blind ALU Assy	952507	

2.4 Lock Assembly



Item No	Description	Désignation Français	Part No	Comments
1	Cap SOUTHCO 90-2 (Cover)	Bouchon SOUTHCO 90-2 (Chapeau)	900042	
2	Lock Barrel - Standard (Southco)	Serrure de Porte - Norme	949200	
3	Lock Cam Calc Door	Came de Serrure	949202	Calculator Door
	Lock Cam DIT Door	Came de Serrure	949203	DIT Door
	Lock Cam Hyd Door	Came de Serrure	949204	Hydraulic Door
4	Screw - Captive Flange (Southco)	Vis - Came Serrure Southco	949522	
5	Washer - Sealing Southco Lock	Rondelle - Serrure de Southco	949523	
6	Nut - Hex 3/4" (Southco)	Ecrou - Hex 3/4" (Southco)	949524	
7	Keys - Standard Lock	Clefs - Serrure Standard	949562	



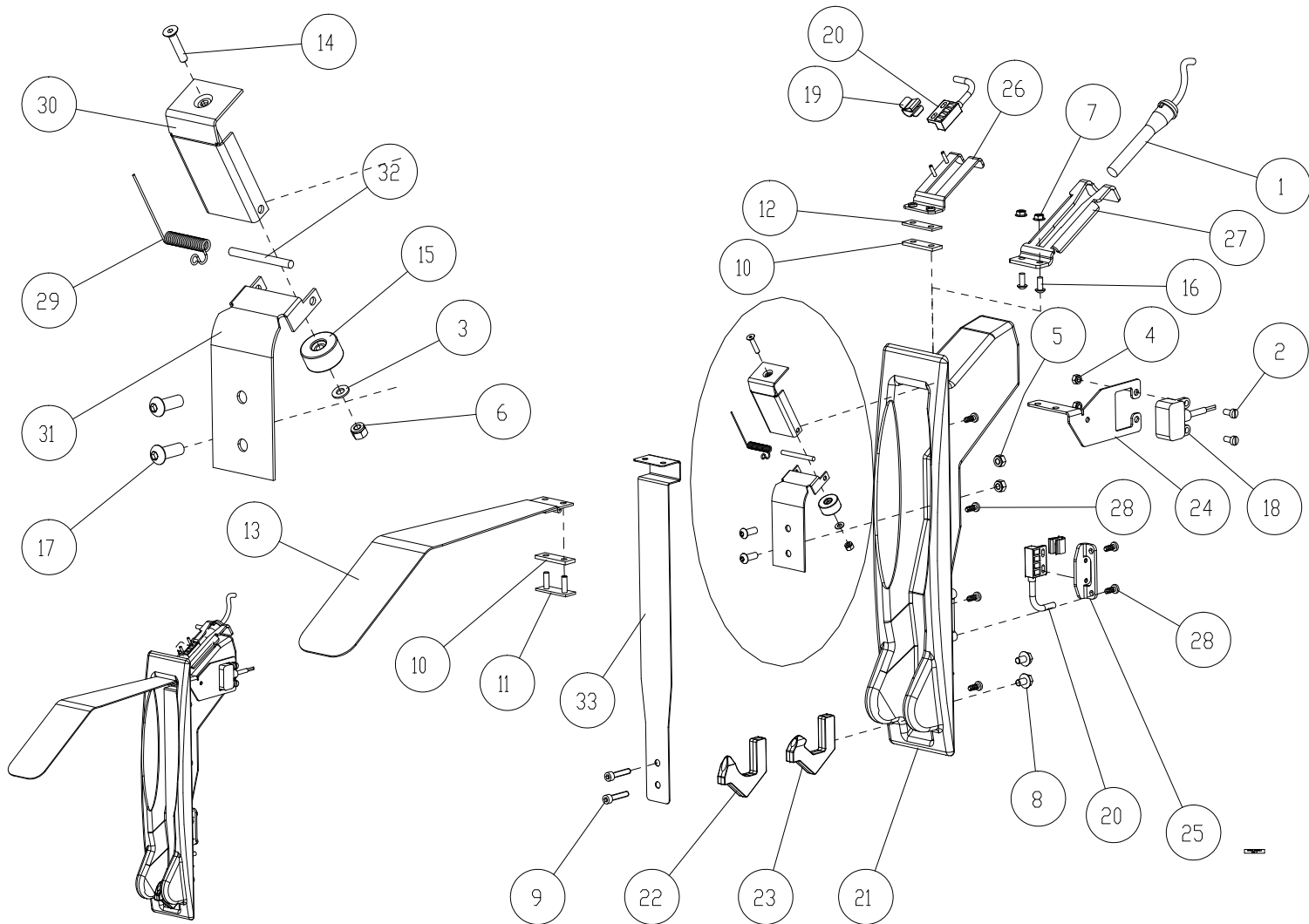
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3 HOSE MANAGEMENT

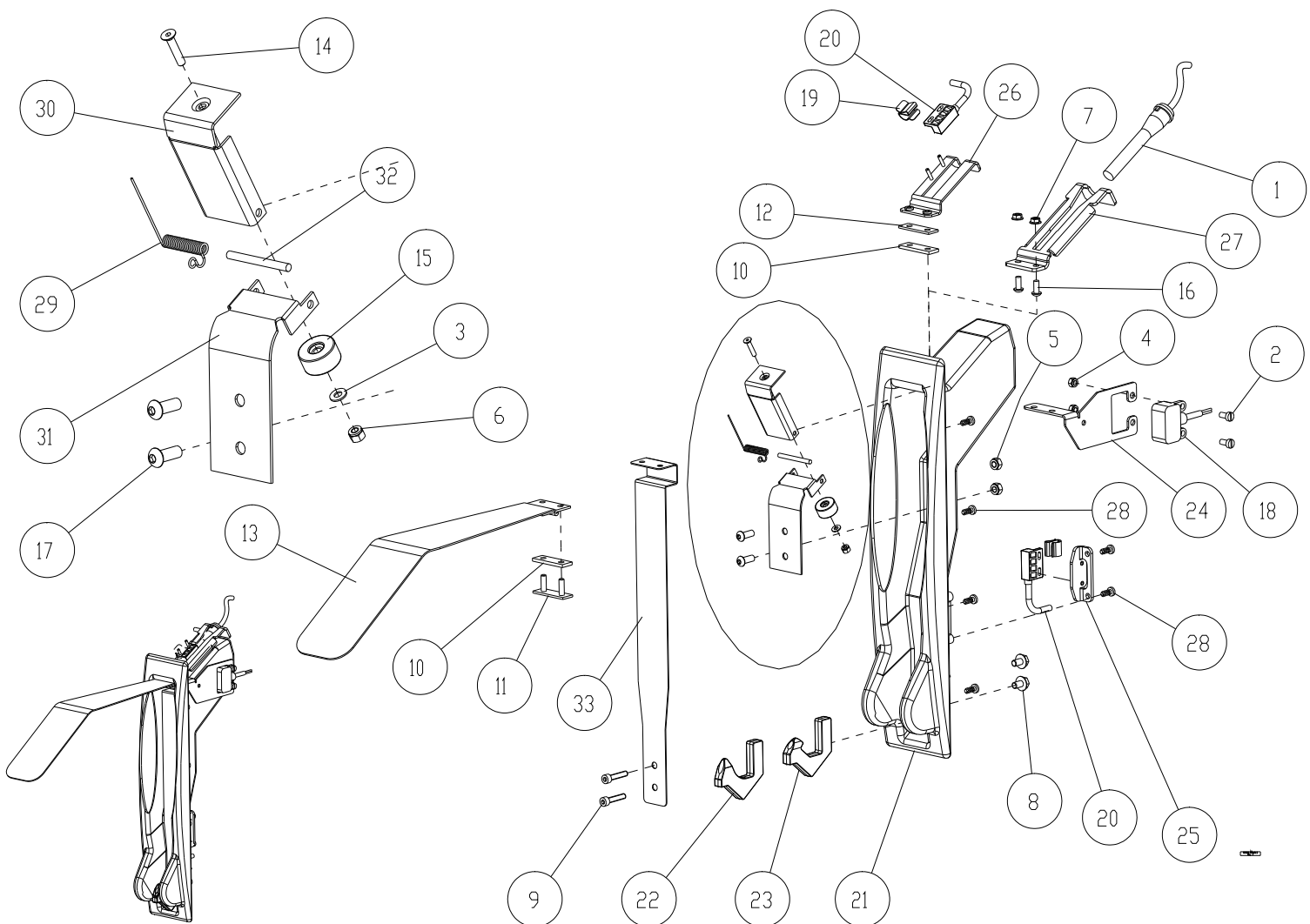
3.1 Plastic Nozzle Boot



Item No	Description	Désignation Français	Part No	Comments
1	Nozzle Switch EEXD EECS Cert.	Contacteur EEXD EECS Cert.	5506000001	
2	Screw SCH M5x10	Vis CS M5x10	900007-004	
3	Washer PI M4	Rondelle PI M4	900008-009	
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	Screw HSHC M5x25	Vis CHC M5x25	900017-010	
10	Gasket Prod. Ind. Flap	Joint Etanch Prod Ind. Volet	900375	
11	Fixing Plate Prod. Ind. Flap	Plaque Fix Prod Ind Volet	900376	
12	Plate Prod. Ind. Flap	Plaque Supp. Prod Ind Volet	900377	
13	Prod Ind Flap Cpl.	Volet Prod Inf Cpl.	900379	
14	Screw HSC M4 x 20	Vis FHC M4 x 20	900643-011	
15	Magnet 20X4,4X10	Aimant 20X4,4X10	900757-001	
16	Screw HSB M5x12	Vis CBHC M5x12	900795-001	
17	Screw HSB M6x16	Vis M6x16	900795-002	
18	Sensor Housing SATAM 230V	Capteur type SATAM 230V	904846	
19	Reed Switch Spring Clip	Ressort Fixation	907666	
20	Magnetic Proximity Switch Gen	Contact Magnetiq.de Proximité Gen	908172-001	
21	Nozzle Boot Slim	Buse Mince	909090	
22	Nozzle Boot Hook OPW	Crochet de bec OPW	940471	
23	Nozzle Boot Hook Secure	Cochet de bec Bloqué	950983	
24	Bracket Switch 230V	Support Commutateur 230V	940779	
25	Assy Bracket Lower Reed Switch	Asm Support Commutateur Inférieur	940780	

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3.1 Plastic Nozzle Boot (Cont.)

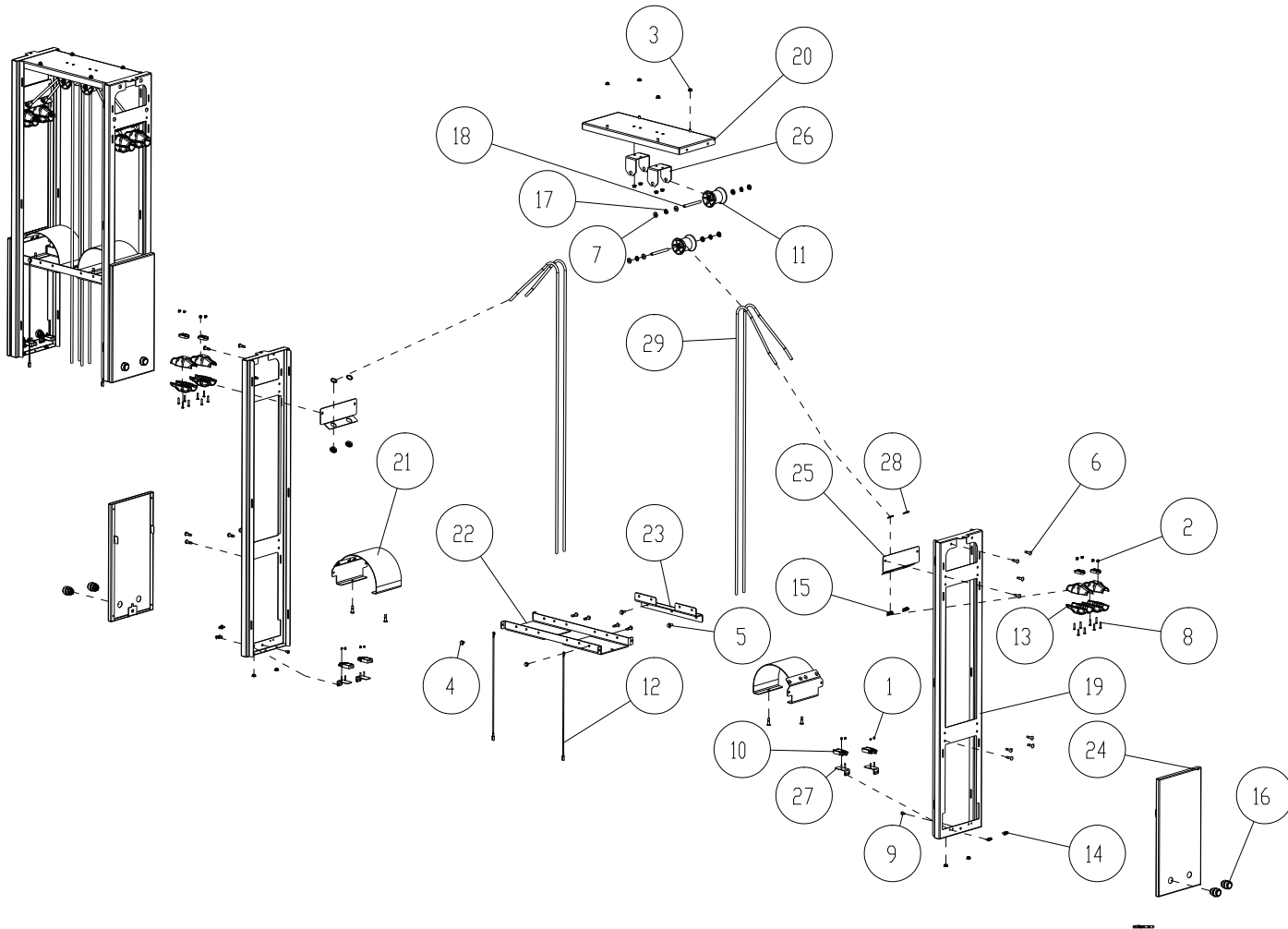


Item No	Description	Désignation Français	Part No	Comments
26	Assy Bracket Upper Reed Switch	Asm Support Commutateur Supérieur	940782	
27	Bracket Large Reed Switch	Support Grand Commutateur	940785	
28	Screw Poly 30 Posi Pan Dia 5x12	Vis Poly 30 Posi Pan Dia 5x12	940787-001	
29	Spring	Resort	942185	
30	Switch Plate	Support Commutateur	942186	
31	Bracket Switch Mechanism	Support Mécanisme Commutateur	942187	
32	Pin	Goupille	942188	
33	Nozzle Boot Blanking Sheet	Feuille Masquante NNB	942417	



3.2 Hose Management Systems

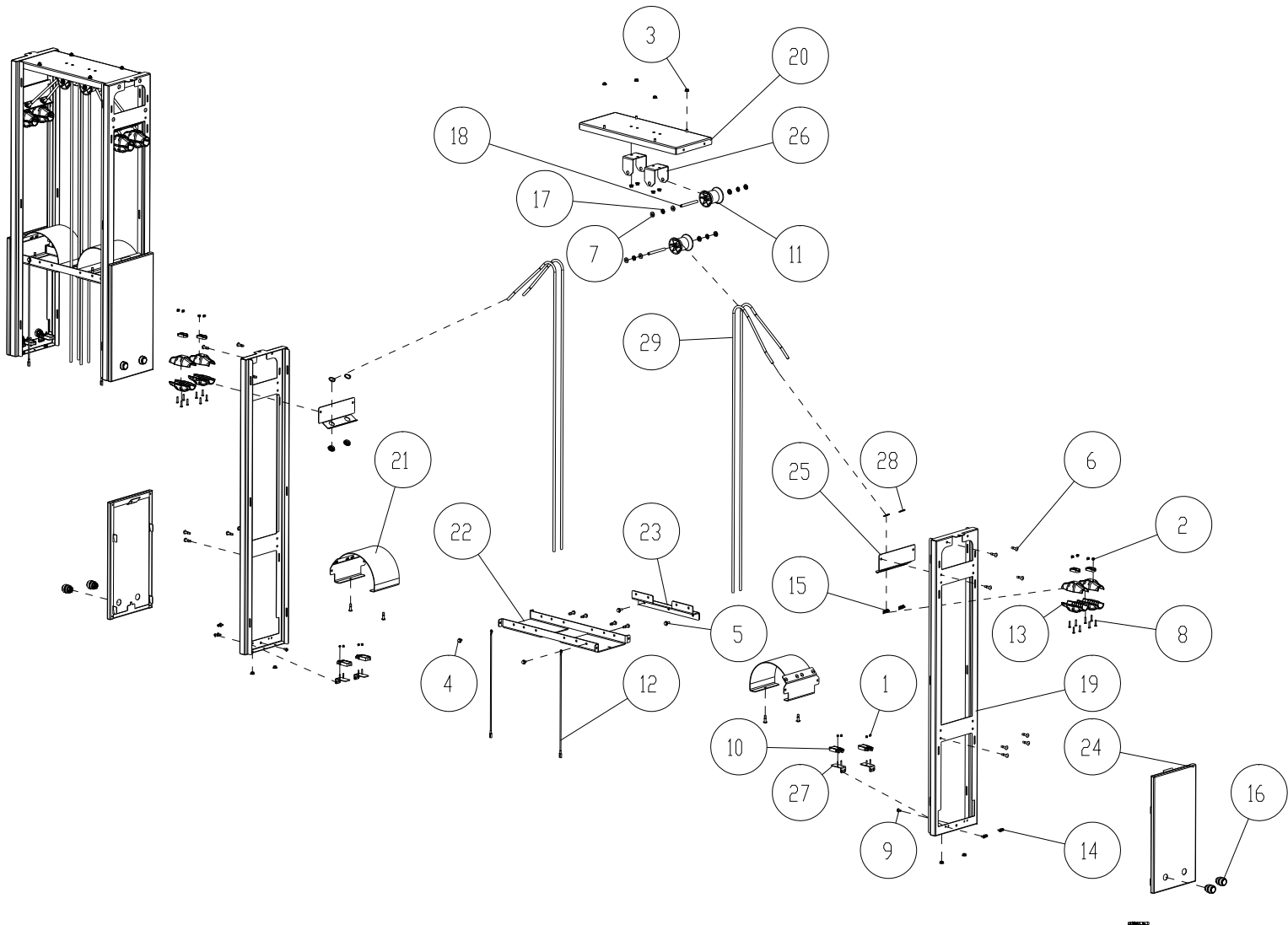
3.2.1 HOSE RETRACTION



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
2	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
5	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
6	Rivet Blind Domed 6.5x14.8	Rivet Pop Bomb 6.5x14.8	900025-005	
7	Insulation Sleeve 8.2 mm	Manchon Isolant 8.2 mm	900758-003	
8	Screw HSB M4x20	Vis M4x20	900795-004	
9	Screw HSB M6x10	Vis M6x10	900795-005	
10	MICROSWITCH	MICRORUPTEUR INVERSEUR	902503-001	
11	Small HMS Wheel (moulded)	Petit HMS Roue (moule)	902948	
12	Earth cable for Hyd door L=400	Câble masse porte Hyd L=400	905930-002	
13	Hose Clamp Assy VR	Hose Clamp Assy VR	953389	
	Hose Clamp Assy	Hose Clamp Assy	953390	
14	Screw Hex Head Combi M4x10	Vis Hex Head Combi M4x10	946630-001	
15	Bungee Guide	Bungee Guide	948221	Used with 952278 only
	Bungee Guide	Bungee Guide	957983	Used with 954494 only
16	Metal Push Button Black	Bouton poussoir noir	948560-001	
17	Push On Nut OD8	Push On Nut OD8	949038-001	
18	Shaft HR Roller 85mm	Shaft HR Roller 85mm	949049	
19	Frame Column Upper ACP	Frame Column Upper ACP	949058	
20	Panel Column Upper Top Assy ACP	Panneau Dessus Colonne Sup Asm ACP	957961	
21	Plate Hose Guide	Plate Hose Guide	949062	
22	Frame Hose Support	Frame Hose Support	949064	
23	Brkt Column Calc	Brkt Column Calc	949070	

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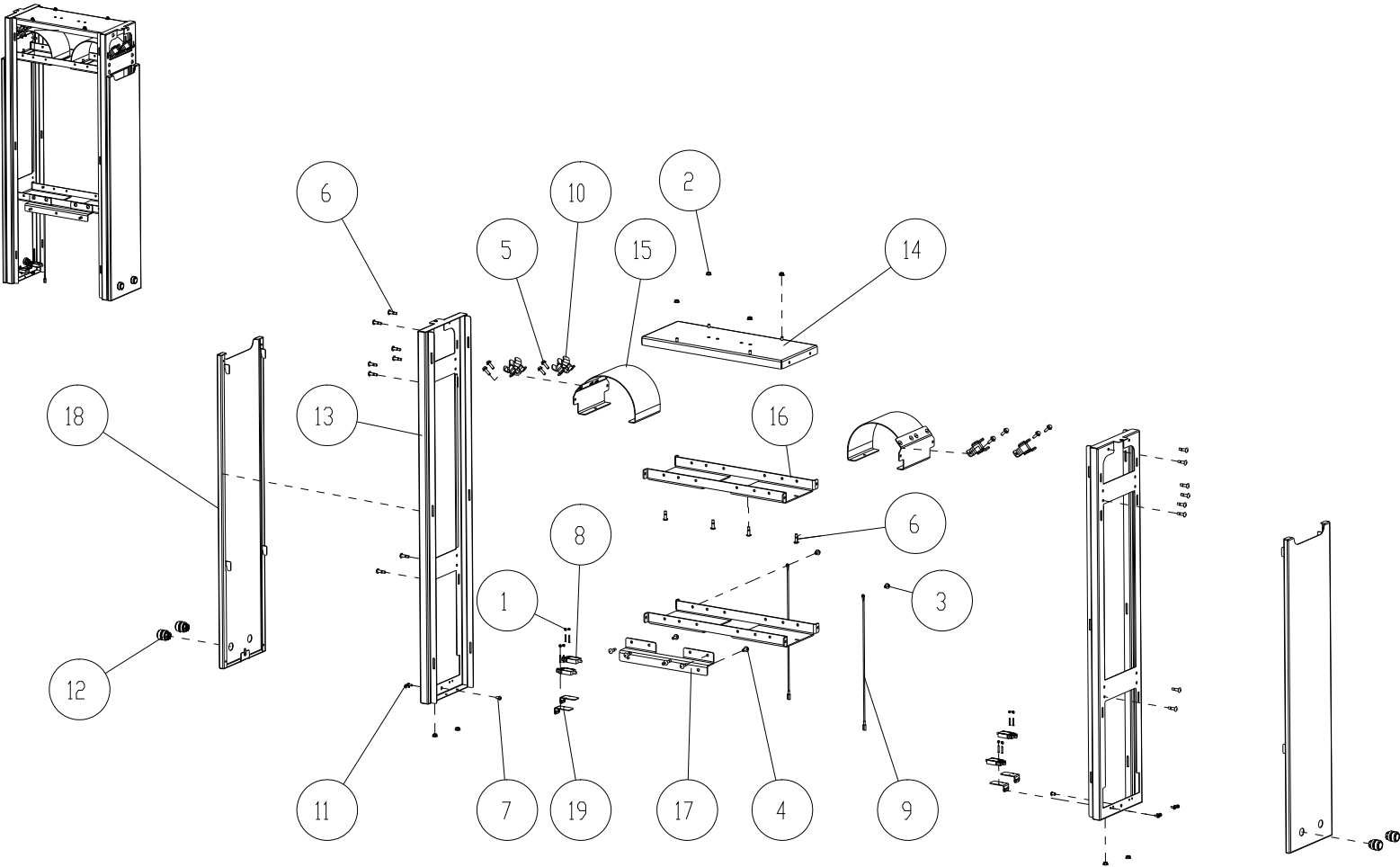
3.2.1 HOSE RETRACTION (CONT.)



Item No	Description	Désignation Français	Part No	Comments
24	Panel Upper PB HR ALU	Panel Upper PB HR ALU	-	Refer to Cladding asm
25	Brkt Bungee HR ACP	Brkt Bungee HR ACP	952215	
26	Brkt Roller HR	Brkt Roller HR	952216	
27	Brkt 40-80 Button Assy	Brkt 40-80 Button Assy	952239	
28	Circlip Ext OD20	Circlip Ext OD20	952277-001	
29	Bungee 1m	Bungee 1m	952278	Used with 948221 only
	BUNGEE OD9.5 1 METRE	BUNGEE OD9.5 1 METRE	954494	Used with 957983 only



3.2.2 HANGING HOSE



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	Screw HFHSL M6x10	Vis Hex Br Autobl M6x10	900016-003	
4	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
5	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
6	Rivet Blind Domed 6.5x14.8	Rivet Pop Bomb 6.5x14.8	900025-005	
7	Screw HSB M6x10	Vis M6x10	900795-005	
8	MICROSWITCH	MICRORUPTEUR INVERSEUR	902503-001	
9	Earth cable for Hyd door L=400	Câble masse porte Hyd L=400	905930-002	
10	Q410 HH Hose Clamp	Q410 HH Hose Clamp	946355	
11	Screw Hex Head Combi M4x10	Vis Hex Head Combi M4x10	946630-001	
12	Metal Push Button Black	Bouton poussoir noir	948560-001	
13	Frame Column Upper ACP	Frame Column Upper ACP	949058	
14	Panel Column Upper Top Assy	Panel Column Upper Top Assy	949059	
15	Plate Hose Guide	Plate Hose Guide	949062	
16	Frame Hose Support	Frame Hose Support	949064	
17	Brkt Column Calc	Brkt Column Calc	949070	
18	Panel Upper PB HH ALU	Panel Upper PB HH ALU	-	Refer to Cladding asm
19	Brkt 40-80 Button Assy	Brkt 40-80 Button Assy	952239	

3.3 Hoses



3.3.1 HOSE RETRACTION

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
901103-272	black	16mm	410cm	goodyear	standard lattice	none	1" BSP FE brass/chrome	1" BSP FE brass/chrome	Goodyear	standard

3.3.2 STANDARD HANGING HOSE

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
901103-240	black	16	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-241	black	16	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp
901103-242	black	16	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-243	black	21	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-244	black	21	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp
901103-245	black	21	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-246	black	21	460cm	VR	none	standard lattice	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	standard
901103-247	black	21	460cm	VR	none	standard lattice	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	Low Temp
901103-248	black	25	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-249	black	25	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-271	black	25	460cm	slimline	none	standard lattice	1" BSP FE Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp

(CONT.)

3.3.3 HANGING HOSE WITH HIGH HOSE BREAKS

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
901103-089	black	16	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-250	black	16	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	standard
901103-096	black	16	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp
901103-251	black	16	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Low Temp
901103-098	black	16	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-252	black	16	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Bio Diesel
901103-260	black	25	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-258	black	25	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	standard
901103-261	black	25	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-259	black	25	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Bio Diesel
901103-264	black	21	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	standard
901103-253	black	21	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	standard
901103-265	black	21	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp
901103-254	black	21	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Low Temp
901103-266	black	21	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Bio Diesel
901103-255	black	21	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Bio Diesel
901103-267	black	21	280cm	VR	none	standard lattice	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	standard
901103-256	black	21	170cm	VR	none	none	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	standard

(CONT.)

3.3.3 HANGING HOSE WITH HIGH HOSE BREAKS (CONT.)

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
901103-268	black	21	280cm	VR	none	standard lattice	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	Low Temp
901103-257	black	21	170cm	VR	none	none	M34x1.5 VR zamac	M34x1.5 VR zamac	Elaflex	Low Temp
901103-270	black	25	280cm	slimline	none	standard lattice	1" BSP MA Brass/Chrome	1" BSP FE Brass/Chrome	Elaflex	Low Temp
901103-269	black	25	170cm	slimline	none	none	1" BSP FE Brass/Chrome	1" BSP MA Brass/Chrome	Elaflex	Low Temp

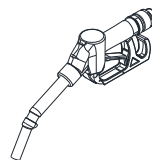
3.3.4 HOSE EXTRAS- BREAKAWAYS (FOR HANGING HOSE WITH HIGH HOSE BREAKS)

Part No	Description	Comments
906231	Breakaway OPW M34 F-F	Standard
902936	Breakaway OPW VR M34 F-F	VR Hoses Only



3.4 Nozzles

3.4.1 ELAFLEX ZVA2S NOZZLES (SECURE)



Part No	Speed (l/min)	Fuel	VR	Coupling	Break	Grip EK038	Scuffguard EK044	Product Ind. Sleeve EK043	Special
945126-046	40	unleaded	none	1" male	none	Black	Black	Black	
945126-047	40	unleaded	none	1" male	non-reusable	Black	Black	Black	
945126-048	40	unleaded	none	1" male	reusable	Black	Black	Black	
945126-049	40	leaded/diesel	none	1" male	none	Black	Black	Black	
945126-050	40	leaded/diesel	none	1" male	non-reusable	Black	Black	Black	
945126-051	40	leaded/diesel	none	1" male	reusable	Black	Black	Black	
945126-052	80	unleaded	none	1" male	none	Black	Black	Black	
945126-053	80	unleaded	none	1" male	non-reusable	Black	Black	Black	
945126-054	80	unleaded	none	1" male	reusable	Black	Black	Black	
945126-055	80	leaded/diesel	none	1" male	none	Black	Black	Black	
945126-056	80	leaded/diesel	none	1" male	non-reusable	Black	Black	Black	
945126-057	80	leaded/diesel	none	1" male	reusable	Black	Black	Black	
945126-058	40	diesel	none	1" male	none	Black	Black	Black	Dripstop
945126-059	40	diesel	none	1" male	non-reusable	Black	Black	Black	Dripstop
945126-060	40	diesel	none	1" male	reusable	Black	Black	Black	Dripstop
945126-061	40	diesel	none	1" male	none	Black	Black	Black	Dripstop, 5L/Min on Nozzle (UK only)
945126-062	40	diesel	none	1" male	non-reusable	Black	Black	Black	Dripstop, 5L/Min on Nozzle (UK only)
945126-063	40	diesel	none	1" male	reusable	Black	Black	Black	Dripstop, 5L/Min on Nozzle (UK only)
945126-064	40	leaded	non-GRVP	1" male	none	Black	Green	Green	On/Off vapour valve
945126-065	40	unleaded	non-GRVP	1" male	none	Black	Green	Green	On/Off vapour valve
945126-066	40	unleaded	none	1" male	none	Light Blue	Light Blue	Light Blue	
945126-067	40	unleaded	none	1" male	non-reusable	Light Blue	Light Blue	Light Blue	
945126-068	40	unleaded	none	1" male	reusable	Light Blue	Light Blue	Light Blue	

(CONT.)

3.4.1 ELAFLEX ZVA2S NOZZLES (SECURE) CONT.

Part No	Speed (l/min)	Fuel	VR	Coupling	Break	Grip EK038	Scuffguard EK044	Product Ind.Sleeve EK043	Special
945126-069	40	leaded/diesel	none	1" male	none	Dark Blue	Dark Blue	Dark Blue	
945126-070	40	leaded/diesel	none	1" male	non-reusable	Dark Blue	Dark Blue	Dark Blue	
945126-071	40	leaded/diesel	none	1" male	reusable	Dark Blue	Dark Blue	Dark Blue	
945126-072	80	unleaded	none	1" male	none	Light Blue	Light Blue	Light Blue	
945126-073	80	unleaded	none	1" male	non-reusable	Light Blue	Light Blue	Light Blue	
945126-074	80	unleaded	none	1" male	reusable	Light Blue	Light Blue	Light Blue	
945126-075	80	leaded/diesel	none	1" male	none	Dark Blue	Dark Blue	Dark Blue	
945126-076	80	leaded/diesel	none	1" male	non-reusable	Dark Blue	Dark Blue	Dark Blue	
945126-077	80	leaded/diesel	none	1" male	reusable	Dark Blue	Dark Blue	Dark Blue	
945126-078	40	unleaded	non-GRVP	1" male	none	Light Blue	Light Blue	Light Blue	No vapour valve
945126-079	40	unleaded	non-GRVP	1" male	none	Light Blue	Light Blue	Light Blue	On/Off vapour valve
945126-080	40	diesel	none	1" male	none	Dark Blue	Dark Blue	Dark Blue	Dripstop
945126-081	40	diesel	none	1" male	non-reusable	Dark Blue	Dark Blue	Dark Blue	Dripstop
945126-082	40	diesel	none	1" male	reusable	Dark Blue	Dark Blue	Dark Blue	Dripstop
945126-083	40	diesel	none	1" male	none	Dark Blue	Dark Blue	Dark Blue	Dripstop, 5L/Min on Nozzle (UK only)
945126-084	40	diesel	none	1" male	non-reusable	Dark Blue	Dark Blue	Dark Blue	Dripstop, 5L/Min on Nozzle (UK only)
945126-085	40	diesel	none	1" male	reusable	Dark Blue	Dark Blue	Dark Blue	Dripstop, 5L/Min on Nozzle (UK only)

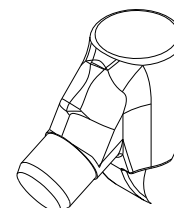
3.4.2 OPW NOZZLES

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



3.5 Nozzle Extras

3.5.1 NOZZLE COVERS



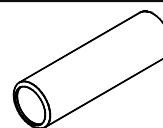
Elaflex Nozzle Covers

Part No	Description	Désignation Français
945127-001	ZVA2 Scuffguard EK044 Black	ZVA2 Garde d'Usure EK044 Noir
945127-002	ZVA2 Scuffguard EK044 Blue	ZVA2 Garde d'Usure EK044 Bleu
945127-003	ZVA2 Scuffguard EK044 Dark Blue	ZVA2 Garde d'Usure EK044 Bleu-Foncé
945127-004	ZVA2 Scuffguard EK044 Green	ZVA2 Garde d'Usure EK044 Vert
945127-005	ZVA2 Scuffguard EK044 Light Green	ZVA2 Garde d'Usure EK044 Vert-Clair
945127-006	ZVA2 Scuffguard EK044 Light Blue	ZVA2 Garde d'Usure EK044 Bleu-Clair
945127-007	ZVA2 Scuffguard EK044 Orange	ZVA2 Garde d'Usure EK044 Orange
945127-008	ZVA2 Scuffguard EK044 Red	ZVA2 Garde d'Usure EK044 Rouge
945127-009	ZVA2 Scuffguard EK044 Silver/Grey	ZVA2 Garde d'Usure EK044 Argent/Gris
945127-010	ZVA2 Scuffguard EK044 White	ZVA2 Garde d'Usure EK044 Blanc
945127-011	ZVA2 Scuffguard EK044 Yellow	ZVA2 Garde d'Usure EK044 Jaune
945127-012	ZVA2 Scuffguard EK044 Cyan	ZVA2 Garde d'Usure EK044 Cyan
945127-013	ZVA2 Scuffguard EK044 Gold	ZVA2 Garde d'Usure EK044 Or

OPW Nozzle Covers

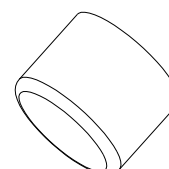
Part No	Description	Désignation Français
901853-001	Nozzle Cover OPW/19/Hole/Yellow	Protecteur de Buse OPW/19/Hole/Jaune
901853-002	Nozzle Cover OPW/19/Hole/Green	Protecteur de Buse OPW/19/Hole/Vert
901853-003	Nozzle Cover OPW/19/Hole/Red	Protecteur de Buse OPW/19/Hole/Rouge
901853-004	Nozzle Cover OPW/19/Hole/Blue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

3.5.2 SLEEVES

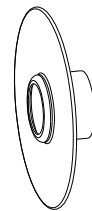


Part No	Description	Désignation Français
909295-001	Sleeve CS16 Red	Gaine Flex. CS16 Rouge
909295-002	Sleeve CS16 Green	Gaine Flex. CS16 Verte
909295-003	Sleeve CS16 Blue	Gaine Flex. CS16 Bleue
909295-004	Sleeve CS16 Yellow	Gaine Flex. CS16 Jaune
909295-005	Sleeve CS16 Black	Gaine Flex. CS16 Noire
909295-006	Sleeve CS21 Red	Gaine Flex. Coax. CS21 R.V. Rouge
909295-007	Sleeve CS21 Green	Gaine Flex. Coax. CS21 R.V. Verte
909295-008	Sleeve CS21 Blue	Gaine Flex. Coax. CS21 R.V. Bleue
909295-009	Sleeve CS21 Black	Gaine Flex. Coax. CS21 R.V. Noire
909295-010	Sleeve CS21 Yellow	Gaine Flex. Coax. CS21 R.V. Jaune
909295-011	Sleeve CS16 Orange	Gaine Flex. CS16 R.V. Orange
909295-012	Sleeve CS21 Orange	Gaine Flex. Coax. CS21 R.V. Orange
909295-013	Sleeve CS16 White	Gaine Flex. CS16 Blanc
909295-014	Sleeve CS21 White	Gaine Flex. Coax. CS21 R.V. Blanc
909295-015	Sleeve CS16 Dark Blue BP	Gaine Flex. CS16 Bleu-Foncé BP
909295-016	Sleeve CS16 Light Blue BP	Gaine Flex. CS16 Bleu-Clair BP
909295-017	Sleeve CS21 Dark Blue BP	Gaine Flex. CS21 Bleu-Foncé BP
909295-018	Sleeve CS21 Light Blue BP	Gaine Flex. CS21 Bleu-Clair BP
909295-019	Sleeve CS16 Cyan ESSO	Gaine Flex. CS16 Cyan ESSO
909295-020	Sleeve CS21 Cyan ESSO	Gaine Flex. CS21 Cyan ESSO
909295-021	Sleeve CS16 Light Green	Gaine Flex. CS16 Vert-Clair
909295-022	Sleeve CS21 Light Green	Gaine Flex. CS21 Vert-Clair
909295-023	Sleeve CS16 Gold	Gaine Flex. CS16 Or
909295-024	Sleeve CS21 Gold	Gaine Flex. CS21 Or

3.5.3 ZVA2 PRODUCT INDICATION SLEEVE



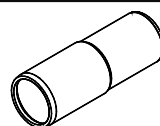
Part No	Description	Désignation Français
945128-001	Prod. Ind. Sleeve EK043 Black	Douille d'Ind. De Produit EK043 Noir
945128-002	Prod. Ind. Sleeve EK043 Blue	Douille d'Ind. De Produit EK043 Bleu
945128-003	Prod. Ind. Sleeve EK043 Dark Blue	Douille d'Ind. De Produit EK043 Bleu-Foncé
945128-004	Prod. Ind. Sleeve EK043 Green	Douille d'Ind. De Produit EK043 Vert
945128-005	Prod. Ind. Sleeve EK043 Light Green	Douille d'Ind. De Produit EK043 Vert-Clair
945128-006	Prod. Ind. Sleeve EK043 Light Blue	Douille d'Ind. De Produit EK043 Bleu-Clair
945128-007	Prod. Ind. Sleeve EK043 Orange	Douille d'Ind. De Produit EK043 Orange
945128-008	Prod. Ind. Sleeve EK043 Red	Douille d'Ind. De Produit EK043 Rouge
945128-009	Prod. Ind. Sleeve EK043 Silver/Grey	Douille d'Ind. De Produit EK043 Argent/Gris
945128-010	Prod. Ind. Sleeve EK043 White	Douille d'Ind. De Produit EK043 Blanc
945128-011	Prod. Ind. Sleeve EK043 Yellow	Douille d'Ind. De Produit EK043 Jaune
945128-012	Prod. Ind. Sleeve EK043 Cyan	Douille d'Ind. De Produit EK043 Cyan
945128-013	Prod. Ind. Sleeve EK043 Gold	Douille d'Ind. De Produit EK043 Or



3.5.4 ZVA2 SPLASHGUARDS

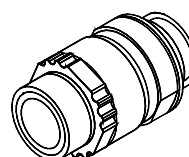
Part No	Description	Désignation Français
945129-001	ZVA2 Splashguard SG652 Black	ZVA2 Garde d'Eclaboussure SG652 Noir
945129-002	ZVA2 Splashguard SG652 Blue	ZVA2 Garde d'Eclaboussure SG652 Bleu
945129-003	ZVA2 Splashguard SG652 Dark Blue	ZVA2 Garde d'Eclaboussure SG652 Bleu-Foncé
945129-004	ZVA2 Splashguard SG652 Green	ZVA2 Garde d'Eclaboussure SG652 Vert
945129-005	ZVA2 Splashguard SG652 Light Green	ZVA2 Garde d'Eclaboussure SG652 Vert-Clair
945129-006	ZVA2 Splashguard SG652 Light Blue	ZVA2 Garde d'Eclaboussure SG652 Bleu-Clair
945129-007	ZVA2 Splashguard SG652 Orange	ZVA2 Garde d'Eclaboussure SG652 Orange
945129-008	ZVA2 Splashguard SG652 Red	ZVA2 Garde d'Eclaboussure SG652 Rouge
945129-009	ZVA2 Splashguard SG652 Silver/Grey	ZVA2 Garde d'Eclaboussure SG652 Argent/Gris
945129-010	ZVA2 Splashguard SG652 White	ZVA2 Garde d'Eclaboussure SG652 Blanc
945129-011	ZVA2 Splashguard SG652 Yellow	ZVA2 Garde d'Eclaboussure SG652 Jaune
945129-012	ZVA2 Splashguard SG652 Ulimite Unleaded Green (UK)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Unleaded Vert (UK)
945129-013	ZVA2 Splashguard SG652 Ulimite Diesel Dark Blue (UK)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Unleaded Bleu-Foncé (UK)
945129-014	ZVA2 Splashguard SG652 Ulimite Unleaded Light Blue (FR)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Unleaded Bleu-Clair (FR)
945129-015	ZVA2 Splashguard SG652 Ulimite Diesel Dark Blue (FR)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Diesel Bleu-Foncé (FR)
945129-016	ZVA2 Splashguard SG652 Ulimite Unleaded Light Blue (ESP)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Unleaded Bleu-Clair (ESP)
945129-017	ZVA2 Splashguard SG652 Ulimite Diesel Dark Blue (ESP)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Diesel Bleu-Foncé (ESP)
945129-018	ZVA2 Splashguard SG652 Ulimite Unleaded (Dripstop) Light Blue (CAT)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Unleaded (Dripstop) Bleu-Clair (CAT)
945129-019	ZVA2 Splashguard SG652 Ulimite Unleaded (Dripstop) Dark Blue (CAT)	ZVA2 Garde d'Eclaboussure SG652 Ultimate Diesel (Dripstop) Bleu-Foncé (CAT)
945129-020	ZVA2 Splashguard SG652 Cyan	ZVA2 Garde d'Eclaboussure SG652 Cyan
945129-021	ZVA2 Splashguard SG652 Gold	ZVA2 Garde d'Eclaboussure SG652 Or

3.5.5 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
901140-015	Sleeve Break BT16 White	Gaine Flex Rac Cass BT16 Blanc
901140-016	Sleeve Break BT21 White	Gaine Flex Rac Cass BT21 Blanc
901140-017	Sleeve Break BT16 Light Blue BP	Gaine Flex Rac Cass BT16 Bleu Clair BP
901140-018	Sleeve Break BT21 Light Blue BP	Gaine Flex Rac Cass BT21 Bleu Clair BP
901140-019	Sleeve Break BT16 Dark Blue BP	Gaine Flex Rac Cass BT16 Bleu-Foncé BP
901140-020	Sleeve Break BT21 Dark Blue BP	Gaine Flex Rac Cass BT21 Bleu-Foncé BP
901140-021	Sleeve Break BT16 Cyan ESSO	Gaine Flex Rac Cass BT16 Cyan ESSO
901140-022	Sleeve Break BT21 Cyan ESSO	Gaine Flex Rac Cass BT21 Cyan ESSO
901140-023	Sleeve Break BT16 Light Green	Gaine Flex Rac Cass BT16 Vert-Clair
901140-024	Sleeve Break BT21 Light Green	Gaine Flex Rac Cass BT21 Vert-Clair
901140-025	Sleeve Break BT16 Gold	Gaine Flex Rac Cass BT16 Or
901140-026	Sleeve Break BT21 Gold	Gaine Flex Rac Cass BT21 Or

3.5.6 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
901137-004	Break Coupling 1" Male H.S. Reuseable	Raccord Cassant 1" Mâle G.D. Reutilisable
901568-001	Break Coupling VR	Raccord Cassant RV

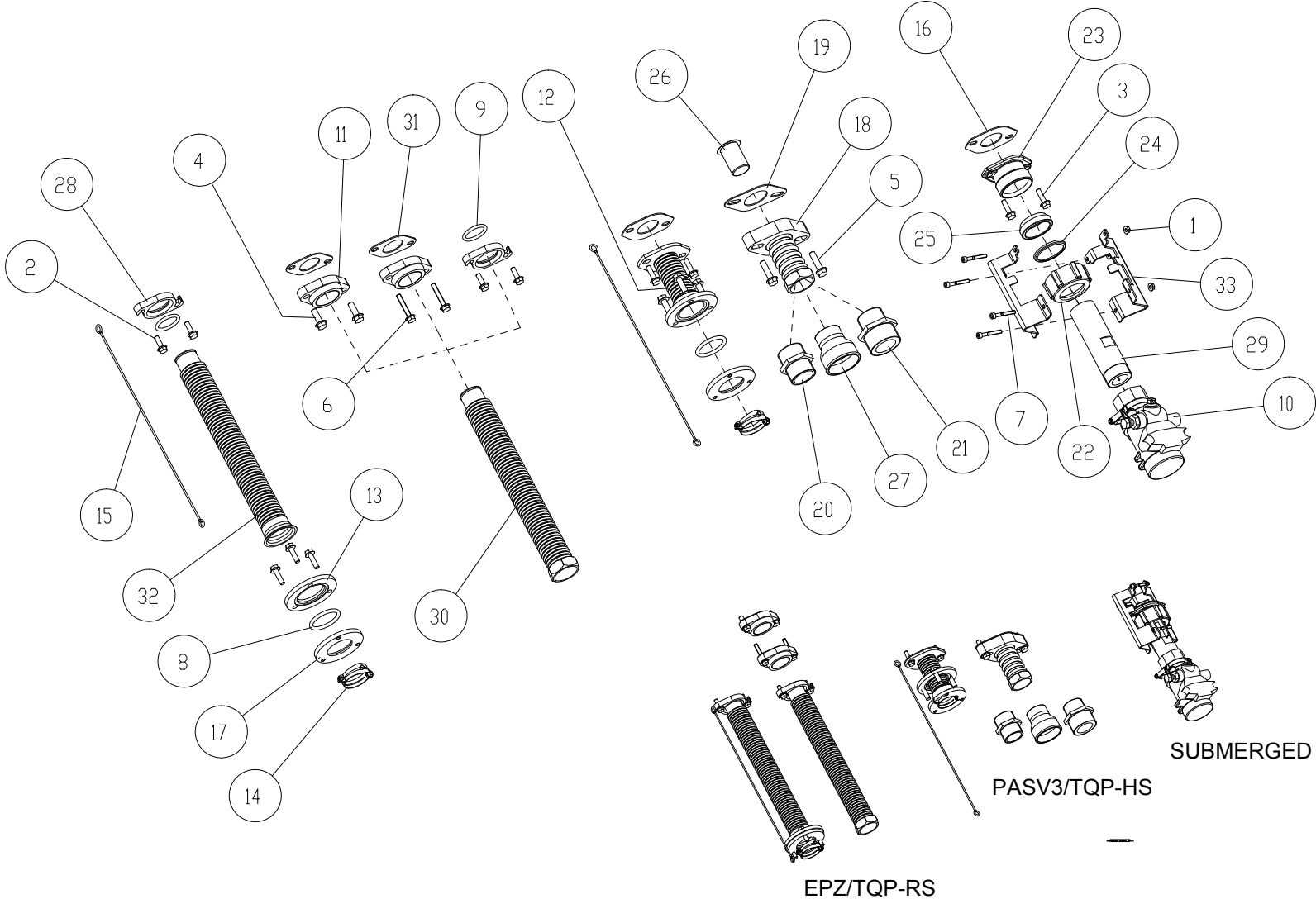
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4 DISPENSER HYDRAULICS

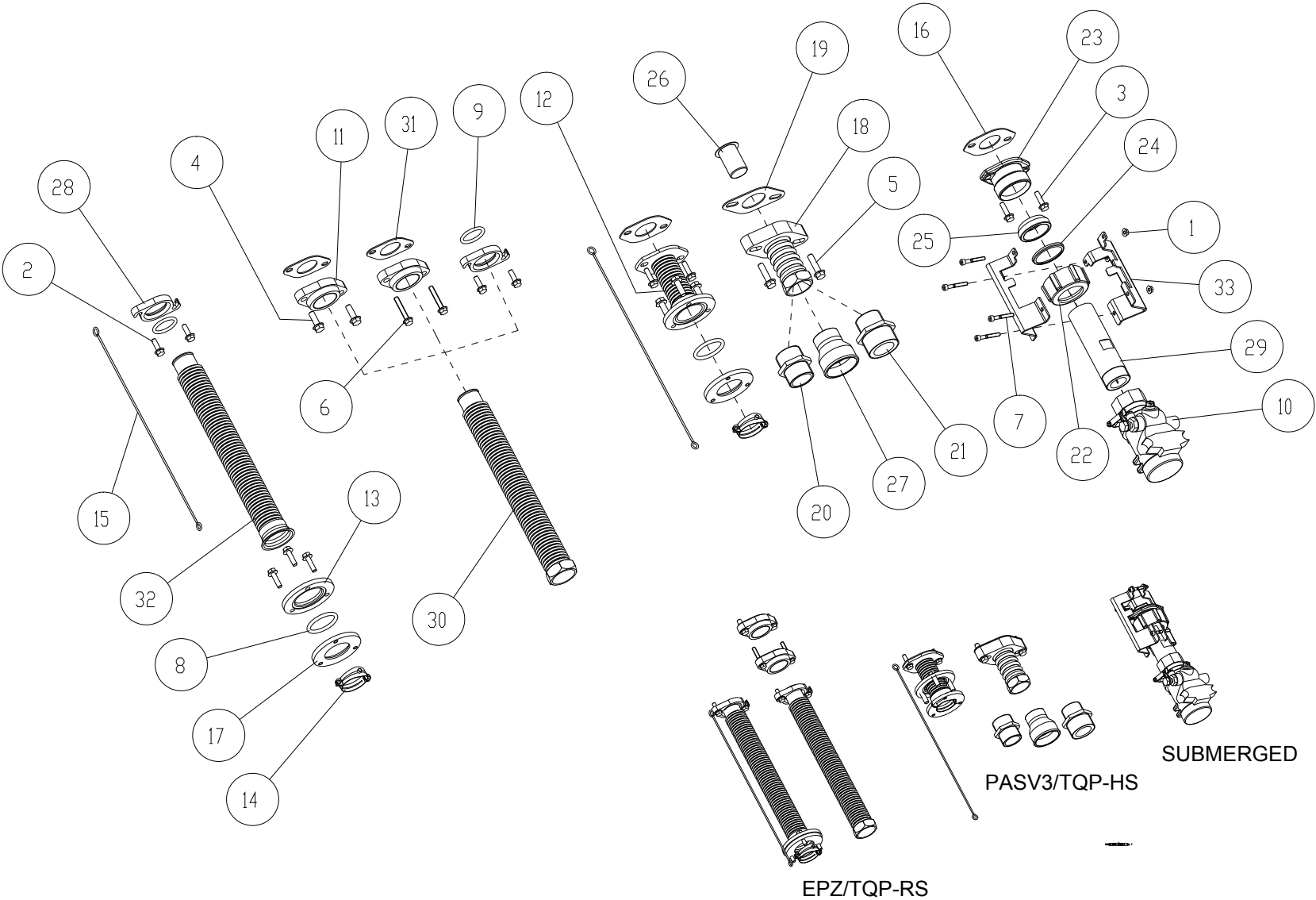
4.1 Flexible Connections



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
3	Screw HFHSL M8x30	Vis Hex Br Autobl M8x30	900016-008	
4	Screw HFHSL M10x30	Vis Hex Br Autobl M10x30	900016-017	
5	Screw HFHSL M10x40	Vis Hex Br Autobl M10x40	900016-018	
6	Screw HFHSL M8x50	Vis Hex Br Autobl M8x50	900016-022	
7	Screw HSHC M6x45	Vis CHC M6x45	900017-018	
8	O-ring 49.00x6.00	Joint Torique 49.00x6.00	900050-028	
9	O-Ring 37.47x5.33	Joint Torique 37.47x5.33	900050-047	
10	Shear Valve	Raccord Cassant	901108	
11	Flange 1-1/2" 82mm	Bride 1-1/2" 82mm	901320-002	
12	Pipe Flex Weld Assy	Tube d'Aspiration Soude	901900	
13	Flange Backing	Contre-bride	901902	
14	Terminal Earth Cable	Collier de Masse D50	901903	
15	Earth Wire	Fil de Mise a la Terre	901904	
16	Gasket - Flange 76-84	Joint de Bride 76-84	901905	
17	Flange Backing for O-ring	Contre-bride pour Joint Torique	901906	
18	Assy Flexwell 1 1/2" Female	Tube d'Aspiration Soude	901929	
19	Gasket - Flange 82-110	Joint de Bride 82-110	901930	
20	R11/2" x R11/2" Nipple	Machon R11/2" x R11/2"	902212-002	
21	R11/2" x R2" Nipple	Machon R11/2" x R2"	902212-003	
22	Nut - NEFIT Coupling	Ecrou Raccord NEFIT	902863	
23	Body - NEFIT Coupling Body - NEFIT Coupling Anodised	Corps Raccord NEFIT Corps Raccord NEFIT Anodise	902864 943157	Ethanol Compliant
24	Washer - NEFIT Seal	Rondelle Joint NEFIT	902865	
25	Sealing Ring - NEFIT Coupling	Joint Raccord NEFIT	902866	

(Cont.)

4.1 Flexible Connections (Cont.)

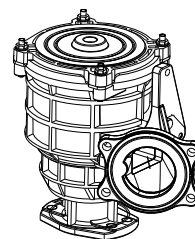
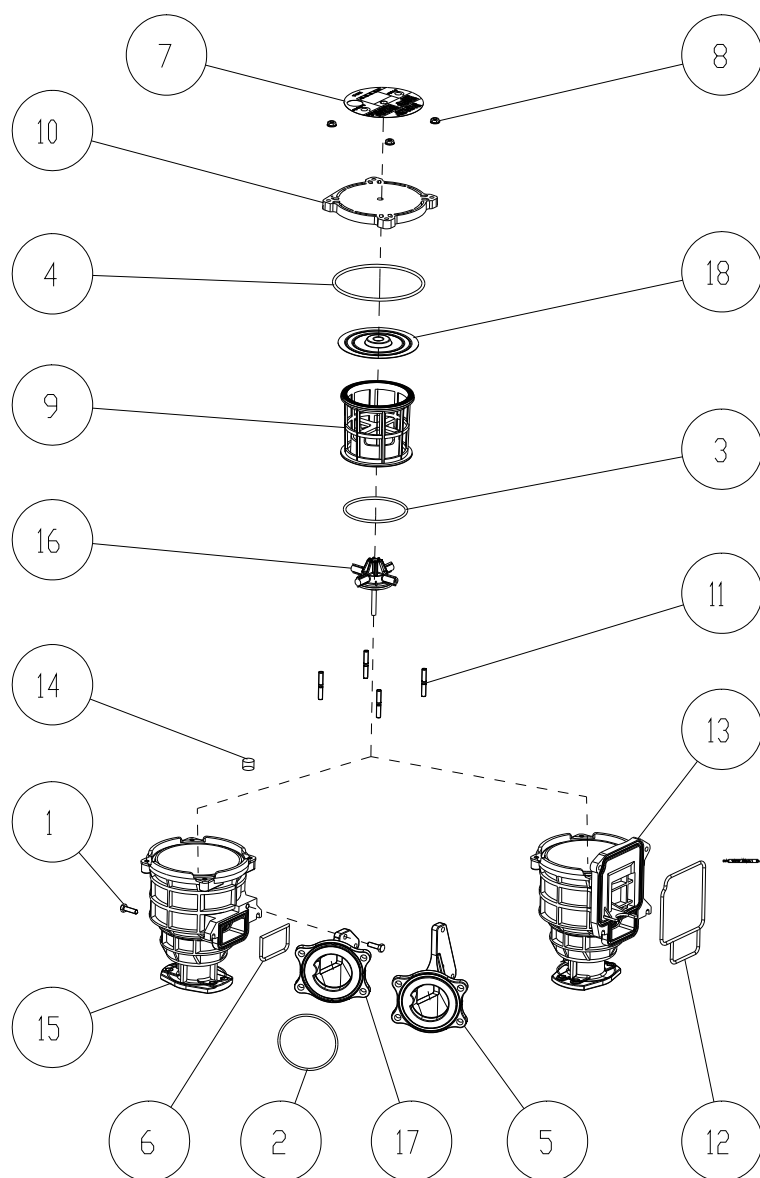


Item No	Description	Désignation Français	Part No	Comments
26	Filter in-line	Filtre	902964	UK Option
27	Socket M/F 1 1/2" x 2"	Machon M/F 1 1/2" x 2"	903466-001	
28	Junction Flange	Bride de Jonction	903535	
29	Pipe NEFIT Adapter	Tube Connexion NEFIT	903583	
30	1 1/2" Flexwell Pipe Kit 380mm	1 1/2" Flexwell Pipe Kit 380mm	906637	
31	Gasket - Flange	Joint de Bride	906960	
32	1 1/2" Flange Pipe 380mm	1 1/2" Bride Tube 380mm	907008	
33	Filterpot Clamp SB	Bride de Filtre SB	940826	



4.2 Filter Assembly

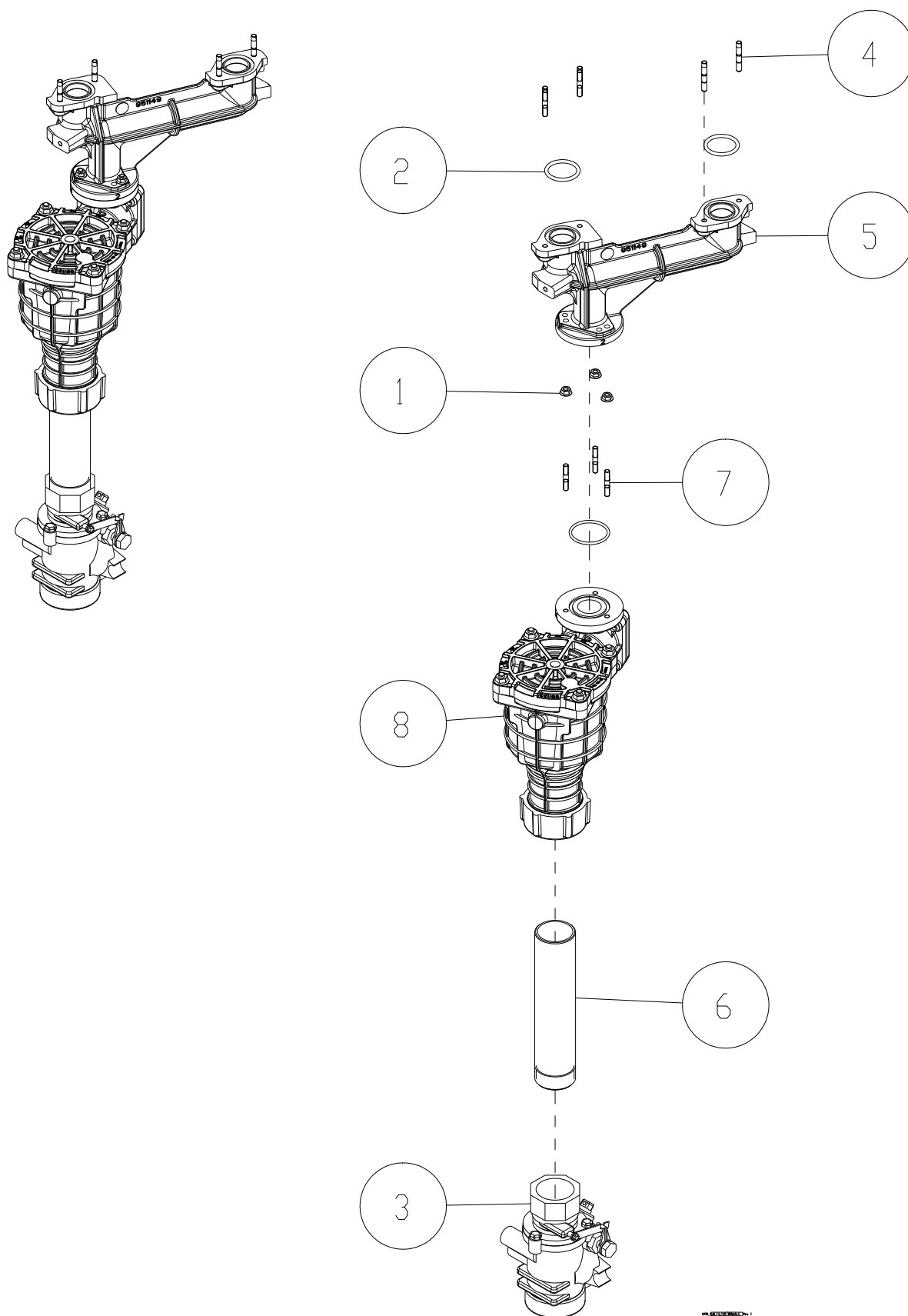
4.2.1 STANDARD FILTER ASSEMBLY



**FILTER MONITOR
OPTION**

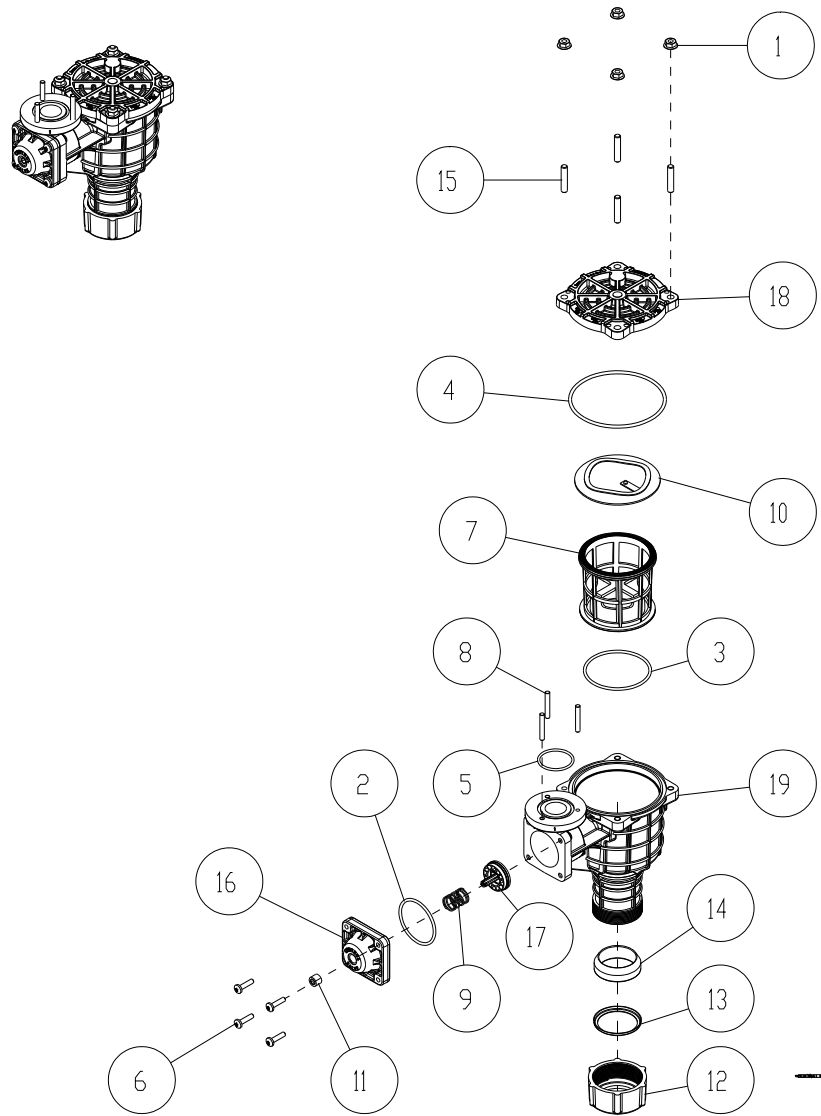
Item No	Description	Désignation Français	Part No	Comments
1	Screw HH M6x20	Vis H M6x20	900015-010	
2	O-Ring 78,00x3,00	Joint Torique 78,00x3,00	900050-008	EPZ/TQP-RS
3	O-Ring 82,14x3,53	Joint Torique 82,14x3,53	900050-025	
4	O-Ring 120.00 x 4.00	Joint Torique 120.00 x 4.00	900050-027	Ethanol & Low Temp Low Temperature
	O-Ring 120.00 x 4.00	Joint Torique 120.00 x 4.00	900050-086	
	O-Ring 120.00 x 4.00	Joint Torique 120.00 x 4.00	900050-096	
5	Adaptor EPZ-Filterbox	Adaptateur EPZ-Boite de Filtre	900358	EPZ/TQP-RS
6	O-ring Filterbox	Joint de Filtre	900635	EPZ/TQP-RS
7	Sticker Filterbox Cover	Autocollant Couvercle Boite de	900636	Low Temperature
	Sticker Filterbox Cover	Autocollant Couvercle Boite de	900636-002	
8	Nut Hex Serpress M6	Ecrou Serpress M6	901295-001	
9	Filter 90 microns	Filtre 90 microns	901612	Standard
	Filter 25 microns	Filtre 25 microns	901613	Option
	Filter 12 microns	Filtre 12 microns	901614	Option
10	Filterbox Cover	Couvercle Boite de Filtre	901694	Ethanol
	Filterbox Cover E85	Couvercle Boite de Filtre E85	940213	
11	Stud M6x40 (18-4-18)	Goujon M6x40 (18-4-18)	901695	
12	O-ring Filterbox Support	Joint Platine BAF	902388	PAS V3
13	Filterbox	Boite de Filtre	902398	PAS V3
14	Cover - Adapted	Couvercle - Adapte	903473	
15	Filterbox	Boite de Filtre	909769	EPZ/TQP-RS
	Filterbox E85	Boite de Filtre E85	941256	EPZ/TQP-RS Ethanol
16	Footvalve Filterbox	Clapet Filterbox	943260	EPZ/PAS V3
	Footvalve Filterbox Sub.	Clapet Filterbox Immerge	949489	Submerged
17	Adaptor Filterbox Light	Adaptateur Boite Filtre Light	943292	EPZ/TQP-RS
	Adaptor Filterbox Light E85	Adaptat. Boite Filtre Light E85	943293	EPZ/TQP-RS Ethanol
18	Spring plate	Plaque ressort	948807	Ethanol
	Spring Plate E85	Plaque Supp. Equipee E85	940206	

4.2.2 SUBMERGED FILTER ASSEMBLY



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou autobloquant Flange M6	900013-003	
2	O-Ring 34,00 x 4,00	Joint Torique 34,00 x 4,00	900050-002	
3	shear valve	raccord cassant	901108	
4	Stud M6X40 (16.5-11-12.5)	Goujon M6X40 (16.5-11-12.5)	948402	
5	Collector machinned	Collecteur usine	951150	
6	Pipe submerge 40/49 lg213	Tube immerge 40/49 lg213	951639	
7	Stub M6X35 (12.5-10-12.5)	Goujon M6X35 (12.5-10-12.5)	956157	
8	Filter Sub Stack Assembly	Filter Sub Stack Assembly	-	Filter Sub Asm

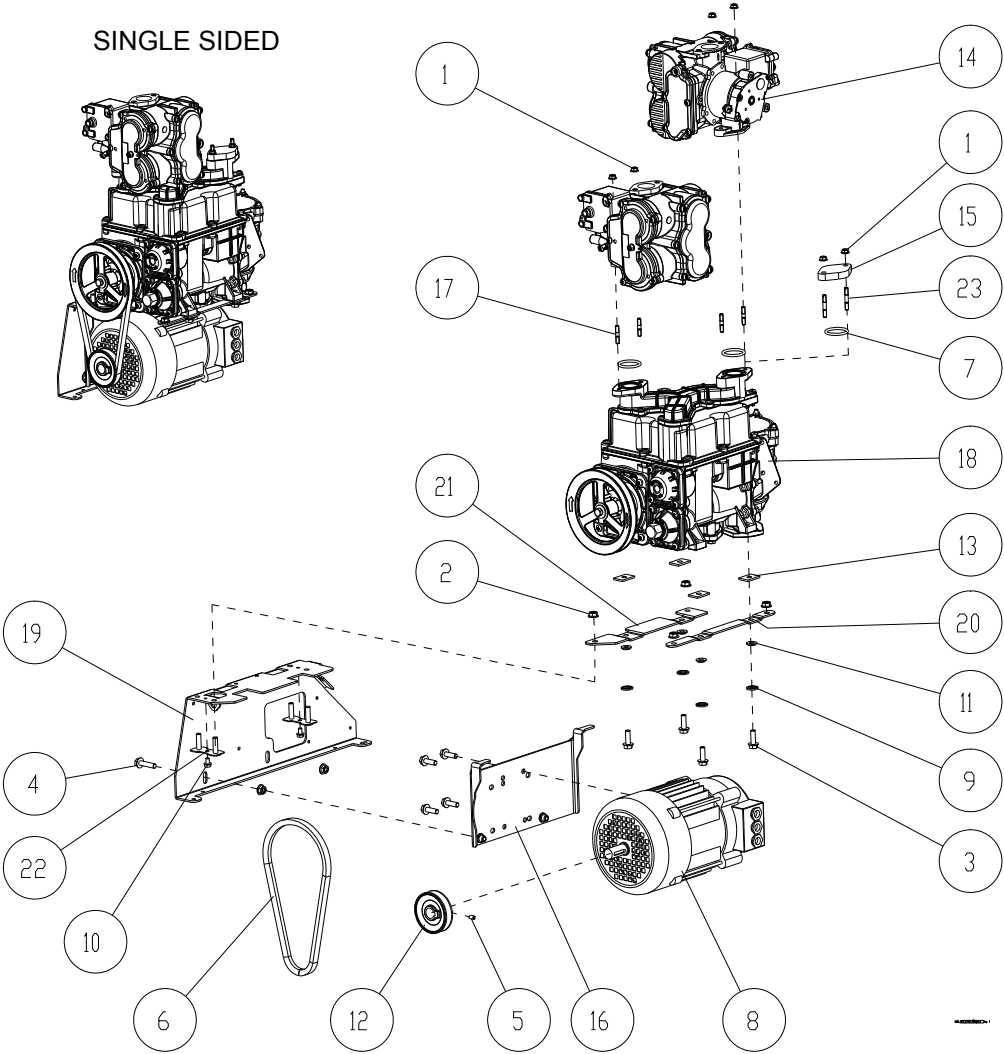
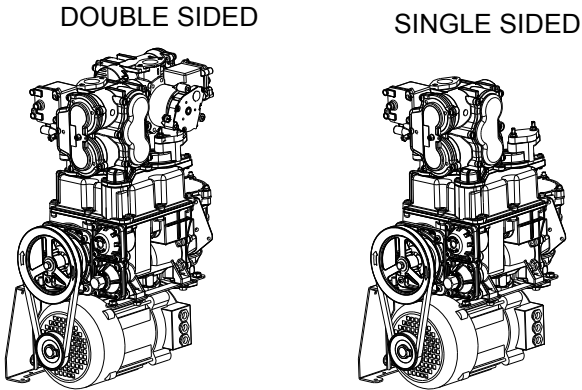
4.2.3 FILTER SUBMERGED STACK ASSEMBLY



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M8	Ecrou autobloquant Flange M8	900013-004	
2	O-Ring 59,92 x 3,53	Joint Torique 59,92 x 3,53	900050-006	
3	O-Ring 82,14 x 3,53	Joint Torique 82,14 x 3,53	900050-025	
4	O-Ring 120,00 x 4,00	Joint Torique 120,00 x 4,00	900050-027	
5	O-Ring 42x3	Joint Torique 42x3	900050-083	
6	Screw torx Thr Form BH M6x25	Vis Torx AutoF TCBL Tril M6x25	900053-004	
7	Filter 90 microns	Filtre 90 microns	901612	
8	Stud M6x40 (18-4-18)	Goujon M6x40 (18-4-18)	901695	
9	Outlet valve spring	Ressort valve de sortie	901703	
10	Spring plate disk	Disque plaque supp. equipee	901726	
11	Pipe plug	Obturateur 1/4 pouce	901791	
12	Nut - NEFIT coupling	Ecrou raccord NEFIT	902863	
13	Washer -NEFIT seal	Rondelle joint NEFIT	902865	
14	Sealing ring - NEFIT coupling	Joint raccord NEFIT	902866	
15	Stud M8x40 (18-4-18)	Goujon M8x40 (18-4-18)	902931-005	
16	Checkvalve cover with pip plug	Couvercle clapet A-R av obtura	909178	
17	Outlet valve equiped	Clapet de sortie equipe	944356	
18	Cover filter submerged	Couvercle filtre immerge	951133	
19	Body filter immerged machined	Corps filtre immege usine	951152	

4.3 Hydraulic Stack Assemblies

4.3.1 TQP-RS HYDRAULIC STACK

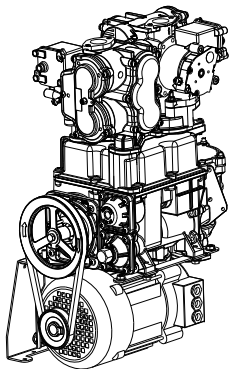


Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
3	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
4	Screw HFHSL M8x35	Vis Hex Br Autobl M8x35	900016-015	
5	Screw 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	
7	O-Ring 34 x 4	Joint Torique 34 x 4	900050-019	
8	Motor EXD 0.75kW 240V 50Hz Motor Elnor 1PH 740w Int. caps Motor EXD 1kW CCW 1ph 60Hz Motor EXD 0.75kW Star 400V 12c	Mot. EXD 0.75kW 240V 50 Hz Motor Elnor 1PH 740w Int. caps Moteur EXD Rael 1ph 60Hz Moteur EXD 0.75kW Star 400V 12c	900060-006 951893-002 900060-013 900060-011	1PH 50Hz RAE Elnor 1 Phase 1PH 60Hz RAE 1kW 3PH STAR
9	Dowty Seal Self Centre 1/4" BSP	Dowty Joint Torique 1/4" BSP	900450-001	
10	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
11	Insulation Sleeve 8.2 mm	Manchon Isolant 8.2 mm	900758-003	
12	Pulley - Motor Datum Dp68mm Pulley - Motor Datum Dp60mm	Poulie Moteur Axe Dp68mm Poulie Moteur Axe Dp60mm	903963 906430	60Hz only
13	Damper Pump Foot	Assourdisseur de Pompe Pied	905324	
14	TQM2 MPT1 PTFE BS in-line Meter TQM MPE-EC in line TQM2 MPE TC TQM2 MPE TC TW Meter TQM MPL in line Meter TQM CP1 in line	TQM2 MPT1 PTFE BS in-line Meter TQM MPE-EC in line TQM2 MPE TC TQM2 MPE TC TW Meter TQM MPL in line Meter TQM CP1 in line	948475-001 948475-011 948475-021 948475-024 948475-031 948475-071	
15	Flange Oval Without Holes	Bride Ovale Sans Trous	908456	
16	Bracket Motor Assembly	Bracket Motor Assembly	957283	
17	Stub Threaded specific M6x32	Goujon special M6x32	909271	

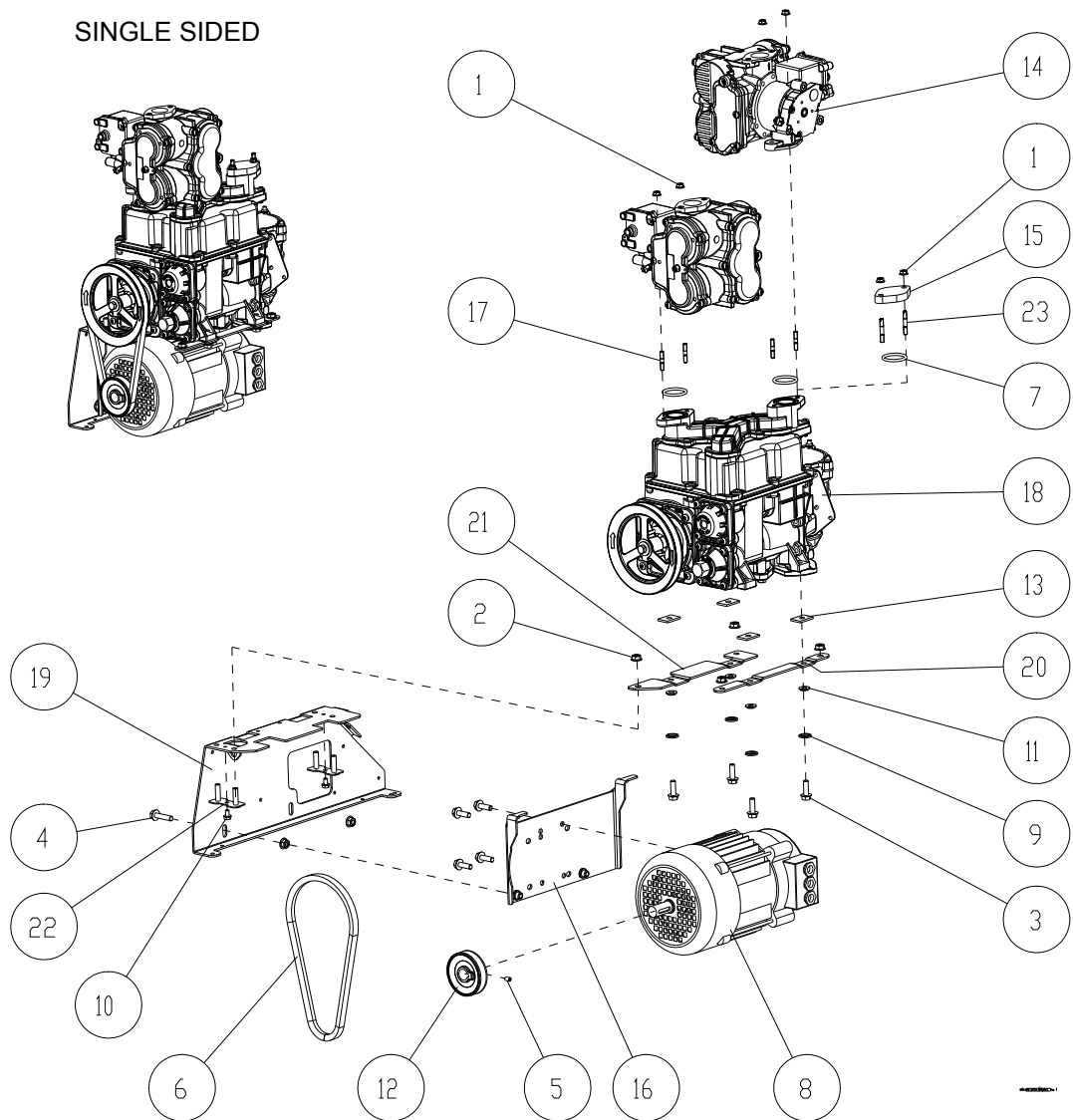
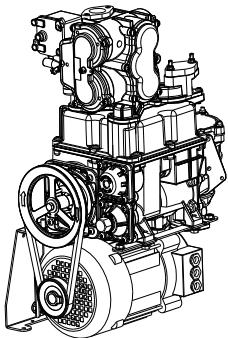
(CONT.)

4.3.1 TQP-RS HYDRAULIC STACK (CONT.)

DOUBLE SIDED

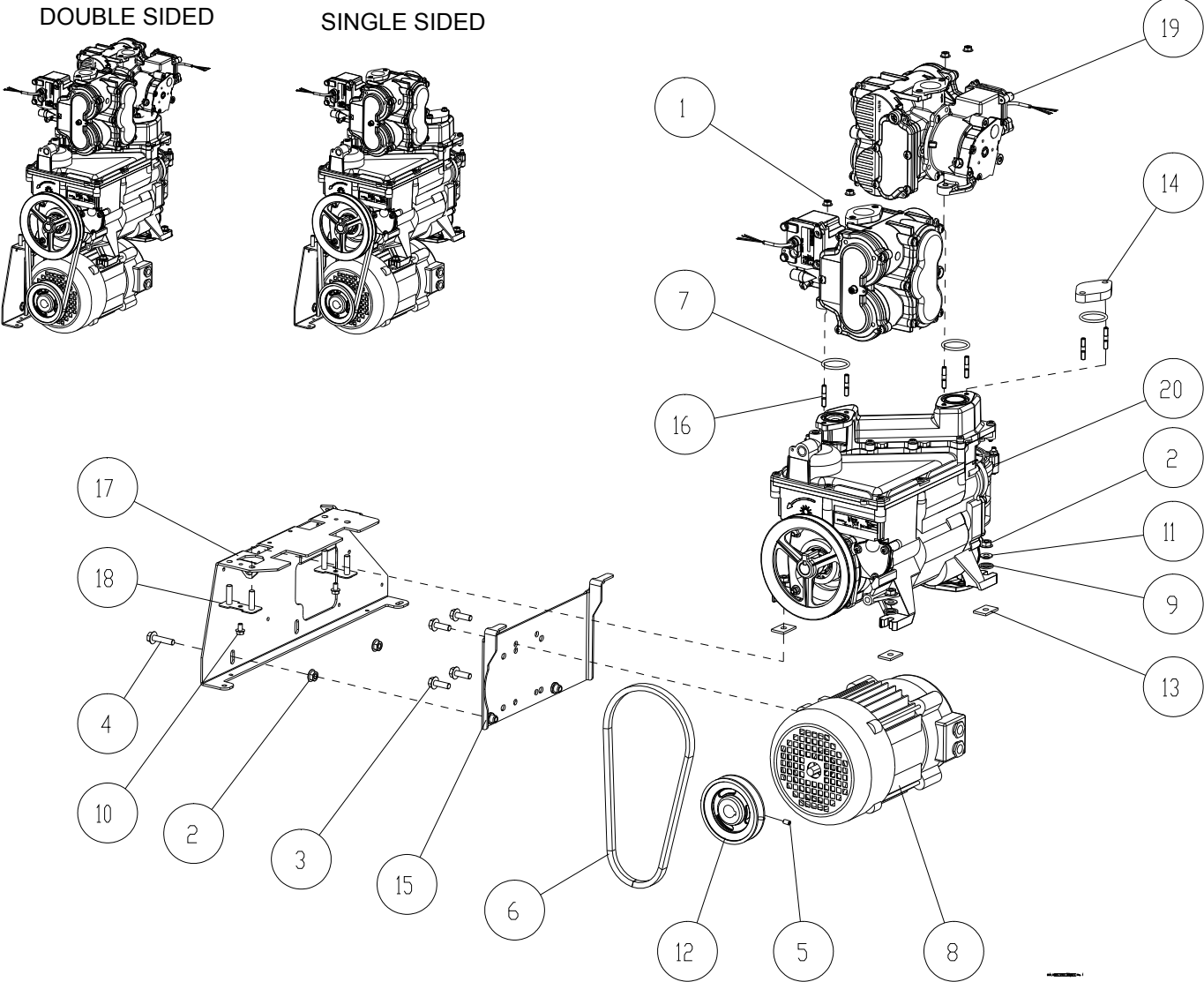


SINGLE SIDED



Item No	Description	Désignation Français	Part No	Comments
14 (Cont.)	Meter TQM MPT1 in line	Meter TQM MPT1 en ligne	948475-001	Refer to TQM Manual
	Meter TQM MPE-EC in line	Meter TQM MPE-EC en ligne	948475-011	Electronic Calibration
	Meter TQM MPE-TC in line	Meter TQM MPE-TC en ligne	948475-021	Temperature Compensation
	Meter TQM MPE-TC TW in line	Meter TQM MPE-TC TW en ligne	948475-024	Temp. Comp. Temperature Well
	Meter TQM MPL in line	Meter TQM MPL en ligne	948475-031	
	Meter TQM CP1 in line	Meter TQM CP1 en ligne	948475-071	
15	Flange Oval Without Holes	Bride Ovale Sans Trous	908456	
16	Bracket Motor Assy	Asm Support Moteur	908803	
17	Stub Threaded specific M6x32	Goujon special M6x32	909271	
18	EPZ Stack Filter Box Assy Std	EPZ Stack Filter Box asm Std	909650-001	Refer to TQP-RS Manual
	EPZ Stack Filter Box Assy Low Temp	EPZ Stack Filter Box Assy Low Temp	909650-002	
	EPZ Stack Filter Box Assy E85	EPZ Stack Filter Box Assy E85	909650-005	
	EPZ Stack Filter Box Assy LT E85	EPZ Stack Filter Box Assy LT E85	909650-006	
	EPZ Stack No Filter Assy Std	EPZ Stack No Filter Assy Std	909652-001	
	EPZ Stack No Filter Assy Low Temp	EPZ Stack No Filter Assy Low Temp	909652-002	
	EPZ Stack No Filter Assy E85	EPZ Stack No Filter Assy E85	909652-005	
	EPZ Stack No Filter Assy LT E85	EPZ Stack No Filter Assy LT E85	909652-006	
	EPZ Stack Int.Filter, Flex Con Assy Std	EPZ Stack Int.Filter, Flex Con Assy Std	909654-003	
	EPZ Stack Int.Filter, Flex Con Assy LT	EPZ Stack Int.Filter, Flex Con Assy LT	909654-004	
	EPZ Stack Int.Filter, Flex Con Assy E85	EPZ Stack Int.Filter, Flex Con Assy E85	909654-005	
	EPZ Stack Int.Filter, Flex Con Asm LT E85	EPZ Stack Int.Filter, Flex Con Asm LT E85	909654-006	
19	Pump Bracket Universal	Support Pompe Universal	942174	
20	Adaptor EPZ75 Uni	Adaptateur EPZ75 Uni	942178	
21	Adaptor EPZ75 Uni B	Adaptateur EPZ75 Uni B	942310	
22	Assy Bracket Stud	Asm Support Goujon	942697	
23	SSTL Stud M6 x 40	SSTL Goujon M6 x40	947122	

4.3.2 TQP-HS (PAS V3) HYDRAULIC STACK

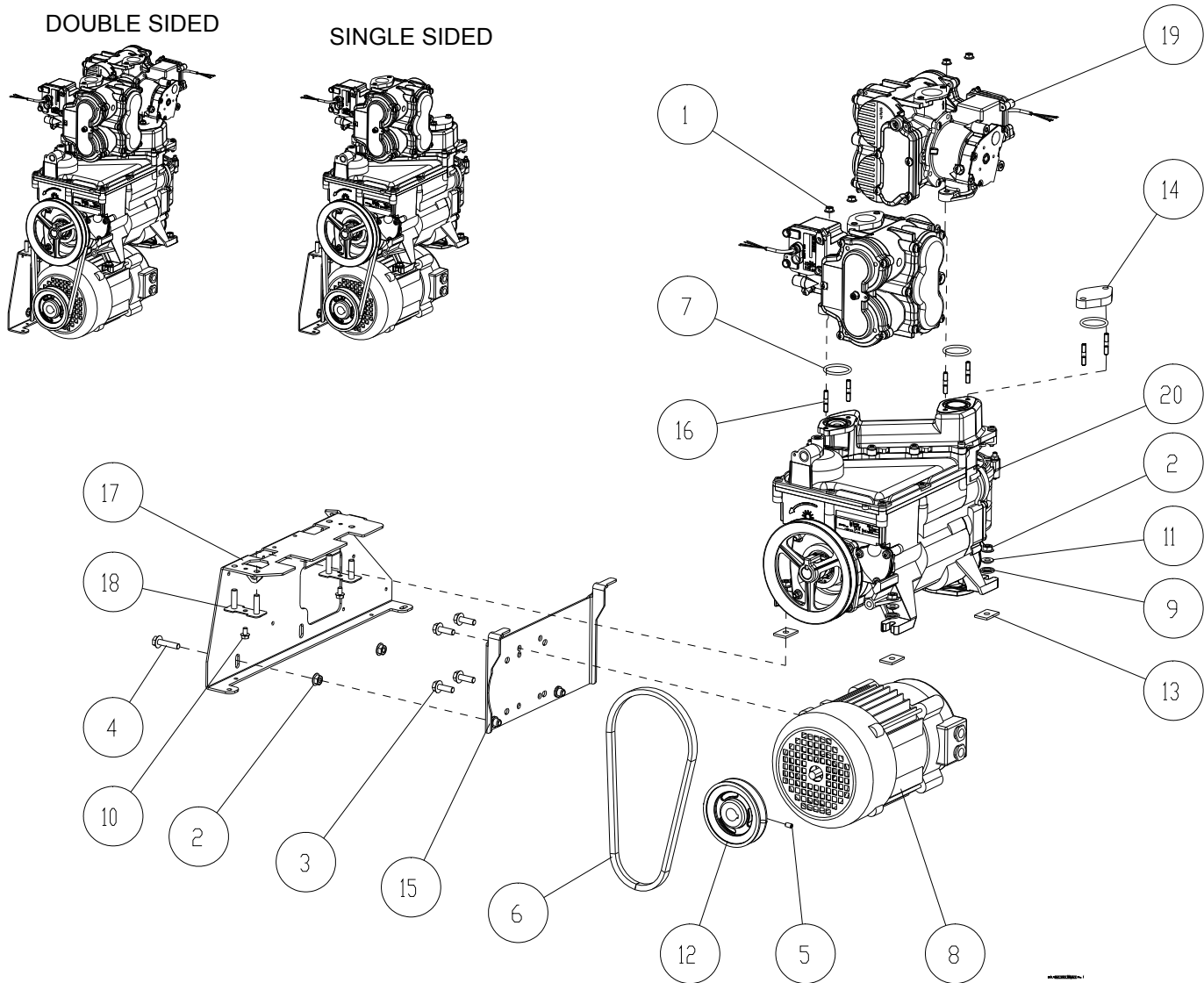


Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
3	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
4	Screw HFHSL M8x35	Vis Hex Br Autobl M8x35	900016-015	
5	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
6	V-Belt - 13 x 8 x 745 Lp	Courroie - 13 x 8 x 745 Lp	900028-004	80L TQP-HS only
	V-Belt - 13 x 8 x 720 Lp	Courroie - 13 x 8 x 720 Lp	900028-005	80L TQP-HS & 130L TQP-HS 60Hz
	V-Belt - 13 x 8 x 684 Lp	Courroie - 13 x 8 x 684 Lp	900028-003	130L TQP-HS 60Hz only
7	O-ring 34.10x3.60	Joint Torique 34.10x3.60	900050-019	
8	Motor EXD 3phase DELTA Connection	Moteur EXD 3phase DELTA Con	900068-002	80L TQP-HS only
	Motor EXD 3phase DELTA Connection	Moteur EXD 3phase DELTA Con	900068-003	130L TQP-HS only
	Motor EXD 3phase STAR Connection	Moteur EXD 3phase STAR Con	900060-002	80L TQP-HS only
	Motor EXD 3phase STAR Connection	Moteur EXD 3phase STAR Con	900060-003	130L TQP-HS only
	Motor EXD 1ph RAEL 50Hz 1kW CCW	Moteur EXD 1ph RAEL 50Hz 1kW CCW	900060-012	80L TQP-HS only
	Motor 1ph ELNOR 50Hz 1.5kW CCW	Moteur 1ph ELNOR 50Hz 1.5kW CCW	942703	130LTQP-HS only
	Motor 1ph ELNOR 60Hz 1.5kW CCW	Moteur 1ph ELNOR 60Hz 1.5kW CCW	942702	130L TQP-HS only
9	Dowty Seal Self Centre 1/4" BSP	Dowty Joint Torique 1/4" BSP	900450-001	
10	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
11	Insulation Sleeve 8.2 mm	Manchon Isolant 8.2 mm	900758-003	
12	Motor Pulley Dp 95	Poulie Moteur Dp 95	901768	80L TQP-HS only
	Motor Pulley Dp 71	Poulie Moteur Dp 71	901769	130L TQP-HS only
	Motor Pulley 60Hz Dp 80mm	Poulie Moteur 60Hz Dp 80mm	906444	80L TQP-HS only
	Motor Pulley 60Hz Dp 60mm	Poulie Moteur 60Hz Dp 60mm	906430	130L TQP-HS 60Hz only
13	Damper Pump Foot	Assourdisseur de Pompe Pied	905324	
14	Flange Oval without Holes	Bride Ovale sans Trous	908456	
15	Motor Bracket Assy	Asm Support Moteur	908803	
16	Stud Threaded Specific M6x32	Goujon Special M6x32	909271	
17	Pump Bracket Universal	Support Pompe Universal	942174	

(CONT.)



4.3.2 TQP-HS (PAS V3) HYDRAULIC STACK (CONT.)

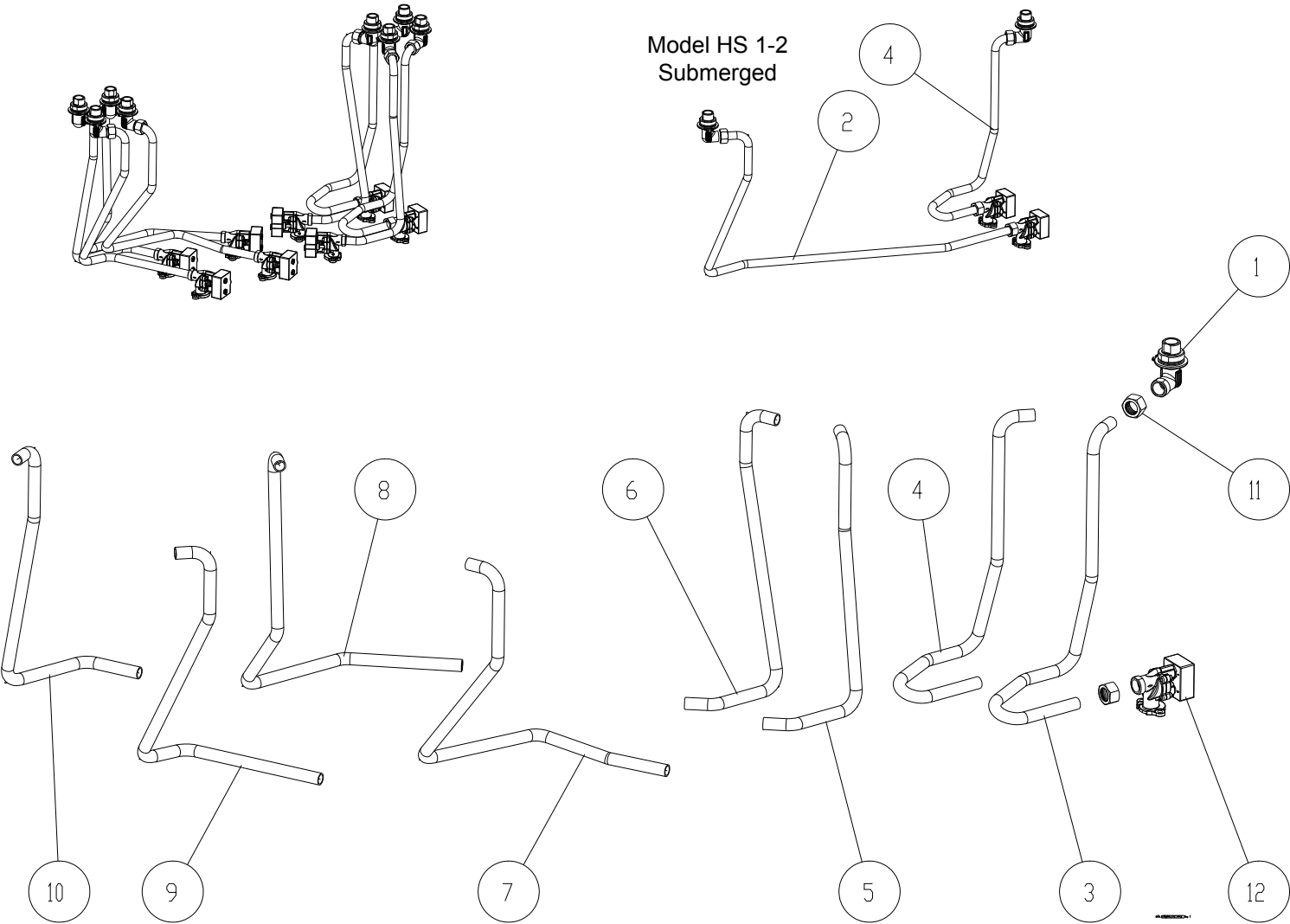


Item No	Description	Désignation Français	Part No	Comments
18	Assy Bracket Stud	Asm Support Goujon	942697	
19	TM80 Meter	Meter TM80	945118-501	Refer to TM80 Manual
	TM80 Meter with EC	Meter TM80 EC	945118-507	Electronic Calibration
	TM80 Meter with TC	Meter TM80 TC	945118-513	Temperature Compensation
20	TQP-HS Pump	TQP-HS Pompe	948971-001	Standard
	TQP-HS Pump	TQP-HS Pompe	948971-002	Low Temperature



4.4 Meter to Column Pipe Assemblies

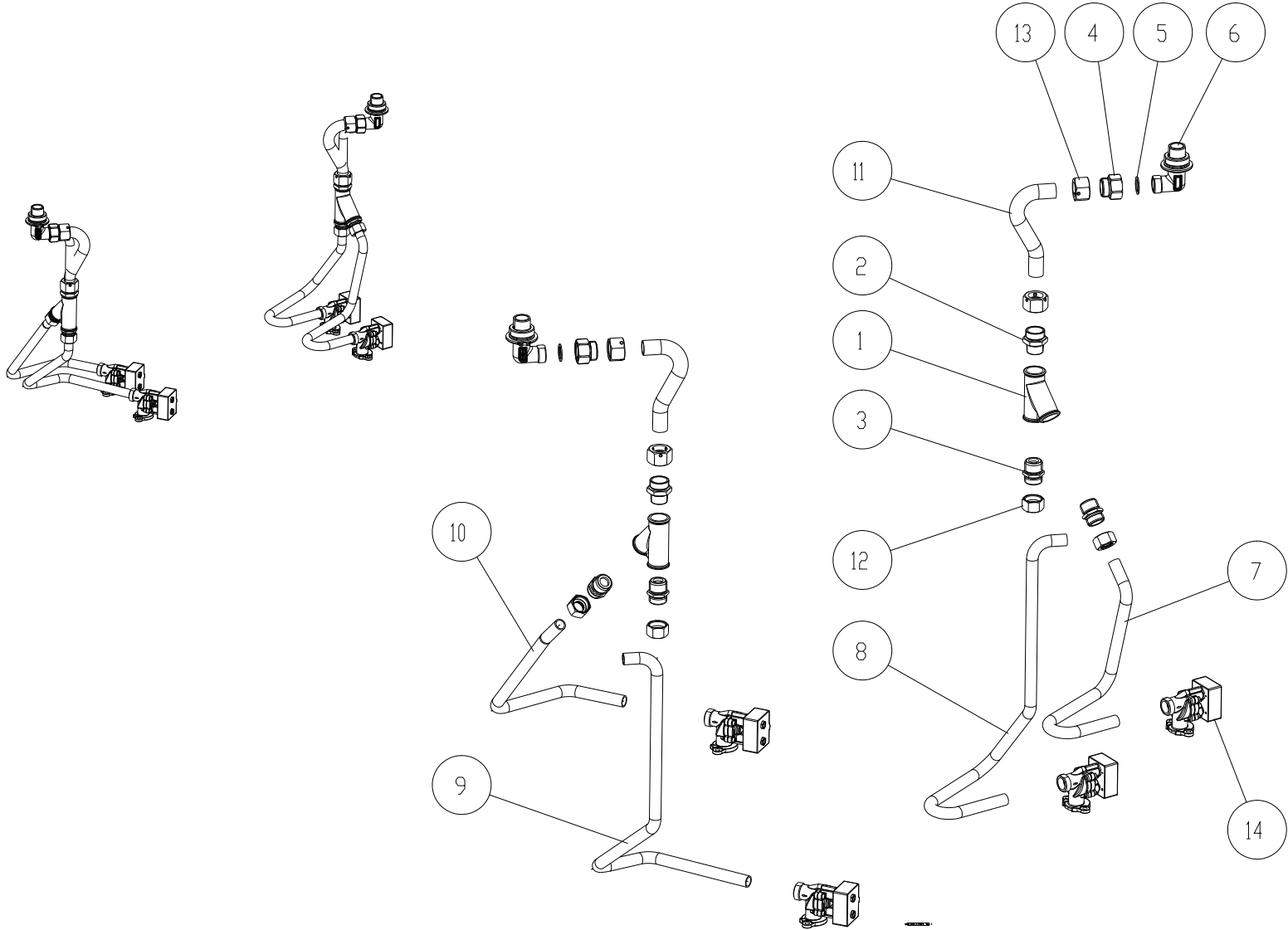
4.4.1 STANDARD MODELS & HIGH SPEED SUBMERGED MODELS & HIGH SPEED NON-SUBMERGED MODELS



Item No	Description	Désignation Français	Part No	Comments
1	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
2	Pipe Simple HS 1A Staggered	Tube Simple HS 1A Special	946892	Model HS 1-2 only
3	Pipe Simple 1A	Tube Simple 1A	946928	
4	Pipe Simple 1B	Tube Simple 1B	946929	
5	Pipe Simple 2A	Tube Simple 2A	946930	
6	Pipe Simple 2B	Tube Simple 2B	946935	
7	Pipe Simple 3A	Tube Simple 3A	946936	
8	Pipe Simple 3B	Tube Simple 3B	946937	
9	Pipe Simple 4A	Tube Simple 4A	946938	
10	Pipe Simple 4B	Tube Simple 4B	946939	
11	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
12	Valve & Fittings	Valve & Fittings	-	Refer to Valve & Fittings Assemblies

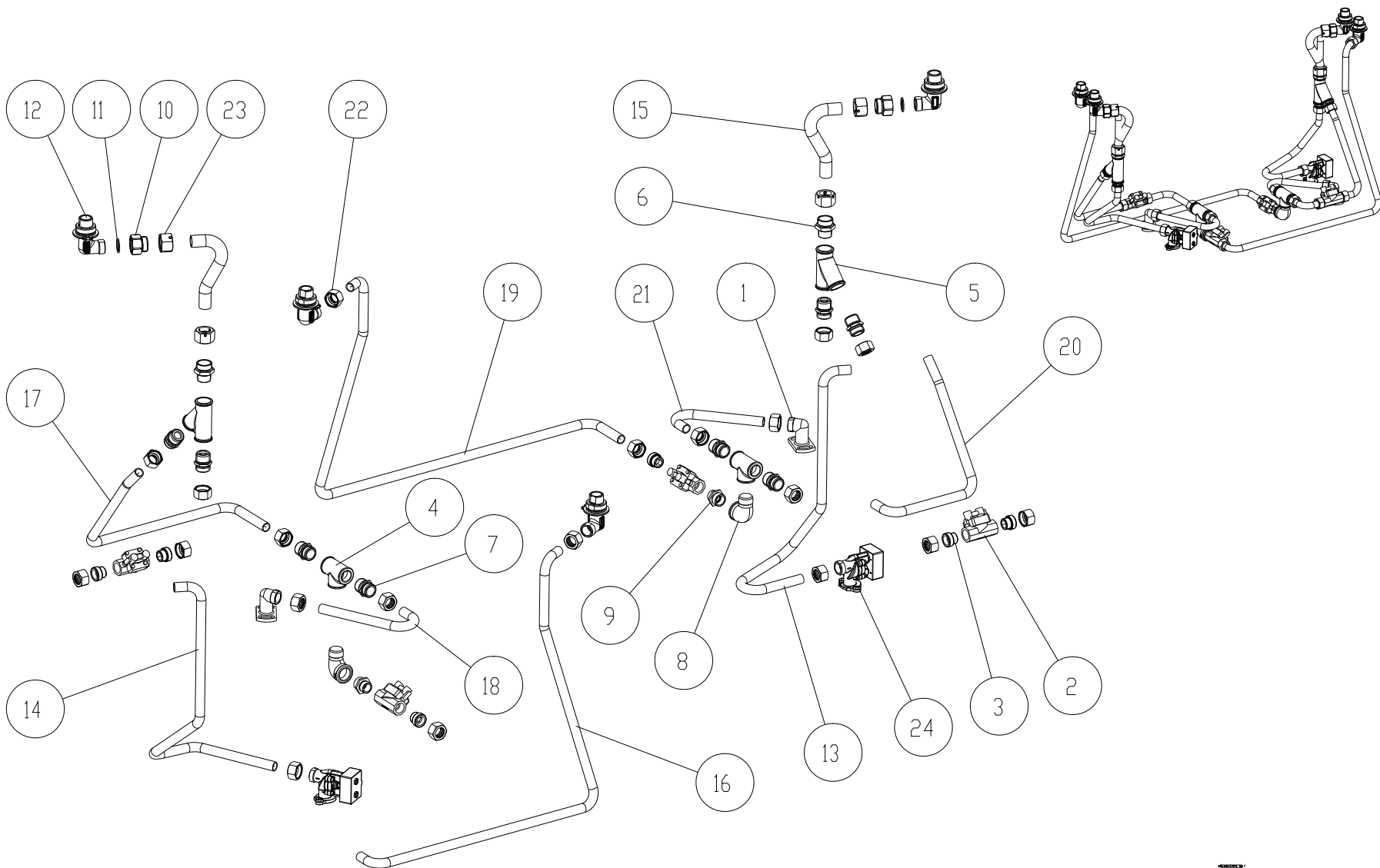


4.4.2 MODELS VHS 1-1 & VHS 1-2



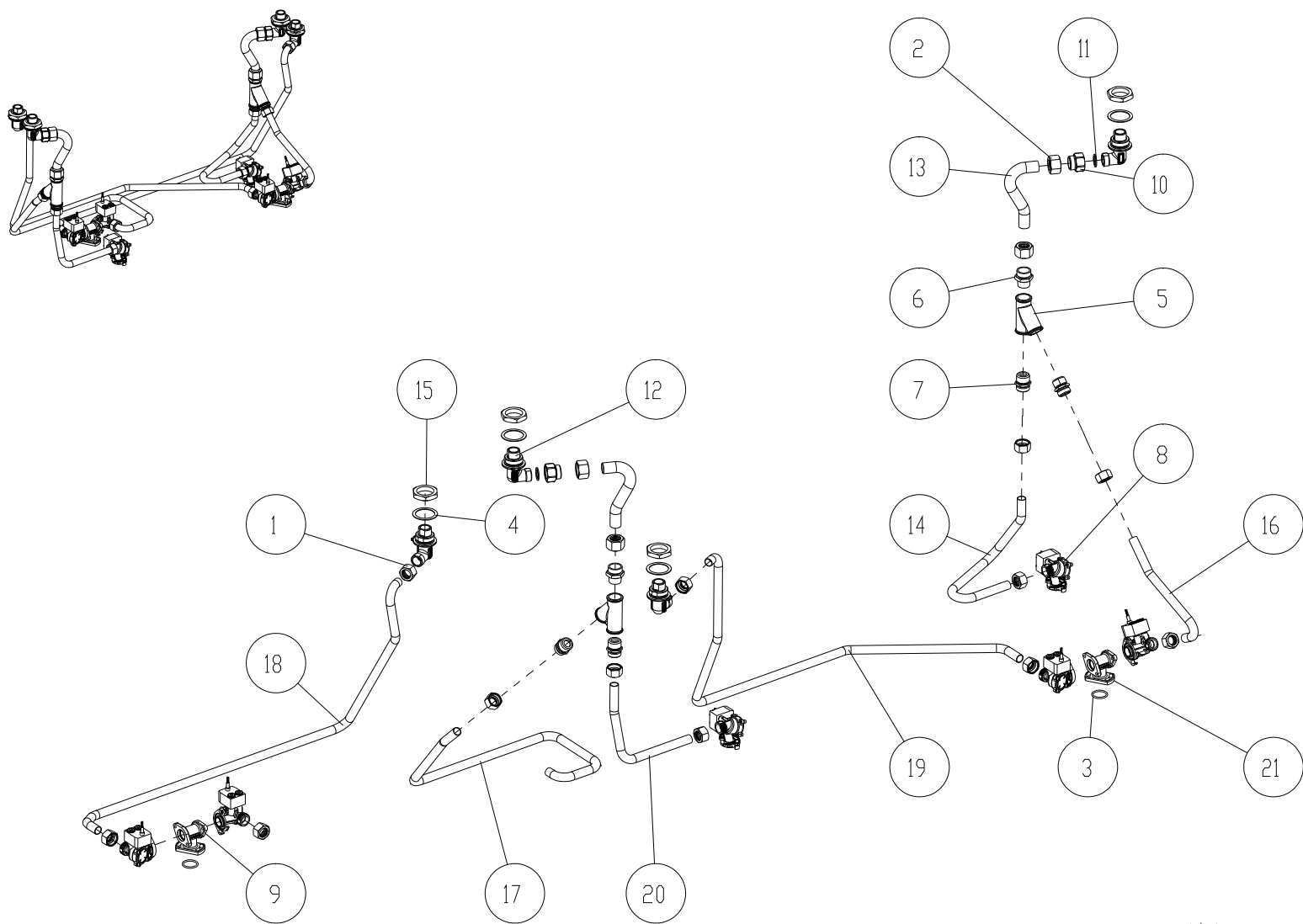
Item No	Description	Désignation Français	Part No	Comments
1	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
2	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
3	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
4	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
5	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
6	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
7	Pipe Simple VHS 1A	Tube Simple VHS 1A	946893	
	Pipe Simple VHS 1A Submerged	Tube Simple VHS 1A Immerge	946898	Submerged only
8	Pipe Simple VHS 1B	Tube Simple VHS 1B	946894	Cut pipe to required length
	Pipe Simple VHS 1B Submerged	Tube Simple VHS 1B Immerge	946899	Submerged only
9	Pipe Simple VHS 4A	Tube Simple VHS 4A	946895	Cut pipe to required length
	Pipe Simple VHS 4A Submerged	Tube Simple VHS 4A Immerge	946900	Submerged only
10	Pipe Simple VHS 4B	Tube Simple VHS 4B	946896	
	Pipe Simple VHS 4B Submerged	Tube Simple VHS 4B Immerge	946901	Submerged only
11	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
12	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
13	Pipe Nut Assembly 28mm	Pipe Nut Assembly 28mm	-	Refer to Pipe Nut Assemblies
14	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

4.4.3 MODEL VHS 2-4 - MANUFACTURED BEFORE DECEMBER 2012



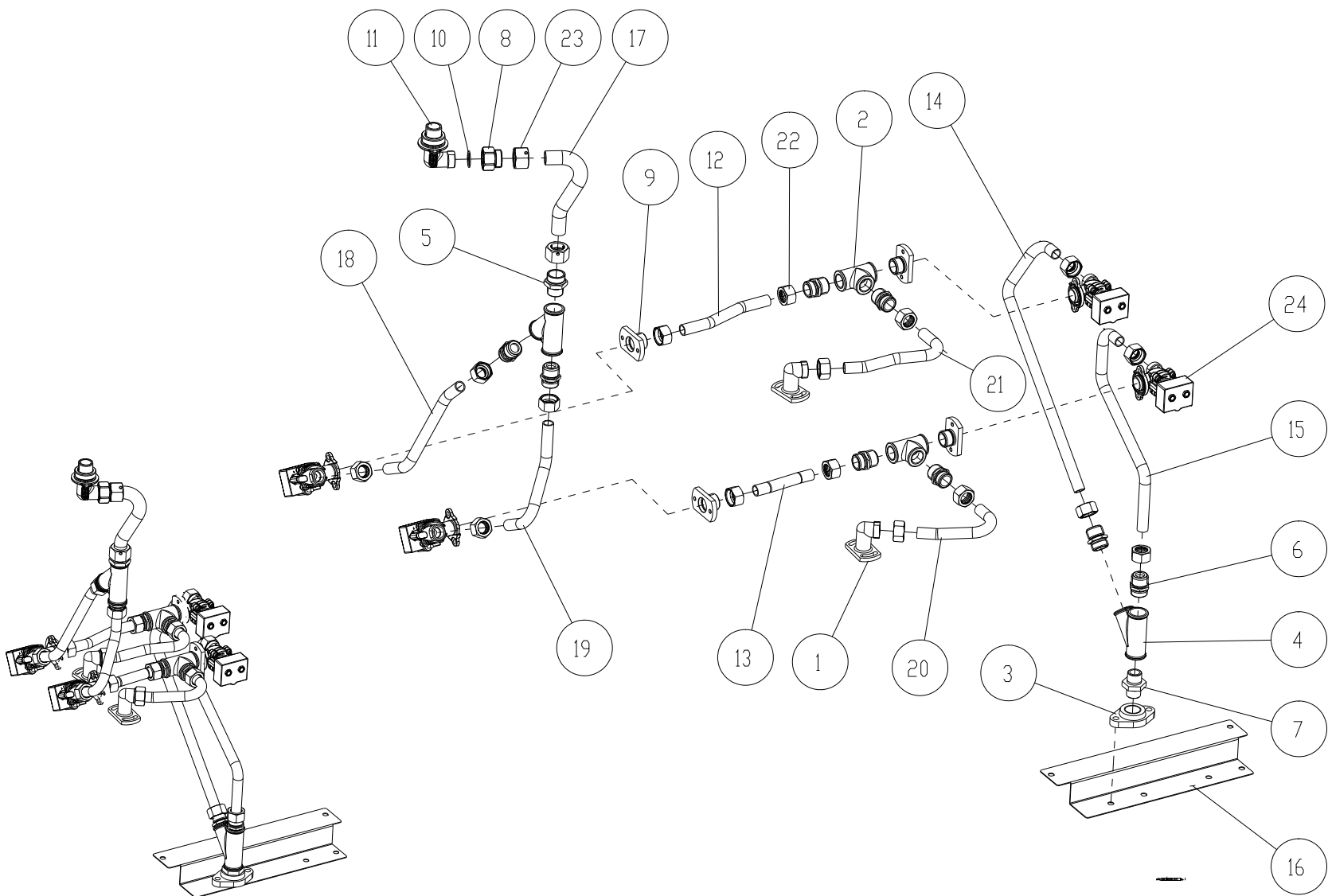
Item No	Description	Désignation Français	Part No	Comments
1	Outlet Elbow	Outlet Elbow	947587	
2	Piston Valve 3/4 POM/PPS	Soupape 3/4DN17 POM/PPS	900080	
3	Nipple 22mm G1"-G3/4"	Douille 22mm G1	900416	
4	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
5	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
6	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
7	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
8	Elbow 1" M_F	Coude 1" M_F	901866-001	
9	Nipple M-M 1" to 3/4"	Mamelon M-M 1" à 3/4"	900030-002	
10	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
11	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
12	Flange Adapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
13	Pipe Simple VHS 1B	Tube Simple VHS 1B	946894	Cut pipe to required length
14	Pipe Simple VHS 4A	Tube Simple VHS 4A	946895	Cut pipe to required length
15	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
16	Pipe Simple VHS 1A 130-40	Tube Simple VHS 1A 130-40	946902	
17	Pipe Simple VHS 4A1 130-40	Tube Simple VHS 4A1 130-40	946903	
18	Pipe Simple VHS 4A2 130-40	Tube Simple VHS 4A2 130-40	946904	
19	Pipe Simple VHS 4B 130-40	Tube Simple VHS 4B 130-40	946905	
20	Pipe Simple VHS 1B1 130-40	Tube Simple VHS 1B1 130-40	946906	
21	Pipe Simple VHS 1B2 130-40	Tube Simple VHS 1B2 130-40	946907	
22	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
23	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies
24	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

4.4.4 MODEL VHS 2-4 - MANUFACTURED AFTER NOVEMBER 2012



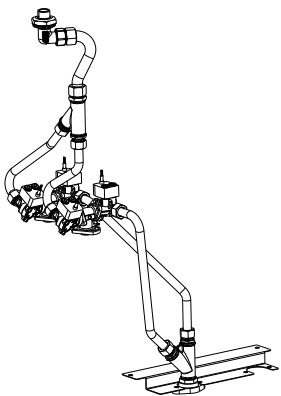
Item No	Description	Désignation Français	Part No	Comments
1	Pipe Nut Asm 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assys
2	Pipe Nut Asm 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assys
3	O-Ring 34,10x3,60	Joint Torique 34,10x3,60	900050-019	
4	Washer Sealing 50x64x1,5	Rondelle Etanche 50x64x1,5	900101-007	
5	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
6	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
7	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
8	Valve Assembly	Valve Assembly	-	Refer to Value & Fittings Asm
9	Tee connection Valvebox F/F/F	Raccord Te F-F-F Electrov	940300	
10	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
11	AdB Nozzle Extender Seal	Joint unité extension bec AdB	941989	
12	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (moul é)	943914	
13	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
14	Pipe Simple VHS 1B Submerged	Tube Simple VHS 1B Immerge	946899	
15	Steel M48x2 Backnut	Steel M48x2 Backnut	947408	
16	Pipe VHS Master 1A	Pipe VHS Master 1A	950977	
17	Pipe VHS Master 4B	Pipe VHS Master 4B	950982	
18	Pipe VHS 130-40 4B to Noz 1R	Pipe VHS 130-40 4B to Noz 1R	951840	
19	Pipe VHS 130-40 1A to Noz 4L	Pipe VHS 130-40 1A to Noz 4L	951841	
20	Pipe VHS 130-40 4A to Noz 4R	Pipe VHS 130-40 4A to Noz 4R	951842	

4.4.5 MODELS VHSM 1-1 & VHSM 1-2 (LEFT SIDE ONLY) - MANUFACTURED BEFORE DECEMBER 2012

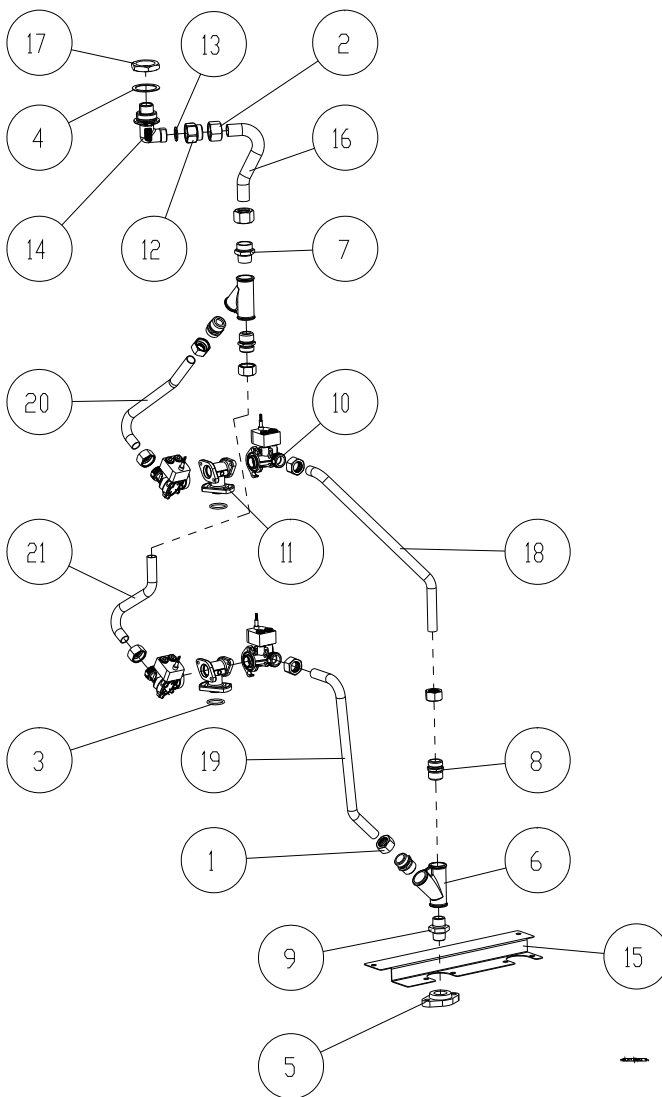


Item No	Description	Désignation Français	Part No	Comments
1	Outlet Elbow	Outlet Elbow	947587	
2	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
3	Flange 1" 78mm	Bride 1" 78mm	901320-001	
4	T45° Egal piece 1"	Té45° Egale pièce 1"	901610-001	
5	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Nipple M-M 1"	Mmmelon M-M 1"	906191	
8	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
9	Flange Adaptor G1"-pipe Ø22	Bride Adaptation G1"-tube Ø22	941096	
10	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
11	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
12	Pipe Spin VHS Master 1A Bridge	Tube Filtre Master 1A	946200	
13	Pipe Spin VHS Master 1B Bridge	Tube Filtre Master 1B	946201	
14	Pipe Spin VHS Master Riser 1A	Tube Filtre Master Vertical 1A	946206	
15	Pipe Spin VHS Master Riser 1B	Tube Filtre Master Vertical 1B	946207	
16	Bracket VHS Master Shipping	Support VHS Master Transit	946538	
17	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
18	Pipe Simple VHS Master 1B1	Tube Simple VHS Maitre 1B1	946910	
19	Pipe Simple VHS Master 1B2	Tube Simple VHS Maitre 1B2	946921	
20	Pipe Simple VHS Master 1B	Tube Simple VHS Maitre 1B	946922	
21	Pipe Simple VHS Master 1A	Tube Simple VHS Maitre 1A	946923	
22	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
23	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies
24	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

4.4.6 MODELS VHSM 1-1 & VHSM 1-2 (LEFT SIDE ONLY) - MANUFACTURED AFTER NOVEMBER 2012

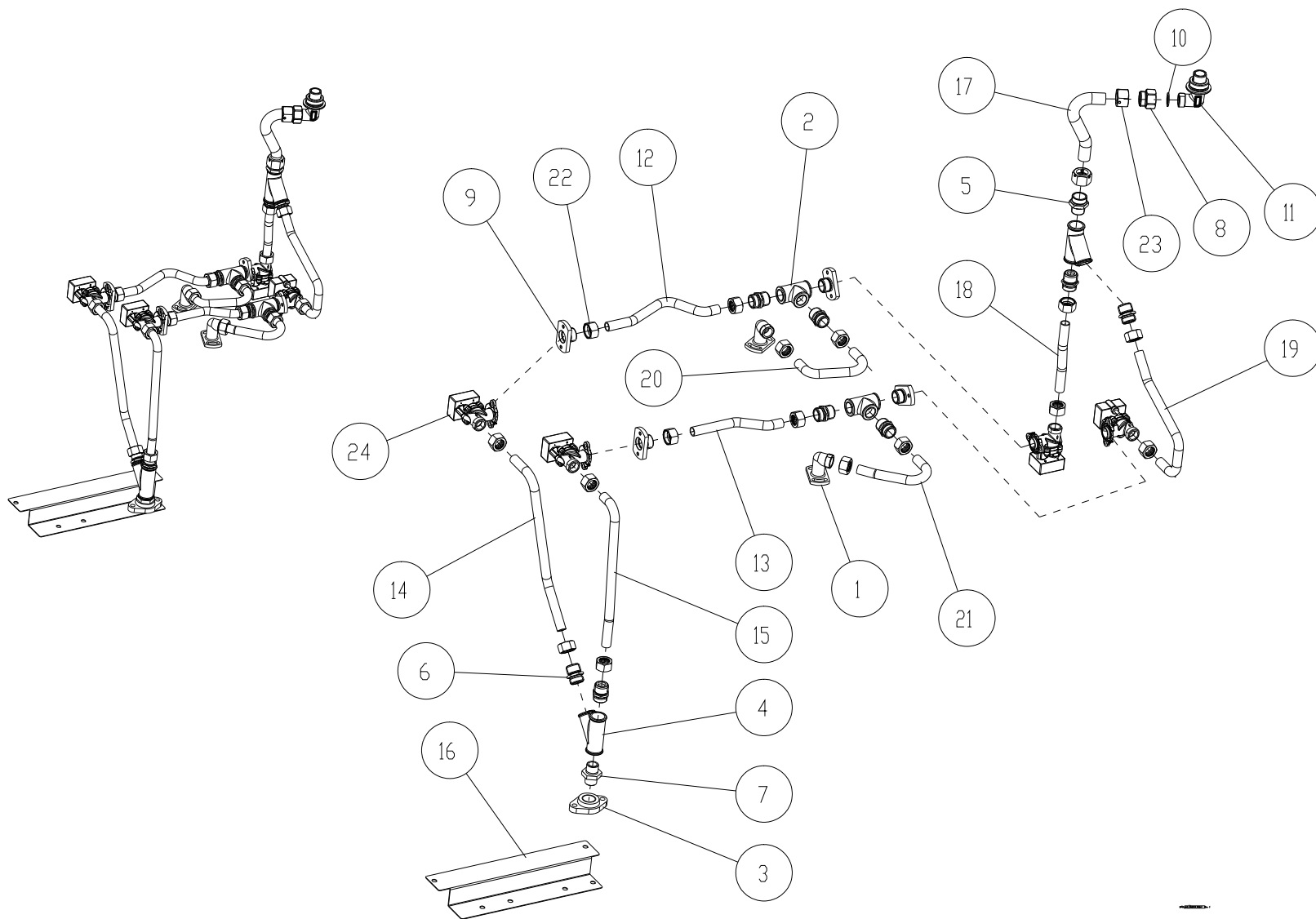


VHSM 1-1 OR VHSM 1-2 LEFT



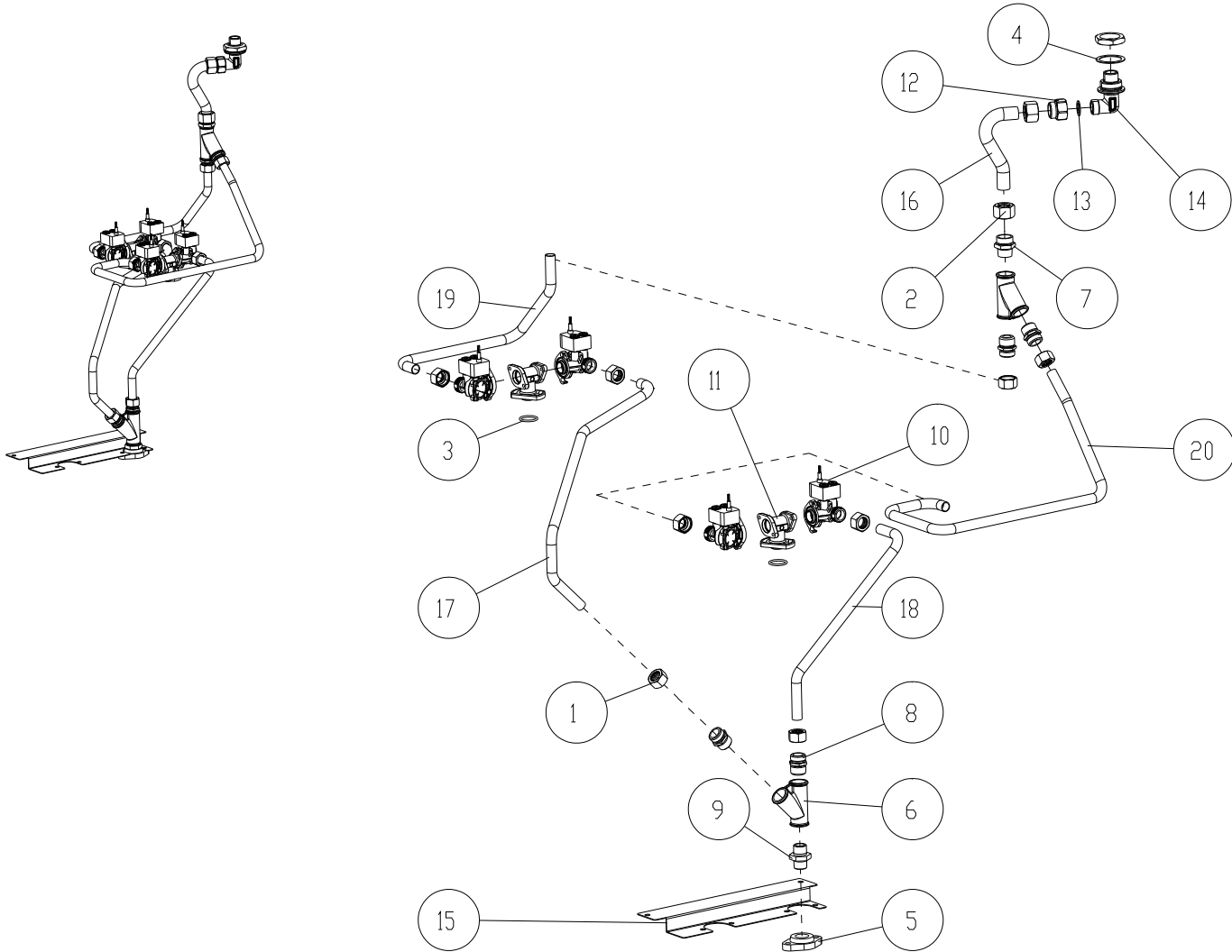
Item No	Description	Désignation Français	Part No	Comments
1	Pipe Nut Asm 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Asm
2	Pipe Nut Asm 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Asm
3	O-Ring 34,10x3,60	Joint Torique 34,10x3,60	900050-019	
4	Washer Sealing 50x64x1,5	Rondelle Etanche 50x64x1,5	900101-007	
5	Flange 1" 78mm	Bride 1" 78mm	901320-001	
6	T45° egal piece 1"	Té45° égale pièce 1"	901610-001	
7	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
8	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
9	Nipple M-M 1"	Mmmelon M-M 1"	906191	
10	SIB Valve Double coil 24V E85	Electrovanne SIB Double 224V E85	-	Refer to Valve Fittings Asm
11	Tee connection Valvebox F/F/F	Raccord Te F-F-F Electrov	940300	
12	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
13	AdB Nozzle Extender Seal	Joint unité extension bec Adb	941989	
14	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (moul é)	943914	
15	Bracket VHS Master Shipping	Support VHS Master transit	946538	
16	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
17	Steel M48x2 Backnut	Steel M48x2 Backnut	947408	
18	Pipe VHS Master Riser 1A	Pipe VHS Master Riser 1A	950975	
19	Pipe VHS Master Riser 1B	Pipe VHS Master Riser 1B	950976	
20	Pipe VHS Master 1A	Pipe VHS Master 1A	950977	
21	Pipe VHS Master 1B	Pipe VHS Master 1B	950978	

4.4.7 MODELS VHSM 1-1 & VHSM 1-2 (RIGHT SIDE ONLY) - MANUFACTURED BEFORE NOVEMBER 2012



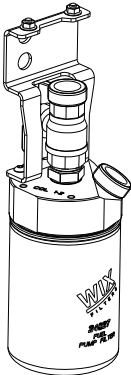
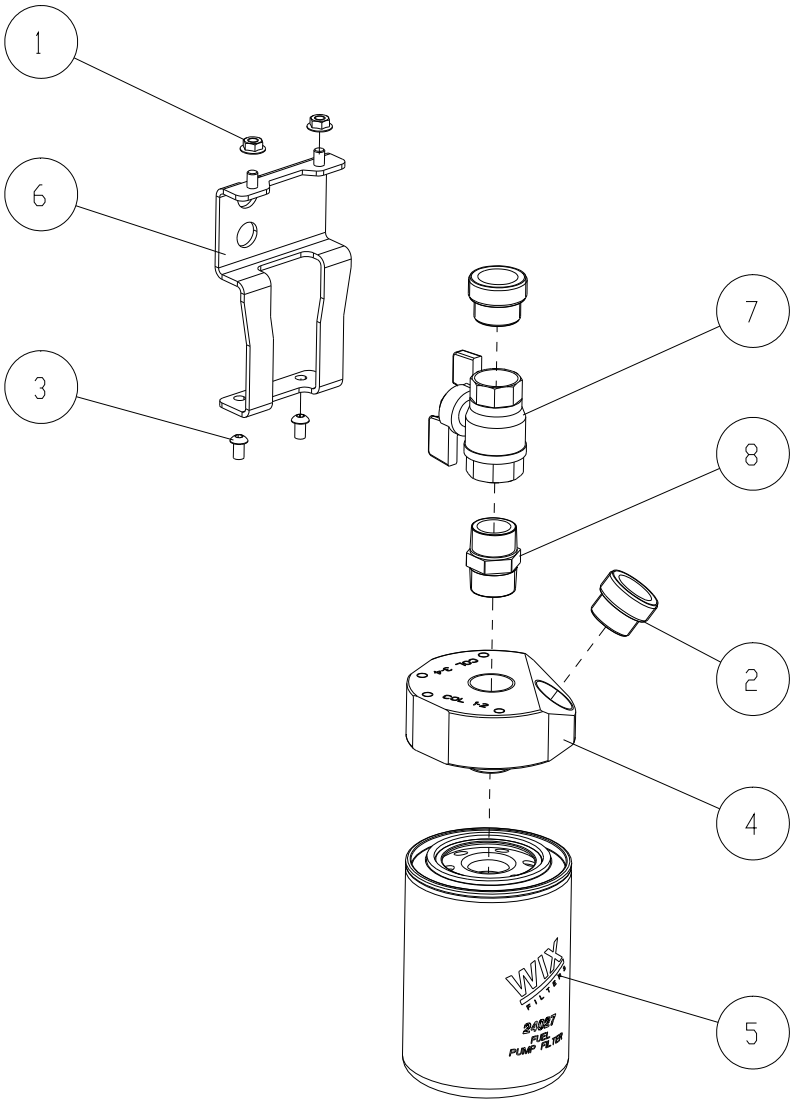
Item No	Description	Désignation Français	Part No	Comments
1	Outlet Elbow	Outlet Elbow	947587	
2	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
3	Flange 1" 78mm	Bride 1" 78mm	901320-001	
4	T45° Egal piece 1"	Té45° Egale pièce 1"	901610-001	
5	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Nipple M-M 1"	Mmmelon M-M 1"	906191	
8	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
9	Flange Adaptor G1"-pipe Ø22	Bride Adaptation G1"-tube Ø22	941096	
10	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
11	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
12	Pipe Spin VHS Master 1A Bridge	Tube Filtre Master 1A	946200	
13	Pipe Spin VHS Master 1B Bridge	Tube Filtre Master 1B	946201	
14	Pipe Spin VHS Master Riser 1A	Tube Filtre Master Vertical 1A	946206	
15	Pipe Spin VHS Master Riser 1B	Tube Filtre Master Vertical 1B	946207	
16	Bracket VHS Master Shipping	Support VHS Master Transit	946538	
17	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
18	Pipe Simple VHS Master 1B1	Tube Simple VHS Maitre 1B1	946910	
19	Pipe Simple VHS Master 1B2	Tube Simple VHS Maitre 1B2	946921	
20	Pipe Simple VHS Master 1B	Tube Simple VHS Maitre 1B	946922	
21	Pipe Simple VHS Master 1A	Tube Simple VHS Maitre 1A	946923	
22	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
23	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies
24	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

4.4.8 MODELS VHSM 1-1 & VHSM 1-2 (RIGHT SIDE ONLY) - MANUFACTURED AFTER DECEMBER 2012

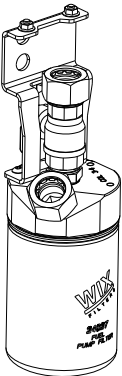


Item No	Description	Désignation Français	Part No	Comments
1	22mm Pipe Nut Assembly	22mm Pipe Nut Assembly	-	Refer to Pipe Nut Assembly
2	28mm Pipe Nut Assembly	28mm Pipe Nut Assembly	-	Refer to Pipe Nut Assembly
3	O-Ring 34,10 x 3,60	Joint Torique 34,10 x 3,60	900050-019	
4	Washer Sealing 50x64x1.5	Rondelle Etanche 50x64x1.5	900101-007	
5	Flange 1" 78mm	Bride 1" 78mm	901320-001	
6	T45° egal piece 770 165 206	Té45° égale pièce 770 165 206	901610-001	
7	Nipple 28mm M36x2-R1	Douille 28mm M36x2-R1	901767	
8	Nipple 22mm G1" - G1"	Douille 1" G1	901772	
9	Nipple M-M 1"	Mamelon M-M 1"	906191	
10	Valve Assembly	Valve Assembly	-	Refer to Vave & Fittings Assembly
11	Tee connection Valvebox F/F/F	Raccord TE. F-F-F.Electrov	940300	
12	Nipple M-F 1" to M36	Mamelon M-F 1" to M36	940950	
13	AdB Nozzle Extender Seal	Joint unité extension bec AdB	941989	
14	Flange Adapter Non-VR (Cast)	Adapteur Bride Non-VR (moulé)	943914	
15	Bracket VHS Master Shipping	Support VHS Master Transit	946538	
16	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
17	Pipe VHS Master Riser 4A	Pipe VHS Master Riser 4A	950979	
18	Pipe VHS Master Riser 4B	Pipe VHS Master Riser 4B	950980	
19	Pipe VHS Master 4A	Pipe VHS Master 4A	950981	
20	Pipe VHS Master 4B	Pipe VHS Master 4B	950982	

4.5 Spin On Filter Assembly



LEFT (For Positions 1 & 2)



RIGHT (For Positions 3 & 4)

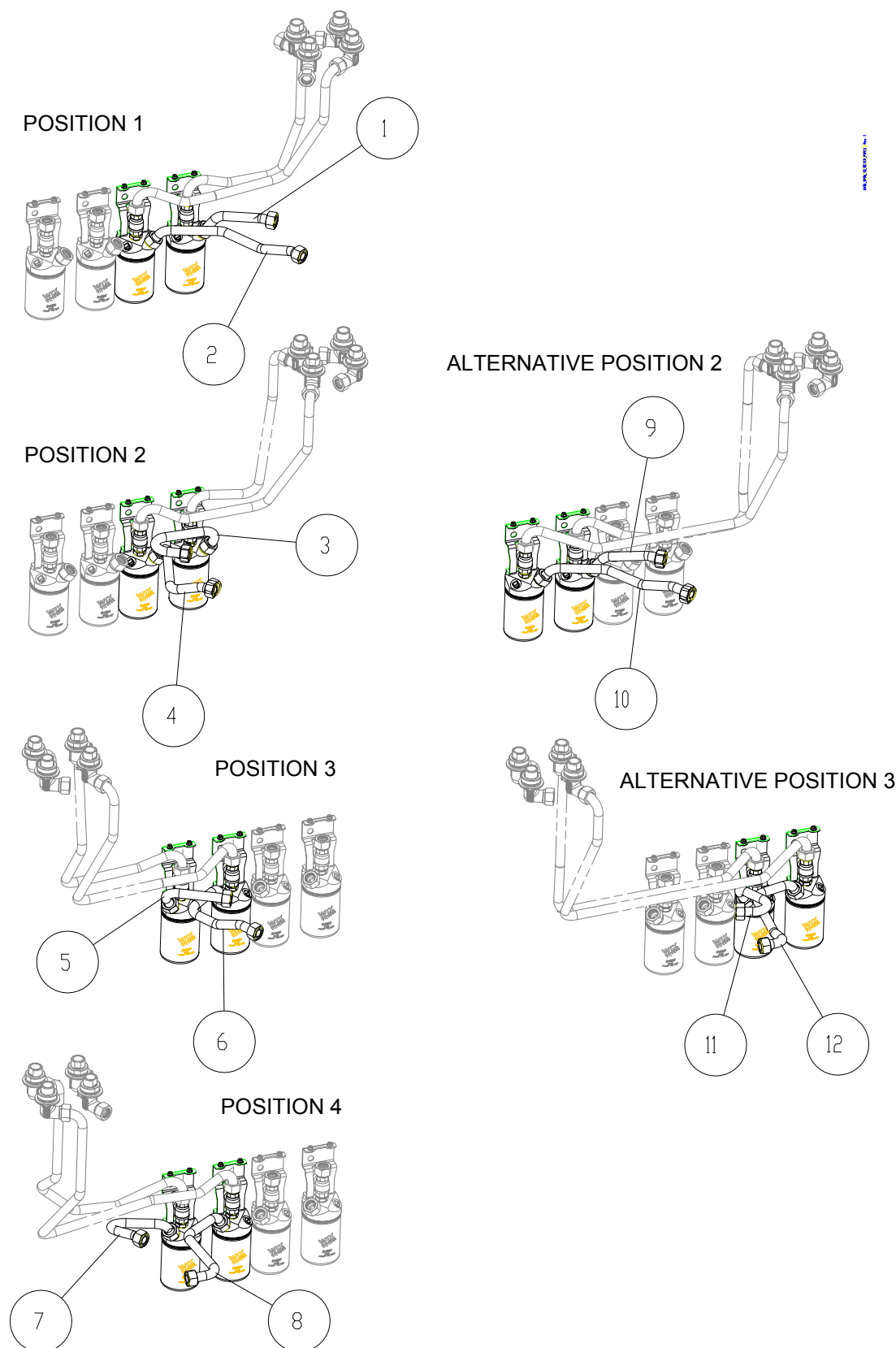


Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Nipple 22mm G1"-G3/4"	Douille 22mm G1	900416	
3	Screw HSB M6x10	Vis M6x10	900795-005	
4	Spin Filter Housing	Adaptateur Filtre a Visser	946037	
5	Filter Cartridge WIX 24027	Cartouche Filtrante WIX 24027	946214	
6	Bracket Spin Filter Housing	Support Filtre a Visser	946428	
7	Ball Valve 3/4" F F	Vanne Manuel 3/4" F/F	946445	
8	Nipple R3/4" Short	Mamellon 3/4"	946446	



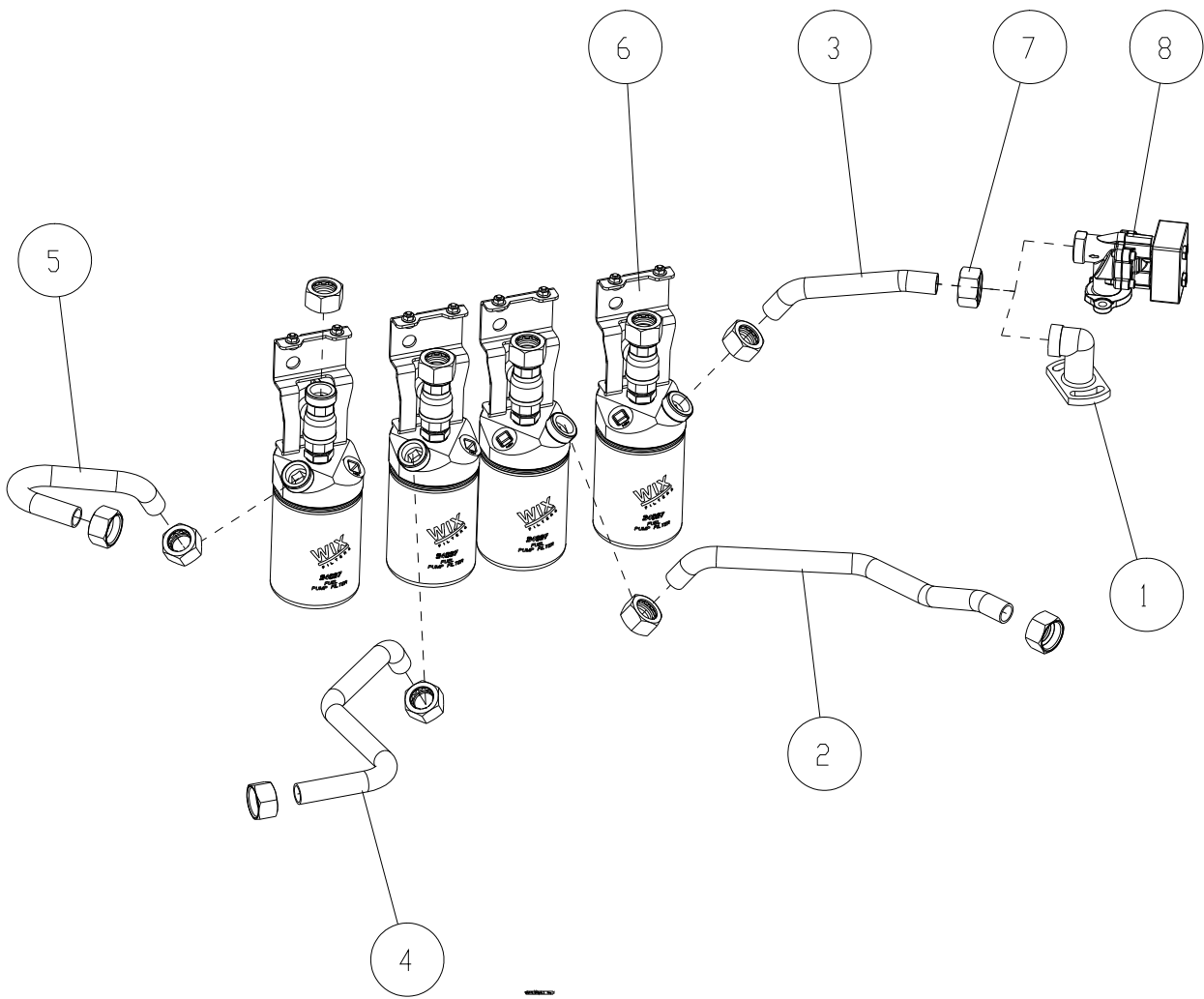
4.6 Meter to Spin On Filter Pipe Assemblies

4.6.1 STANDARD MODELS & HIGH SPEED SUBMERGED MODELS & HIGH SPEED NON-SUBMERGED MODELS

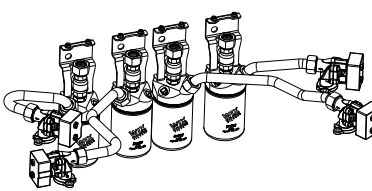
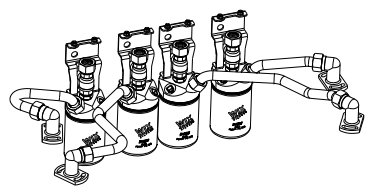
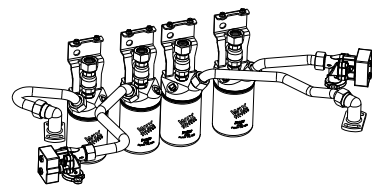


Item No	Description	Désignation Français	Part No	Comments
1	Pipe Spin EPZ 1B	Tube Filtre EPZ 1B	946167	Position 1 only
2	Pipe Spin EPZ 1A	Tube Filtre EPZ 1A	946166	Position 1 only
3	Pipe Spin EPZ 2B short	Tube Filtre EPZ 2B	946169	Position 2 only
4	Pipe Spin EPZ 2A short	Tube Filtre EPZ 2A	946168	Position 2 only
5	Pipe Spin EPZ 3B short	Tube Filtre EPZ 3B	946173	Position 3 only
6	Pipe Spin EPZ 3A short	Tube Filtre EPZ 3A	946172	Position 3 only
7	Pipe Spin EPZ 4B	Tube Filtre EPZ 4B	946177	Position 4 only
8	Pipe Spin EPZ 4A	Tube Filtre EPZ 4A	946176	Position 4 only
9	Pipe Spin EPZ 2B long	Tube Filtre EPZ 2B	946171	Alternative Position 2 only
10	Pipe Spin EPZ 2A long	Tube Filtre EPZ 2A	946170	Alternative Position 2 only
11	Pipe Spin EPZ 3B long	Tube Filtre EPZ 3B	946175	Alternative Position 3 only
12	Pipe Spin EPZ 3A long	Tube Filtre EPZ 3A	946174	Alternative Position 3 only





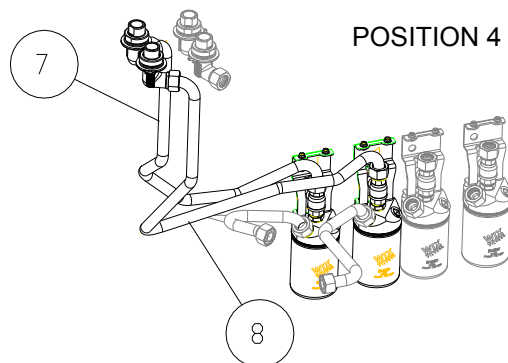
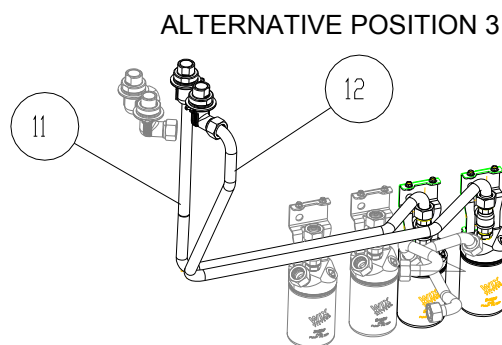
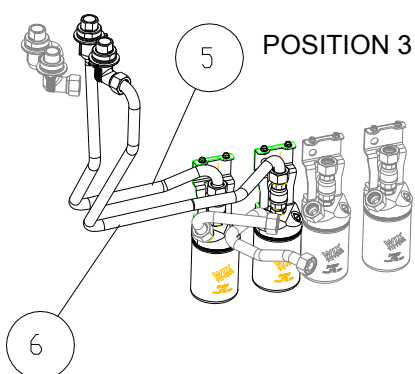
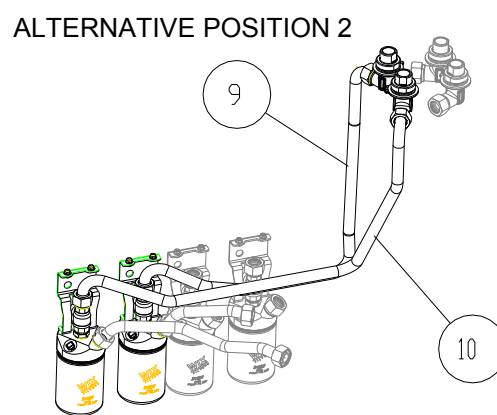
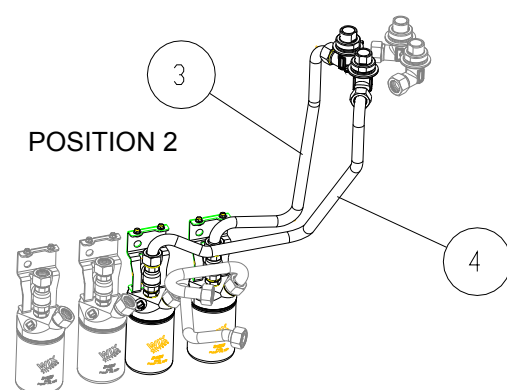
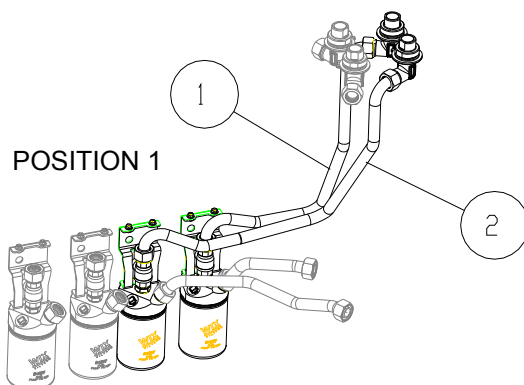
4.6.2 VHS MODELS



Item No	Description	Désignation Français	Part No	Comments
1	Outlet Elbow	Outlet Elbow	947587	
2	Pipe Spin PAS 1A	Tube Filtre Pas 1A	946178	Submerged only
	Pipe Spin EPZ 1A	Tube Filtre EPZ 1A	946166	
3	Pipe Spin PAS 1B	Tube Filtre PAS 1B	946179	Submerged only
	Pipe Spin EPZ 1B	Tube Filtre EPZ 1B	946167	
4	Pipe Spin PAS 4A	Tube Filtre PAS 4A	946180	VHS Master Position 4 only Submerged only
	Pipe Spin VHS Master PAS 4A	Tube Filtre VHS PAS 4A	946195	
	Pipe Spin EPZ 4A	Tube Filtre EPZ 4A	946176	
5	Pipe Spin PAS 4B	Tube Filtre PAS 4B	946181	Submerged only
	Pipe Spin EPZ 4B	Tube Filtre EPZ 4B	946177	
6	Spin On Filter Assembly	Filtre a Visser Asm	946215	Refer to Spin On Filter Assembly
7	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
8	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

4.7 Spin On Filter to Hose Pipe Assemblies

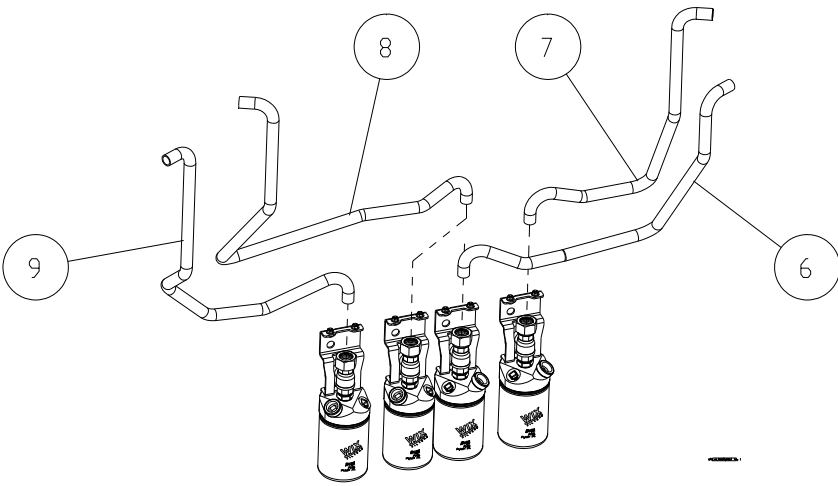
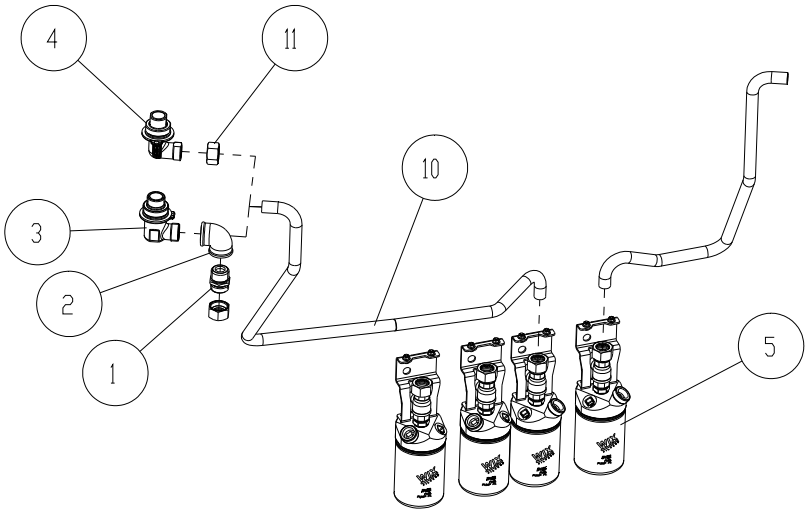
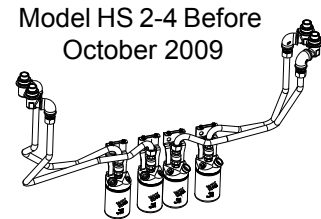
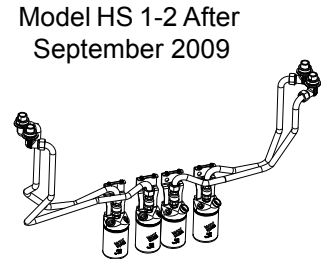
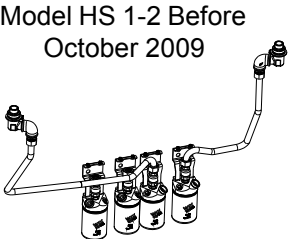
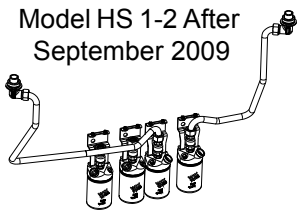
4.7.1 STANDARD MODELS & HIGH SPEED MODELS



Item No	Description	Désignation Français	Part No	Comments
1	Pipe Spin 1B out	Tube Filtre 1B	946944	
2	Pipe Spin 1A out	Tube Filtre 1A	946943	
3	Pipe Spin 2B out short	Tube Filtre 2B	946946	
4	Pipe Spin 2A out short	Tube Filtre 2A	946945	
5	Pipe Spin 3B out short	Tube Filtre 3B	946950	
6	Pipe Spin 3A out short	Tube Filtre 3A	946949	
7	Pipe Spin 4B out	Tube Filtre 4B	946954	
8	Pipe Spin 4A out	Tube Filtre 4A	946953	
9	Pipe Spin 2B out long	Tube Filtre 2B	946948	
10	Pipe Spin 2A out long	Tube Filtre 2A	946947	
11	Pipe Spin 3B out long	Tube Filtre 3B	946952	
12	Pipe Spin 3A out long	Tube Filtre 3A	946951	

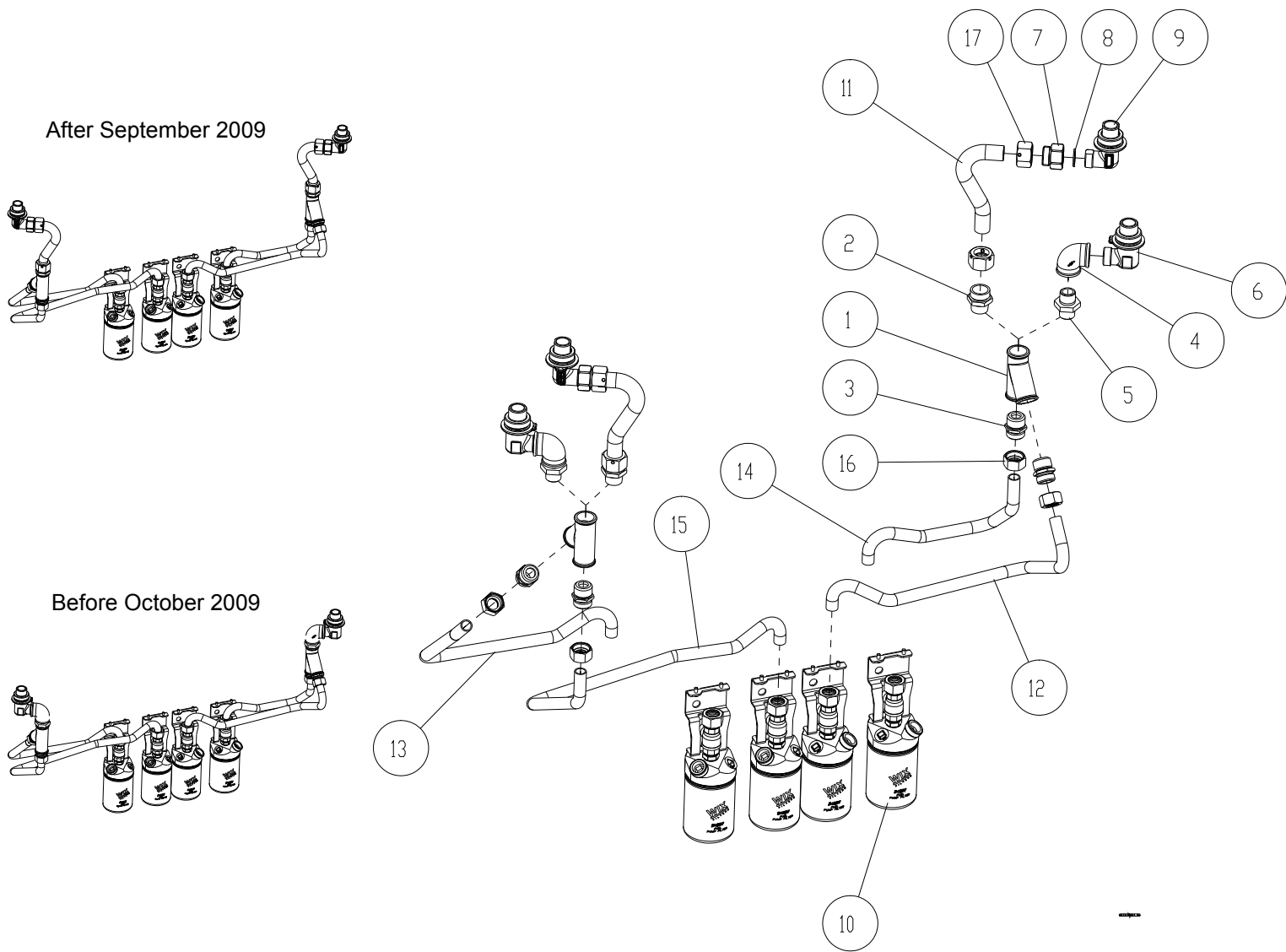


4.7.2 MODELS HS 1-2 & HS 2-4



Item No	Description	Désignation Français	Part No	Comments
1	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
2	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
3	Flange Bulkhead Adapter Non-VR	Non-VR Adaptateur G1	908823	
4	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
5	Assy Spin On Filter	Asm Filtre a Visser	-	Refer to Spin On Filter Assembly
6	Pipe Spin 1A out	Tube Filtre 1A	946943 946154	After September 2009 Before October 2009
7	Pipe Spin 1B out	Tube Filtre 1B	946944 946155	After September 2009 Before October 2009
8	Pipe Spin 4A out	Tube Filtre 4A	946953 946164	After September 2009 Before October 2009
9	Pipe Spin 4B out	Tube Filtre 4B	946954 946165	After September 2009 Before October 2009
10	Pipe Spin 1A HS 1-2	Tube Filtre 1A HS 1-2	946971 946448	After September 2009, HS 1-2 only Before October 2009, HS 1-2 only
11	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies

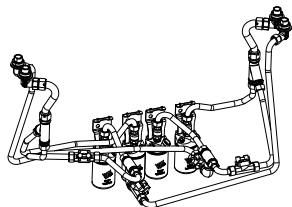
4.7.3 MODEL VHS 1-2



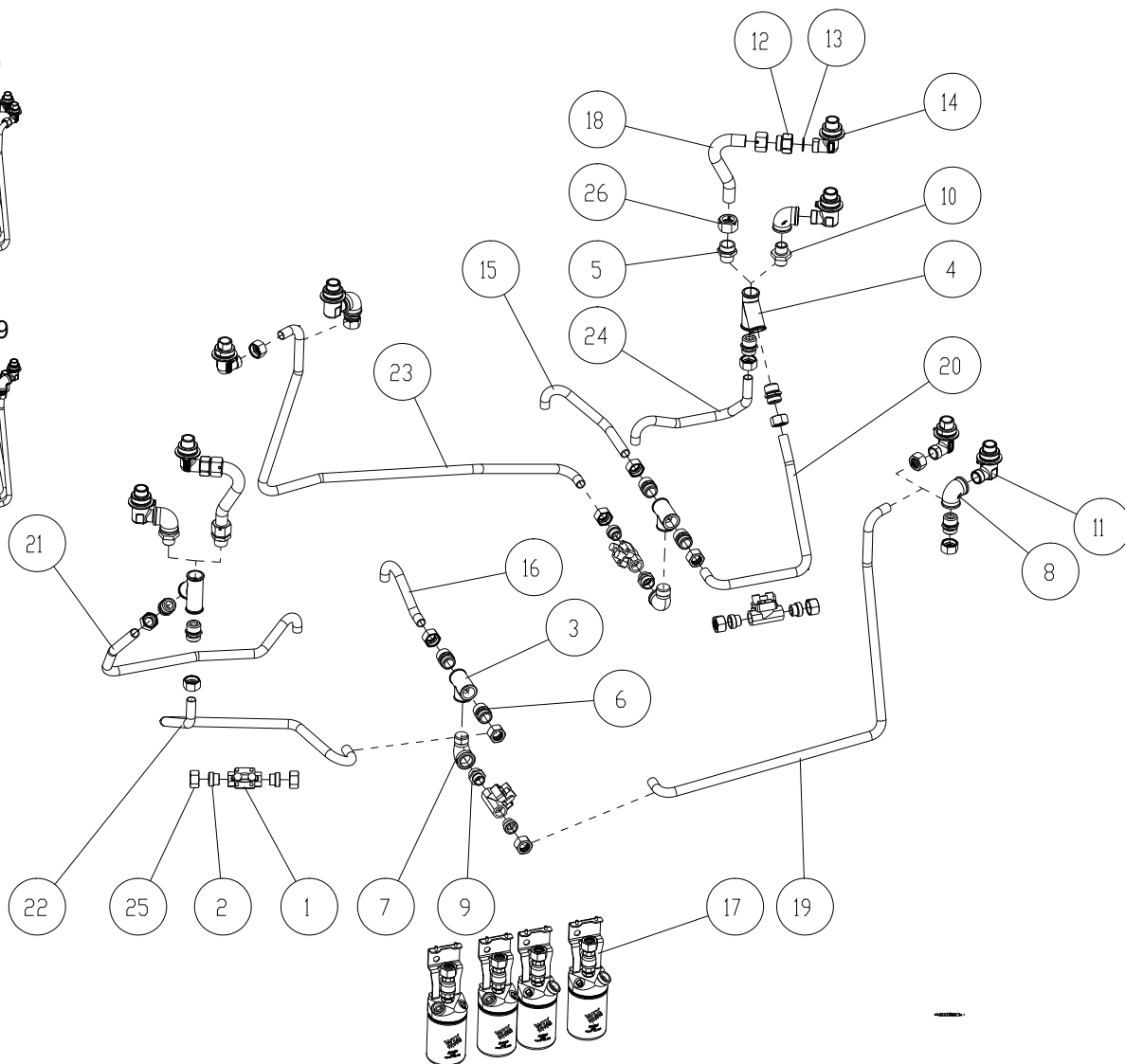
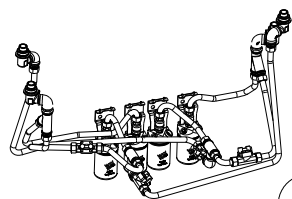
Item No	Description	Désignation Français	Part No	Comments
1	T45° Egal Piece 1"	Té45° Egale Pièce 1"	901610-001	
2	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
3	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
4	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
5	Nipple M-M 1"	Mmmelon M-M 1"	906191	
6	Flange Bulkhead Adapter Non_VR	Non-VR Adaptateur G1	908823	
7	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
8	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
9	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
10	Assy Spin On Filter	Asm Filtre a Visser	-	Refer to Spin On Filter Assembly
11	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
12	Pipe Spin VHS 1-2 1A out	Tube Filtre VHS 1-2 1A	946955 946189	After September 2009 Before October 2009
13	Pipe Spin VHS 1-2 4B out	Tube Filtre VHS 1-2 4B	946956 946190	After September 2009 Before October 2009
14	Pipe Spin 1B out	Tube Filtre 1B	946962 946155	After September 2009 Before October 2009
15	Pipe Spin 4A out	Tube Filtre 4A	946967 946164	After September 2009 Before October 2009
16	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
17	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies

4.7.4 MODEL VHS 2-4

After September 2009



Before October 2009



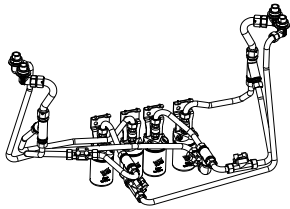
Item No	Description	Désignation Français	Part No	Comments
1	Piston Valve 3/4 POM/PPS	Soupape 3/4DN17 POM/PPS	900080	
2	Nipple 22mm G1"-G3/4"	Douille 22mm G1	900416	
3	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
4	T45° Egal Piece 1"	Té45° Egale Pièce 1"	901610-001	
5	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
6	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
7	Elbow 1" M_F	Coude 1" M_F	901866-001	
8	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
9	Nipple M-M 1" to 3/4"	Mamelon M-M 1" à 3/4"	900030-002	
10	Nipple M-M 1"	Mmmelon M-M 1"	906191	
11	Flange Bulkhead Adapter Non-VR	Non-VR Adaptateur G1	908823	
12	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
13	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
14	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
15	Pipe Spin 130-40 1A Bridge	Tube Filtre 130-40 1A	946187	
16	Pipe Spin 130-40 4B Bridge	Tube Filtre 130-40 4B	946188	
17	Spin On Filter Assembly	Filtre a Visser Asm	-	Refer to Spin On Filter Assembly
18	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
19	Pipe Spin 130-40 1A	Tube Filtre 130-40 1A	946957 946182	After September 2009 Before October 2009
20	Pipe Spin 130-40 1B1	Tube Filtre 130-40 1B1	946958 946183	After September 2009 Before October 2009
21	Pipe Spin 130-40 4A1	Tube Filtre 130-40 4A1	946959 946184	After September 2009 Before October 2009
22	Pipe Spin 130-40 4A2	Tube Filtre 130-40 4A2	946960 946185	After September 2009 Before October 2009
23	Pipe Spin 130-40 4B	Tube Filtre 130-40 4B	946961 946186	After September 2009 Before October 2009

(CONT.)

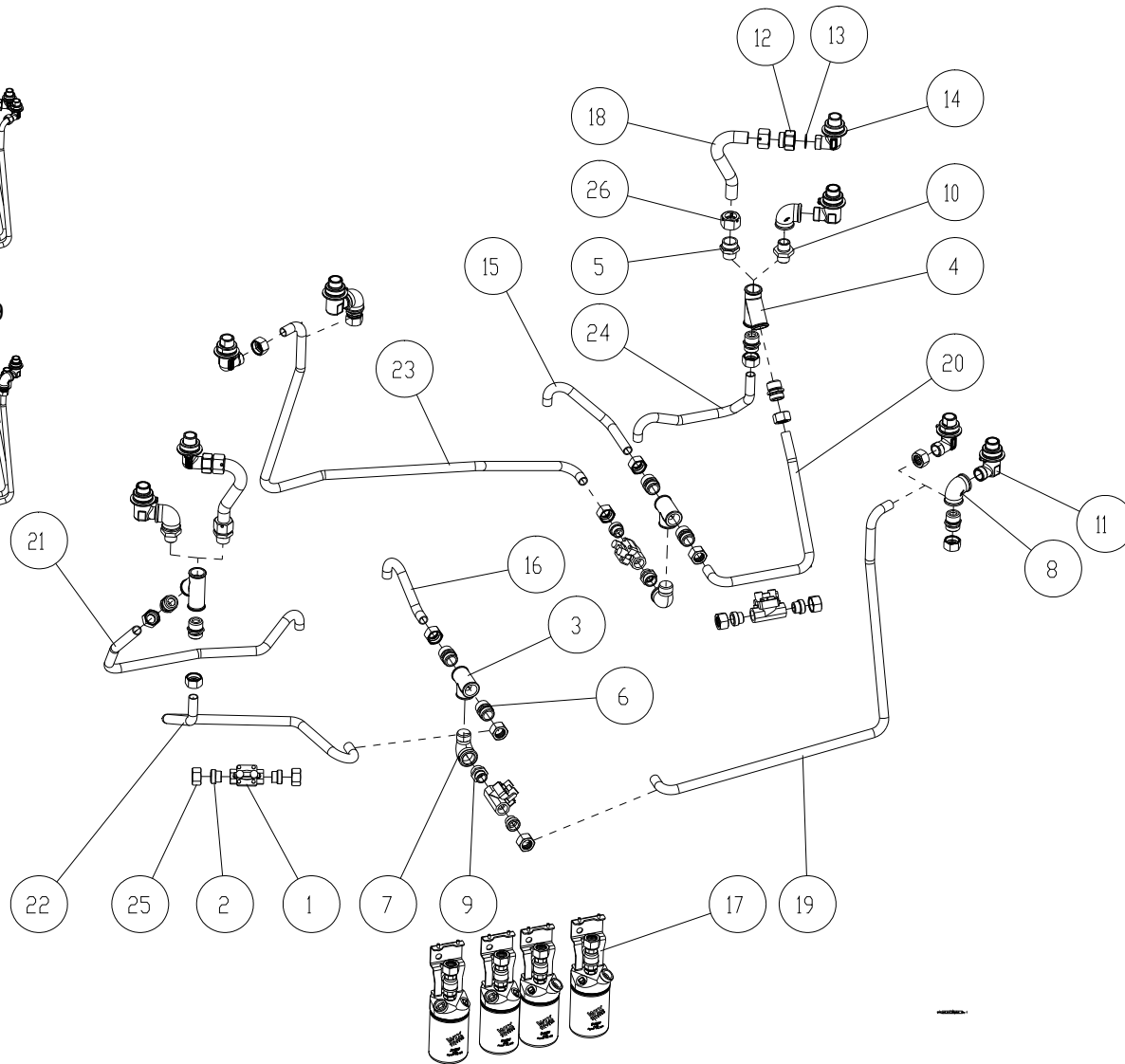
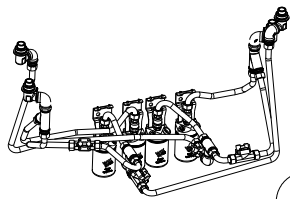


4.7.4 MODEL VHS 2-4 (CONT.)

After September 2009



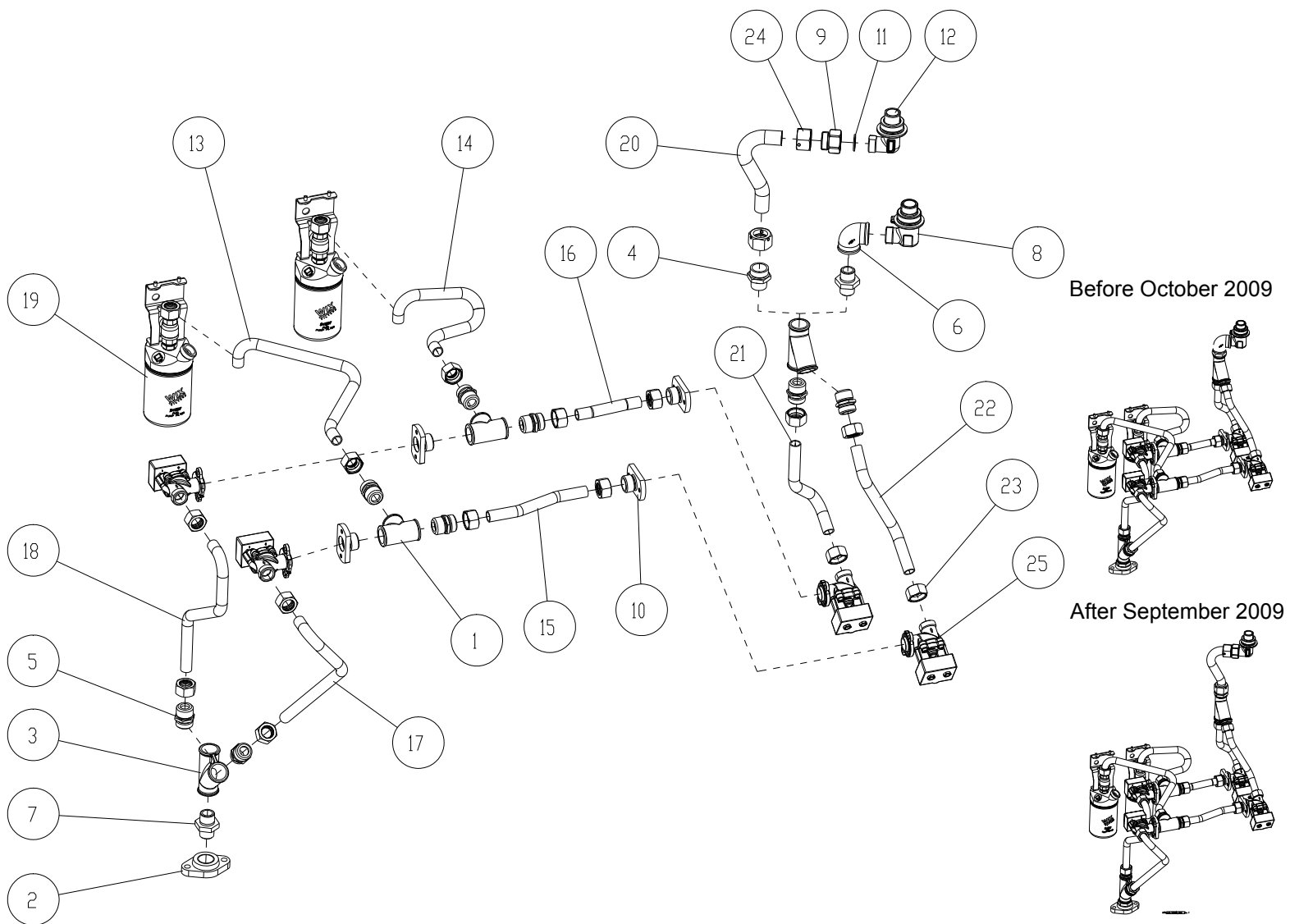
Before October 2009



Item No	Description	Désignation Français	Part No	Comments
24	Pipe Spin 1B out	Tube Filtre 1B	946962	After September 2009
			946192	Before October 2009
25	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
26	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies

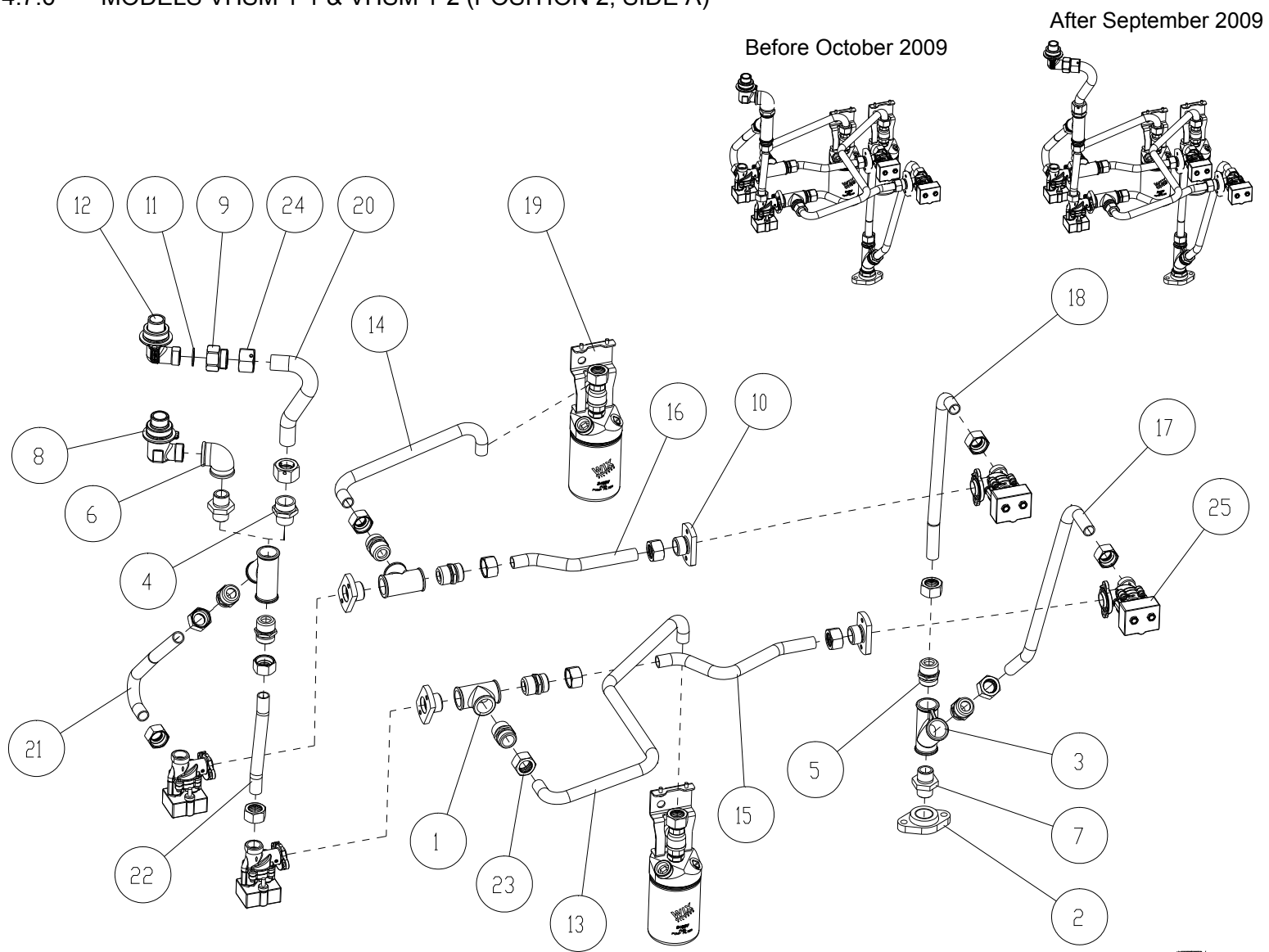


4.7.5 MODELS VHSM 1-2M & VHSM 1-1M (POSITION 1, SIDE B)



Item No	Description	Désignation Français	Part No	Comments
1	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
2	Flange 1" 78mm	Bride 1" 78mm	901320-001	
3	T45° Egal Piece 1"	Té45° Egale Pièce 1"	901610-001	
4	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
5	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
6	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
7	Nipple M-M 1"	Mamelon M-M 1"	906191	
8	Flange Bulkhead Adapter Non-VR	Non-VR Adaptateur G1	908823	
9	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
10	Flange Adaptor G1"-Pipe Ø22	Bride Adaptation G1"-Tube Ø22	941096	
11	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
12	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
13	Pipe Spin VHS Master 1A out	Tube Filtre VHS Master 1A	946191	
14	Pipe Spin VHS Master 1B out	Tube Filtre Master 1B	946192	
15	Pipe Spin VHS Master 1A bridge	Tube Filtre Master 1A	946200	
16	Pipe Spin VHS Master 1B bridge	Tube Filtre Master 1B	946201	
17	Pipe Spin VHS Master Riser 1A	Tube Filtre Master Vertical 1A	946206	
18	Pipe Spin VHS Master Riser 1B	Tube Filtre Master Vertical 1B	946207	
19	Spin On Filter Assembly	Filtre a Visser Asm	-	Refer to Spin On Filter Assembly
20	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
21	Pipe Spin VHS Master 1B1	Tube Filtre Master 1B1	946963 946204	After September 2009 Before October 2009
22	Pipe Spin VHS Master 1B2	Tube Filtre Master 1B2	946964 946206	After September 2009 Before October 2009
23	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
24	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies
25	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

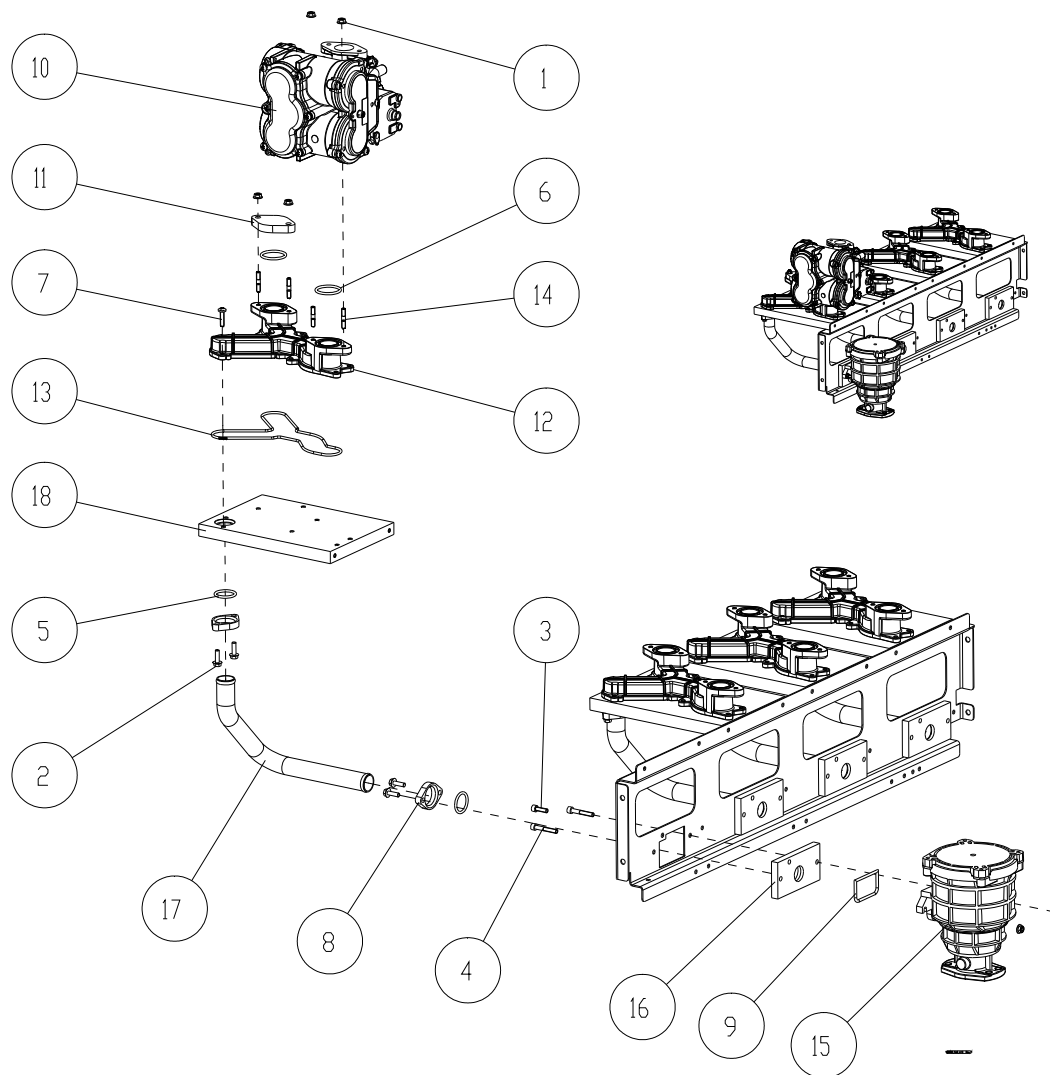
4.7.6 MODELS VHSM 1-1 & VHSM 1-2 (POSITION 2, SIDE A)



Item No	Description	Désignation Français	Part No	Comments
1	T1" Female Thread	Raccord Te 1" Filet Fem	900847-002	
2	Flange 1" 78mm	Bride 1" 78mm	901320-001	
3	T45° Egal Piece 1"	Té45° Egale Pièce 1"	901610-001	
4	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
5	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
6	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
7	Nipple M-M 1"	Mamelon M-M 1"	906191	
8	Flange Bulkhead Adapter Non-VR	Non-VR Adaptateur G1	908823	
9	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
10	Flange Adaptor G1"-Pipe Ø22	Bride Adaptation G1"-Tube Ø22	941096	
11	AdB Nozzle Extender Seal	Joint Unité Extension bec AdB	941989	
12	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moulé)	943914	
13	Pipe Spin VHS Master 4A out	Tube Filtre VHS Master 4A	946193	
14	Pipe Spin VHS Master 4B out	Tube Filtre Master 4B	946194	
15	Pipe Spin VHS Master 4A bridge	Tube Filtre Master 4A	946202	
16	Pipe Spin VHS Master 4B bridge	Tube Filtre Master 4B	946203	
17	Pipe Spin VHS Master Riser 4A	Tube Filtre Master Vertical 4A	946208	
18	Pipe Spin VHS Master Riser 4B	Tube Filtre Master Vertical 4B	946209	
19	Spin On Filter Assembly	Filtre a Visser Asm	-	Refer to Spin On Filter Assembly
20	Pipe Simple VHS 28mm Shunt	Tube Simple VHS 28mm Shunt	946897	
21	Pipe Spin VHS Master 1B1	Tube Filtre Master 1B1	946965 941089	After September 2009 Before October 2009
22	Pipe Spin VHS Master 1B2	Tube Filtre Master 1B2	946966 941088	After September 2009 Before October 2009
23	Pipe Nut Assembly 22mm	Tube Ecrou Asm 22mm	-	Refer to Pipe Nut Assemblies
24	Pipe Nut Assembly 28mm	Tube Ecrou Asm 28mm	-	Refer to Pipe Nut Assemblies
25	Valve & Fittings Assembly	Valve & Fittings Assembly	-	Refer to Valve & Fittings Assemblies

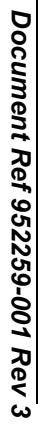
4.8 Submerged Hydraulics

4.8.1 SUBMERGED HYDRAULICS - MANUFACTURED BEFORE FEBRUARY 2014



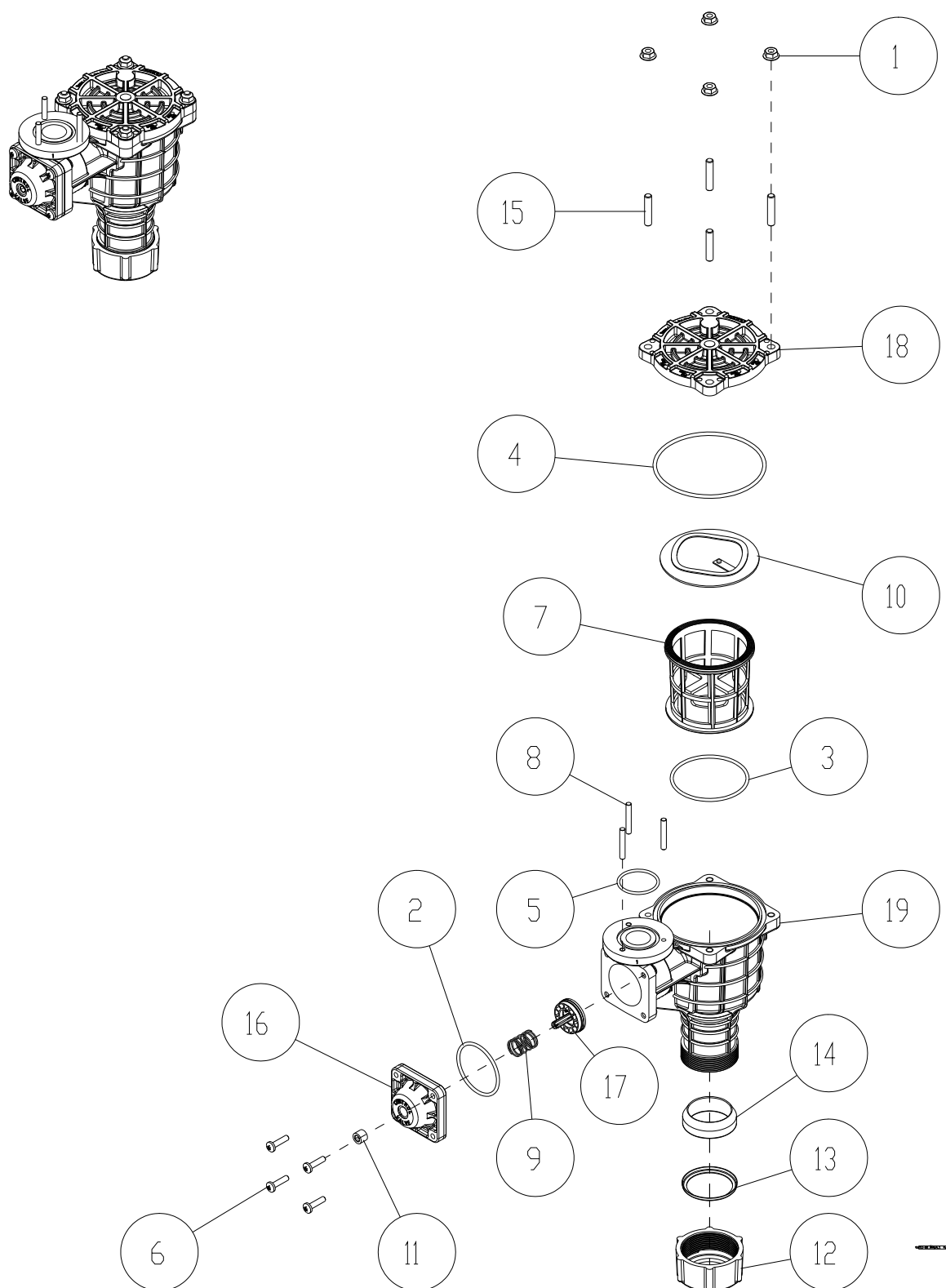
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Screw HFHSL M6x20	Vis Hex Br Autobl M6x20	900016-013	
3	Screw HSHC M6x20	Vis CHC M6x20	900017-006	
4	Screw HSHC M6x40	Vis CHC M6x40	900017-009	
5	O-Ring 27,80x3,60	Joint Torique 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	TM80 Meter TM80 Meter with EC TM80 Meter with TC SM80 Meter SM80 Meter with EC SM80 Meter with TC	Meter TM80 Meter TM80 EC Meter TM80 TC Meter SM80 Meter SM80 EC Meter SM80 TC	945118-501 945118-507 945118-513 9508013206 909795 909796	Refer to TM80 Manual Electronic Calibration Temperature Compensation Refer to SM80 Manual Electronic Calibration Temperature Compensation
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	

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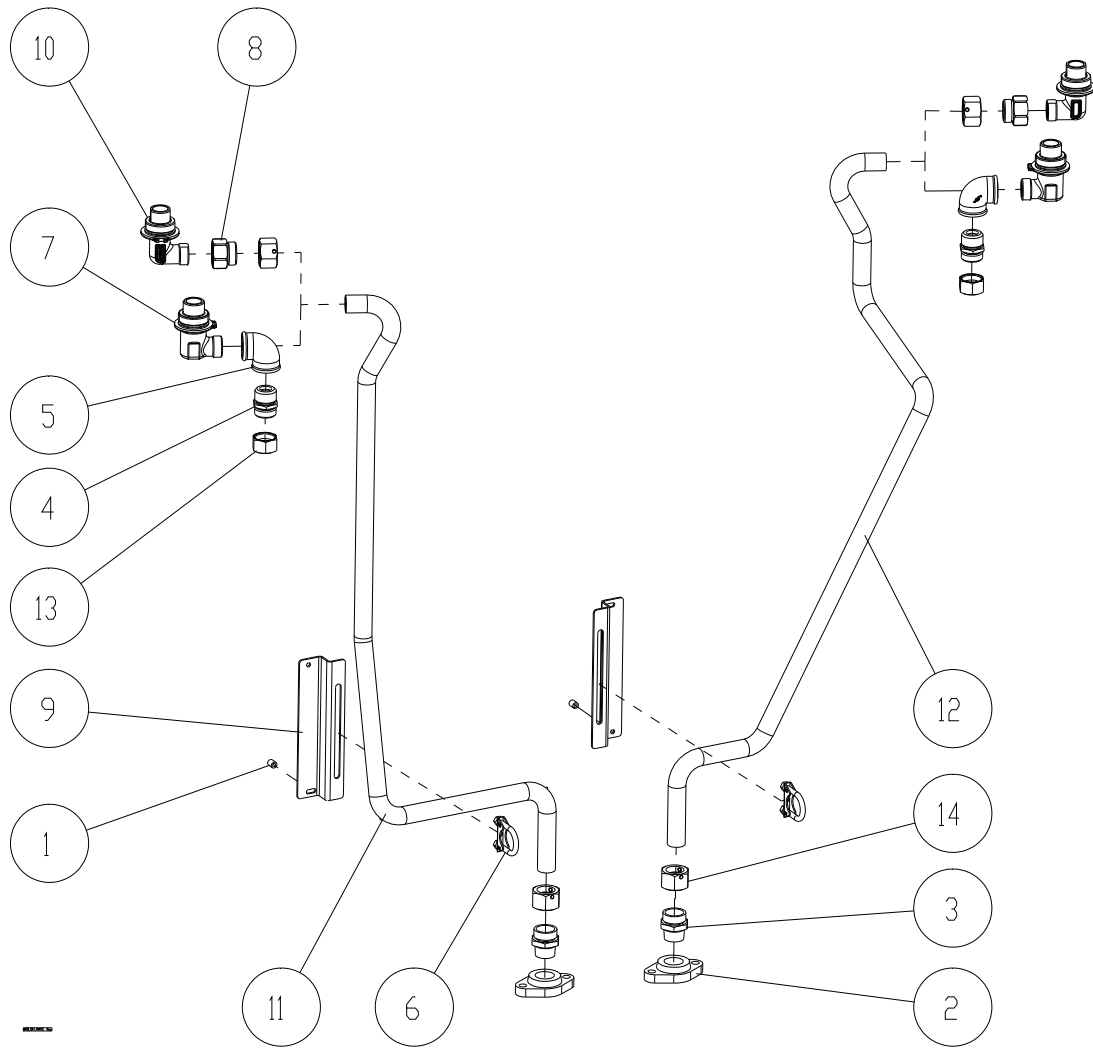
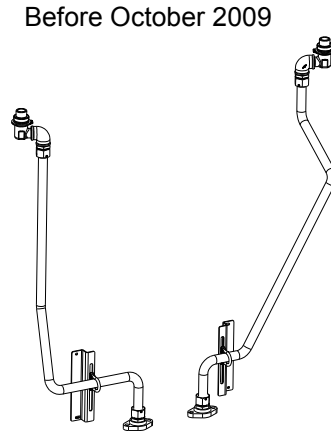
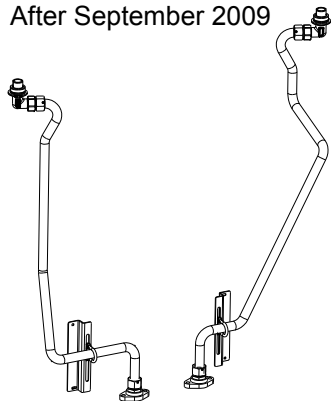
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou autobloquant Flange M6 x	900013-003	
2	O-Ring 34,00 x 4,00	Joint Torique 34,00 x 4,00	900050-002	
3	shear valve	raccord cassant	901108	
4	Groundframe Fix Bkt Brugg	Groundframe Fix Bkt Brugg	946497	
5	Groundframe Brugg Assy	Groundframe Brugg Assy	946553	
6	Stud M6X40 (16.5-11-12.5)	Goujon M6X40 (16.5-11-12.5)	948402	
7	Q410 Riveted Frame Base Assy	Q410 Riveted Frame Base Assy	950736	
8	Submerge stack manifold machined	Manifold stack immerge usine	951150	
9	Pipe submerge 40/49 lg213	Tube immerge 40/49 lg213	951639	
10	Brkt Pump Support End Assy	Brkt Pump Support End Assy	952152	
11	Adaptg plate submerge HMS side	Adaptg plate submerge HMS side	953221	
12	Collect bkt submerged Q510 4F	Collect bkt submerged Q510 4F	953227	
13	Collect bkt submerged Q410	Collect bkt submerged Q410	953229	
14	Stub M6X35 (12.5-10-12.5)	Goujon M6X35 (12.5-10-12.5)	956157	
15	Submerged Filter Asm	Submerged Filter Asm	-	Refer to Submerged Filter Asm

4.8.3 SUBMERGED FILTER ASSEMBLY



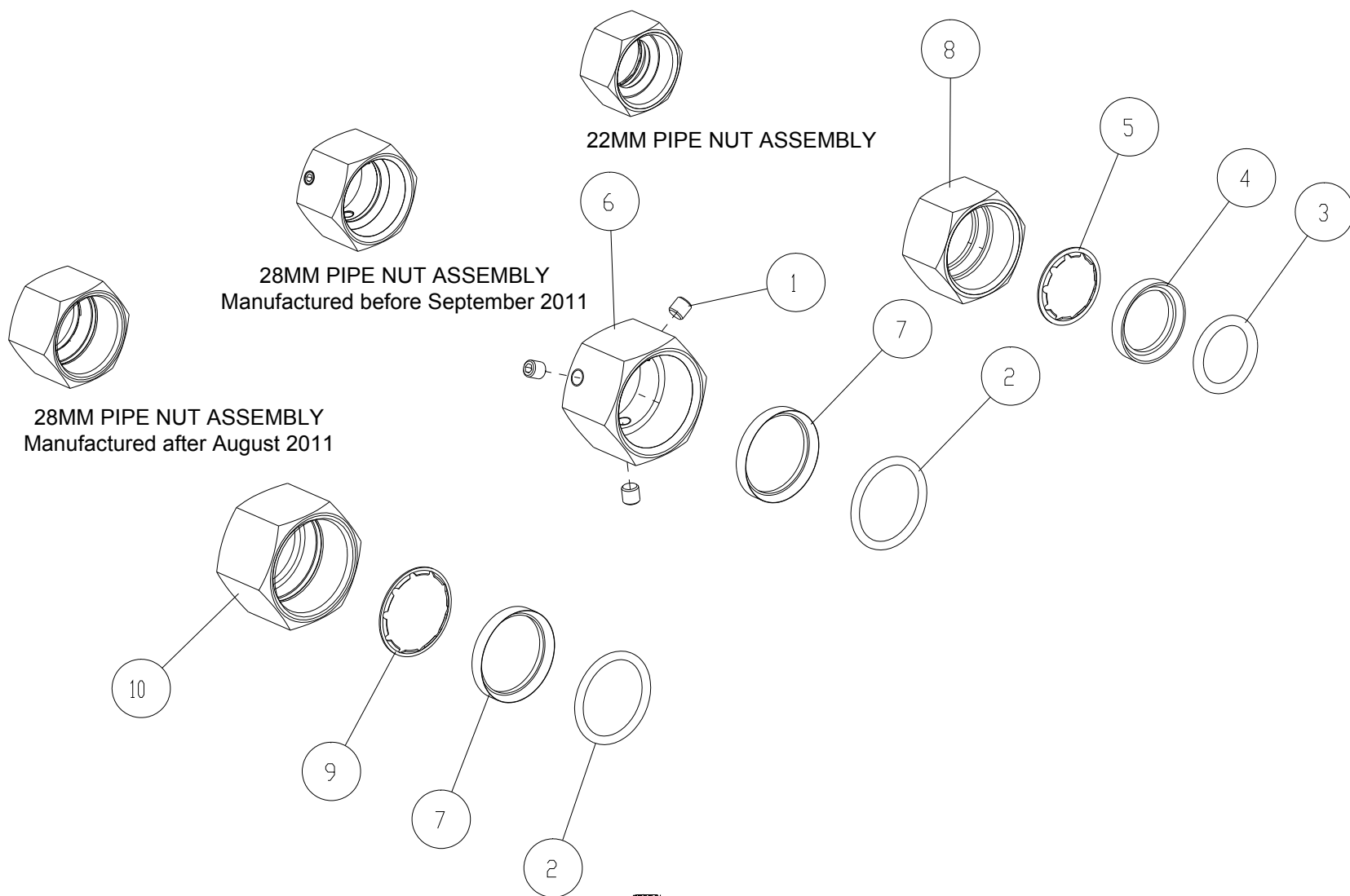
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M8	Ecrou autobloquant Flange M8	900013-004	
2	O-Ring 59,92 x 3,53	Joint Torique 59,92 x 3,53	900050-006	
3	O-Ring 82,14 x 3,53	Joint Torique 82,14 x 3,53	900050-025	
4	O-Ring 120,00 x 4,00	Joint Torique 120,00 x 4,00	900050-027	
5	O-Ring 42x3	Joint Torique 42x3	900050-083	
6	Screw torx Thr Form BH M6x2	Vis Torx AutoF TCBL Tril M6x2	900053-004	
7	Filter 10 micron Sst Shell	Filtre 10 micron Inox Shell	953572	
	Filter 12 microns	Filter 12 microns	901614	
	Filter 25 microns	Filter 25 microns	901613	
	Filter 40 microns St.stl	Filter 40 microns St.stl	908826	
	filter 56 micron	filter 56 micron	942644	
	Filter 80 microns std	Filter 80 microns std	904176	
	Filter 90 microns	Filtre 90 microns	901612	
	Filter 100 microns Sst	Filtre 100 microns Inox	906500	
8	Stud M6x40 (18-4-18)	Goujon M6x40 (18-4-18)	901695	
9	Outlet valve spring	Ressort valve de sortie	901703	
10	Spring plate disk	Disque plaque supp. equipee	901726	
11	Pipe plug	Obtuteur 1/4 pouce	901791	
12	Nut - NEFIT coupling	Ecrou raccord NEFIT	902863	
13	Washer -NEFIT seal	Rondelle joint NEFIT	902865	
14	Sealing ring - NEFIT coupling	Joint raccord NEFIT	902866	
15	Stud M8x40 (18-4-18)	Goujon M8x40 (18-4-18)	902931-005	
16	Checkvalve cover with pip plug	Couvercle clapet A-R av obtura	909178	
17	Outlet valve equiped	Clapet de sortie equipe	944356	
18	Cover filter submerged	Couvercle filtre immerge	951133	
19	Body filter immersed machined	Corps filtre immege usine	951152	

4.9 Satellite Pipes Assembly



Item No	Description	Désignation Français	Part No	Comments
1	Spacer 5.5x10x12	Entretoise Cyl 5.5x10x12	900024-008	
2	Flange 1" 78mm	Bride 1" 78mm	901320-001	
3	Nipple 28mm M36x2-R1"	Douille 28mm M36x2-R1"	901767	
4	Nipple 22mm G1"-G1"	Douille 22 mm G1"-G1"	901772	
5	Elbow 1" F - 1"F galv.	Coude 1"F - 1"F galv.	902084-002	
6	32mm Clamp	Bride de 32mm	904256	
7	Flange Bulkhead Adapter non-VR	VR Adaptateur G1	908823	
8	Nipple M-F M36 - 1"	Mamelon M-F M36 - 1"	940950	
9	Support Bracket Sat Pipes submerged	Support Bracket Sat Pipes submerged	995348	
10	Flange Apdapter Non-VR (Cast)	Adapteur Bride Non-VR (Moule)	943914	
11	Pipe Simple VHS Satellite 1B	Tube Simple VHS Satellite 1B	946908	After September 2009
12	Pipe Simple VHS Satellite 4A	Tube Simple VHS Satellite 4A	946909	After September 2009
13	Pipe Nut Assembly 22mm	Pipe Nut Assembly 22mm	-	Refer to Pipe Nut Assemblies
14	Pipe Nut Assembly 28mm	Pipe Nut Assembly 28mm	-	Refer to Pipe Nut Assemblies

4.10 Pipe Nut Assemblies

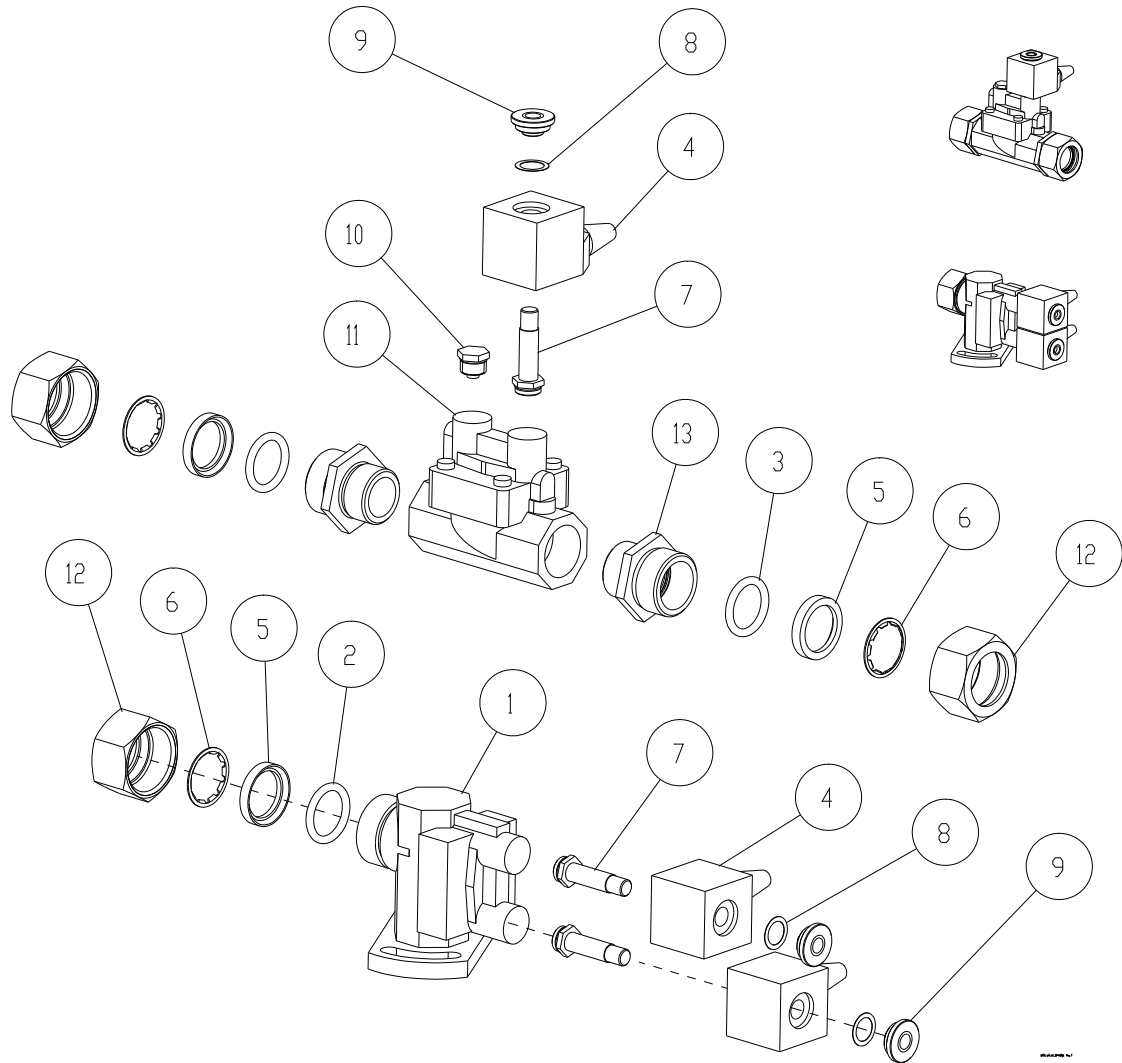


Item No	Description	Désignation Français	Part No	Comments
1	Screw HSS Cup Point M6x6	Vis HCCU M6x6	900019-005	
2	O-ring 28,00x3,00	Joint Torique 28,00x3,00	900050-032	
3	O-ring 21,30x3,60	Joint Torique 21,30x3,60	900050-034	
4	Pressure Ring	Bague De Pression	900523	
5	Fixing Spring Ring 22mm	Bague De Pression 22mm	900525	
6	Pressure Nut 28mm Pipe	Ecrou de Pression Tube 28mm	901770	Replaced by 950120
7	Pressure Ring 28mm	Bague de Pression 28mm	901771	
8	Pressure Nut 22 mm Brass	Ecrou Pression 22mm Laiton	901858	
9	Fixing Spring Ring 28mm	Bague de Pression 28mm	950119	
10	Pressure Nut 28mm Pipe	Ecrou de Pression Tube 28mm	950120	Replaces 901770



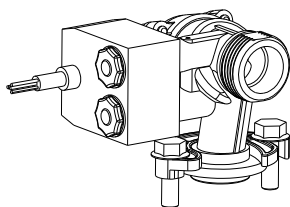
4.11 Inline Valve Assembly

4.11.1 INLINE VALVE ASSEMBLIES

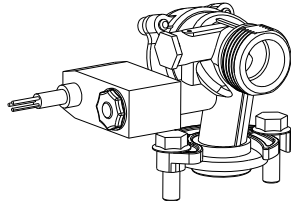


Item No	Description	Désignation Français	Part No	Comments
1	Piston Valve and Flange 3/4"	Soupape & Bride 3/4"	5536000023	
2	O-Ring 21,82x3,53	Joint Torique 21,82x3,53	900050-001	
3	O-ring 21,30x3,60	Joint Torique 21,30x3,60 (R17)	900050-034	
4	COIL 24V EEx m II T4 Fuse	Bobine 24V EEx m II T4 Fuse	900082	
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	

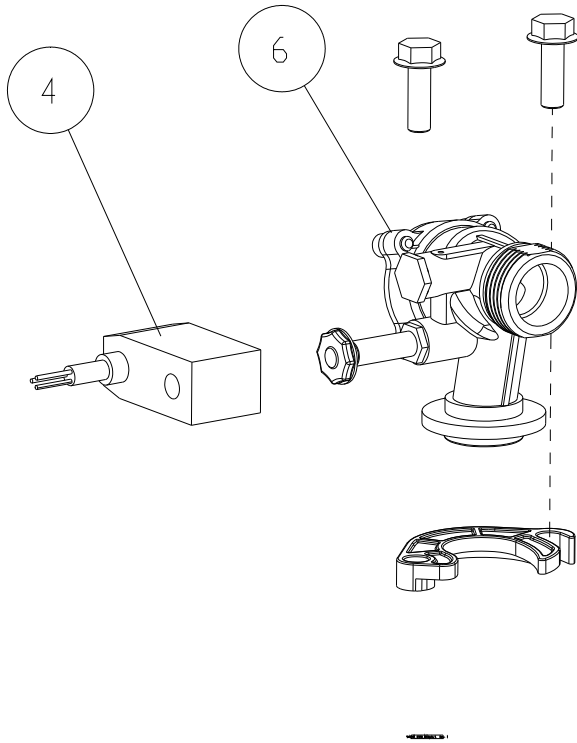
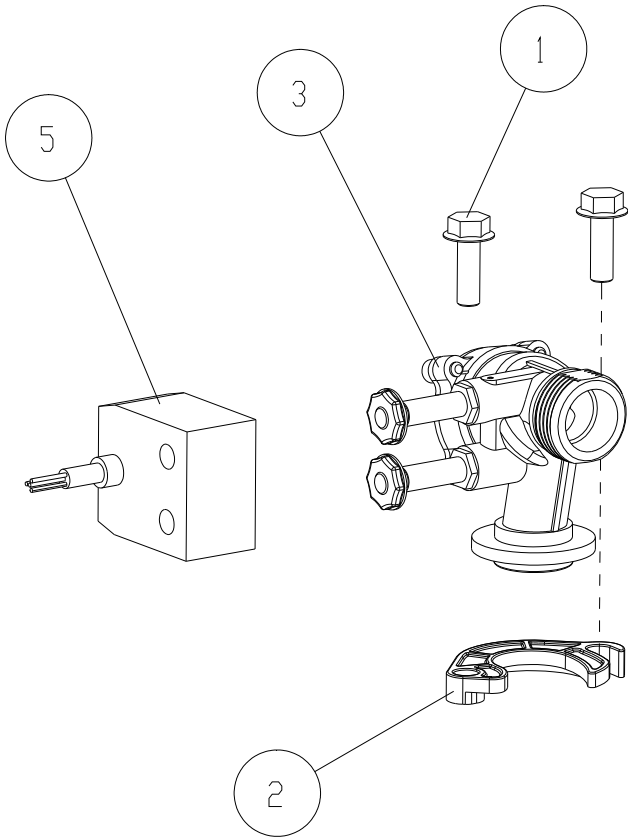
4.11.2 SIB VALVE ASSEMBLIES



DOUBLE COIL



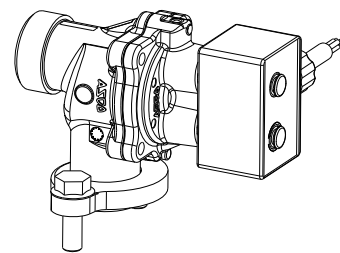
SINGLE COIL



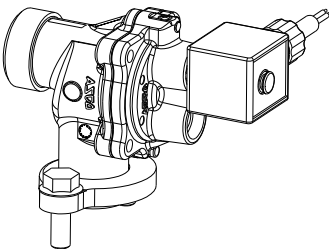
Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
2	SIB Flange Valve	Bride EV SIB	941951	
3	SIB Valve Double w/o Coil	Electrovanne SIB Double sans Bobine	951457	
4	Single Coil 24Vcc	Bobine Mono 24Vcc	943233	
5	Double Coil 24Vcc	Bobine Double 24Vcc	943234	
6	SIB Valve Single w/o Coil	Electrovanne SIB Simple sans Bobine	951456	



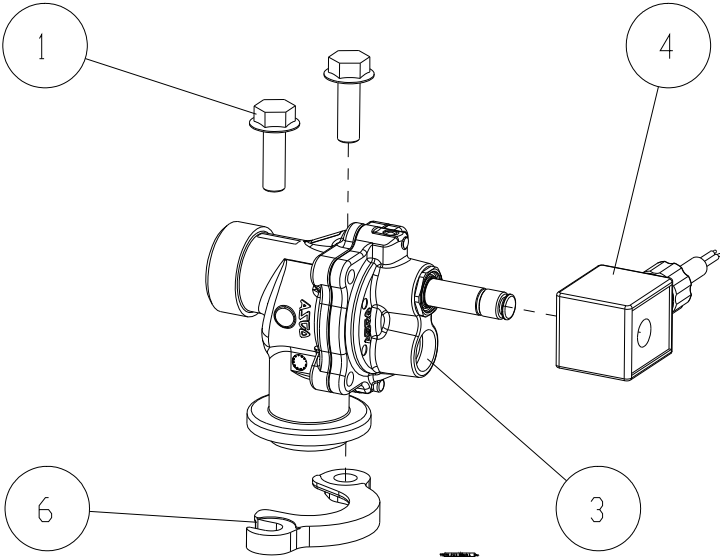
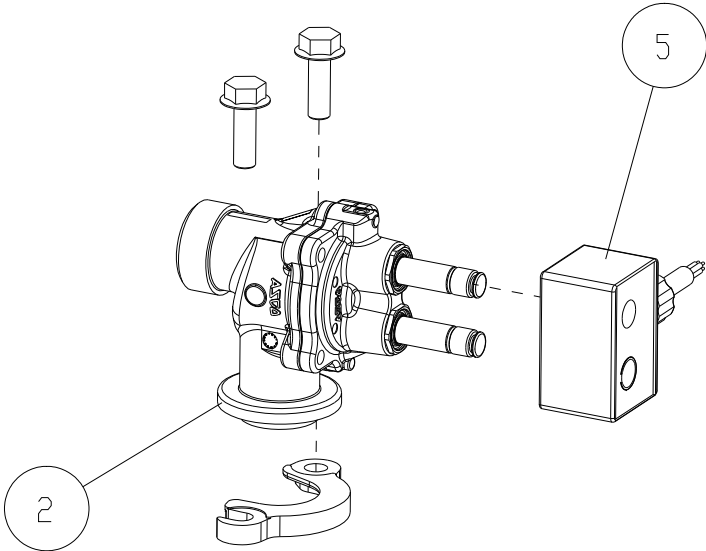
4.11.3 ASCO VALVE ASSEMBLIES



DOUBLE COIL

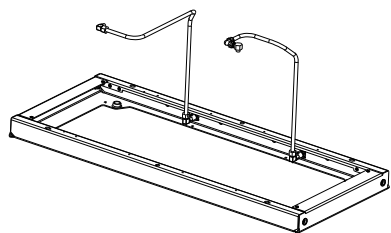
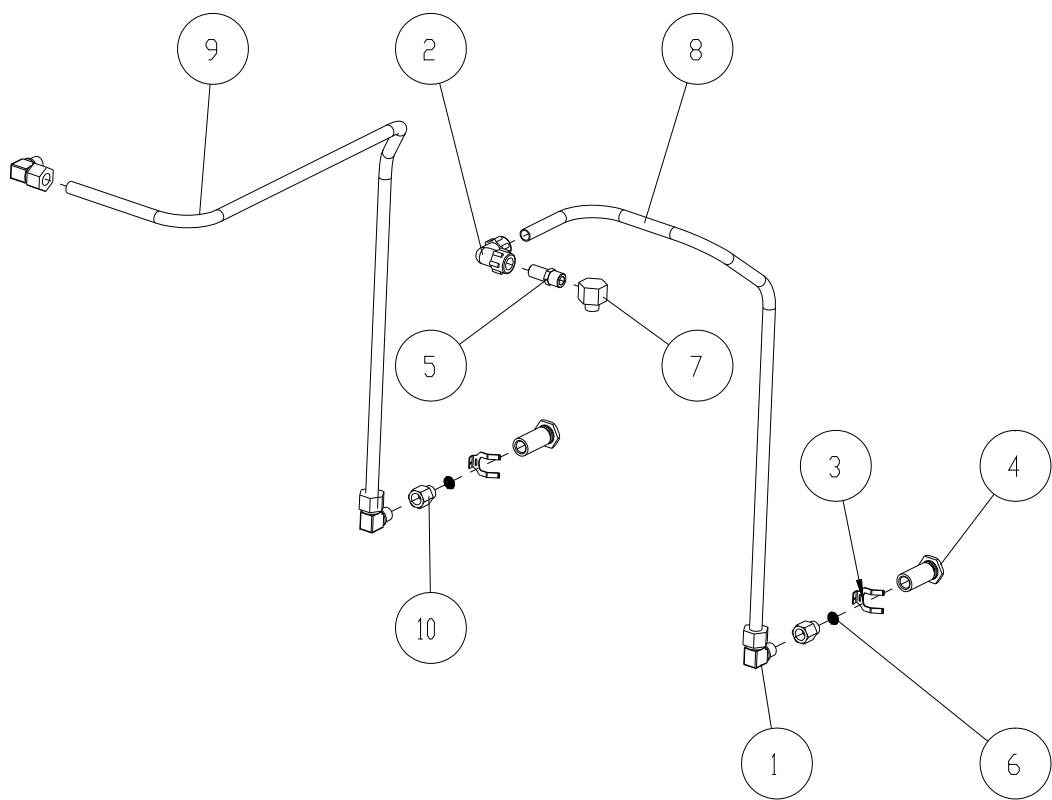


SINGLE COIL



Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M8x25	Vis Hex Br Autobl M8x25	900016-007	
2	ASCO Valve Double 24V w/o Coil	Electrov.ASCO Double 24V sans Bobine	950937	
3	ASCO Valve Single 24V w/o Coil	Electrov.ASCO Simple 24V sans Bobine	950938	
4	ASCO Coil Single 24v ATEX	Bobine ASCO Simple 24v ATEX	950939	
5	ASCO Coil Double 24v ATEX	Bobine ASCO Double 24v ATEX	950940	
6	Flange Valve ASCO	Bride Ouverte Electrov. ASCO	950942	





4.12 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	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
3	Horse-shoe Clip	Fixation H/Shoe	900057	
4	Vent Outlet	Mise en Atmosphere	901724	
5	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
6	Gauze - Flame Arrestor	Grillage Pare Flamme	902358	
7	Elbow Vent Float EPZ-T	Coude Event EPZ-T	940936	
8	Pipe - Air Vent EPZ/TQP-RS	Tube Mise en Atmosphere EPZ/TQP-RS	945642	
9	Pipe - Air Vent PAS V3/TQP-HS	Tube Mise en Atmos. PAS V3/TQP-HS	945649	
10	Adapter Male to Female G1/4"	Adaptateur M / F G1/4"	947273	

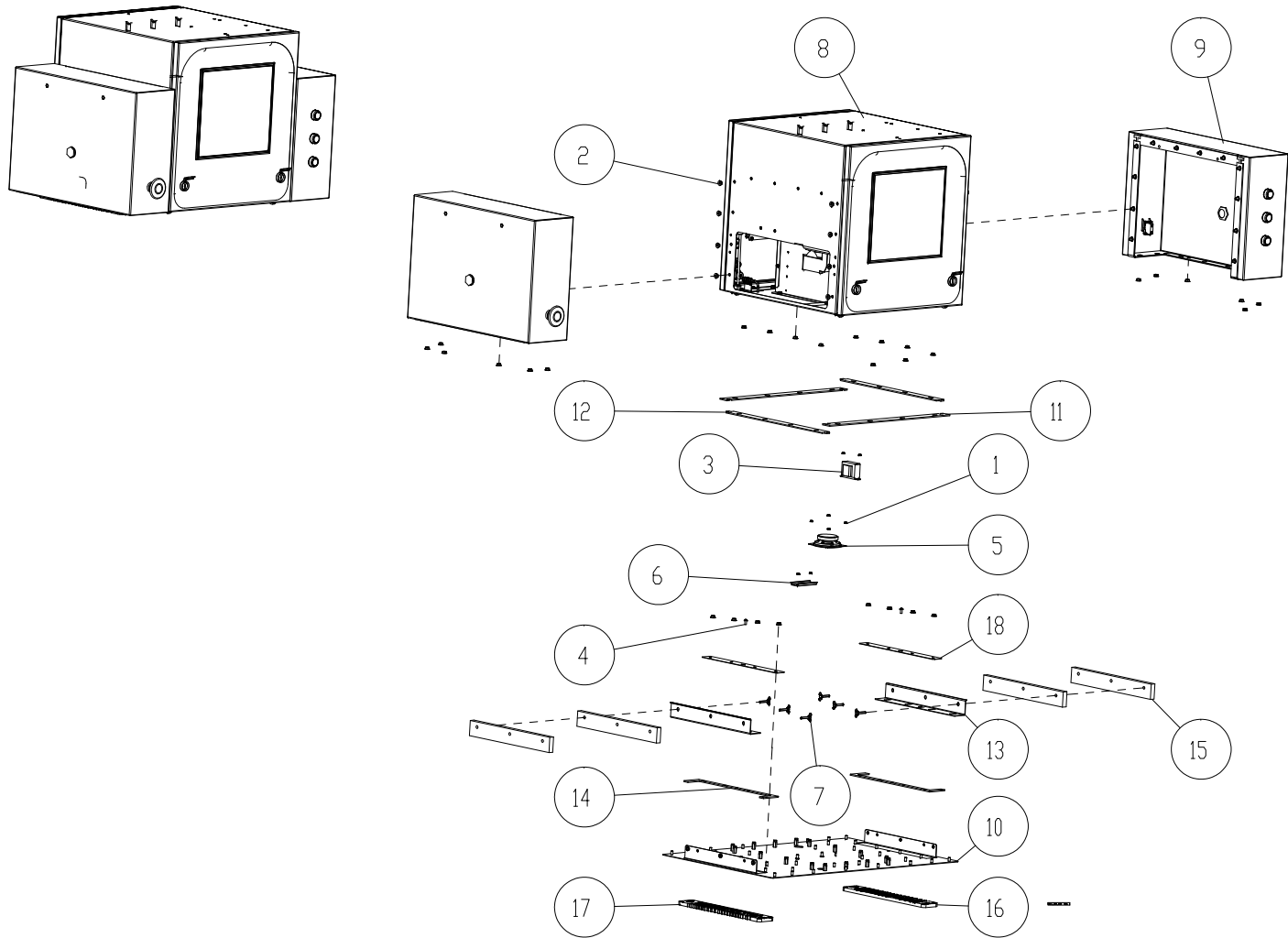


CONTENTS

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5.2	Calculator Box Head Assemblies	5-6
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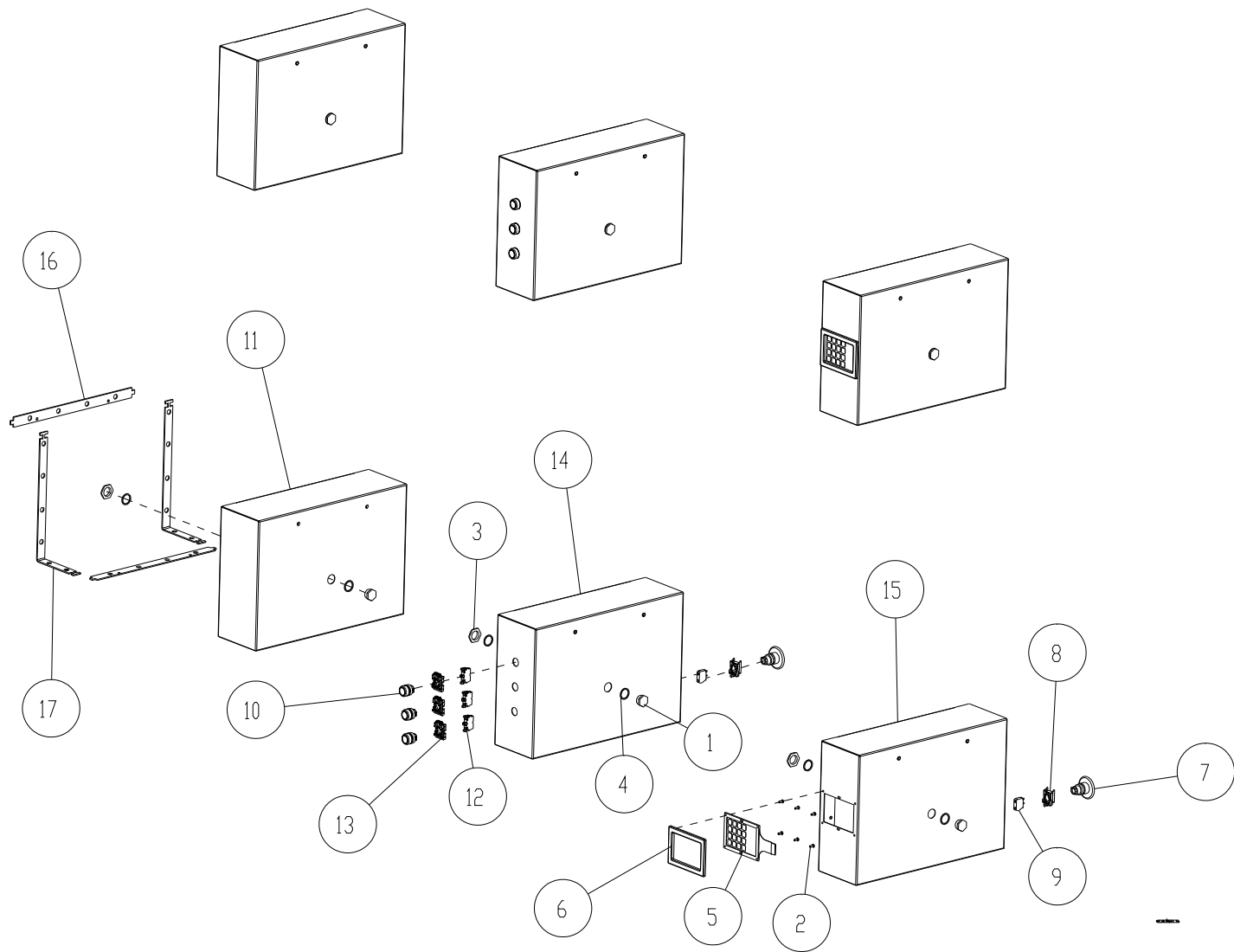
5 DISPENSER ELECTRONICS

5.1 WWC/TQC Calculator Box Assembly



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	8 OHM SPEAKER TRANSFORMER	8 OHM TRANSFORMATEUR HAUTPARL	900302	
4	Screw HSB M5x12	Vis CBHC M5x12	900795-001	
5	8 ohm pa Speaker	8 ohm pa Haut Parl	901057	
6	Rail TS 35 I=75	Rail de bornier TS 35 I=75	901432-001	
7	Wing Screw	Vis D Aile	904300	
8	WWC/TQC Calc Box Assy	WWC/TQC Calc Box Assy	-	Refer to Calc Box Head asm
9	Box Side STD Assy	Box Side STD Assy	-	Refer to Side Box asm
10	Plate Calc ACP Assy Plate Calc Speaker ACP Assy	Plate Calc ACP Assy Plate Calc Speaker ACP Assy	957648 957649	
11	Seal Box Calc Front/Back	Seal Box Calc Front/Back	951774	
12	Seal Box Calc Left/Right	Seal Box Calc Left/Right	951775	
13	Brkt Foam Clamp Q410	Brkt Foam Clamp Q410	952189	
14	Seal Foam Barrier Q410	Seal Foam Barrier Q410	952254	
15	Foam Barrier Q410	Foam Barrier Q410	952255	
16	Guide Cable Left	Guide Cable Left	952590	
17	Guide Cable Right	Guide Cable Right	952596	
18	Plate Q410LC Foam Clamp Cover	Plate Q410LC Foam Clamp Cover	954300	

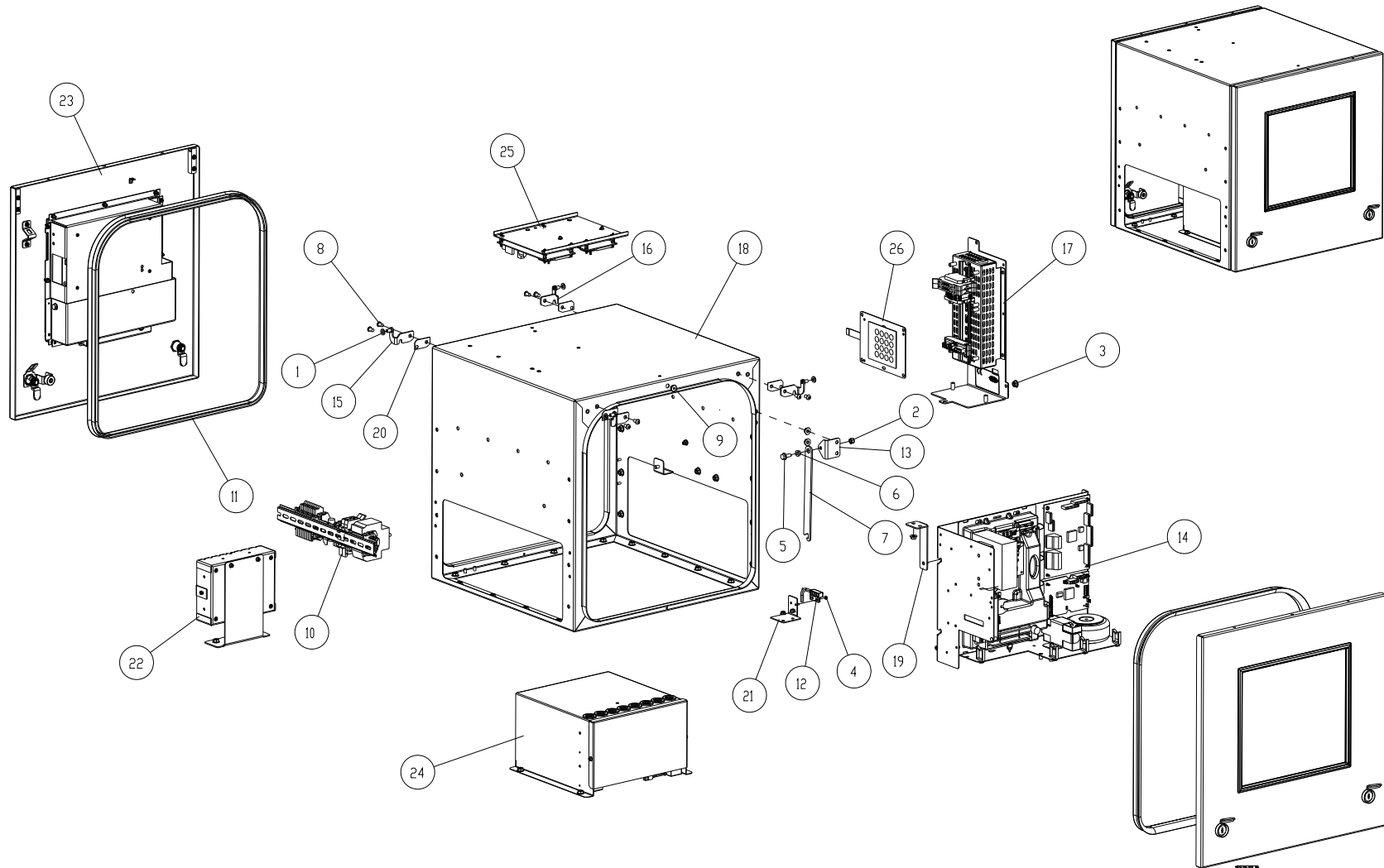
5.1.1 SIDE BOX ASSEMBLIES



Item No	Description	Désignation Français	Part No	Comments
1	Plug M25 x 1,5 EEXE/IP66	Bouchon PG M25 x 1,5 EEXE/IP66	900044-002	
2	Screw CRRCH M4x10	Vis CBLZ M4x10	900052-003	
3	Nut Hex M25 x 1,5 (Bartec)	Ecrou Hex M25 x 1,5 (Bartec)	900088-002	
4	Washer Sealing 25x30x1,5	Rondelle Etanche 25x30x1,5	900101-002	
5	MEMBRANE KEYBOARD 4X4	CLAVIER PREDE 4X4	902470	
6	Bezel Preset Keypad	Clavier prédé Couvercle	942247	
7	PB Red turn to Reset	Bouton d'urgence Rouge	945761-004	
8	Base	Embase	945762-001	
9	Switch ZBE 102	Contact ZBE 102	946267-002	
10	Push Button ABB Metal	Push Button ABB Metal	948560	
11	Box Side STD Assy	Box Side STD Assy	949111	
	Box Side ACP Assy	Box Side ACP Assy	951141	
	Box Side Alu Assy	Box Side Alu Assy	951552	
12	Switch Push Button	Switch Push Button	949304	
13	Switch Body Push Button	Switch Body Push Button	949305	
14	Box Side PB/ES Assy	Box Side PB/ES Assy	951139	Push Button and Emergency Stop
	Box Side PB/ES ACP Assy	Box Side PB/ES ACP Assy	951142	
	Box Side PB/ES Alu Assy	Box Side PB/ES Alu Assy	951554	
15	Box Side PK/ES	Box Side PK/ES	951145	Preset Keypad Emergency Stop
	Box Side PK/ES ACP Assy	Box Side PK/ES ACP Assy	951143	
	Box Side PK/ES Alu Assy	Box Side PK/ES Alu Assy	951556	
16	Seal Box Side Top	Seal Box Side Top	951781	
17	Seal Box Side End	Seal Box Side End	951782	

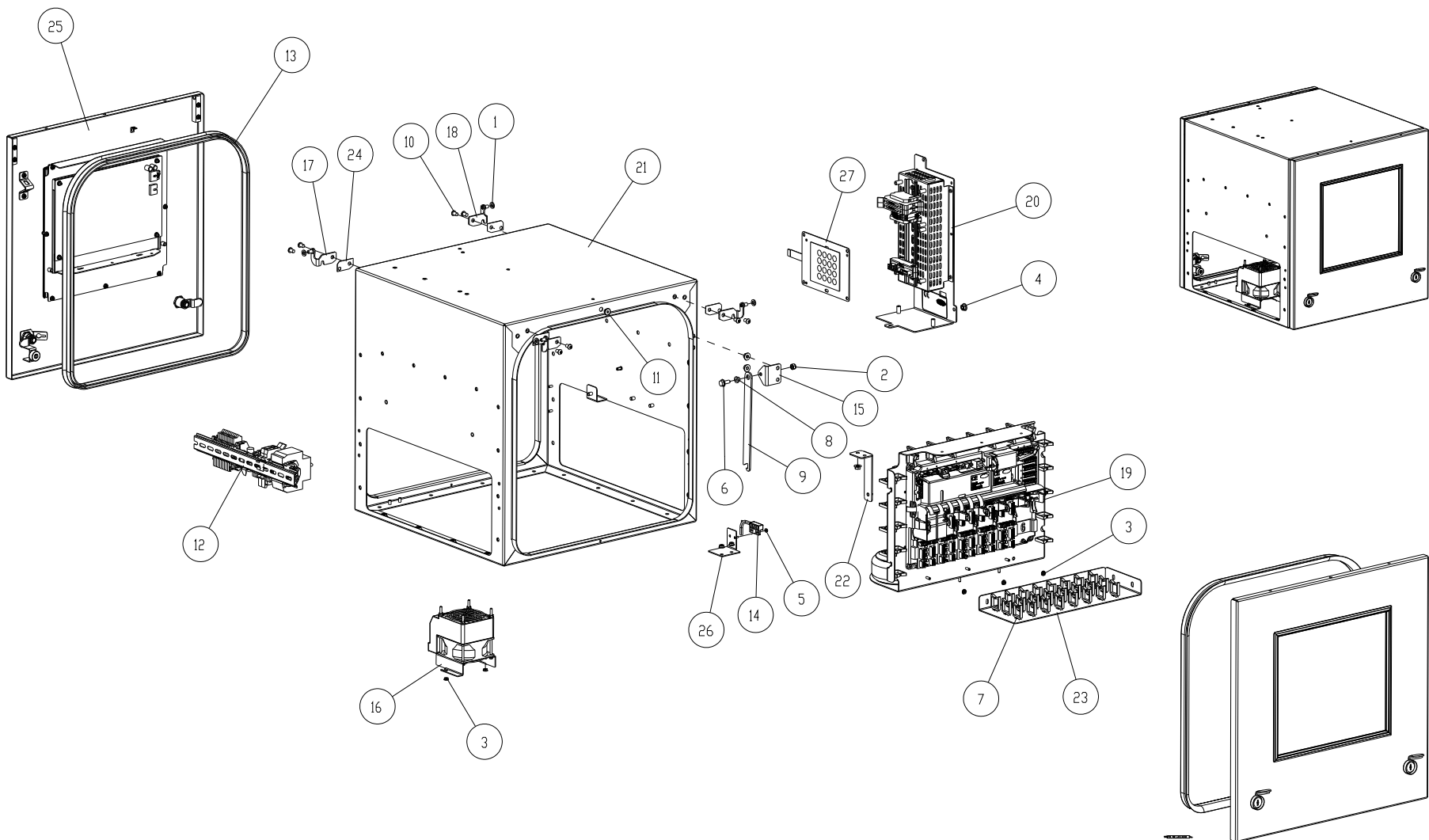
5.2 Calculator Box Head Assemblies

5.2.1 WWC LCD CALCULATOR BOX HEAD ASSEMBLY



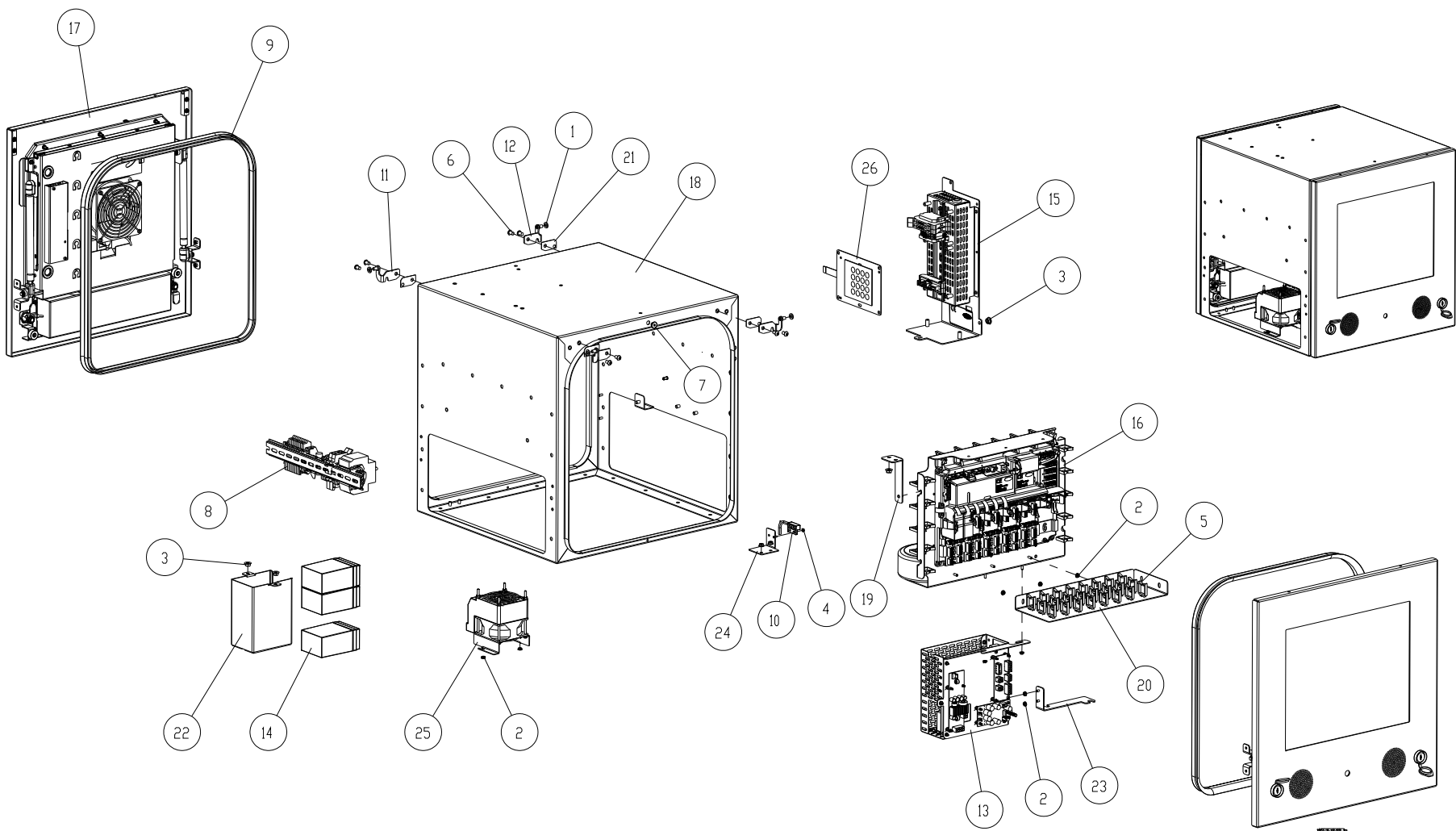
Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Nut Hex Prev Torque M6	Ecrou Frein M6	900012-003	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
6	Bearing 6x9x6	Coussinet 6x9x6	900497-001	
7	Stay Arm Calc Door Q500T	Bras Arret Porte Calc Q500T	900578	
8	Screw HSB M6x10	Vis M6x10	900795-005	
9	Gore Supra Vent	Gore Supra Vent	906628	
10	Calculator Rail Assembly	Rail TS-35 Assy 230Vac	-	Refer to Calculator Rail Comp.
11	TQC VGA Door Seal	TQC VGA Door Seal	907128	
12	Magnetic Proximity Switch 3M	Contact Magnetiq.de Proximite 3M	908172-001	
13	Bracket Door Stay	Support de Bras de Porte	908887	
14	WWC Centreplate Assembly	Plat de Centre WWC Asm	-	Refer to WWC Centreplate Asm
15	Hinge Bracket Left Assy	Hinge Bracket Left Assy	958097	
16	Hinge Bracket Right Assy	Hinge Bracket Right Assy	958078	
17	CVGA PSU Assembly	CVGA PSU Assembly	-	Refer to CVGA PSU Assembly
18	TQC Calc Box Welded Assy	TQC Calc Box Welded Assy	948636	
19	TQC Hanging Bracket Assy	TQC Hanging Bracket Assy	948641	
20	Plastic Hinge Shim	Plastic Hinge Shim	948692	
21	TQC Program Switch Bracket	TQC Program Switch Bracket	950181	
22	ATC Assembly	ATC Assembly	-	Refer to Auto. Temp. Comp. Asm
23	WWC Calc Door Assy	WWC Calc Door Assy	-	Refer to WWC LCD Calc. Door Asm
24	Q4 Capacitor Box Assy	Q4 Capacitor Box Assy	-	Refer to Capacitor Box Asm
25	HOM Assy	HOM Assy	-	Refer to HOM Assembly
26	Internal Configuration Keypad	Internal Configuration Keypad	-	

5.2.2 TQC LCD CALCULATOR BOX HEAD 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	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
5	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
6	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
7	Wire Clip Max Entas. 19	Fixation Câble Max Bundle 19	900058-001	
8	Bearing 6x9x6	Coussinet 6x9x6	900497-001	
9	Stay Arm Calc Door Q500T	Bras Arrêt Porte Calc Q500T	900578	
10	Screw HSB M6x10	Vis M6x10	900795-005	
11	Gore Supra Vent	Gore Supra Vent	906628	
12	Calculator Rail Assembly	Calculator Rail Assembly	-	Refer to Calculator Rail Assemblies
13	TQC VGA Door Seal	TQC VGA Door Seal	907128	
14	Magnetic Proximity Switch 3M	Contact Magnetiq.de Proximité	908172-001	
15	Bracket Door Stay	Support de Bras de Porte	908887	
16	DBK Heater 350W	Chauffage DBK 350 W	909214-001	
17	Hinge Bracket L	Equerre L	942208	
18	Hinge Bracket R	Equerre Nue R	942210	
19	TQC Centerplate Assembly	TQC Centerplate Assembly	-	Refer to TQC Centreplate Assembly
20	CVGA PSU Assembly	CVGA PSU Assembly	-	Refer to CVGA PSU Assembly
21	TQC Calc Box Welded Assy	TQC Calc Box Welded Assy	948636	
22	TQC Hanging Bracket	TQC Hanging Bracket	948641	
23	TQC Cable Bracket	TQC Cable Bracket	948643	
24	Plastic Hinge Shim	Plastic Hinge Shim	948692	
25	TQC LCD Door Assembly	TQC LCD Porte Assemblee	-	Refer to TQC LCD Door Assembly
26	TQC Program Switch Bracket	TQC Program Switch Bracket	950182	
27	Internal Configuration Keypad	Internal Configuration Keypad	-	

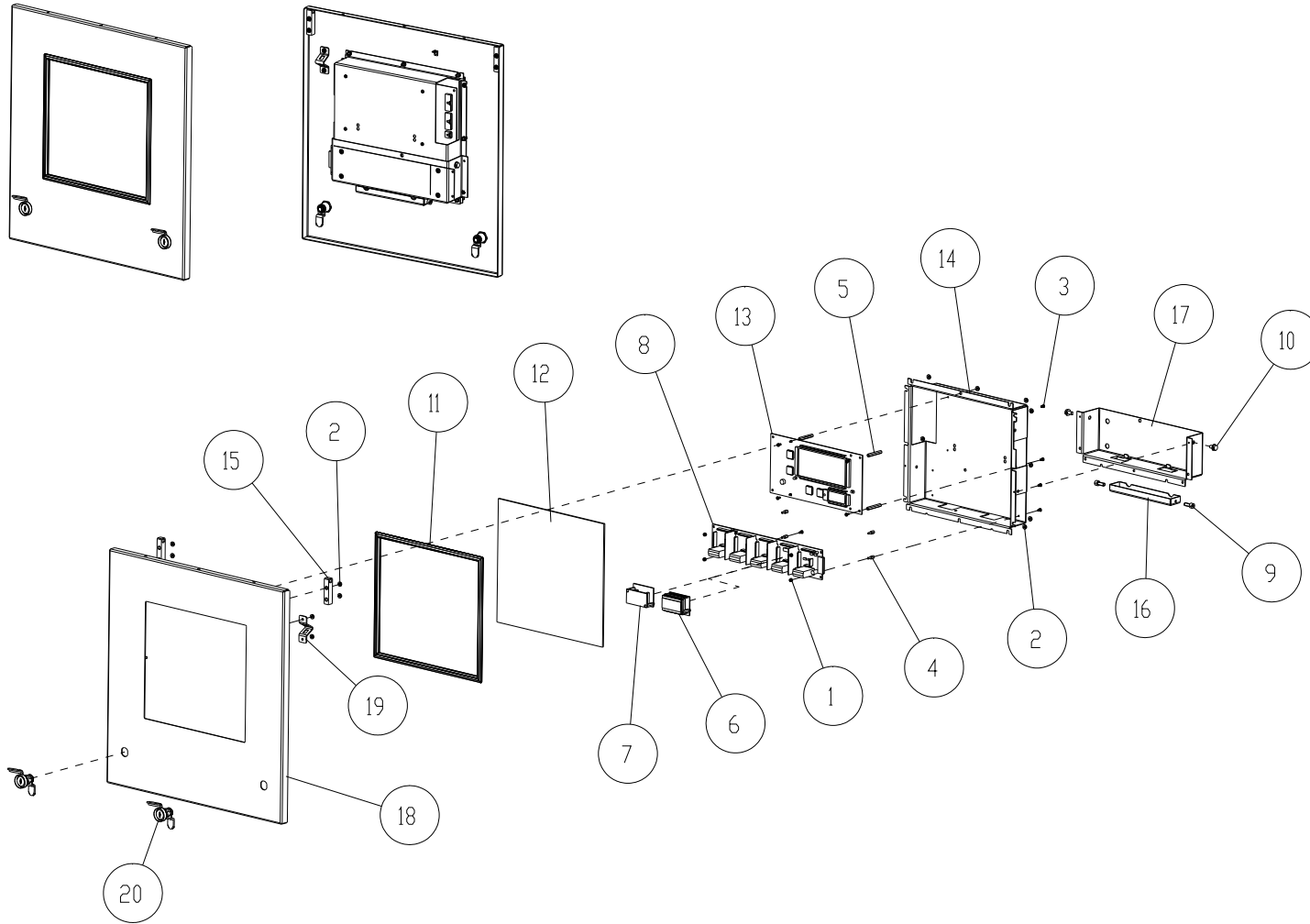
5.2.3 TQC VGA CALCULATOR BOX HEAD ASSEMBLY



Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
4	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
5	Wire Clip max entas. 19	Fixation câble Max Bundle 19	900058-001	
6	Screw HSB M6x10	Vis M6x10	900795-005	
7	Gore Supra Vent	Gore Supra Vent	906628	
8	Calculator Rail Assembly	Calculator Rail Assembly	-	Refer to Calculator Rail Assemblies
9	TQC VGA Door Seal	TQC VGA Door Seal	907128	
10	Magnetic Proximity Switch 3M	Contact MagnetiQ.de Proximité	908172-001	
11	Hinge Bracket L	Equerre L	942208	
12	Hinge Bracket R	Equerre Nue R	942210	
13	TQC-VGA SBC Bracket iBase	TQC-VGA SBC Bracket iBase	944693-001	
14	Battery 6V 4 Ah Yuasa	Battery 6V 4 Ah Yuasa	944788	
15	CVGA PSU Assembly	CVGA PSU Assemblée	-	Refer to CVGA PSU Assembly
16	TQC VGA Centreplate Assembly	TQC VGA Centreplate Assemblée	-	Refer to TQC VGA Centreplate Asm
17	Calculator Door 17" TFT Assembly	Portillon Calc' 17" TFT Assemblée	-	Refer to TQC VGA LCD Door Asm
18	TQC Calc Box Welded Assy	TQC Calc Box Welded Assy	948636	
19	TQC Hanging Bracket	TQC Hanging Bracket	948641	
20	TQC Cable Bracket	TQC Cable Bracket	948643	
21	Plastic Hinge Shim	Plastic Hinge Shim	948692	
22	TQC VGA Battery Bracket	TQC VGA Battery Bracket	948713	
23	TQC SBC Bracket	TQC SBC Bracket Assy	949018	
24	TQC Program Switch Bracket	TQC Program Switch Bracket	950181	
25	TQC VGA Heater	TQC VGA Heater	950217	
26	Internal Configuration Keypad	Internal Configuration Keypad	-	

5.3 Calculator Box Door Assemblies

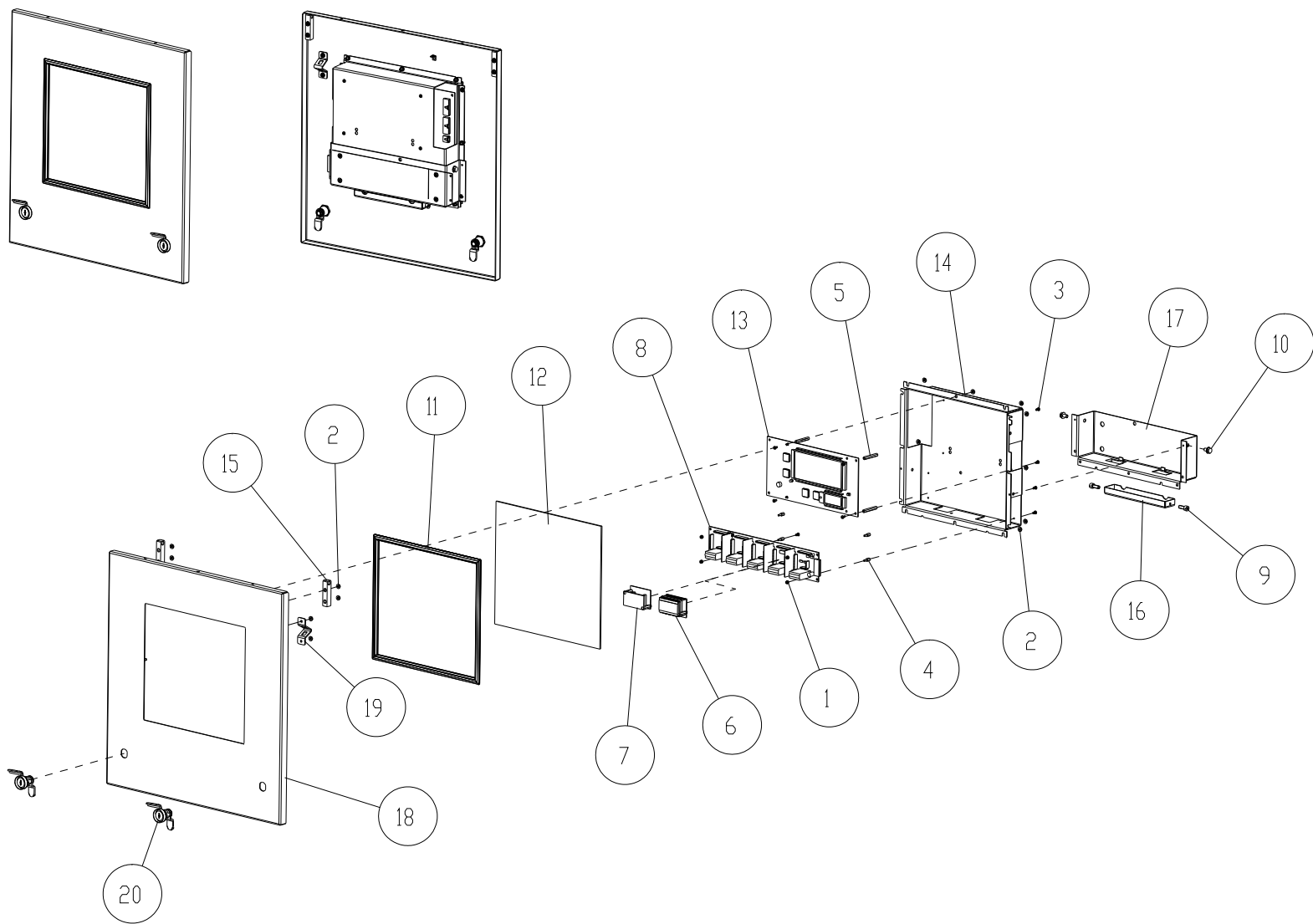
5.3.1 WWC LCD DOOR



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Prev Torque M3	Ecrou Frein M3	900012-001	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Screw CRRCH M3x6	Vis CBLZ M3x6	900052-002	
4	Spacer Thr Hex MF M3x8x8x8	Entretoise Hex MF M3x8x8x8	900711-018	
5	Spacer Thr Hex FF M3x40	Entretoise Hex FF M3x40	900711-022	
6	PCB/WWC033/ODU-UP/UPD PIGGY-BA	PCB/WWC033/ODU-UP/UPD PIGGY-BA	901355	Used with 902921 Only
7	PCB/WWC033/ODU-PI/PROD IND PIG	PCB/WWC033/ODU-PI/PROD IND PIG	901356	Used with 902921 Only
8	PCB assy/OPU/1 PR Left EMT	PCB asm/OPU/1 PR G EMT	906897-001	EMT option only
	PCB assy/OPU/1 PR Right EMT	PCB asm/OPU/1 PR D EMT	906897-002	EMT option only
	PCB assy/OPU/2 PR Left EMT	PCB asm/OPU/2 PR G EMT	906897-003	EMT option only
	PCB assy/OPU/2 PR Right EMT	PCB asm/OPU/2 PR D EMT	906897-004	EMT option only
	PCB assy/OPU/3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	906897-005	EMT option only
	PCB assy/OPU/4 PR Left EMT	PCB asm/OPU/4 PR G EMT	906897-006	EMT option only
	PCB assy/OPU/4 PR Right EMT	PCB asm/OPU/4 PR D EMT	906897-007	EMT option only
	PCB assy/OPU/5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	906897-008	EMT option only
	PCB assy/OPU/2nd PR L/R EMT	PCB asm/OPU/2eme PR G/D EMT	906897-009	EMT option only
	PCB assy/OPU/1 PR L+1 PR R EMT	PCB asm/OPU/1 PR G+1 PR D EMT	906897-010	EMT option only
	PCB assy/OPU/1 PR Left EMT	PCB asm/OPU/1 PR G EMT	902921-001	EMT & UPD/IP option
	PCB assy/OPU/1 PR Right EMT	PCB asm/OPU/1 PR D EMT	902921-002	EMT & UPD/IP option
	PCB assy/OPU/2 PR Left EMT	PCB asm/OPU/2 PR G EMT	902921-003	EMT & UPD/IP option
	PCB assy/OPU/2 PR Right EMT	PCB asm/OPU/2 PR D EMT	902921-004	EMT & UPD/IP option
	PCB assy/OPU/3 PR L/R EMT	PCB asm/OPU/3 PR G/D EMT	902921-005	EMT & UPD/IP option
	PCB assy/OPU/4 PR Left EMT	PCB asm/OPU/4 PR G EMT	902921-006	EMT & UPD/IP option
	PCB assy/OPU/4 PR Right EMT	PCB asm/OPU/4 PR D EMT	902921-007	EMT & UPD/IP option
	PCB assy/OPU/5 PR L/R EMT	PCB asm/OPU/5 PR G/D EMT	902921-008	EMT & UPD/IP option

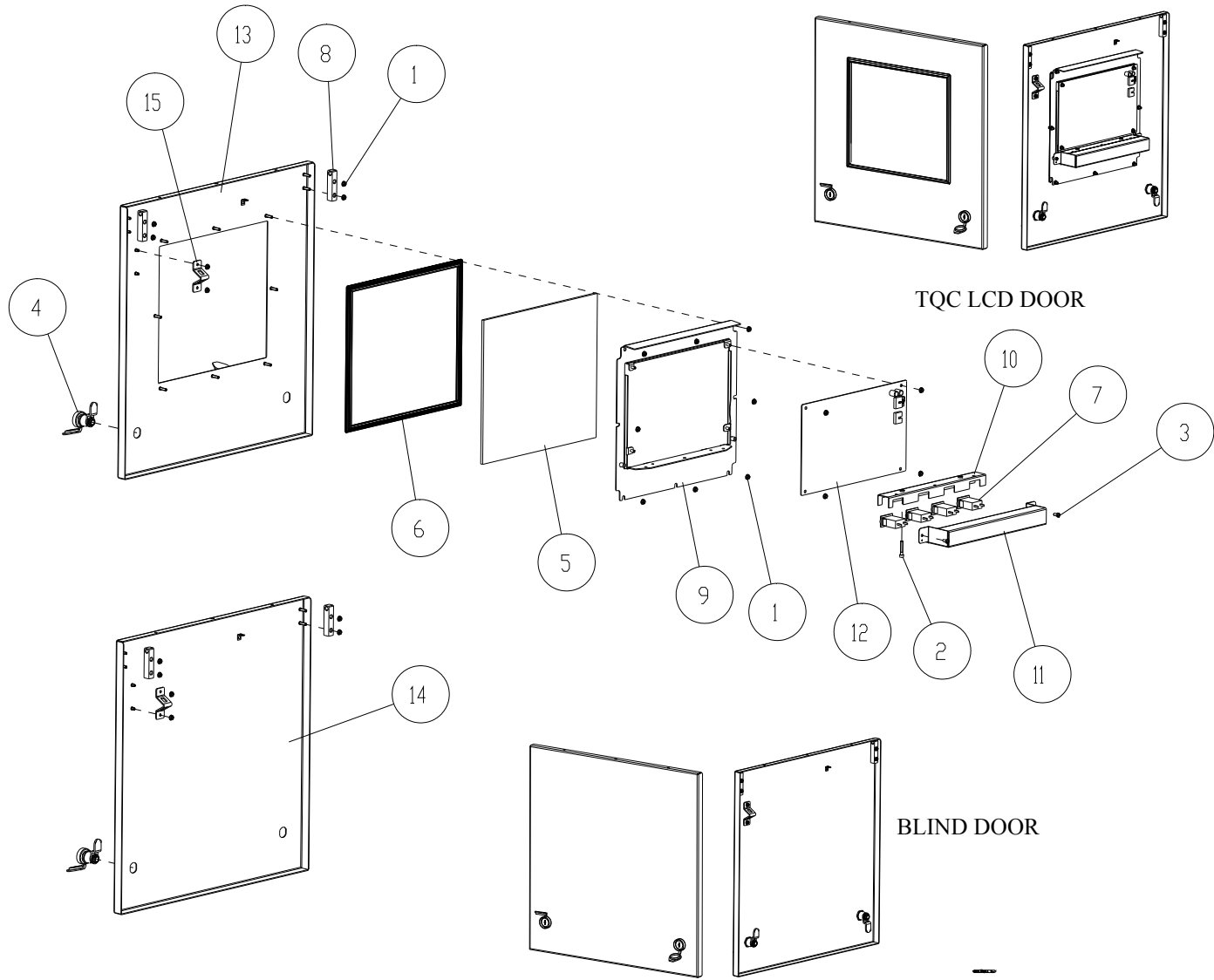
(CONT.)

5.3.1 WWC LCD DOOR (CONT.)



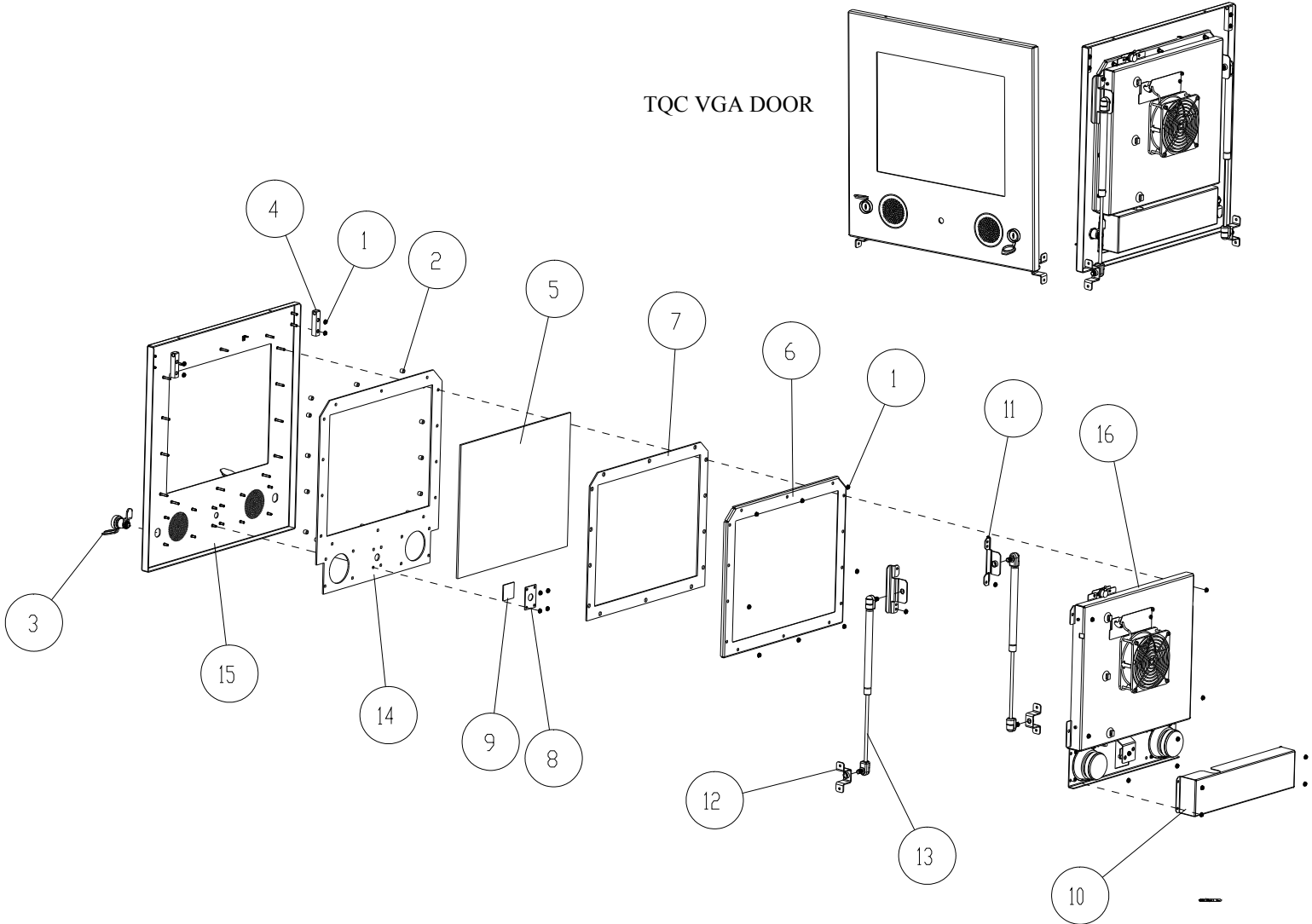
Item No	Description	Désignation Français	Part No	Comments
8 (Cont.)	PCB assy/OPU/2nd PR L/R EMT	PCB asm/OPU/2eme PR G/D EMT	902921-009	EMT & UPD/IP option
	PCB assy/OPU/1 PR L+1 PR R EMT	PCB asm/OPU/1 PR G+1 PR D EMT	902921-010	EMT & UPD/IP option
9	Screw HSHCD M6x16	Vis CHCP M6x16	903811-002	
10	Screw HFHTF M6x10 Drilled	Vis Hex. Tar. M6x10 Percee	903812-001	
11	Calc Door Seal Moulded Q500T1	Joint Porte Calc Moule Q500T1	905874	
12	LCD Plexi Glass Q500T1	LCD Plexi Glace Q500T1	907508	
13	Customer Sales Display LCD	Afficheur Prix de Vente LCD	904788	No Integrated Backlight
	Customer Sales Display LCD	Afficheur Prix de Vente LCD	909692	Integrated Backlight
	Customer Sales Display LCD	Afficheur Prix de Vente LCD	941828	German No-MID Sealing Option
14	Bracket LCD	Support LCD	941482	
15	Hingebar Brass Media	Gond Porte Colonne Star Media	942245	
16	Cable Security Bracket Cover	Couvercle de Securite de Cable	947679	
17	Cable Security Cover Plate	Couvercle de Securite Cable Plat	947680	
18	Calculator Door TQC-LCD	Porte Calc TQC-LCD	948845	
	Calculator Door TQC-LCD ALU	Porte Calc TQC-LCD ALU	951191	Aluminium
19	Calculator Door Stay Tab	Calc Door Stay Tab	949300	
20	Lock Assembly	Asm Serrure	-	Refer to Lock Assemblies

5.3.2 TQC LCD DOOR & BLIND DOOR



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Screw HSHC M4x25	Vis CHC M4x25	900017-020	
3	M4x8 Sealing Screw 5-8 St Zn	M4x8 Scellant VIS 5-8 St Zn	901551-001	
4	Lock Assy	Asm Serrure	-	Refer to Lock Assemblies
5	Glass Q500T1	Glace Q500T1	905873	
6	Seal - Calc Glass Q510	Joint - Porte Calc Moule Q510	949979	
7	Electro-mechanical Totalizer	Totalisateur Electro-mechanique	940424	
8	Hingebar Brass Media	Gond Porte Colonne Star Media	942245	
9	TQC Display Bracket Q5T1 Assy	TQC Display Bracket Q5T1 Assy	943742	
10	TQC 1-4 EMT Bracket Assy	TQC 1-4 EMT Bracket Assy	943744-001	
11	TQC EMT Door Seal	TQC EMT Door Seal	943745	
12	TQC CSD Assy 1UPD+ Termination TQC CSD Assy 2UPD+ Termination TQC CSD Assy 3UPD+ Termination TQC CSD Assy 4UPD+ Termination TQC CSD Assy PPU + Termination	TQC CSD Assy 1UPD+ Termination TQC CSD Assy 2UPD+ Termination TQC CSD Assy 3UPD+ Termination TQC CSD Assy 4UPD+ Termination TQC CSD Assy PPU + Termination	945222 945223 945224 945225 949575	
13	Calc Door TQC-LCD Assy Calc Door TQC-LCD Assy ALU	Port Calc TQC-LCD Asm Port Calc TQC-LCD Asm ALU	948845 951191	Aluminium
14	Blind Calc Door MH Assy Blind Calc Door MH Assy ALU Blind Calc Door MH Assy SST	Port Calc Aveugle MH Asm Port Calc Aveugle MH Asm ALU Port Calc Aveugle MH Asm Inox	948848 951193 948924	Aluminium Stainless Steel
15	Calc Door Stay Tab	Calc Door Stay Tab	949300	

TQC VGA DOOR



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Spacer 4.3x8x7	Entretoise Cyl 4.3x8x7	900024-028	
3	Lock Assy	Asm Serrure	-	Refer to Lock Assemblies
4	Hingebar Brass Media	Gond Porte Colonne Star Media	942245	
5	Glass 17" TFT Screen	Glass 17" TFT Screen	944677	
6	Bracket 17"TFT Glass	Bracket 17"TFT Glass	944680	
7	Seal17" TFT Glass - Bracket	Seal 17" TFT Glass - Bracket	944684	
8	Bracket IR Door Glass 17" TFT	Bracket IR Door Glass 17" TFT	944685	
9	Glass IR Sensor 17" TFT Screen	Glass IR Sensor 17" TFT Screen	944686	
10	Speaker Cover Calc Door 17" TFT	Speaker Cover Calc Door 17" TFT	944687	
11	Gasstrut Door Bracket Assy	Support Vérin Porte Assembly	947812	
12	Gasstrut Head Bracket Assy	Support Vérin Tête Assembly	947814	
13	Gas Strut 150N L=375.5	Vérin 150N L=375.5	948031	
14	Seal 17" TFT Calc Door - Glass	Joint 17" TFT CalcDoor - Glass	948179	
15	Calc Door 17 TFT Assy	Port Calc 17 TFT Asm	948181	Aluminium Additional Corrosion Protection
	Calc Door 17 TFT Assy ALU	Porte Calc 17 TFT Asm ALU	951189	
	Calc Door 17 TFT Assy ACP	Port Calc 17 TFT Asm ACP	948760	
16	Main Bracket Equip 17" Led+Speak	Main Bracket Equip 17" Led+Speak	-	Refer to 17" LED TFT Display Asm

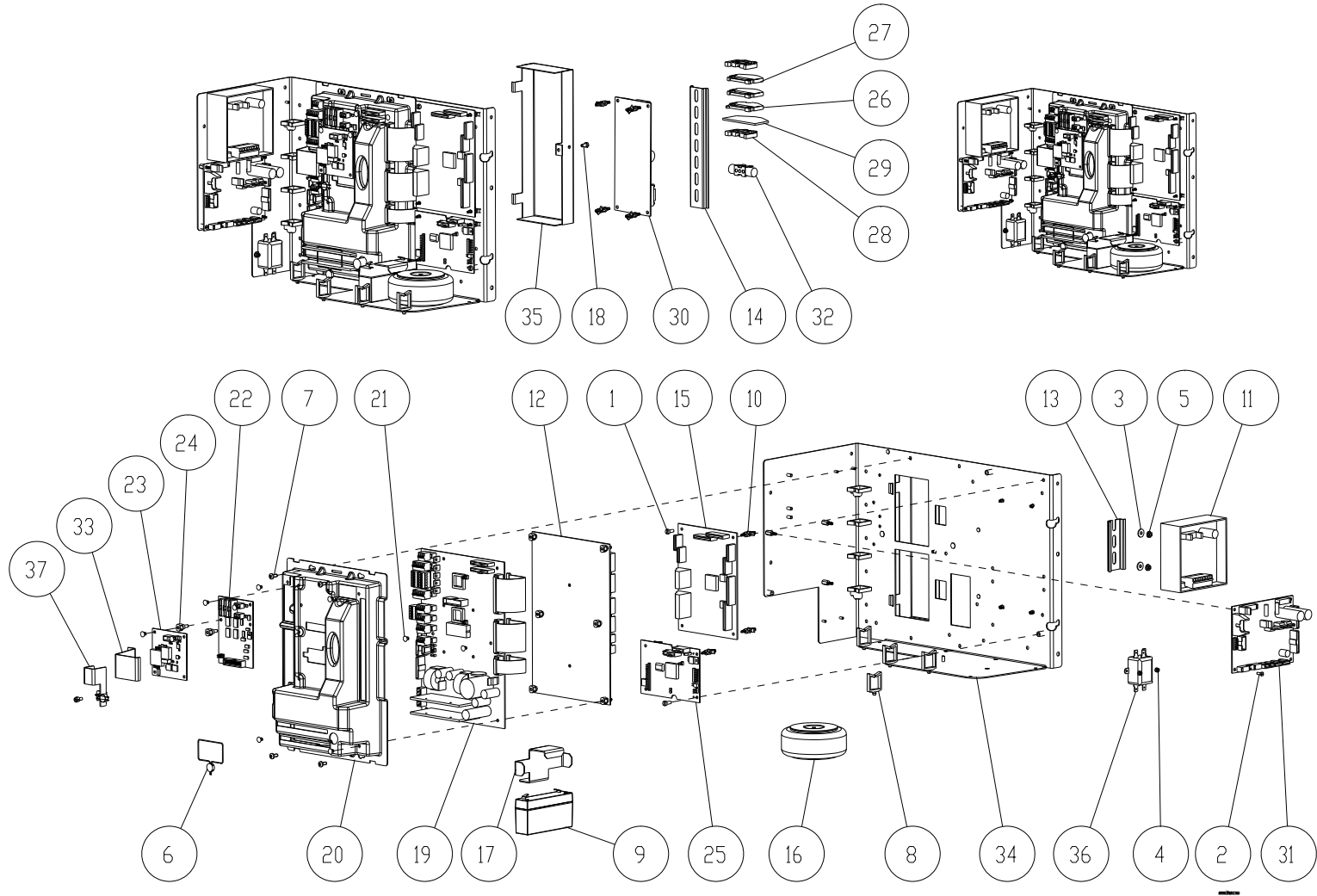
This exploded view diagram illustrates the assembly of a 19-inch rack-mountable power supply unit. The components are numbered as follows:

- 1**: Screws for the fan frame.
- 2**: Screws for the fan frame.
- 3**: Screws for the fan frame.
- 4**: Screws for the fan frame.
- 5**: Screws for the fan frame.
- 6**: Screws for the fan frame.
- 7**: Screws for the fan frame.
- 8**: Screws for the fan frame.
- 9**: Screws for the fan frame.
- 10**: Screws for the fan frame.
- 11**: Screws for the fan frame.
- 12**: Screws for the fan frame.
- 13**: Screws for the fan frame.
- 14**: Screws for the fan frame.
- 15**: Screws for the fan frame.
- 16**: Screws for the fan frame.
- 17**: Screws for the fan frame.
- 18**: Screws for the fan frame.

Item No	Description	Désignation Français	Part No	Comments
1	Screw Slotted Cheese Head	Vis a Tete Cylindrique Fendue	900007-007	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Screw HSHC M4x8	Vis CHC M4x8	900017-008	
4	Screw HSHC M3x6	Vis CHC M3x6	900017-016	
5	Rivet Rokut	Rivet Expansion	900022-002	
6	Speaker 8 Ohm 10W MM	Haut Parleur 8 Ohm 10W MM	900301-001	
7	Screw HSC M3x6	Vis FHC M3x6	900643-004	
8	M4x8 Sealing Screw 5-8 St Zn	M4x8 Scellant VIS 5-8 St Zn	901551-001	
9	Thermal Switch NC 60/45 DegC	Thermal Switch NC 60/45 DegC	903949-002	
10	Ty Wrap Base	Ty Wrap Baser	904084	
11	Fan 120x120x38/24v	Fan 120x120x38/24v	942459	
12	Screen Grating Fan d120	Screen Grating Fan d120	942487	
13	PCB/TQC-IRC/TQC IRDA Control Board	PCB/TQC-IRC/TQC IRDA Control Board	944697	
14	Seal Bracket Screen TQC-VGA	Seal Bracket Screen TQC-VGA	946577	
15	Main Bracket 17" TFT Assy	Main Bracket 17" TFT Assy	950033	
16	Display 17inch TFT-LED	Display 17inch TFT-LED	950035	
17	Insulation Plate	Plaque de Isolement	950063	
18	Cable Clamp TQC-VGA	Cable Clamp TQC-VGA	950156	

5.4 Centre Plate Assemblies

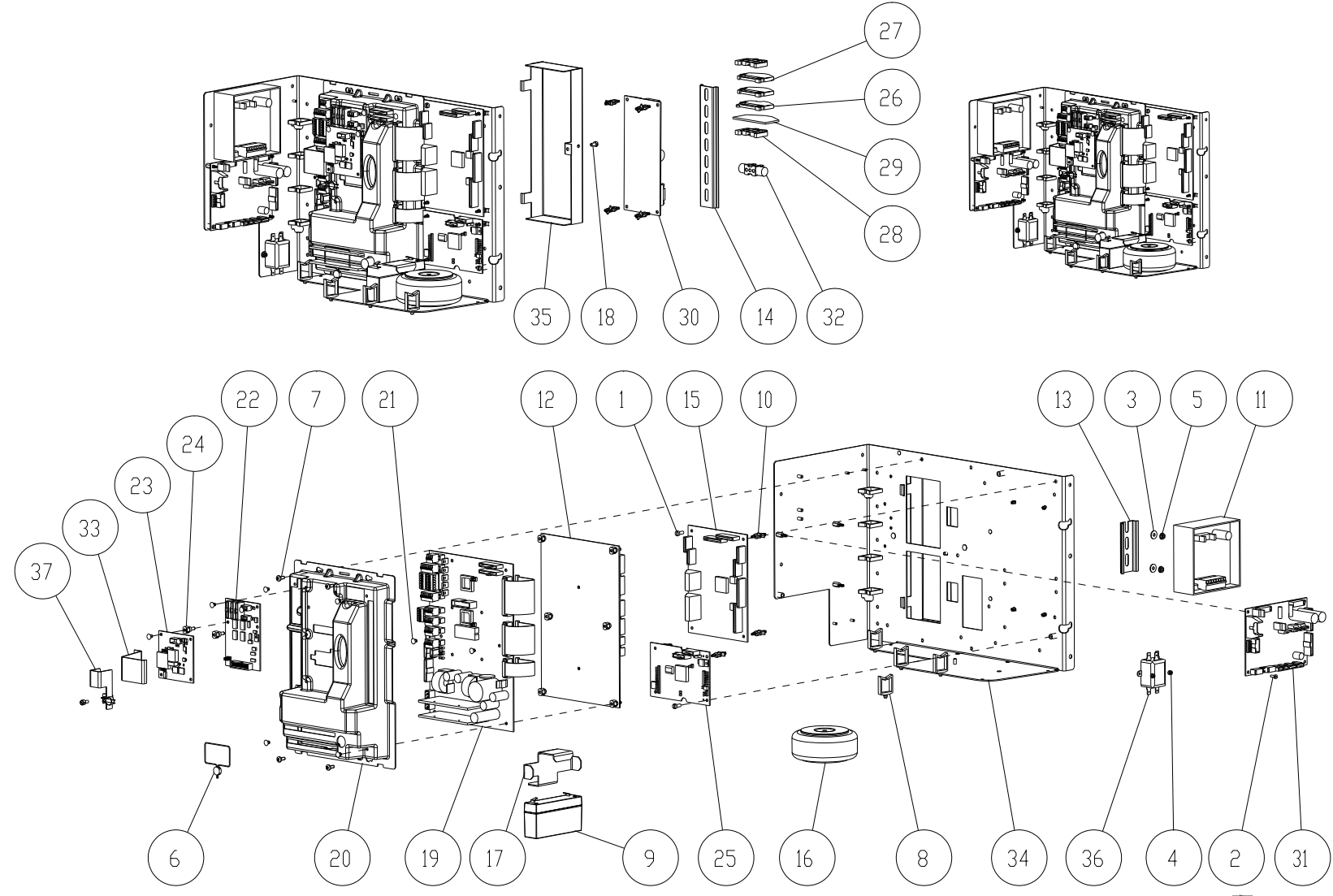
5.4.1 WWC CENTRE PLATE



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 L=180	Rail de Bornier TS 35 L=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 LON/IFSF	WWC Communication Monter LON/IFSF	902254	
	WWC Comms Board M32/M3000	WWC Communication Monter M32/M3000	902255	
	WWC Comms Board ZSR/FM	WWC Communication Monter ZSR/FM	902256	
	WWC Com. Brd Kienzle/ER3/S&B/DOMS	WWC Com. Monter Kienzle/ER3/S&B/DOM	902257	
	WWC Comms Board Autotank	WWC Communication Monter Autotank	902258	

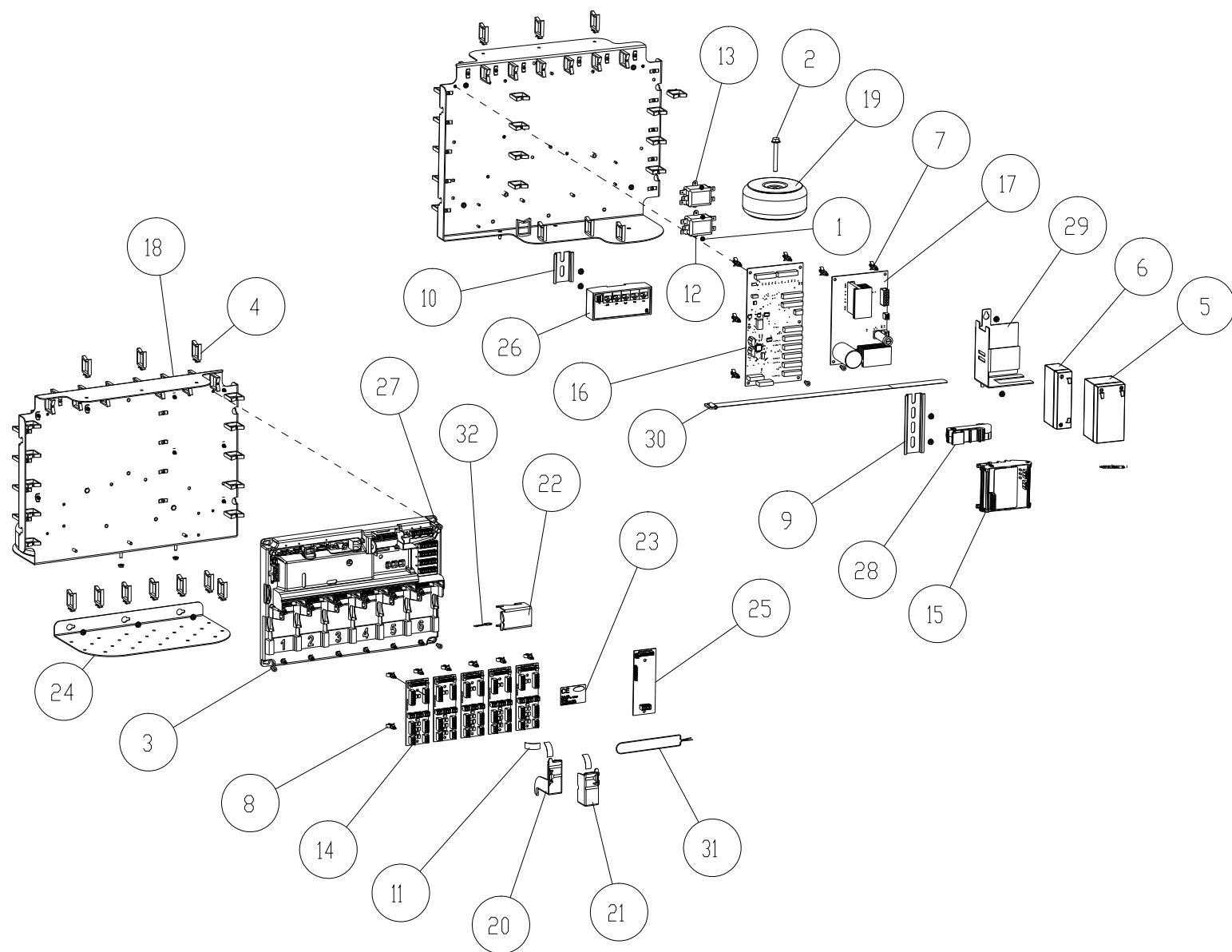
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5.4.1 WWC CENTRE PLATE (CONT.)



Item No	Description	Désignation Français	Part No	Comments
23	WWC Comms Board Dresser/EPS	WWC Com. Monter Dresser/EPS	902259	
Cont.	WWC Comms Board Tokheim	WWC Communication Monter Tokheim	902260	
	WWC Comms Board Logitron	WWC Communication Monter Logitron	902261	
	WWC Comms Board EIN/Sofitam/82D	WWC Com. Monter EIN/Sofitam/82D	900329	
	WWC Comms Board Nouvo Pignioni	WWC Com. Monter Nouvo Pignioni	940258	
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	
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	

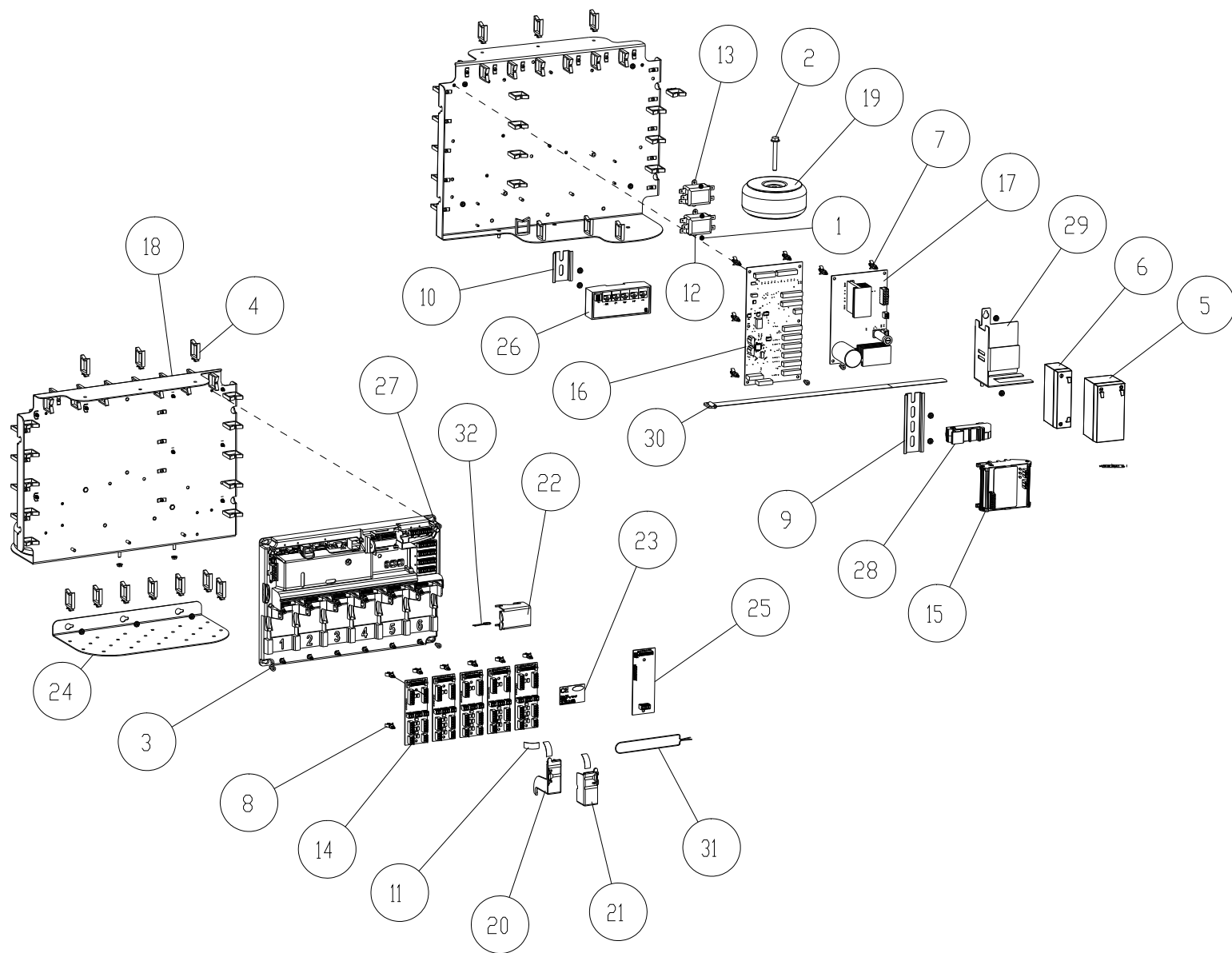
5.4.2 TQC CENTREPLATE



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou autobloquant Flange M4 x	900013-001	
2	Nut Hex Self Lock M3	Ecrou Et Rondelle Eventail M3	900013-006	
3	Screw HFHSL M6x50	Vis Bride Hex Autobloq M6x50	900016-005	
4	Screw HSHC M4x8	Vis CHC M4 x 8	900017-008	
5	Wire clip dim. 21.6 19.6	Fixation cable dim 21.6 19.6	900058-001	
6	BATTERY 12V 1.2Ah	BATTERIE 12V 1,2 Ah	900072-001	
7	BATTERY 6V 1.2Ah	BATTERIE 6V 1,2Ah	900075-001	
8	Lock. circuitboard sup. 9.5 mm	Tabl circ verrouil sup. 9.5 mm	900456-001	
9	Lock. circuitboard sup. 4.8 mm	Tabl circ verrouil sup. 4.8 mm	900456-002	
10	Rail TS 35 l=100	Rail de bornier TS l=100	901432-005	
11	Rail TS 35 l=50	Rail de bornier TS l=50	901432-014	
12	TQC Pulser Sticker Dundee	TQC étiquette D/dee	901689-235	
	TQC Pulser Sticker Grenthevill	TQC étiquette Grentheville	901689-236	
	TQC Pulser Sticker Bladel	TQC étiquette Bladel	901689-237	
	TQC Pulser Sticker SSD	TQC étiquette SSD	901689-238	
13	netfilter Schaffner 1Amp	netfilter Schaffner 1Amp	906645-001	
14	netfilter Schaffner 3A	netfilter Schaffner 3A	906645-002	
15	PCB/TQC002/HYM Hydraulic Modul	PCB/TQC002/HYM Hydraulic Modul	942184	
16	Energy Limiting Unit for CAN	Energy Limiting Unit for CAN	942387	
17	PCB/TQC006/SIO/Slave IO board	PCB/TQC006/SIO/Slave IO board	942687	
18	PCB/TQC005L0/PSU	PCB/TQC005L0/PSU	942696	
19	TQC T1 Centerplate Assy	TQC T1 Centerplate Assy	951222	
20	TQC Transformer 25V 160VA	TQC Transformer 25V 160VA	943725	
21	TQC Hym seal left	TQC Hym seal left	944072	
22	TQC Hym seal right	TQC Hym seal right	944073	
23	TQC EMT seal cap	TQC EMT seal cap	944074	
24	TQC Sticker seal	TQC Sticker seal	944076	
	TQC Sticker seal "Bladel"	TQC Sticker seal "Bladel"	944076-001	

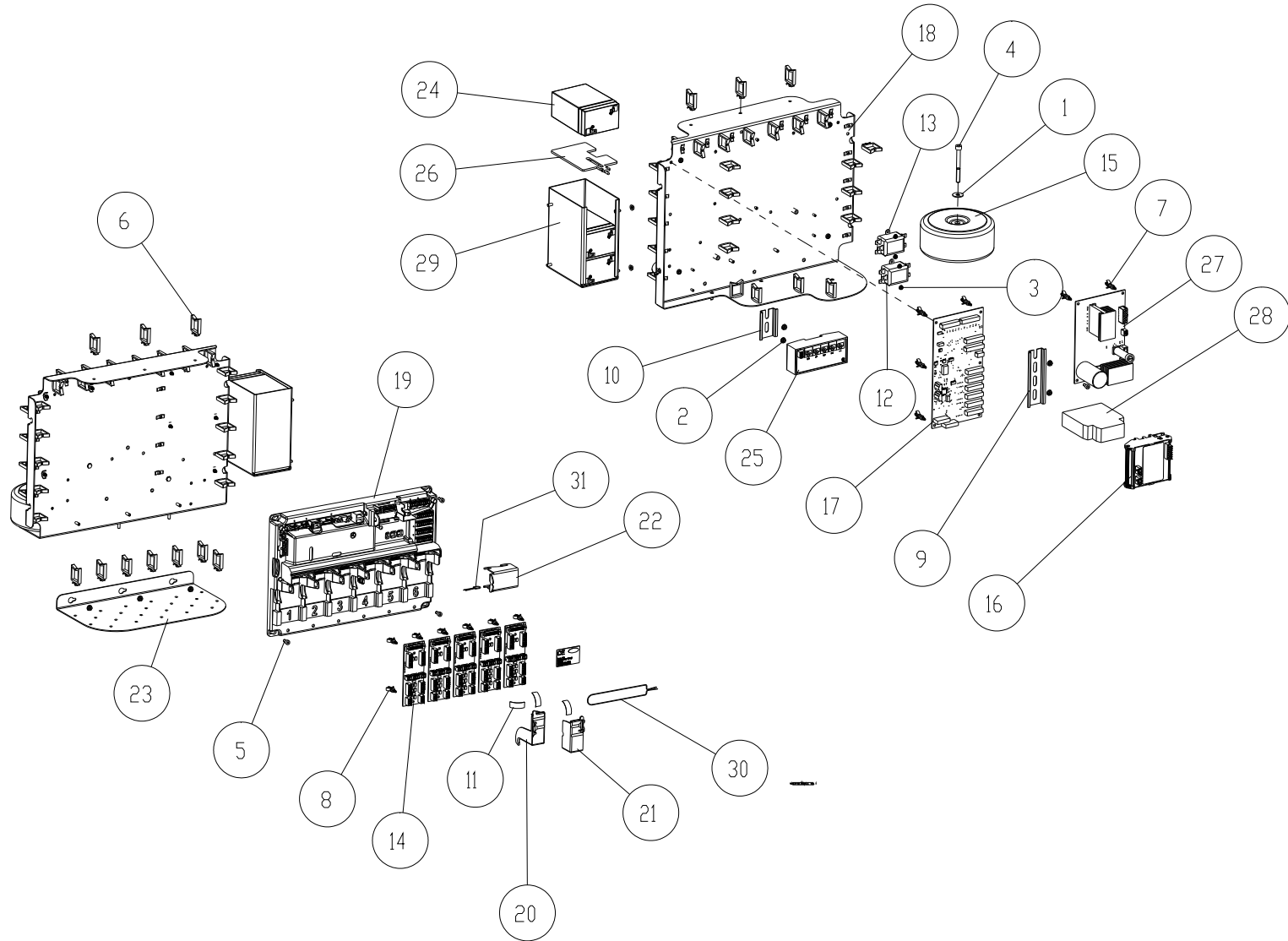
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5.4.2 TQC CENTREPLATE (CONT.)



Item No	Description	Désignation Français	Part No	Comments
24	TQC Sticker seal"Grentheville"	TQC Sticker seal"Grentheville"	944076-002	
(Cont.)	TQC Sticker seal"Dundee"	TQC Sticker seal"Dundee"	944076-003	
25	TQC Cable clip bracket	TQC Cable clip bracket	944580	
26	PCB/TQC012L0/TOK comms single	PCB/TQC012L0/TOK comms single	944581	
	PCB/TQC022L0/DAR0 comms board	PCB/TQC022L0/DAR0 carte comms	947037	
	PCB/TQC008L0/EIN comms board	PCB/TQC008L0/EIN comms board	942693	
	PCB/TQC010L0/EPS comms board	PCB/TQC010L0/EPS comms board	942695	
	PCB/TQC031L0/M32 Comms Brd	PCB/TQC031L0/M32 Comms Brd	950392	
	PCB/TQC035L0/KZL0 comms brd	PCB/TQC035L0/KZL0 carte com	952864	
	PCB/TQC009L0/LOGITRON comm brd	PCB/TQC009L0/LOGITRON comm brd	942694	
	PCB/TQC007L0/LON comms board	PCB/TQC007L0/LON comms board	942692	
	PCB/TQC031L0/M32 Comms Brd	PCB/TQC031L0/M32 Comms Brd	950392	
	PCB/TQC037L0/NUP0 comms brd	PCB/TQC037L0/NUP0 carte comms	953437	
	PCB/TQC012L0/TOK comms single	PCB/TQC012L0/TOK comms single	944581	
	PCB/TQC029L0/ZSR-DUN comms brd	PCB/TQC029L0/ZSR-DUN carte com	949253	
27	Switch Ethernet 10/100 5 Ports	Switch Ethernet 10/100 5 Ports	946590-001	
28	Assy TQC Cover + I/O and ARM9	Assy TQC Cover + I/O and ARM9	947802	Standard without Software
	Assy TQC Cover	Assy TQC Cover	953053	Non VR without Software
	Assy TQC Cvr + I/O + APB + SW	Assy TQC Cvr + I/O + APB + SW	955515	With Software
	Assy TQC Cover (EIO nonVR)+SW	Assy TQC Cover (EIO nonVR)+SW	955516	Non VR with Software
	PCB/TQC011/APB/ARM9	PCB/TQC011/APB/ARM9	943567	Without Software
	PCB/TQC011L5/APB5/SITARA + SW	PCB/TQC011L5/APB5/SITARA + SW	955514	With Software
29	PCB/TQC034/SCN Ser. Converter	PCB/TQC034/SCN Ser. Converter	952762	
30	TQC Battery Bracket	TQC Battery Bracket	957834	
31	Velcro Strap	Velcro Strap	957835	
32	Wire Seal	Métallique Cacheter	-	
33	Wire Seal	Métallique Cacheter	-	

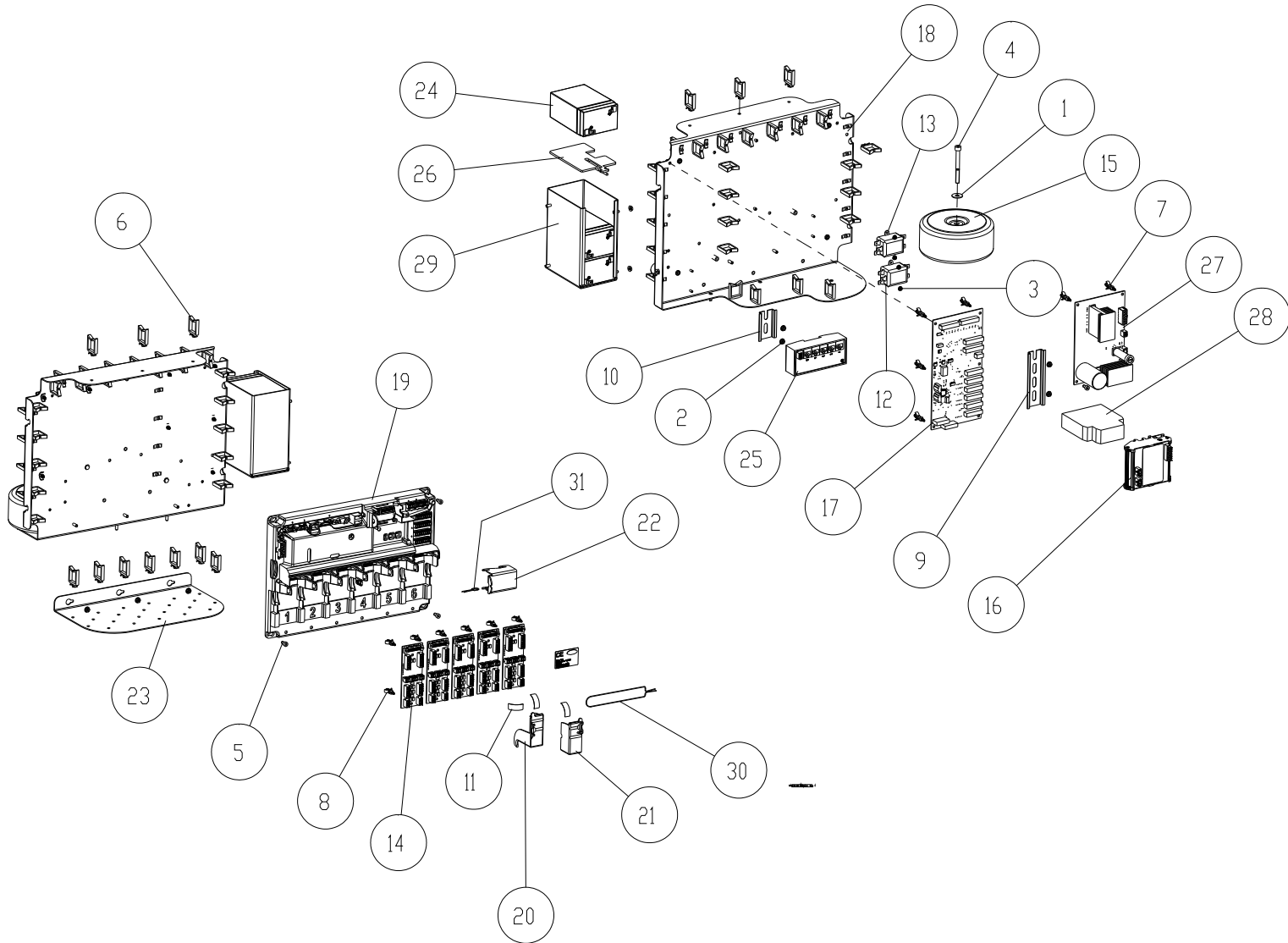
5.4.3 TQC VGA CENTREPLATE



Item No	Description	Désignation Français	Part No	Comments
1	Washer PI L6	Rondelle Plate L6	900008-022	
2	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
3	Nut Hex Self Lock M3	Ecrou Bride Autobloquant M3	900013-006	
4	Screw HSHC M6x60	Vis CHC M6x60	900017-001	
5	Screw HSHC M4x8	Vis CHC M4x8	900017-008	
6	Wire Clip max entas. 19	Fixation câble Max Bundle 19	900058-001	
7	Lock. Circuitboard Support 9.5mm	Tabl Circ Verrouil Sup. 9.5mm	900456-001	
8	Lock. Circuitboard Support 4.8mm	Tabl Circ Verrouil Sup. 4.8mm	900456-002	
9	Rail TS 35 I=100	Rail de Bornier TS 35 I=100	901432-005	
10	Rail TS 35 I=50	Rail de Bornier TS 35 I=50	901432-014	
11	TQC Pulser Sticker Seal Dundee	TQC Pulser Sticker Seal Dundee	901689-235	
	TQC Pulser Sticker Seal Grentheville	TQC Pulser Sticker Seal Grentheville	901689-236	
	TQC Pulser Sticker Seal Bladel	TQC Pulser Sticker Seal Bladel	901689-237	
	TQC Pulser Sticker Seal SSD	TQC Pulser Sticker Seal SSD	901689-238	
12	Netfilter Schaffner 1 Amp	Netfilter Schaffner 1 Amp	906645-001	
13	Netfilter Schaffner 3 Amp	Netfilter Schaffner 3 Amp	906645-002	
14	PCB/TQC002/HYM Hydraulic Module	PCB/TQC002/HYM Hydraulic Module	942184	
15	TQC-VGA Transformer 25V 225VA	TQC-VGA Transformer 25V 225VA	942357	
16	Energy Limiting Unit CAN Bus	Energy Limiting Unit CAN Bus	942387	
17	TQC European Slave IO Board	TQC European Slave IO Board	942687	
18	TQC T1 Centerplate Assy	TQC T1 Centerplate Assy	951222	
19	Assy TQC Cover + I/O and ARM9	Assy TQC Cover + I/O and ARM9	947802	
	Assy TQC Cover + EST and APB	Assy TQC Cover + EST and APB	951454	
	Assy TQC Cover (EIO non VR)	Assy TQC Cover (EIO non VR)	953053	
20	TQC HYM Seal Left	TQC HYM Seal Left	944072	
21	TQC HYM Seal Right	TQC HYM Seal Right	944073	
22	TQC EMT Seal	TQC EMT Seal	944074	

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5.4.3 TQC VGA CENTREPLATE (CONT.)

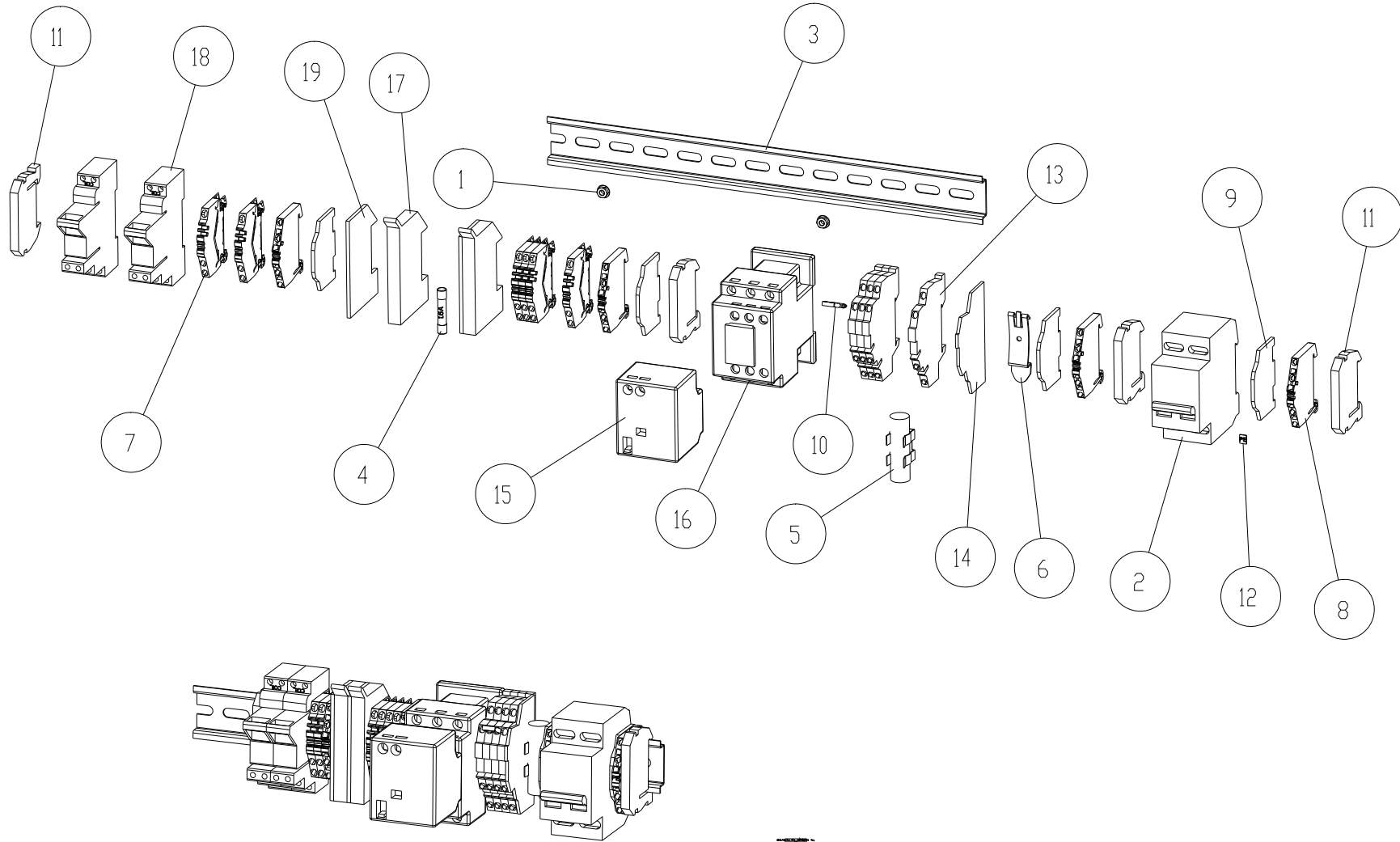


Item No	Description	Désignation Français	Part No	Comments
23	TQC Cable Clip Bracket	TQC Cable Clip Bracket	944580	
24	Battery 6V 4 Ah Yuasa	Battery 6V 4 Ah Yuasa	944788	
25	Switch Ethernet 10/100 5 Ports	Switch Ethernet 10/100 5 Ports	946590-001	
26	TQC Thermistor NTC Assy	TQC Thermistor NTC Assy	947253	
27	PCB/TQC005L3/PSU-VGA	PCB/TQC005L3/PSU-VGA	947463	
28	RS232 to RS485 Converter DIN	RS232 to RS485 Converter DIN	950054	
29	TQC VGA Battery Bracket	TQC VGA Battery Bracket	950929	
30	Sealing Wire	Métallique Cacheter	-	
31	Sealing Wire	Métallique Cacheter	-	



5.5 Rail Components

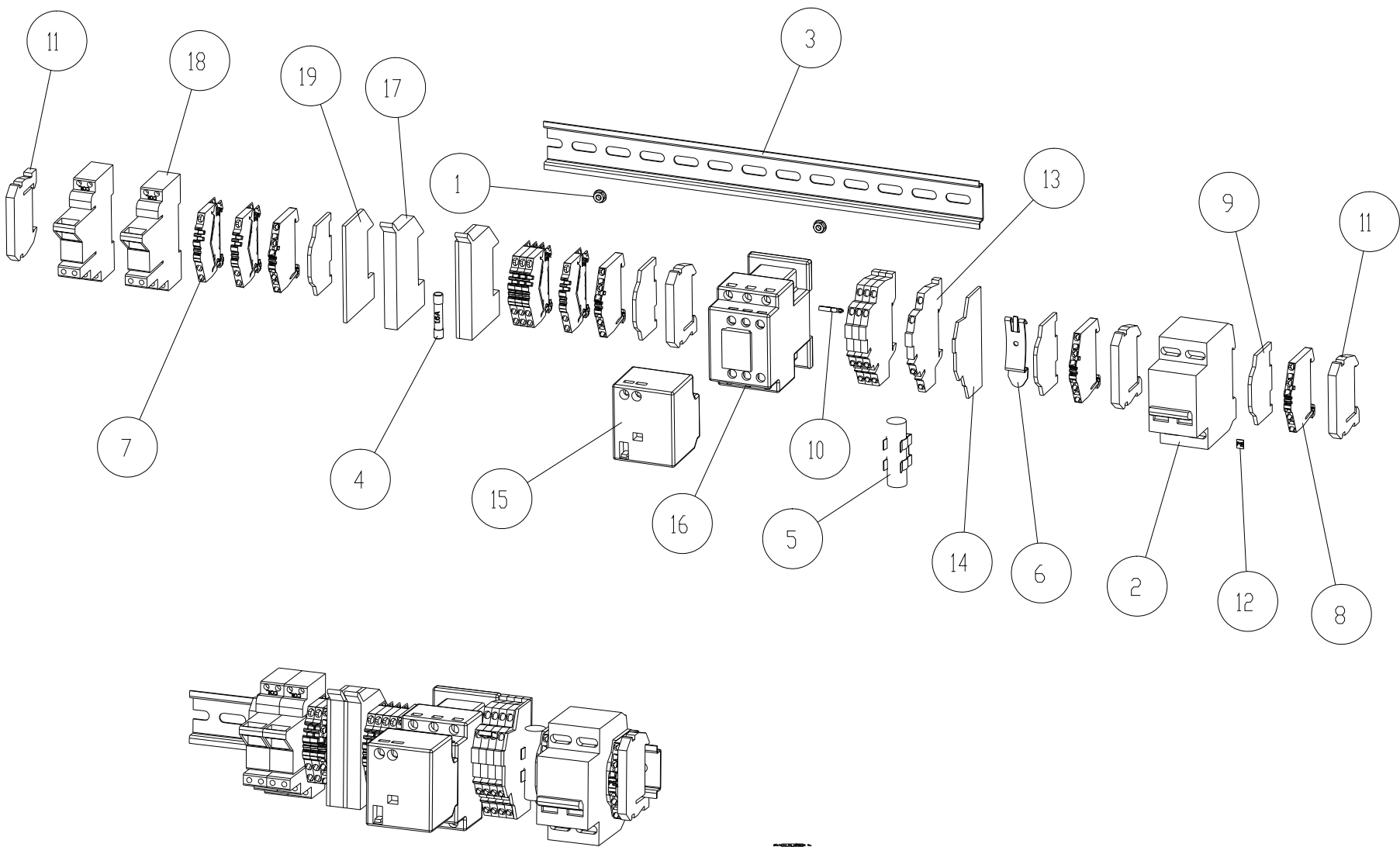
5.5.1 WWC RAIL COMPONENTS



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Main Switch 400V/32A	Commutat Princip 400V/32A	900074-001	
3	Rail TS 35 I=100	Rail de Bornier TS 35 I=100	901432-005	
	Rail TS 35 I=180	Rail de Bornier TS 35 I=180	901432-002	
	Rail TS 35 I=250	Rail de Bornier TS 35 I=250	901432-008	
	Rail TS 35 I=320	Rail de Bornier TS 35 I=320	901432-004	
	Rail TS 35 I=500	Rail de Bornier TS 35 I=500	901432-009	
4	Fuse 1.6A	Fusible 1.6A	903483-002	
	Fuse 6.3A	Fusible 6.3A	903483-004	
5	Vibration Contact	Vibration Contact	905176	
6	Clip Nut M4 - DIN Rail	Ecrou Clip M4 - Rail DIN	906193-001	
7	Clamp 3 x 0.13 - 2.50 mm beige	Borne 3 x 0.13 - 2.50mm beige	909416-001	
8	Clamp 4 x 0.13 - 2.50 mm gn/ye	Borne 4x0.13-2.50mm vert/jaune	909416-002	
9	End Plate Orange	Plaque Separation Orange	909416-003	
10	Jumper 2 Pole	Jonction 2 Voies	909416-004	
	Jumper 3 Pole	Jonction 3 Voies	909416-005	
11	End Bracket Beige	Extremite Stop Beige	909416-006	
12	Code Letter L1	Code Barre L1	909416-007	
	Code Letter L2	Code Barre L2	909416-008	
	Code Letter L3	Code Barre L3	909416-009	
	Code Letter N	Code Barre N	909416-010	
	Code Letter PE	Code Barre PE	909416-011	
	Code Letter Blank	Code Barre Blank	909416-012	
	Code Letter 1-10	Code Barre 1-10	909416-017	
	Code Letter 11-20	Code Barre 11-20	909416-018	
	Code Letter L4	Code Barre L4	908994-001	

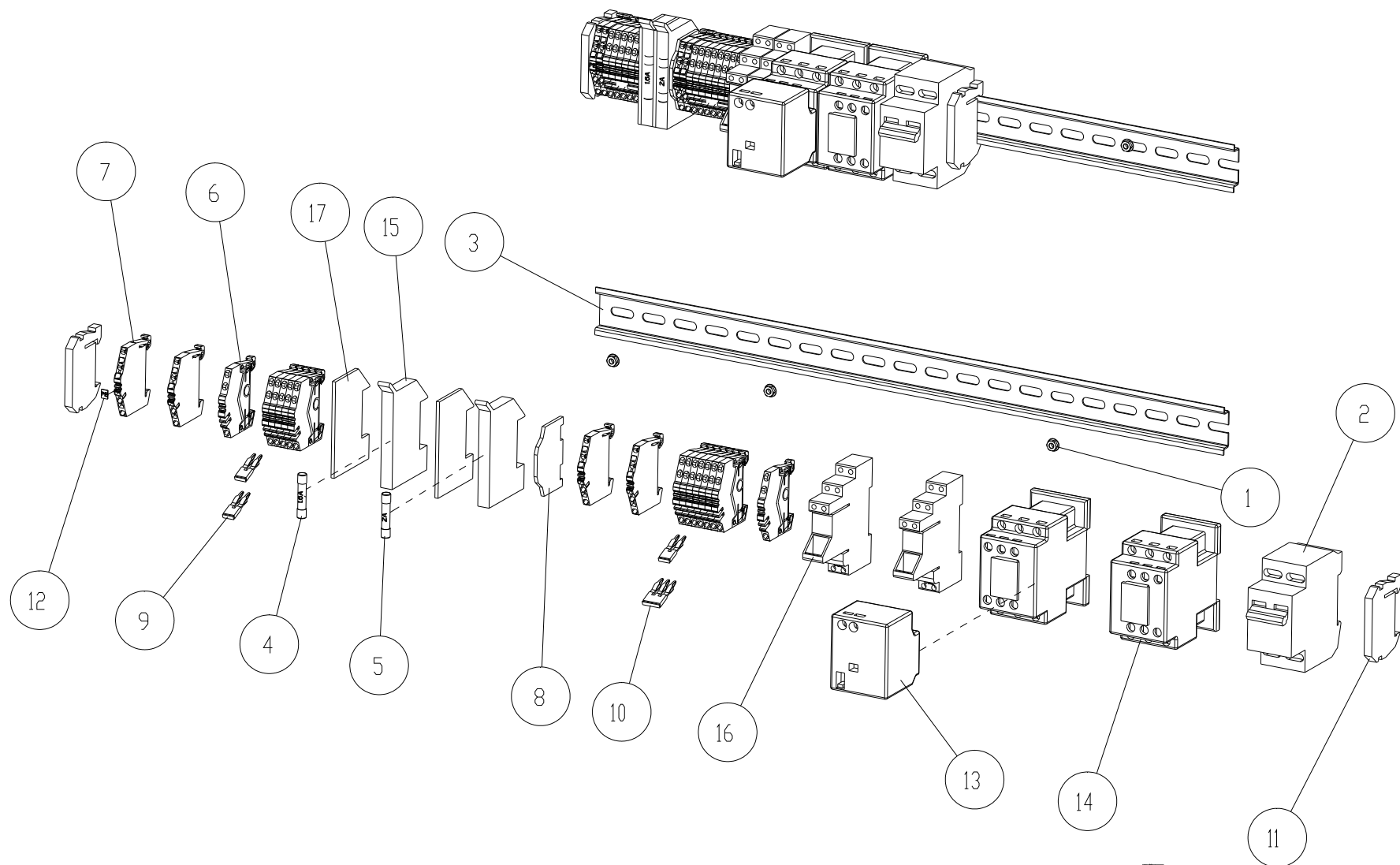
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5.5.1 WWC RAIL COMPONENTS (CONT.)



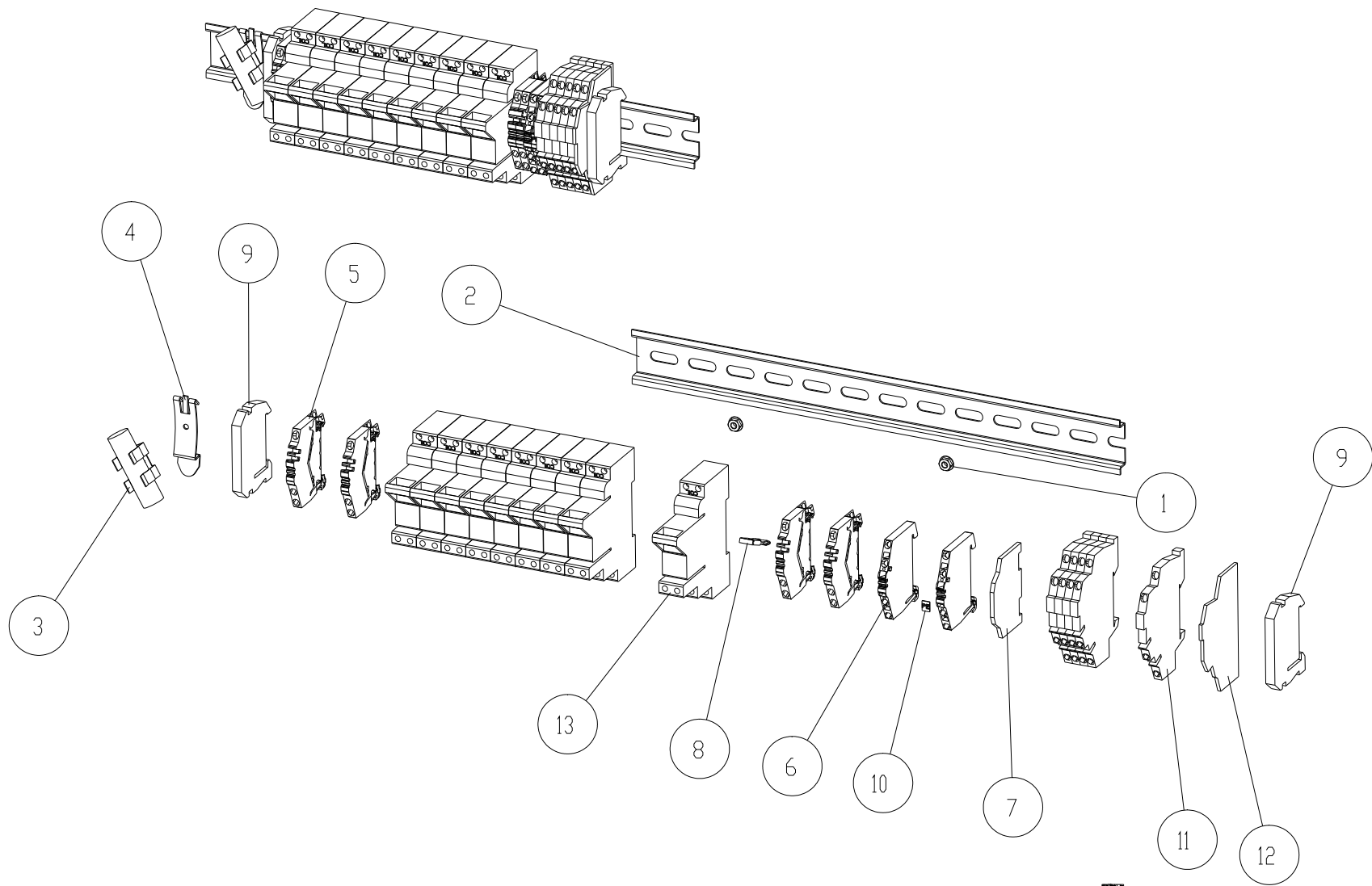
Item No	Description	Désignation Français	Part No	Comments
12 (Cont.)	Code Letter L5	Code Barre L5	908994-002	
	Code Letter L6	Code Barre L6	908994-003	
	Code Letter N6	Code Barre N6	908994-004	
13	Clamp 2x2x 0.13-2.50mm Beige	Borne 2x2x 0.13-2.50mm Beige	909416-013	
14	End Plate Orange for Clamp -013	Plaque Separa Orange pour -013	909416-014	
15	Mechanical Latch	Mechanical Latch	941653	
16	Contactactor 230Vac	Contactactor 230Vac	941654-001	
17	Fuse Holder for 6.3 x 32 Fuse	Porte Fusible Sect 6.3 x 32	944754	
18	Relay & Socket Assembly TS35	Asm Relais & Cavite TS35	944844	
19	End Plate, Fuse Terminal	Plaque d'Extrémité Fusible	944879	

5.5.2 TQC MAINS RAIL COMPONENTS



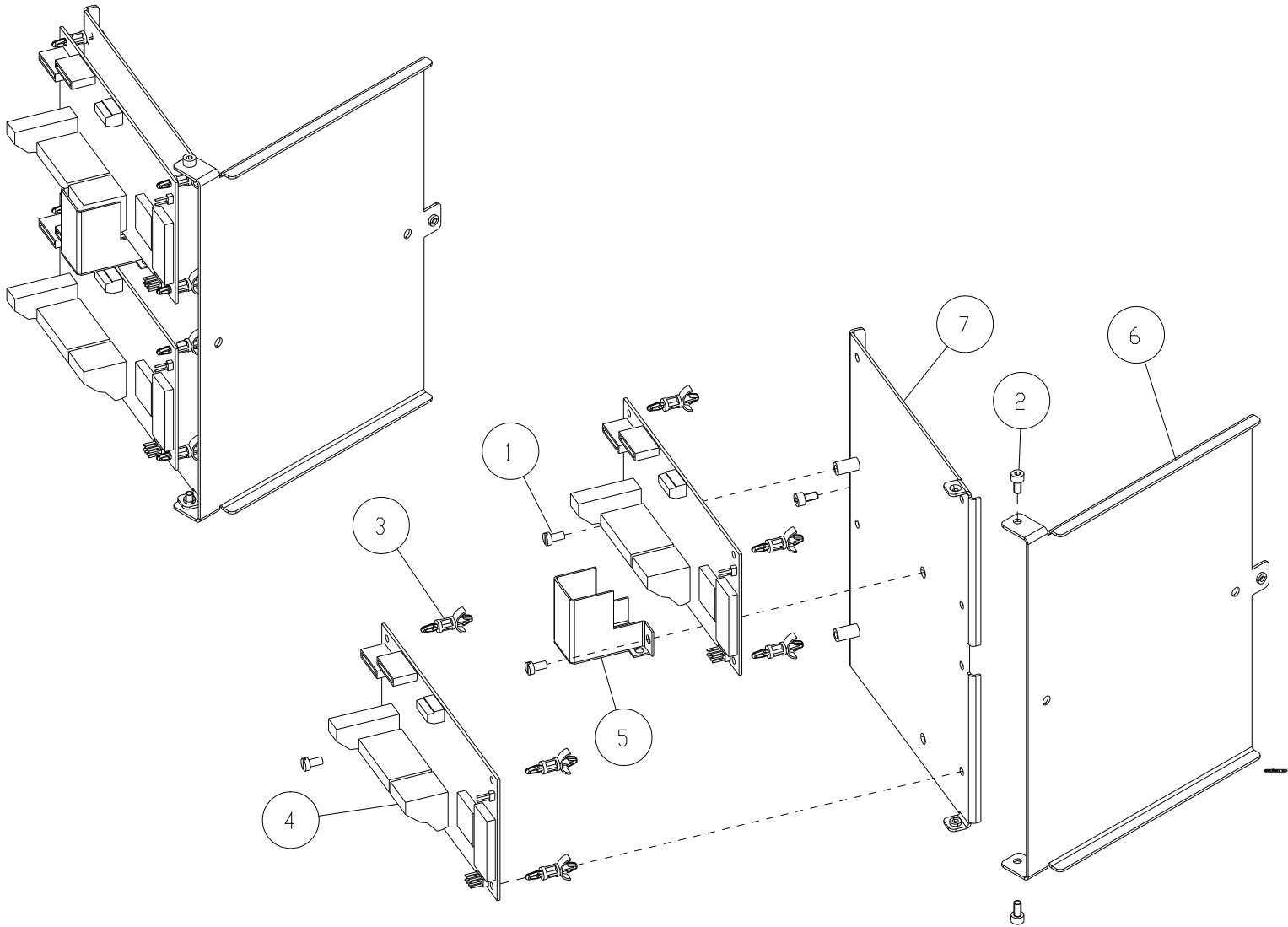
Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Main Switch 400V/32A	Commutat Princip 400V/32A	900074-001	
3	Rail TS 35 I=500	Rail de Bornier TS 35 I=500	901432-009	
4	Fuse 1.6A	Fusible 1.6A	903483-002	
5	Fuse 2A	Fusible 2A	903483-007	
6	Clamp 3 x 0.13 - 2.50 mm Beige	Borne 3 x 0.13 - 2.50mm Beige	909416-001	
7	Clamp 4 x 0.13 - 2.50 mm Gn/Ye	Borne 4x0.13-2.50mm Vert/Jaune	909416-002	
8	End Plate Orange	Plaque Separation Orange	909416-003	
9	Jumper 2 Pole	Jonction 2 Voies	909416-004	
10	Jumper 3 Pole	Jumper 3 Pole	909416-005	
11	End Bracket Beige	Extremite Stop Beige	909416-006	
12	Code Letter L1	Code Barre L1	909416-007	
	Code Letter L2	Code Barre L2	909416-008	
	Code Letter L3	Code Barre L3	909416-009	
	Code Letter N	Code Barre N	909416-010	
	Code Letter PE	Code Barre PE	909416-011	
	Code Letter Blank	Code Barre Blank	909416-012	
	Code Letter 1-10	Code Barre 1-10	909416-017	
	Code Letters 11-20	Code Barre 11-20	909416-018	
	Code Letter L4	Code Barre L4	908994-001	
	Code Letter L5	Code Barre L5	908994-002	
	Code Letter L6	Code Barre L6	908994-003	
	Code Letter N6	Code Barre N6	908994-004	
13	Mechanical Latch	Mechanical Latch	941653	
14	Contacto 230V ac	Contacto 230V ac	941654-001	
15	Fuse Holder for 6.3 x 32 Fuse	Porte Fusible Sect 6.3 x 32	944754	
16	Relay & Socket Assembly TS35	Asm Relais & Cavite TS35	944844	
17	End Plate, Fuse Terminal	Plaque d'Extrémité Fusible	944879	

5.5.3 TQC OPTION RAIL COMPONENTS



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Rail TS 35 I=320	Rail de bornier TS 35 I=320	901432-004	
3	Vibration Contact	Vibration Contact	905176	
4	Clip Nut M4 - DIN Rail	Ecrou Clip M4 - Rail DIN	906193-001	
5	Clamp 3 x 0.13 - 2.50 mm Beige	Borne 3 x 0.13 - 2.50mm Beige	909416-001	
6	Clamp 4 x 0.13 - 2.50 mm Gn/Ye	Borne 4x0.13-2.50mm Vert/Jaune	909416-002	
7	End Plate Orange	Plaque Separation Orange	909416-003	
8	Jumper 2 Pole	Jonction 2 Voies	909416-004	
9	End Bracket Beige	Extremite Stop Beige	909416-006	
10	Code Letter L1	Code Barre L1	909416-007	
	Code Letter L2	Code Barre L2	909416-008	
	Code Letter L3	Code Barre L3	909416-009	
	Code Letter N	Code Barre N	909416-010	
	Code Letter PE	Code Barre PE	909416-011	
	Code Letter Blank	Code Barre Blank	909416-012	
	Code Letter 1-10	Code Barre 1-10	909416-017	
	Code Letters 11-20	Code Barre 11-20	909416-018	
	Code Letter L4	Code Barre L4	908994-001	
	Code Letter L5	Code Barre L5	908994-002	
	Code Letter L6	Code Barre L6	908994-003	
	Code Letter N6	Code Barre N6	908994-004	
11	Clamp 2x2x 0.13-2.50mm Beige	Borne 2x2x 0.13-2.50mm Beige	909416-013	
12	End Plate Orange for Clamp 013	Plaque Separa Orange pour -013	909416-014	
13	Relay & Socket Assembly TS35	Asm Relais & Cavite TS35	944844	

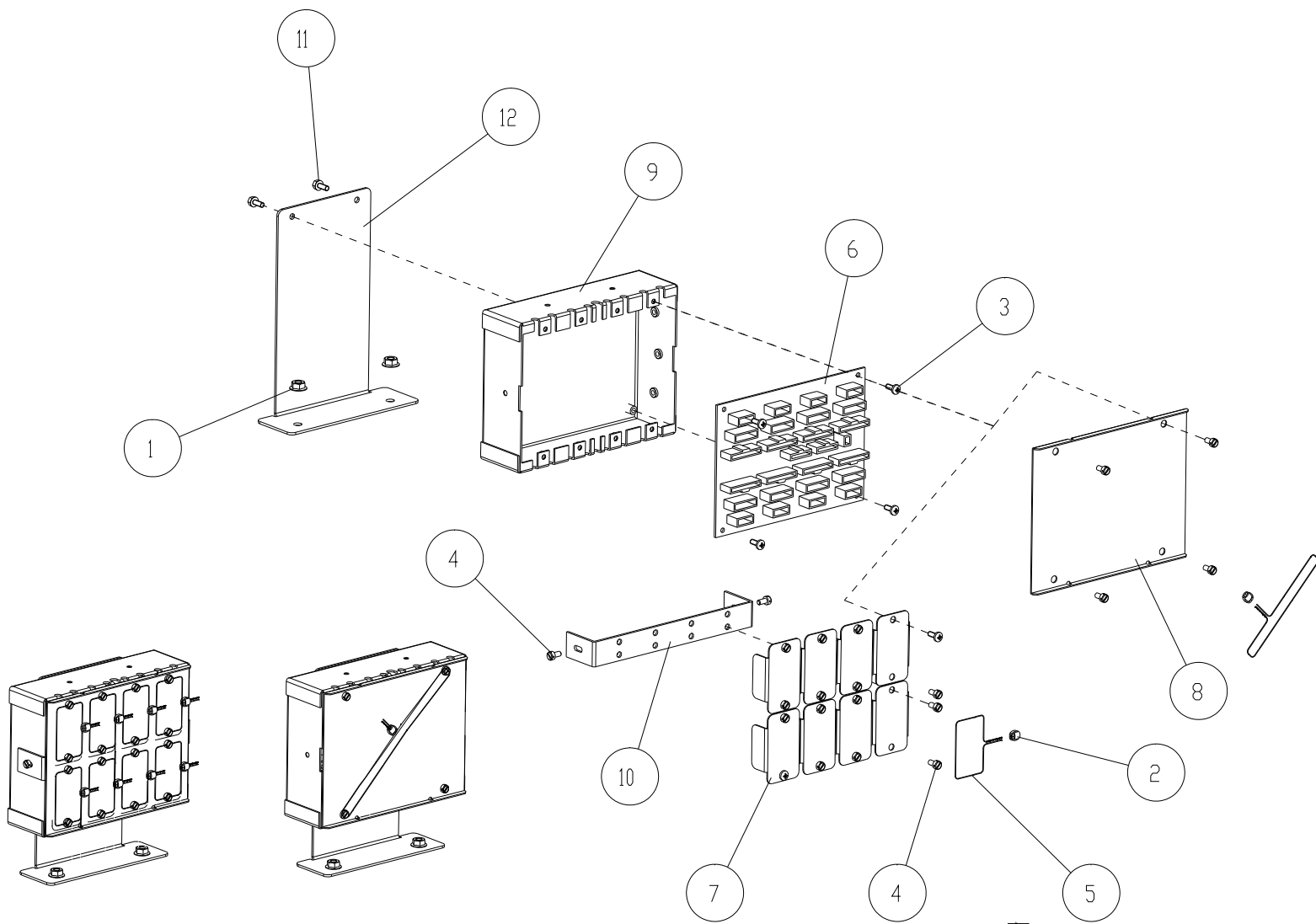
5.6 Hom Board Assembly



Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M4x8	M4 x 8 VIS CS / CLS	900007-003	
2	Screw HSHC M4x8	Vis CHC M4 x 8	900017-008	
3	Lock. circuitboard sup. 9.5 mm	Tabl circ verrouil sup. 9.5 mm	900456-001	
4	Wwc Hydraulic Option Module	Wwc Hydraulic Option Module	901539	
5	HOM bracket small	HOM bracket small	906534	
6	Hom Board Mtg Bracket	Hom Board Mtg Bracket	952975	
7	Hom Board Bracket Assy	Hom Board Bracket Assy	952976	

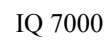
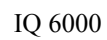


5.7 Pulsar Sealing Box Assemblies



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
2	Sealing Lead D8 x 2.5	Plomb à Pincer	900040-002	
3	Screw CRRCH M4x10	Vis CBLZ M4x10	900052-003	
4	M4x8 Sealing Screw 5-8 St Zn	M4x8 Scellant VIS 5-8 St Zn	901551-001	
5	Wire Seal	Métallique Cacheter	902404	
6	Pulser Calibration-Temp Comp.	Pulser Calibration-Temp Comp.	909520	
7	Sealing Board Lid (each meter)	Sealing Board Lid (each meter)	909681	Seals Individual Pulsers
8	Sealing Board Lid	Sealing Board Lid	909682	Seals All Pulsers
9	Sealing Board Frame Electronic Calibration	Armature de Calibrage Electronique	909766	
10	Omega Profiel Sealing Board Frame	Omega Profiel Sealing Board Frame	940233	
11	Screw Hex Head Combi M4x10	Vis Hex Head Combi M4x10	946630	
12	ATC Support Bracket	ATC Support Bracket	950552	

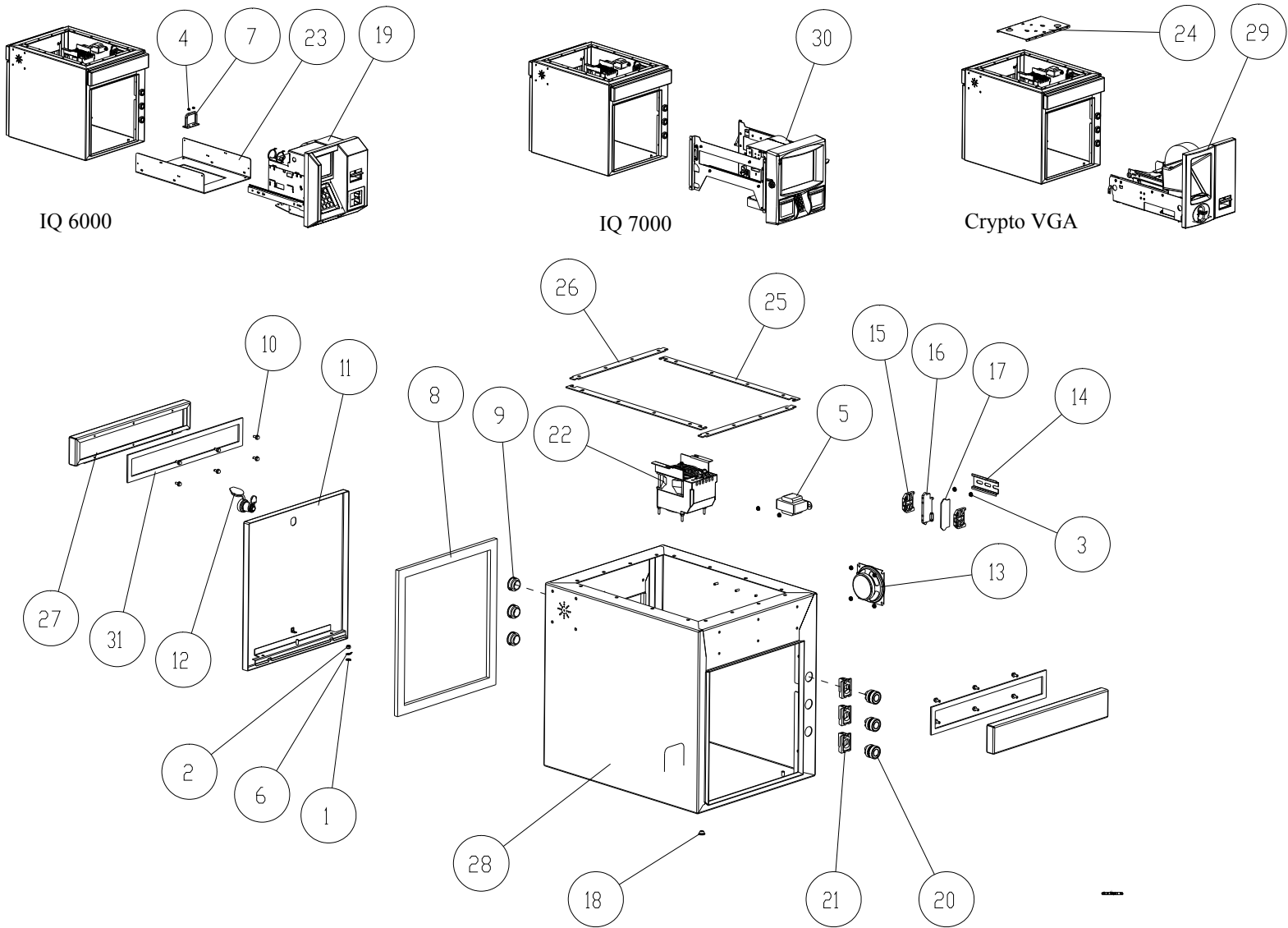
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Item No	Description	Désignation Français	Part No	Comments
1	Washer Serr Lock Ext M6	Rondelle a Dents DEC M6	900009-004	
2	Nut Hex Prev Torque M5	Ecrou Frein M5	900012-002	
3	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
4	Nut Hex Self Lock M5	Ecrou Bride Autobloquant M5	900013-002	
5	8 Ohm Speaker Transformer	8 Ohm Transformateur Haut Parleur	900302	
6	Ground Tag M5, 1/4" Fast-On	Tag Sol M5, 1/4" Rapide	900353	
7	Lock Staple MD	Agrfe Verrouillage MD	900541	
8	Q500T DIT Blind Door Seal	Q500T DIT Joint Porte Aveugle	900676	
9	Plug Black To Suit 22.3 Holes	Bouchon Noir Pour 22.3 Trou	900683-001	
10	Screw HFHTF M4x10	Vis Hex. Taraudeuse M4x10	900708-002	
11	DIT Blind Door Assy DIT Blind Door Assy ACP	DIT Asm Porte Aveugle DIT Asm Porte Aveugle ACP	900813 907064	Additional Corrosion Protection
12	Assembly Lock DIT Blind Door	Ass Serrure Porte DIT Aveugle	-	Refer to Lock Assembly
13	8 Ohm Speaker	8 Ohn haut Parleur	901057	
14	Rail TS 35 L=75	Rail de Bornier TS 35 L=75	901432-001	
15	Endstop Grey 35mm 249-116	Butée arrêt Grise 35mm 249-116	901712-001	
16	Terminal Clamp 2x2 Way	Terminal Clamp 2x2 Way	901714-001	
17	Separation Plate OG, 280-327	Plaque Separation OG, 280-327	901855-001	
18	Gore Supra Vent	Gore Supra Vent	906628	
19	IQ 6000	IQ 6000	-	Refer to IQ 6000 Tech. Manual
20	Button Black	Bouton Noir	948560-001	
21	Switch Body ZB5	Corps Contact ZB5	908604	
22	DBK Heater 350W	Chauffage DBK 350W	909214-001	
23	Bracket IQ 6000 Slide	Support IQ 6000	909257	
24	Cable Gutter	Cable Gutter	909759	
25	Seal - IQ Long	Joint de IQ Long	940399	
26	Seal - IQ Short	Joint de IQ Court	940401	

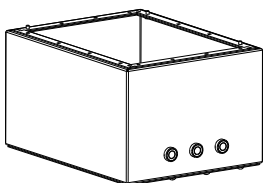
(Cont.)

5.8 Dispenser Integrated Terminal (DIT) Assembly Cont.

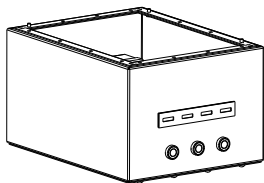


Item No	Description	Désignation Français	Part No	Comments
27	DIT Box Brow	Front Clôt IQ	942012	Additional Corrosion Protection
	DIT Box Brow ACP	Front Clôt IQ ACP	946719	
28	DIT Housing	DIT Asm Clôture	942013	Additional Corrosion Protection Additional Corrosion Protection
	DIT Housing Speaker/PB	DIT Asm Clôture Speaker/PB	942021	
	DIT Housing ACP	DIT Asm Clôture ACP	946713	
	DIT Housing ACP Speaker/PB	DIT Asm Clôture ACP Speaker/PB	946715	
29	Crypto VGA	Crypto VGA	-	Refer to Crypto VGA Tech. Manual
30	IQ 7000	IQ7000	-	Refer to IQ 7000 Tech. Manual
31	Q410 DIT Seal	Q410 DIT Seal	948155	

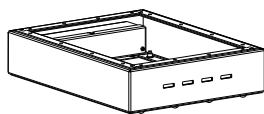
5.9 VGA Button/EMT Box Assemblies



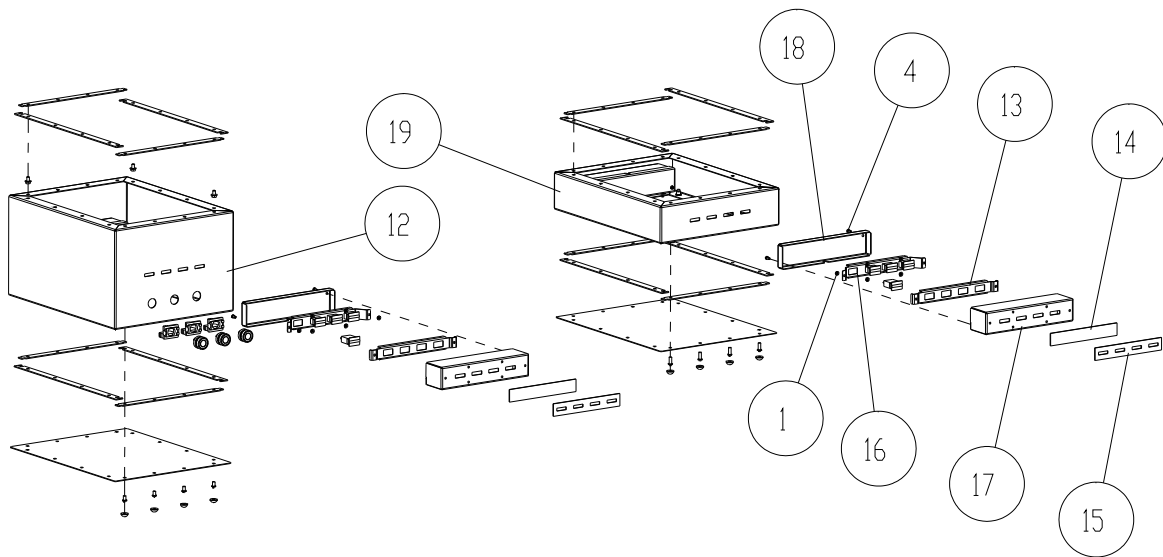
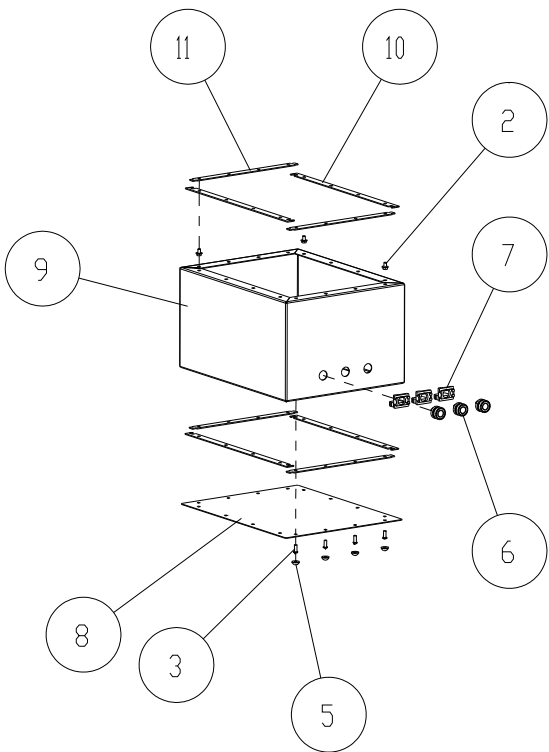
PUSH BUTTON ONLY
ADA OPTION



PUSH BUTTON & EMT
TQC VGA OPTION

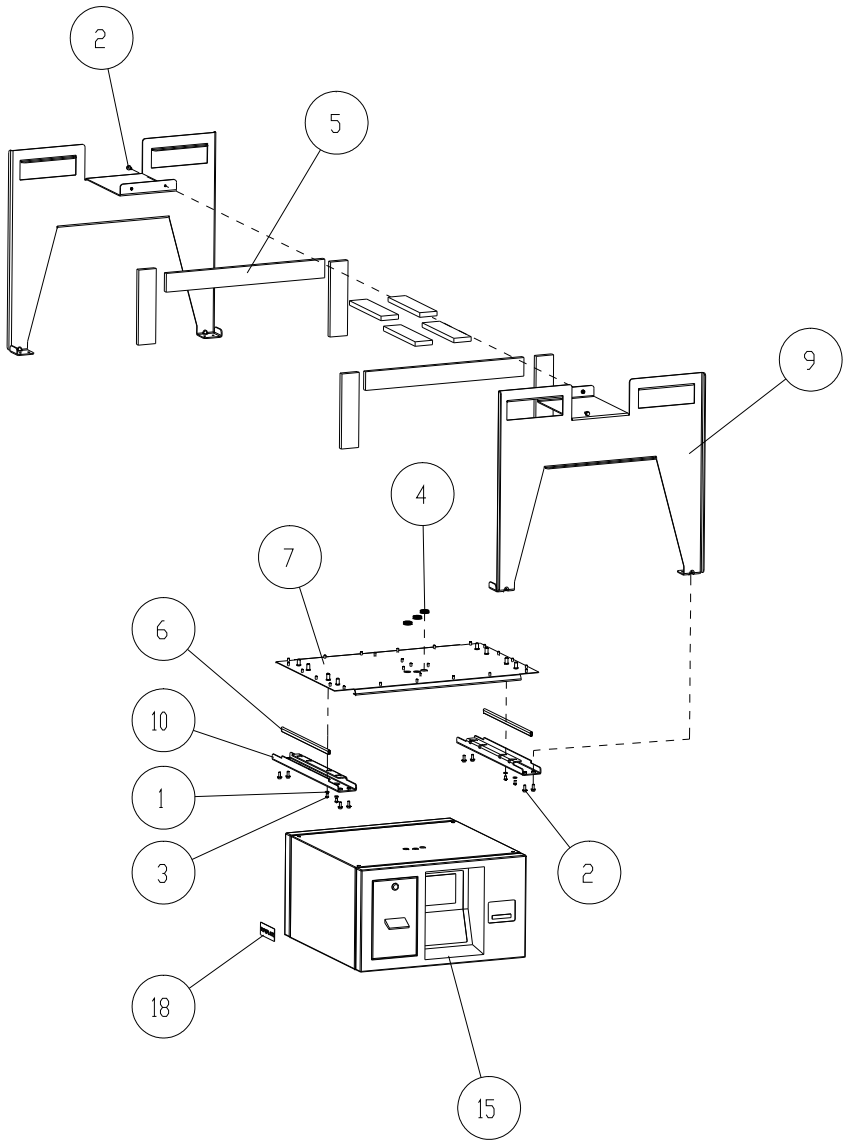


EMT ONLY
TQC VGA OPTION

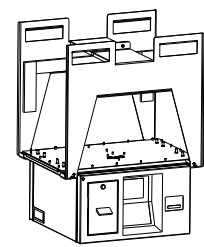


Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou autobloquant Flange M4 x	900013-001	
2	Screw HFHSL M6x10	Vis Bride Hex Autobloq M6x10	900016-003	
3	Screw HBC M6 X 16	Vis M6 X 16	900795-002	
4	Screw Sealing M4x8 5-8 Stzn	M4x8 vis Scellant	901551-001	
5	Snap Cap	Chapeau Vis	903192	
6	Push Button Zb5 Black	Push Button Zb5 Black	908603-001	
7	Switch Body ZB5	Corps Contact ZB5	908604	
8	Base plate PB box	Embase boîte de bouton de pous	909576	
9	Assy Enclosure Push Button	Asm Clôture bouton de poussée	909577	
10	Seal - IQ long	Joint de IQ long	940399	
11	Seal - IQ Short	Joint de IQ Court	940401	
12	Q410 VGA Button Box Body Assy	Q410 VGA Button Box Body Assy	946982	
13	Q410 VGA EMT Mount Bkt	Q410 VGA EMT Mount Bkt	946985	
14	Q410 VGA EMT Glass	Q410 VGA EMT Glass	946988	
15	Q410 VGA EMT Seal	Q410 VGA EMT Seal	946991	
16	Q410 VGA Rear EMT Bkt	Q410 VGA Rear EMT Bkt	947240	
17	Q410 EMT Seal Brkt Asm	Q410 EMT Seal Brkt Asm	951378	
18	Q410 EMT Security Brkt	Q410 EMT Security Brkt	951383	
19	Q410 VGA EMT Box Assy	Q410 VGA EMT Box Assy	951516	

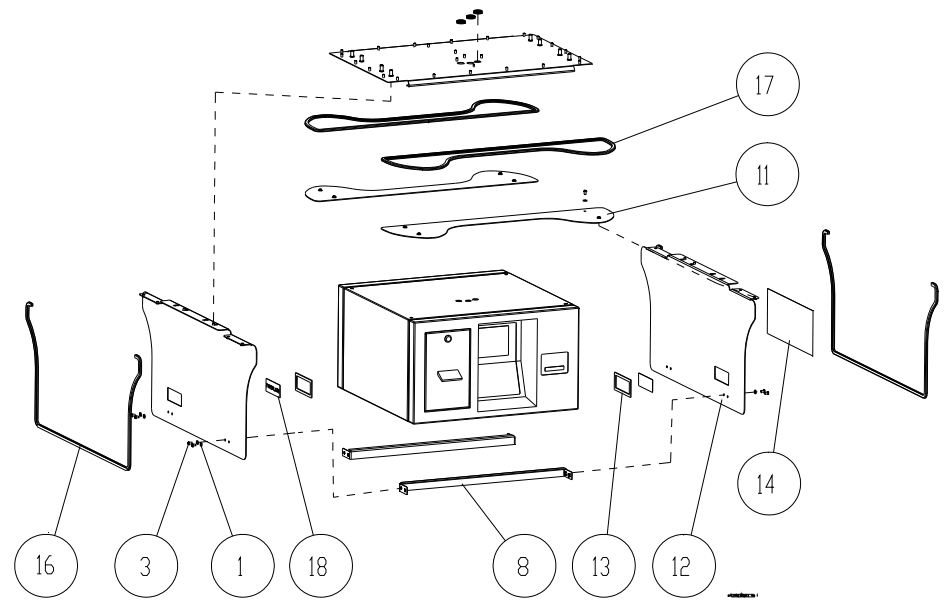
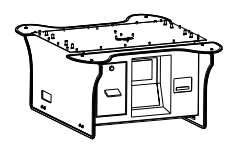
5.10 Crind Assembly



CRIND WITH LIFTER

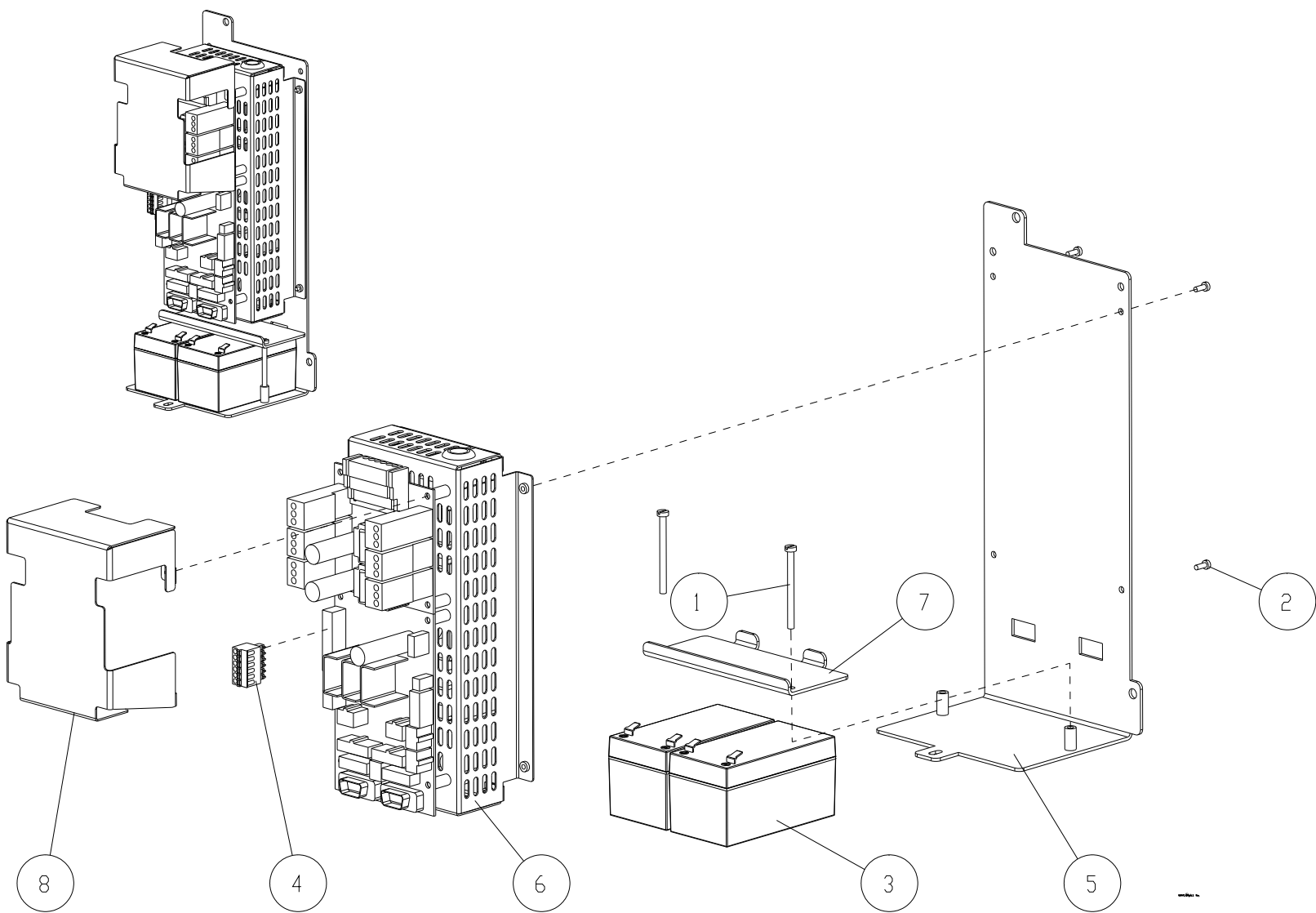


CRIND WITHOUT LIFTER



Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M6	Rondelle PI M6	900008-002	
2	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
3	Screw HSB M6x10	Vis M6x10	900795-005	
4	Grommet Membrane ID 16	Passe fil à Membrane DG16	903754-002	
5	AdB Insulation Noz Pan Long	Insulation Habil R.B. Long	909031	
6	Protection Trim	Protection De Joint-haut	946740	
7	Q410 Crind Calc Base Assy	Q410 Crind Asm Basse Calc	947301	
8	Q410 Crind Shield Bkt Assy	Q410 Crind Shield Bkt Assy	947305	
9	Q410 Crind Lifter Bkt Assy	Q410 Crind Lifter Bkt Assy	947307	
10	Crind Lifter Base Bkt Assy	Crind Lifter Base Bkt Assy	947419	
11	Crind Zoning Shield Top	Crind Zoning Shield Top	947423	
12	Crind Zoning Shield Cutout Assy	Crind Zoning Shield Cutout Assy	948464	
13	Crind Zoning Shield Seal	Crind Zoning Shield Seal	948466	
14	Crind Reflective Sticker	Crind Reflective Sticker	948510	
15	Crind Assembly	Crind Assembly	-	
16	Q410 Crind Zoning Shield Side Profile	Q410 Crind Zoning Shield Side Profile	-	
17	Q410 Crind Zoning Shield Top Profile	Q410 Crind Zoning Shield Top Profile	-	
18	Crind Typeplate	Crind Typeplate	-	

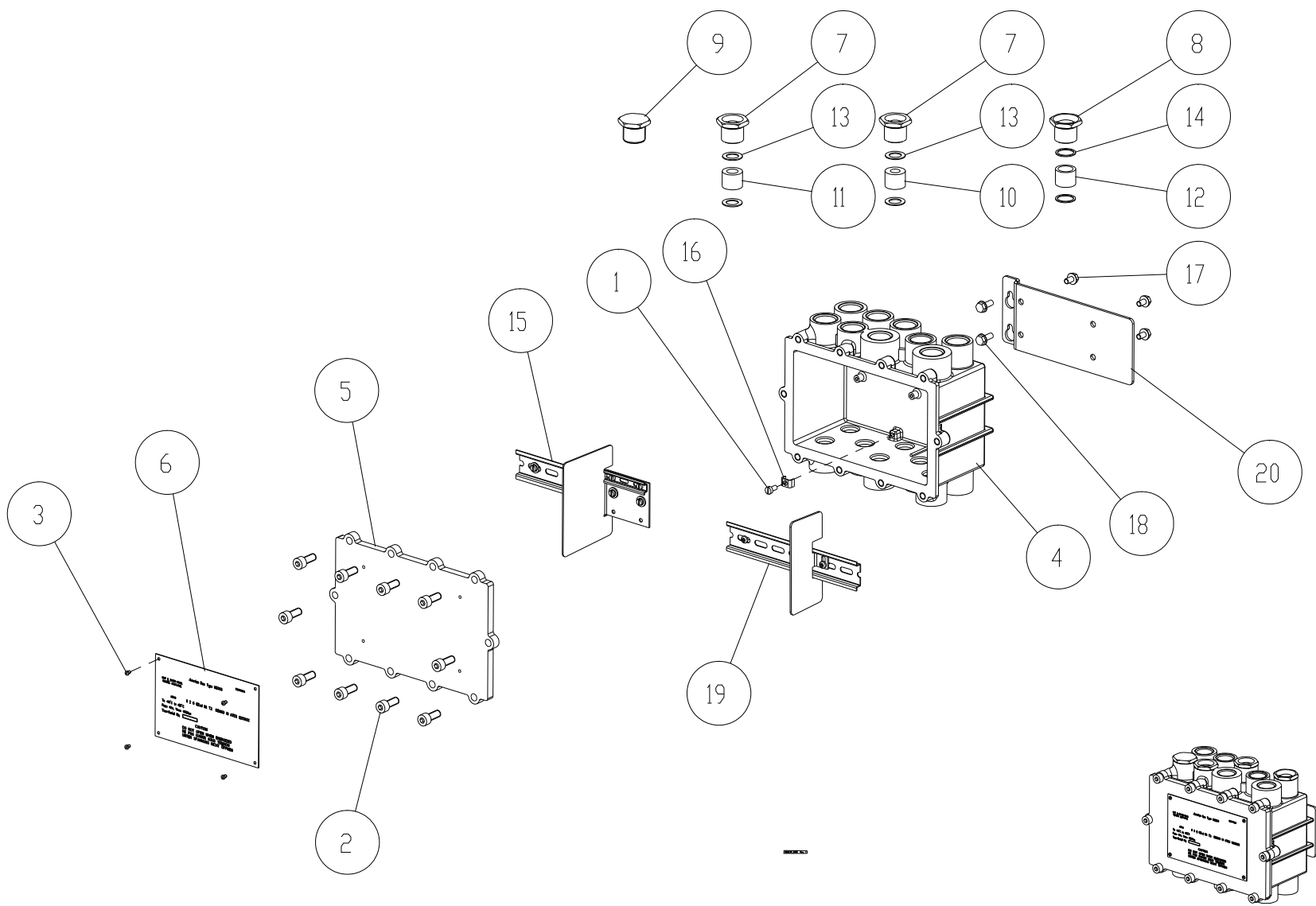
5.11 Power Supply Unit For DIT Assembly



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 Assemblée	902077	
7	DIT PSU Battery Bracket	DIT PSU Batterie Encadrer	902079	
8	Cover DIT Power Supply	Couverture DIT PS	909532	

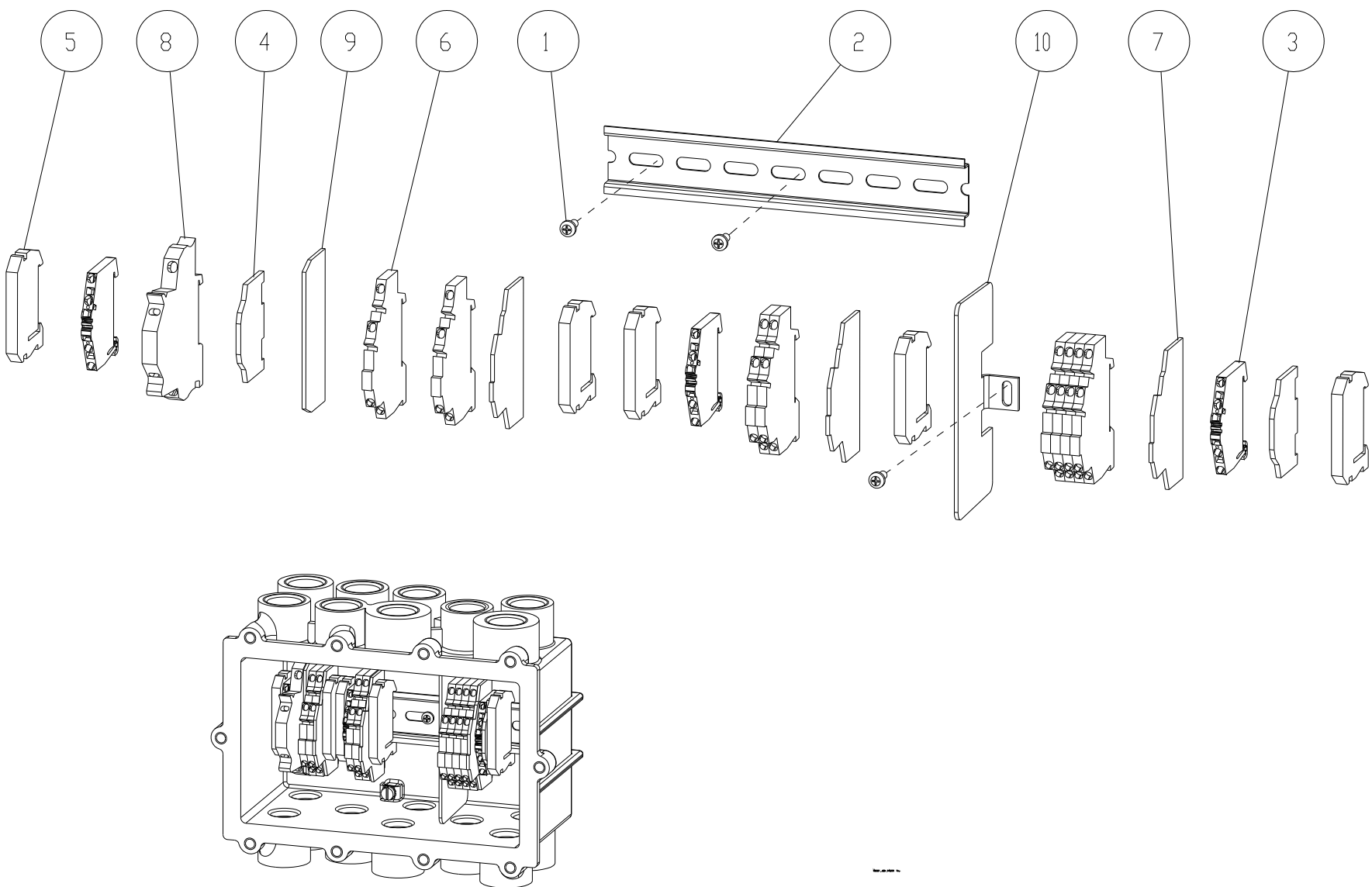


5.12 Main Junction Box Assembly



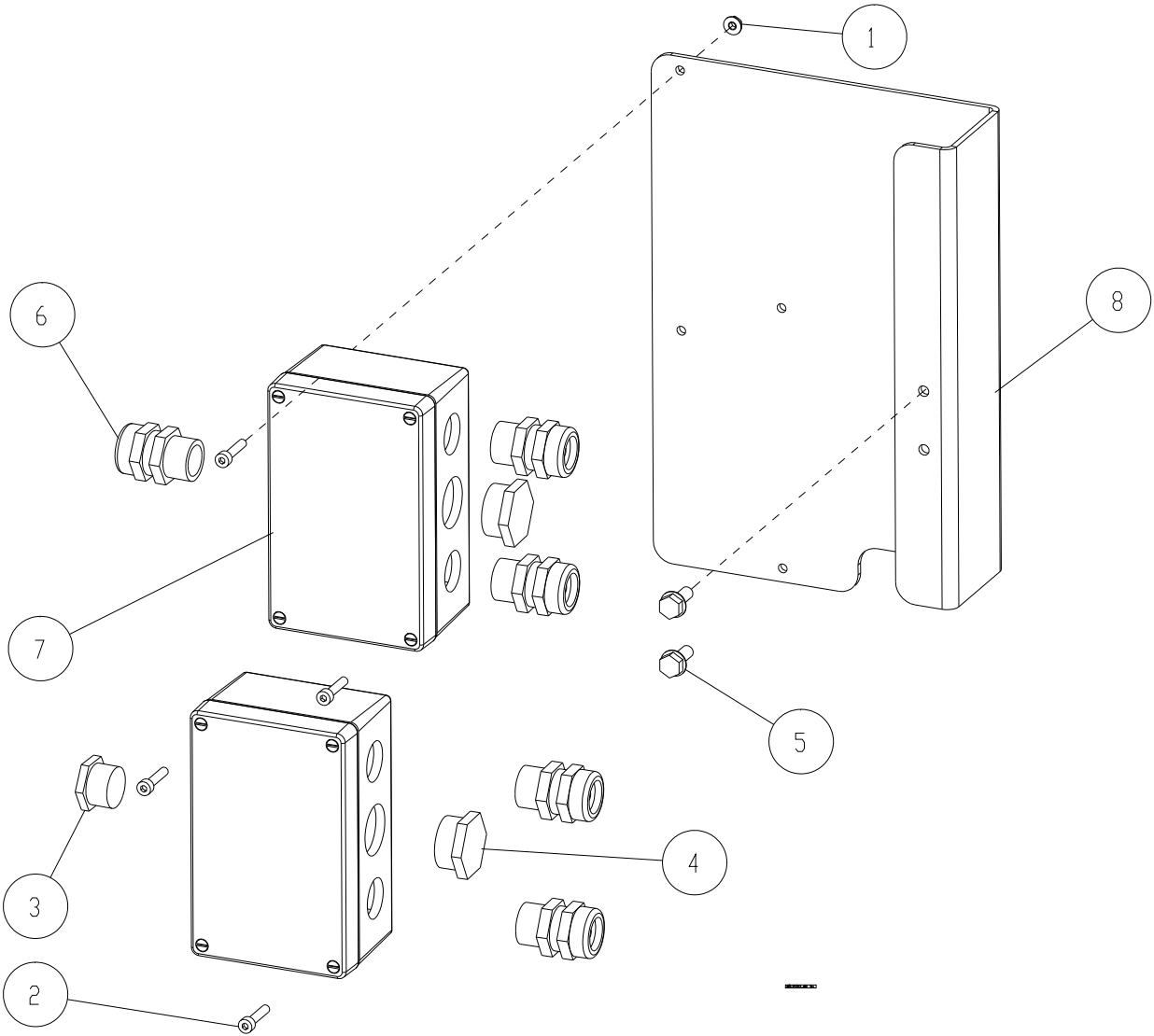
Item No	Description	Désignation Français	Part No	Comments
1	Screw SCH M5x10	Vis CS M5x10	900007-004	
2	Screw HSHC M8x20	Vis CHC M8x20	900017-002	
3	Rivet Rokut	Rivet Expansion	900022-002	
4	Junction Box-M2000-series	Boîtier de Connection-M2000	900104	
5	Cover Junction Box M2000	Couvercle Boîtier Connection	900105	
6	Typelate junction box M2000	Plaque no Serie Boîtier	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	

5.12.1 MAINS 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 3 x 0,13 - 2,50 mm Beige	Borne 3 x 0.13 - 2.50mm Beige	909416-001	
4	Clamp 4 x 0,13 - 2,50 mm Gn/Ye	Borne 4x0.13-2.50mm Vert/Jaune	909416-002	
5	End Plate Orange	Plaque Separation Orange	909416-003	
6	End Bracket Beige	Extremite Stop Beige	909416-006	
7	Clamp 2x2x 0.13-2.50mm Beige	Borne 2x2x 0.13-2.50mm Beige	909416-013	
8	End Plate Orange for Clamp	Plaque Separa Orange Pour	909416-014	
9	Clamp Fuse 5x20 2,50mm Beige	Borne Fusible 5x20 2.50mm Beige	909416-015	
10	End Plate Beige for Clamp	Plaque Separation Beige Pour	909416-016	
11	Divider Plate Junction Box	Divider Plate Junction Box	940340	

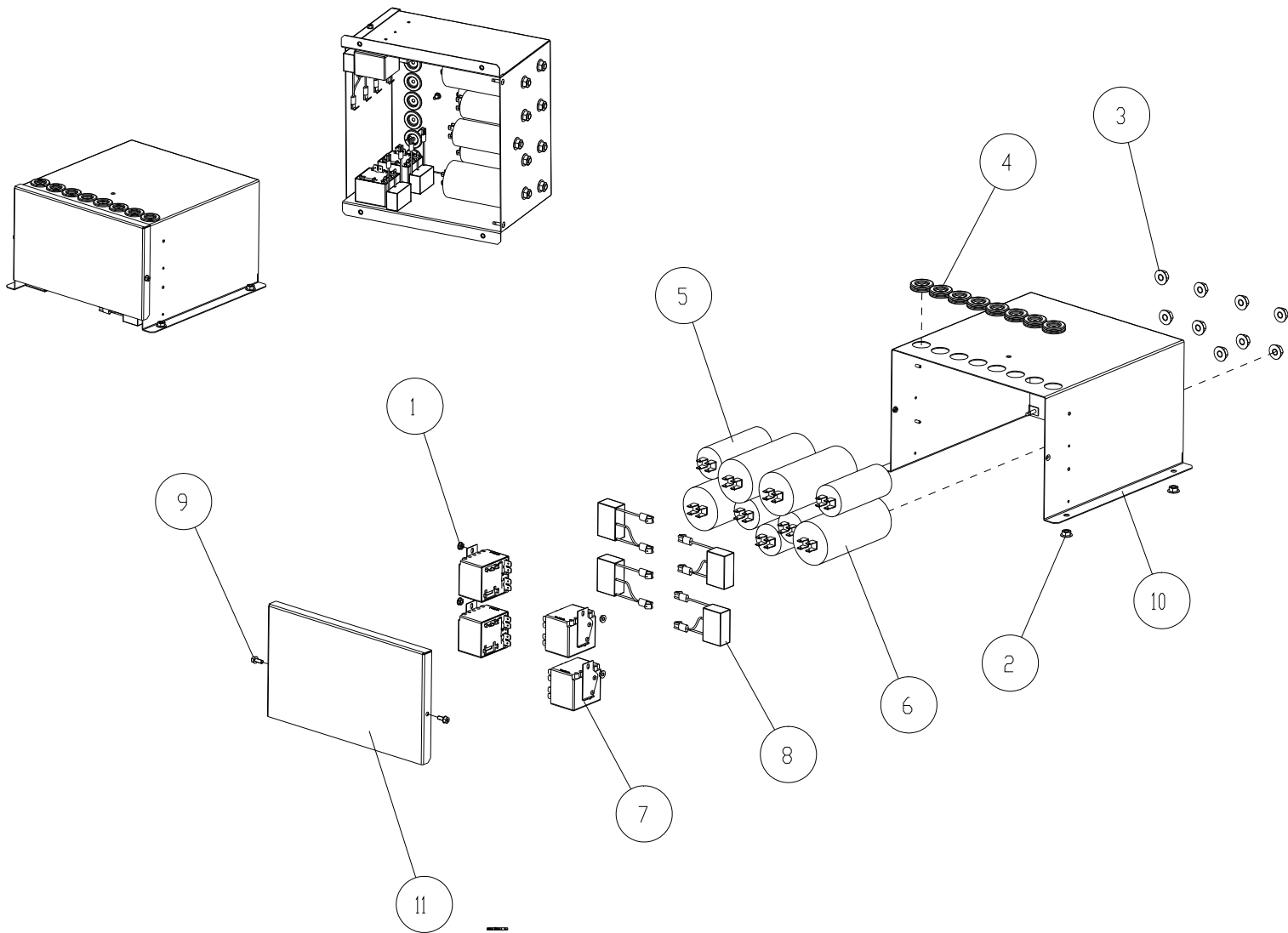
5.13 Speaker Option



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	



5.14 Capacitor Box



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex Self Lock M4	Ecrou Bride Autobloquant M4	900013-001	
2	Nut Hex Self Lock M6	Ecrou Bride Autobloquant M6	900013-003	
3	Nut Hex Self Lock M8	Ecrou Bride Autobloquant M8	900013-004	
4	Grommet Membrane ID 16 Grommet Membrane ID 16	Passe Fil à Membrane DG16 Passe Fil à Membrane DG16	903754-002 902331-004	Perforated
5	Capacitor 25uF(Rael) - Run Capacitor 20uF(Rael) - Run	Condensateur 25uF(Rael) Condensateur 20uF(Rael)	907315-008 907315-009	50Hz only 60Hz only
6	Capacitor 90uF - Start	Condensateur 90uF	907315-011	
7	Motor Start Potential Relay Motor Start Potential Relay	Relais Potentiel De Démarra Moteur Relais Potentiel De Démarra Moteur	944866-001 944866-002	50Hz only 60Hz only
8	RC Filter for Zettler	RC Filter for Zettler	944911	
9	Screw Hex Head Combi M4x10	Vis Hex Head Combi M4x10	946630	
10	WWC Capacitor Box Assy	WWC Capacitor Box Assy	950558	
11	WWC Capacitor Box Lid	WWC Capacitor Box Lid	950559	

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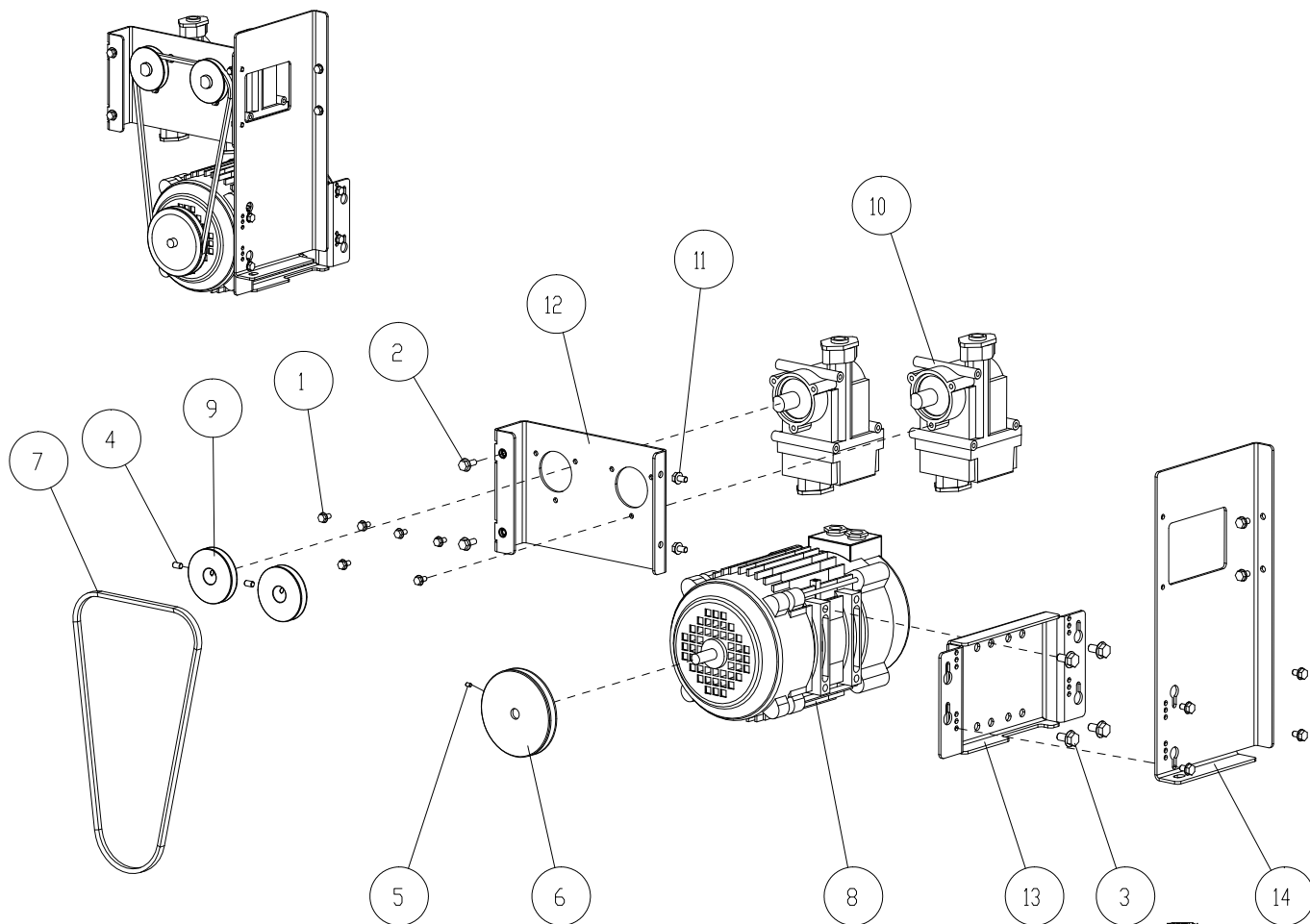
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6 VAPOUR RECOVERY

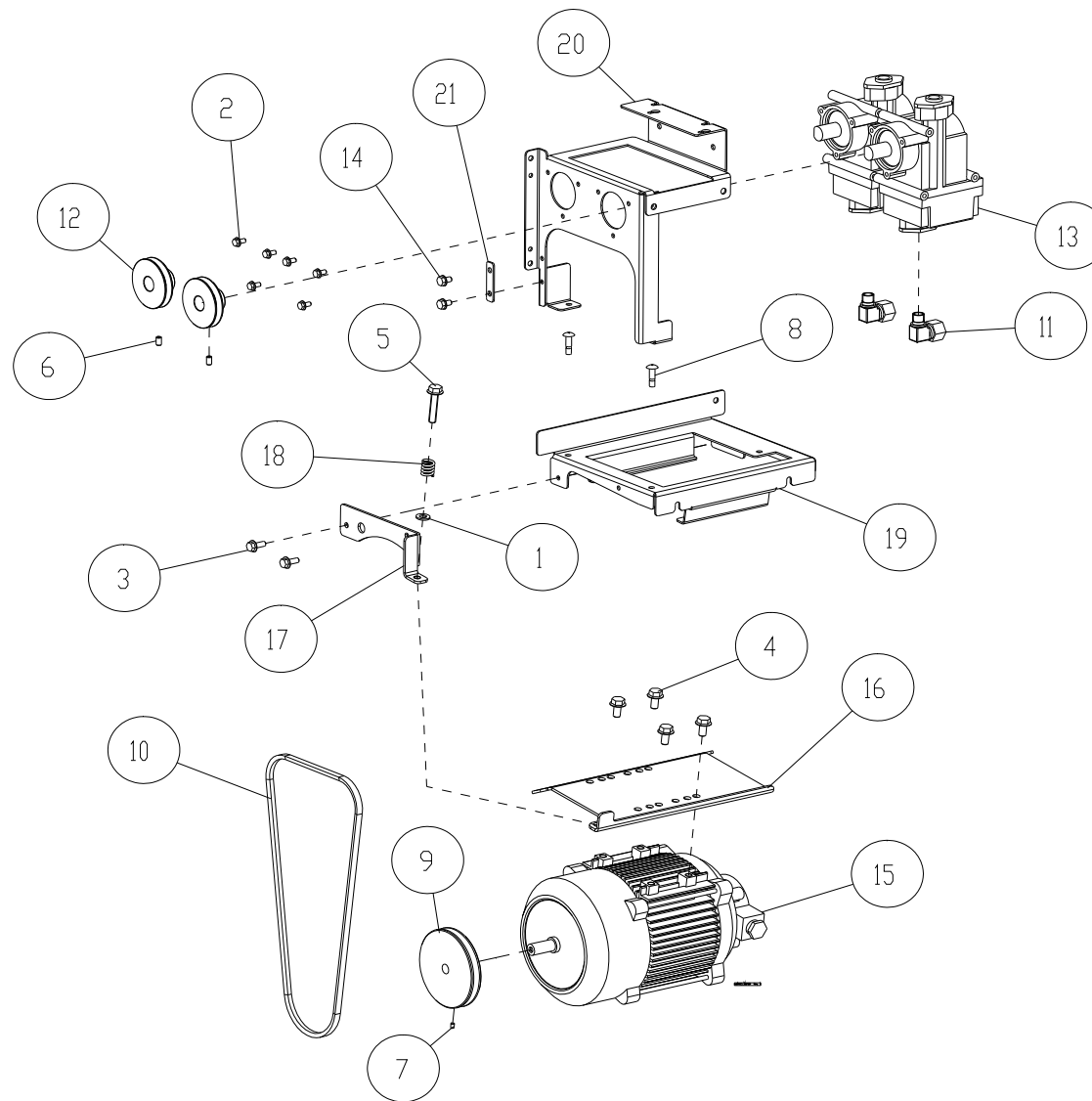
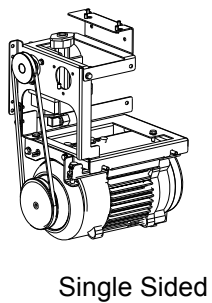
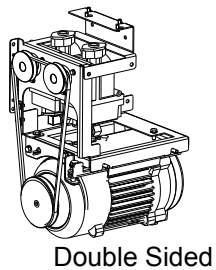
6.1 VR Pump Assembly

6.1.1 VR PUMP ASSEMBLY - MANUFACTURED BEFORE JULY 2013

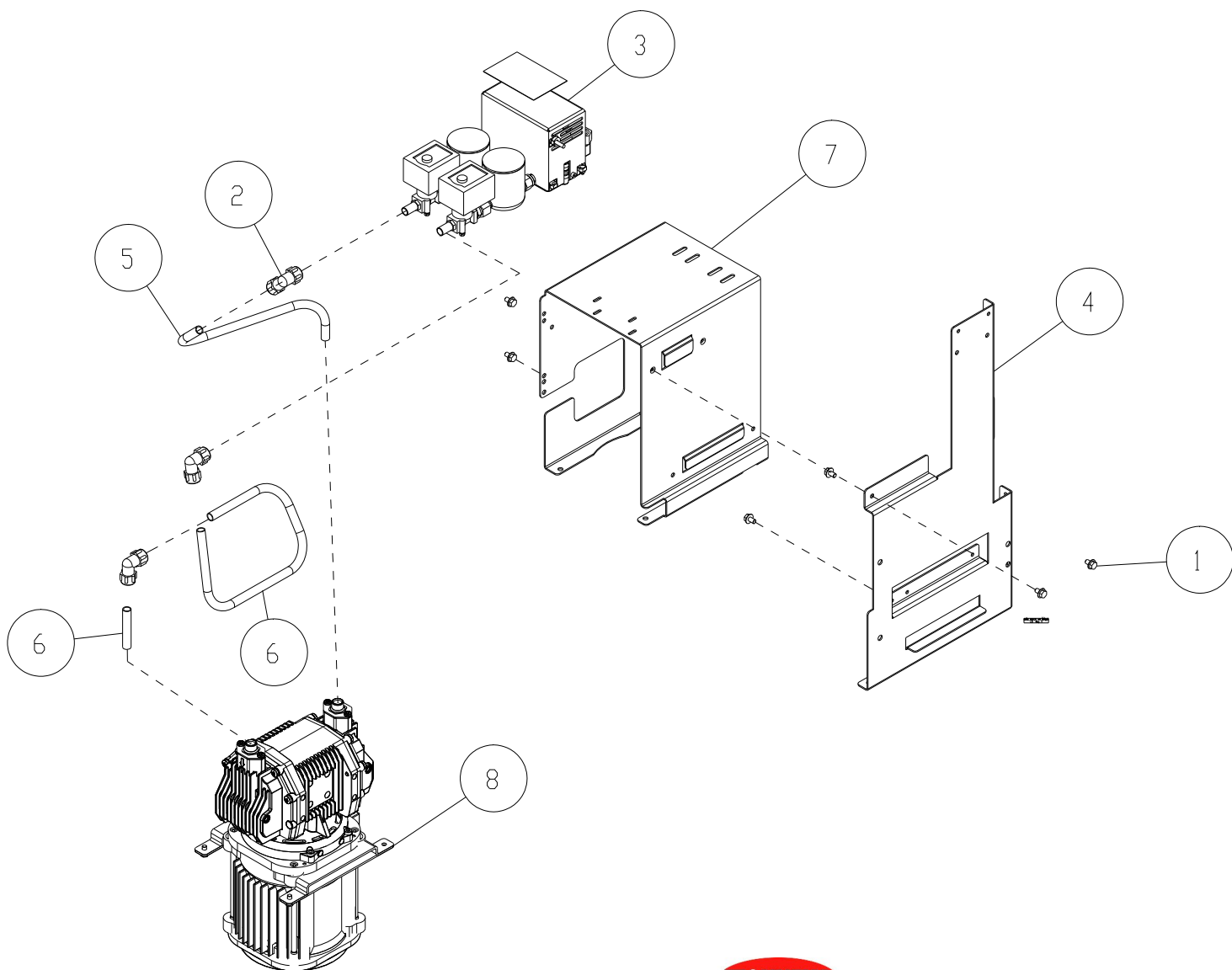
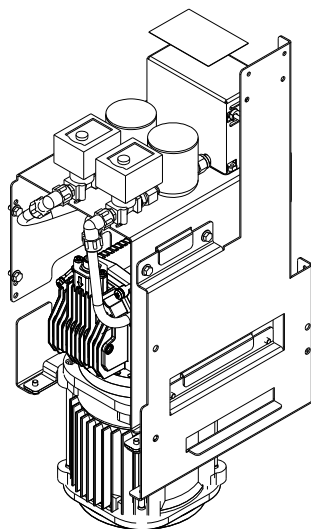


Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M5x10	Vis Hex Br Autobl M5x10	900016-001	
2	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
3	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
4	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
5	Screw HSS Cup Point M4x6	Vis HCCU M4x6	900019-002	
6	Pulley V-Belt VR Pump Pulley VR Motor 60Hz Dia 82	Poulie Gor Courr Trap VR Pompe Poulie Moteur RV 60Hz Dp=82	900027 906428	Single Phase 60Hz only
7	V-Belt - 8 x 5 x 820 Lp V-Belt - 8 x 5 x 710 Lp	Courroie - 8 x 5 x 820 Lp Courroie - 8 x 5 x 710 Lp	900028-001 900028-002	Double-sided Single-sided
8	Motor EXD 0.25kW Star 400V 3cl Motor EXD 0.37kW Star 400V 3cl Motor EXD 0.37kW 230V 50Hz Motor EXD 1ph 60Hz 0.37kW MOTOR EXD 0.25kW DELT 400V 3CL Elnor 0.37KW Motor	Mot. EXD 0.25kW Star 400V 3cl Mot. EXD 0.37kW Star 400V 3cl Moteur EXD 0.37kW 230V 50Hz Moteur EXD 1ph 60Hz 0.37kW MOT EXD 0.25kW DELT 400V 3CL Elnor Moteur De 0.37KW	900060-001 900060-004 900060-008 900060-009 900068-001 903168	3 Phase Motor 3 Phase Motor Single Phase Motor Single Phase Motor 3 Phase Motor Single Phase Motor
9	Pulley VR Pump Dm 61mm	Poulie Pompe GR Dm 61mm	900293	
10	Durr Pump MEX 0831-11/600	Pompe Durr MEX 0831-11/600	900295	
11	Screw HFHTF M6x10	Vis Hex. Taraudeuse M6x10	900708-001	
12	Assy Bracket Durr Pump	Asm Support Pompe Durr	908894	
13	Motor Bracket ECVR	Support De Moteur ECVR	940435	
14	Support Bracket ECVR	Chassis Support ECVR	942659	

6.1.2 VR PUMP ASSEMBLY - MANUFACTURED AFTER JUNE 2013



Item No	Description	Désignation Français	Part No	Comments
1	Washer PI M8	Rondelle PI M8	900008-005	
2	Screw HFHSL M5x10	Vis Hex Br Autobl M5x10	900016-001	
3	Screw HFHSL M6x16	Vis Hex Br Autobl M6x16	900016-004	
4	Screw HFHSL M8x16	Vis Hex Br Autobl M8x16	900016-006	
5	Screw HFHSL M8x40	Vis Hex Br Autobl M8x40	900016-019	
6	Screw HSS Cup Point M6x10	Vis HCCU M6x10	900019-001	
7	Screw HSS Cup Point M4x6	Vis HCCU M4x6	900019-002	
8	Rivet Blind Domed 6.5x24.8	Rivet Pop Bomb 6.5x24.8	900025-002	
9	Pulley V-Belt VR Pump Pulley VR Motor 60Hz DM 82mm	Poulie gor courr trap VR Pompe Poulie RV Moteur 60Hz DM 82mm	900027 906428	Single Phase, 60Hz
10	V-Belt - 8 x 5 x 889 Lp V-Belt - 8 x 5 x 800 Lp	Courroie - 8 x 5 x 889 Lp Courroie - 8 x 5 x 800 Lp	900028-019 900028-018	Double Sided Single Sided
11	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	900031-001	
12	Pulley VR pump Dm 61mm	Poulie pompe GR Dm61mm	900293	
13	Durr pump MEX 0831-11/600	Pompe Durr MEX 0831-11/600	900295	
14	Motor EXD 1ph 50Hz 0.37kw Motor EXD 1ph 60 Hz 0.37Kw180° Motor 0.25kW 3PH Star 400V 180 Motor Dam 0.37kW 3ph 400V 180° Motor 0.37kW 3PH Star 400V 180 Motor 0.25kW 3PH Delt 230V 180 Motor 0.37kW 3PH Delt 230V 180	Moteur EXD 1ph 50Hz 0.37kw Moteur EXD 1ph 60 Hz 0.37kw180 Moteur 0.25kW 3PH Str 400V 180 Mot. Dam. 0.37kW 3ph 400V 180° Moteur 0.37kW 3PH Str 400V 180 Moteur 0.25kW 3PH Del 230V 180 Moteur 0.37kW 3PH Del 230V 180	900060-021 900060-022 949913-004 908400-005 949913-005 949913-007 949913-009	Single phase 50hz (Open loop & SCS) Single phase 60hz (Open loop & SCS) 3 phase Star Open Loop 3 phase Star SCS 3 phase Star SCS 3 phase Delta Open Loop 3 phase Delta SCS
15	Bracket Motor NEO	Support Moteur, NEO	944304	
16	Motor Retention Bracket	Support Moteur en Rétenion	946348	
17	Compression Spring	Ressort de Compression	946875	
18	Bracket VR upper (Durr Pumps)	Bracket VR upper (Durr Pumps)	948187	
19	Bracket VR Lower (Motor Slide)	Bracket VR Lower (Motor Slide)	948188	
20	Bracket VR Upper (DURR Pumps)	Bracket VR Upper (DURR Pumps)	957607	
21	Strap - VR Bracket	Strap - VR Bracket	957896	

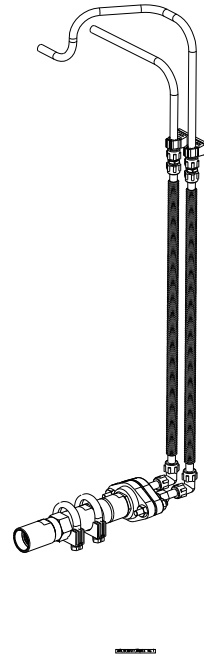
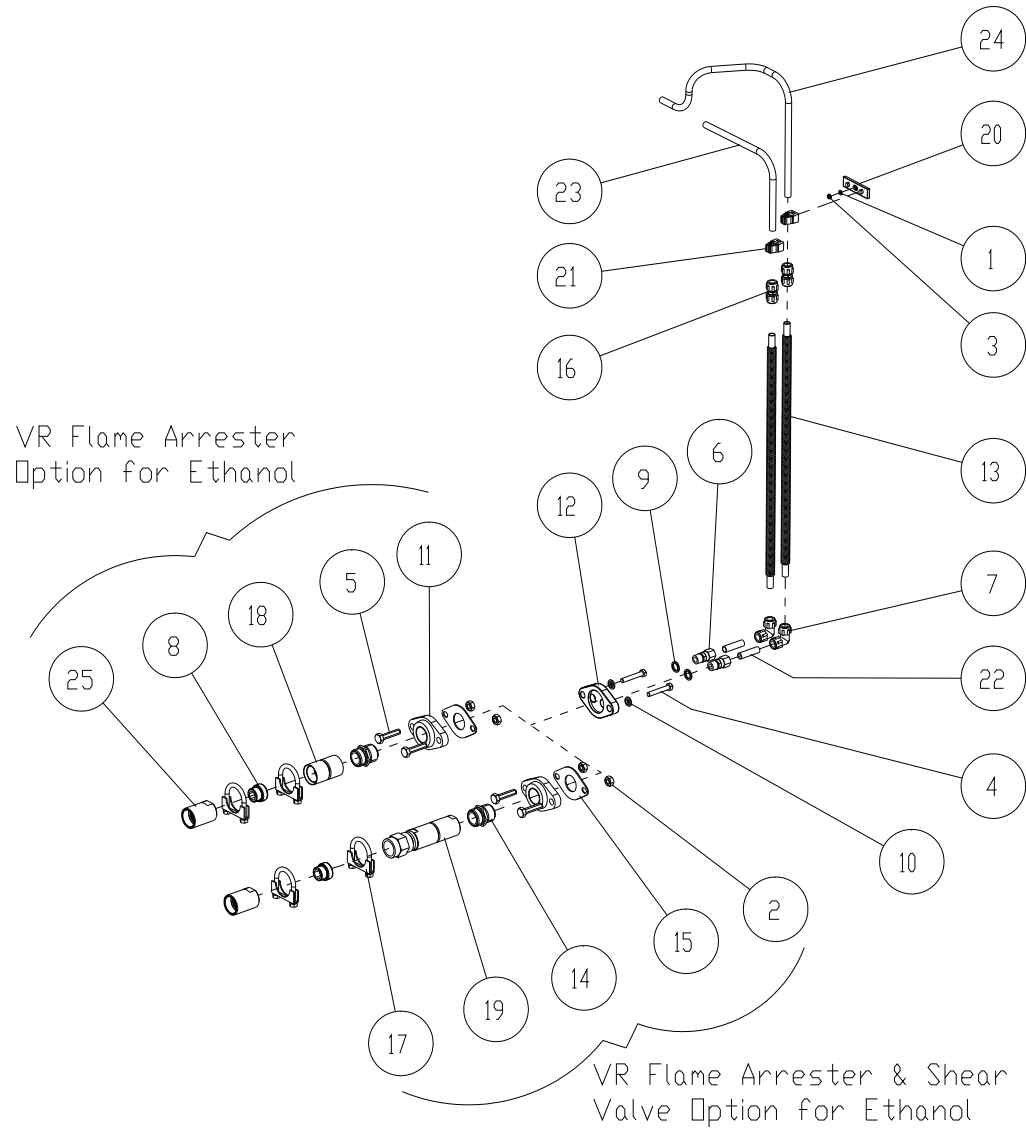


6.2 VR Boxer Pump

Item No	Description	Désignation Français	Part No	Comments
1	Screw HFHSL M6x10	Vis Bride Hex Autobloq M6x10	900016-003	
2	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
3	VFM assy	VFM assemblé	900452	
4	Bracket Support VR Standard	Bracket Support VR Standard	948195	
5	Boxer VR Pipe	Boxer VR Pipe	952913	
6	Boxer VR Pipe	Boxer VR Pipe	952914	
7	Bracket Valve Support Boxer	Bracket Valve Support Boxer	995273	
8	0685_elnor_motor	0685_elnor_motor	-	
	0685100102_rael_1ph	0685100102_rael_1ph	-	



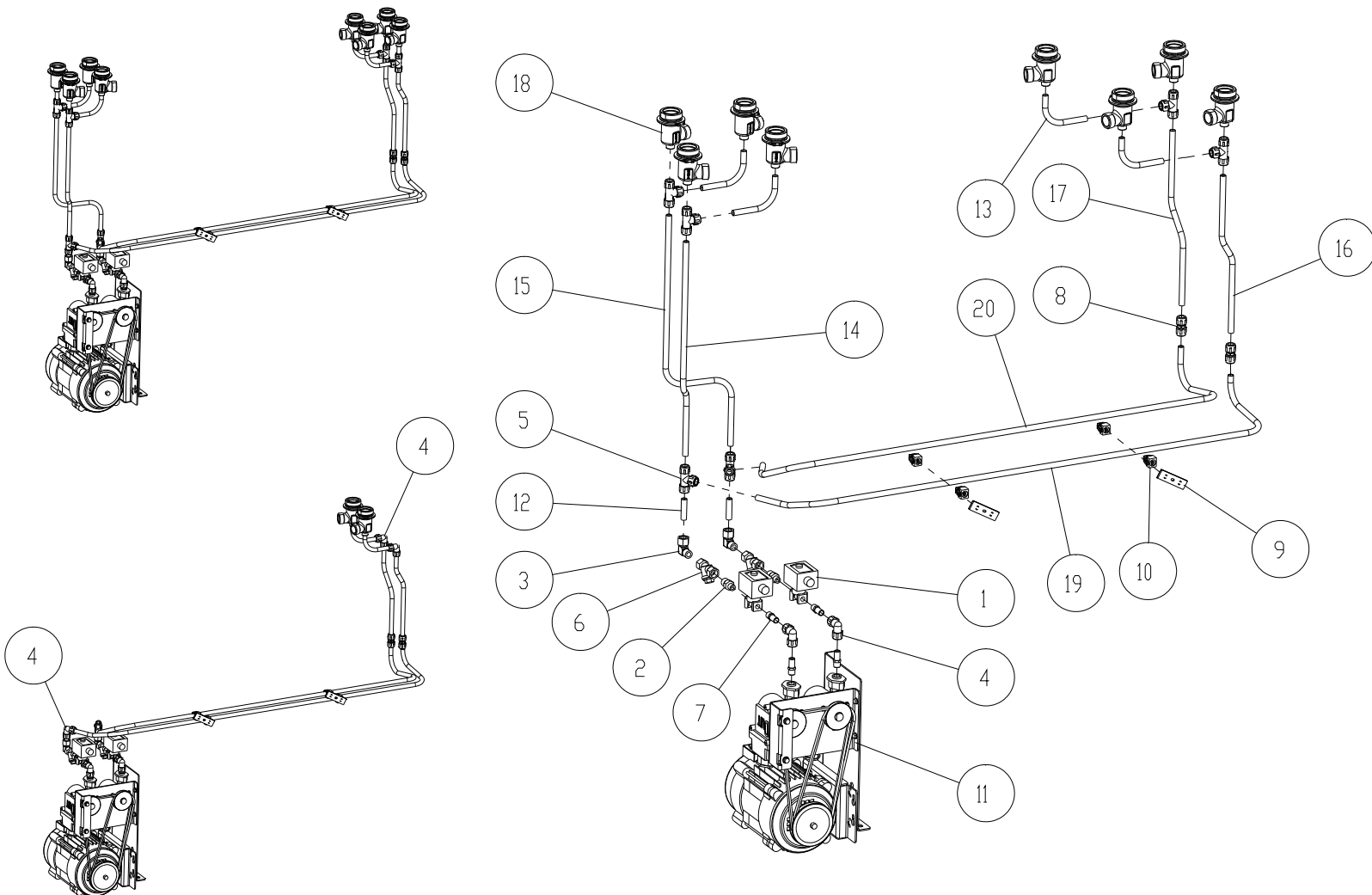
6.3 VR Return Line Assembly



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	909674	
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	

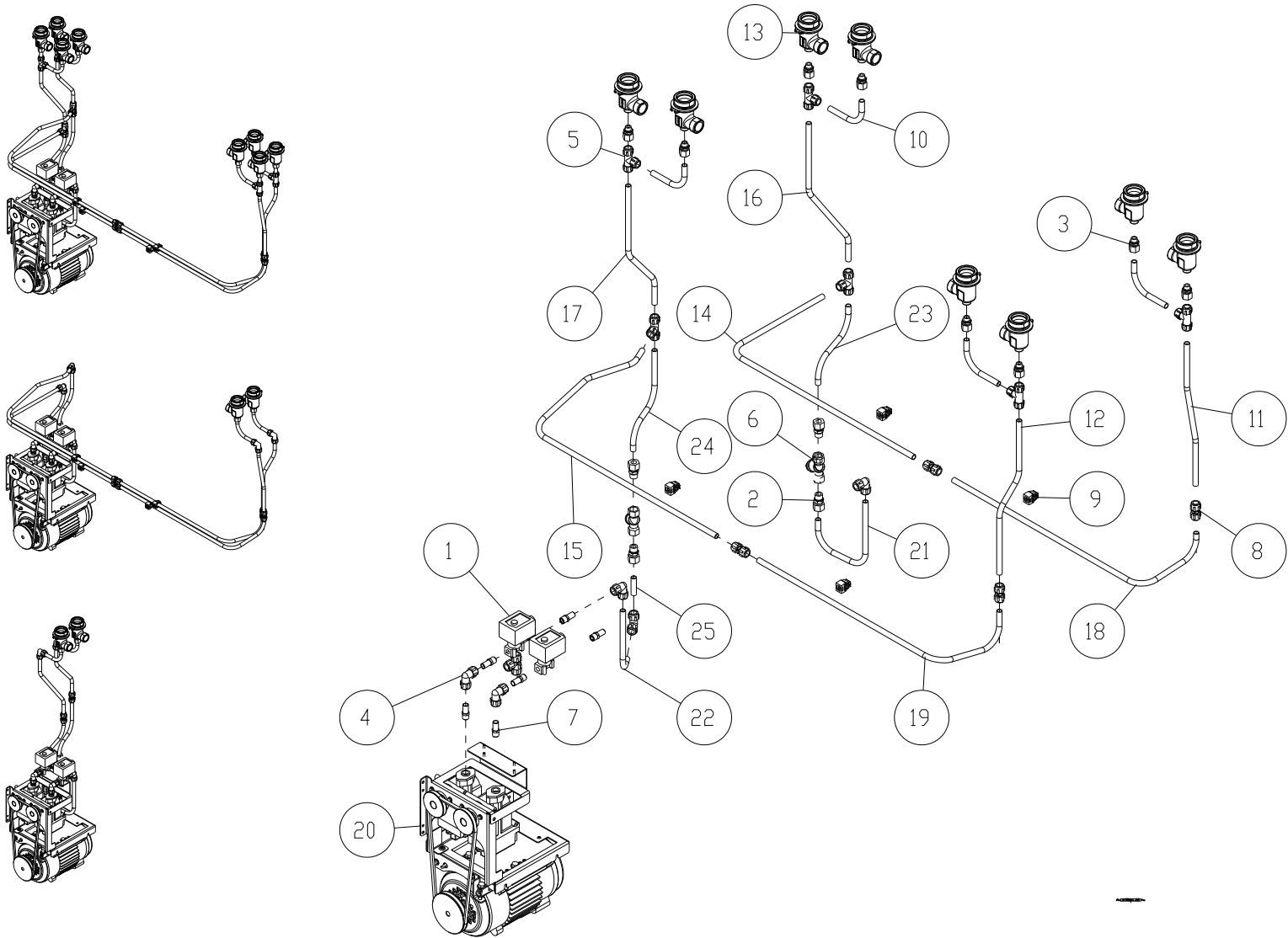
6.4 VR Open Loop Assemblies

6.4.1 VR OPEN LOOP CONFIGURATION (STANDARD) - MANUFACTURED BEFORE JULY 2013



Item No	Description	Désignation Français	Part No	Comments
1	Proport Valve ECVR	Soupape Proport ECVR	900029-001	
2	Nipple 3/8" BSPM 1/4" BSP 12mm	Rac Mam 1/4 - 3/8	900030-001	
3	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	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 Egal 12x12mm	903084-001	
9	Backplate - Pipe Clip	Plaque Arriere - Collier de Pipe	908111	
10	Pipe Clip 12-14mm	Collier de Tube 12-14mm	908114	
11	VR Pump Assembly	VR Pompe Asm	-	Refer to VR Pump Assembly
12	VR Pipe r	VR Tube r	940699	
13	VR Pipe s	Tube VR s	941656	
14	VR Pipe t	Tube VR t	941657	
15	VR Pipe u	Tube VR u	941658	
16	VR Pipe v	Tube VR v	941693	
17	VR Pipe w	Tube VR w	941694	
18	Flange Adapter VR (Cast)	Adapteur Bride VR (Moulé)	943913	
19	Pipe VR Long Side A	Tube RV Longue Cote A	947727	
20	Pipe VR Long Side B	Tube RV Longue Cote B	947729	

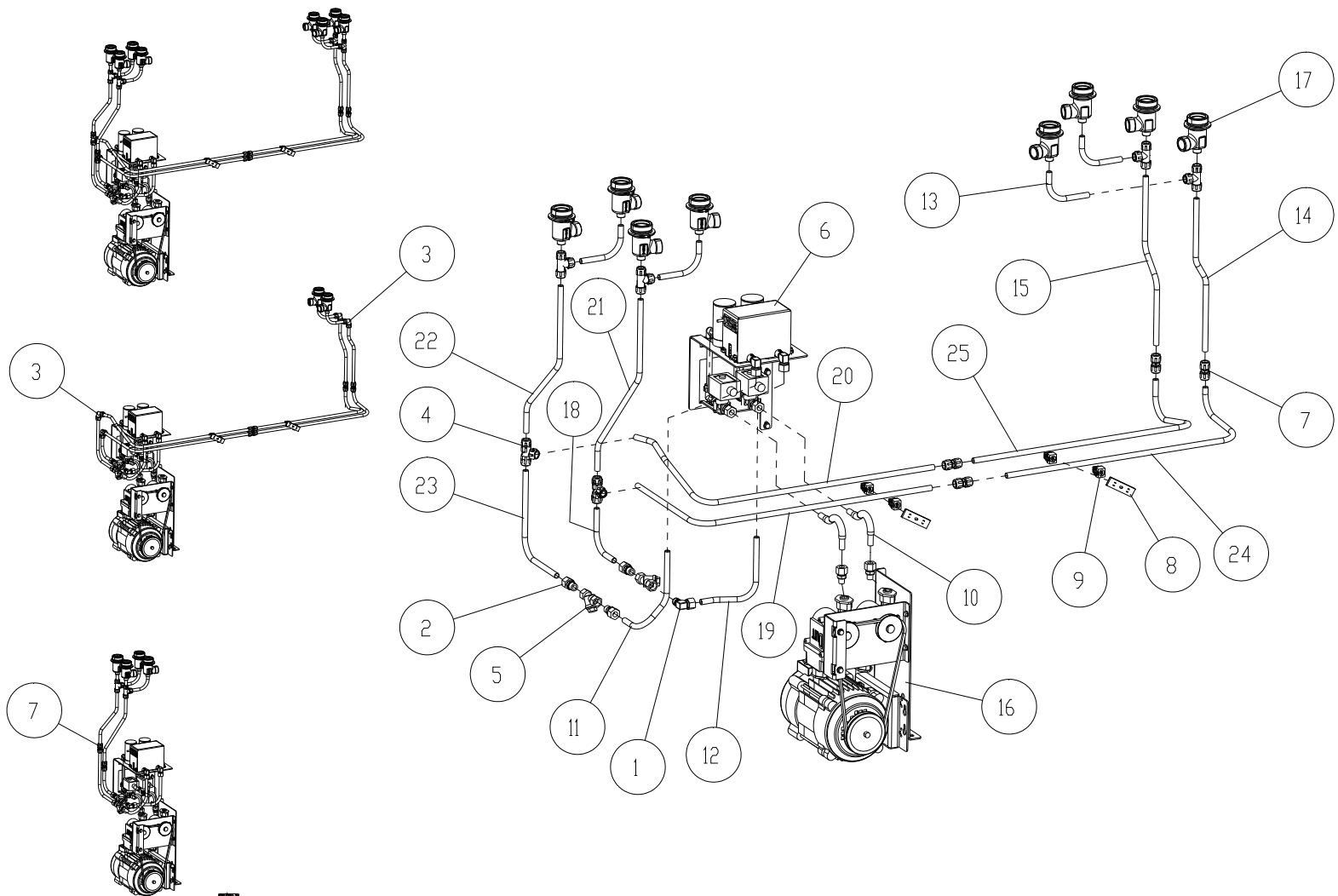
6.4.2 VR OPEN LOOP CONFIGURATION (STANDARD) - MANUFACTURED AFTER JUNE 2013



Item No	Description	Désignation Français	Part No	Comments
1	Proportional valve ECVR	Soupape prop ECVR	900029-001	
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 BSP	900032-005	
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	Clip Pipe 12-14mm	Collier de Tube 12-14mm	908114	
10	VR pipe S	Tube VR S	941656	
11	VR pipe V	Tube VR V	941693	
12	VR pipe W	Tube VR W	941694	
13	Flange Adapter VR (Cast)	Adapteur Bride VR (moulé)	943913	
14	Pipe VFM Side A	Tube VFM Cote A	947780	
15	Pipe VFM Side B	Tube VFM Cote B	947781	
16	Pipe VFM Side A upper	Pipe VFM Side A upper	947907	
17	Pipe VFM Side B upper	Pipe VFM Side B upper	947908	
18	Pipe VFM Side A	Tube VFM Cote A	947945	
19	Pipe VFM Side B	Tube VFM Cote B	947946	
20	VR Pump Assembly	VR Pump Assembly	-	Refer to VR Pump Assemblies
21	Q410 CVR RHS ol	Q410 CVR RHS ol	953322	
22	Q410 CVR LHS ol	Q410 CVR LHS ol	953323	
23	Q410 CVR RHS vfm	Q410 CVR RHS vfm	953324	
24	Q410 CVR LHS vfm	q410 CVR LHS vfm	953325	
25	Q410 CVR straight pipe	Q410 CVR straight pipe	953326	

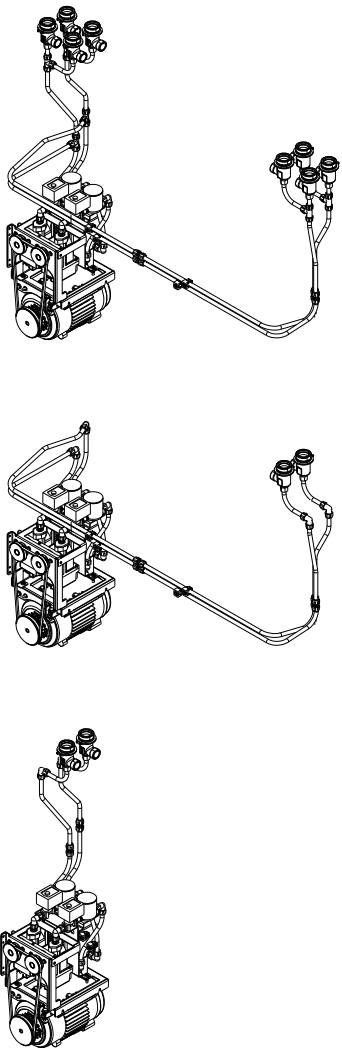
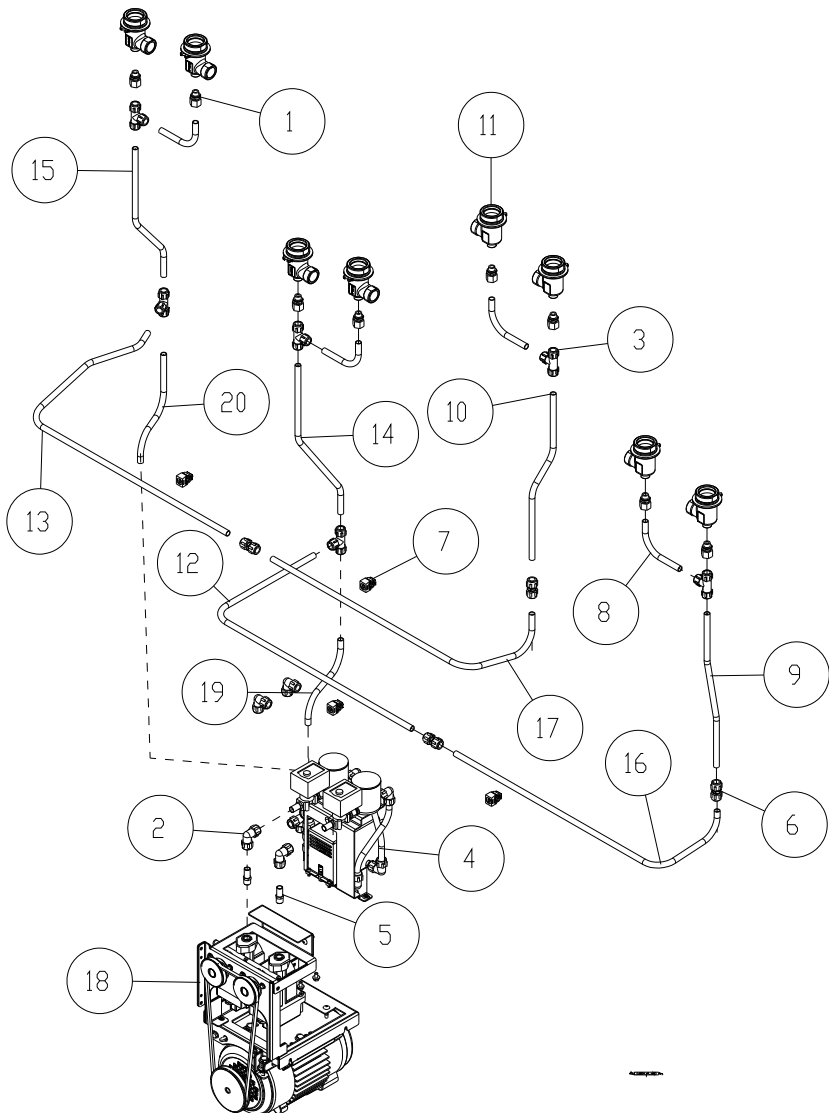
6.5 VR Self Calibrating System (Closed Loop)

6.5.1 VR SELF CALIBRATING SYSTEM (CLOSED LOOP) - MANUFACTURED BEFORE JULY 2013



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	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
4	T Compr 12x12x12	Rac Te Egal D12	900035-001	
5	VR Filter	VR Filtre	900037	
6	ECVR VFM Assembly	ECVR VFM Asm	-	Refer to ECVR VFM Assembly
7	Coupling Straight 12x12mm	Raccord Double Egal 12x12mm	903084-001	
8	Backplate - Pipe Clip	Plaque Arrière - Collier De Pipe	908111	
9	Clip Pipe 12-14mm	Collier de Tube 12-14mm	908114	
10	Assy SCS Flexi Pipe	ASM SCS Pipe Flexible	908784	
11	VR Pipe k	VR Tube k	940754	
12	VR Pipe l	VR Tube l	940755	
13	VR Pipe s	VR Tube s	941656	
14	VR Pipe v	Tube VR v	941693	
15	VR Pipe w	Tube VR w	941694	
16	VR Pump Assembly	Asm VR Pompe	-	Refer to VR Pump Assembly
17	Flange Adapter VR (Cast)	Adapteur Bride VR (Moulé)	943913	
18	Pipe VFM Connecting Side A	Tube VFM Connexion Cote A	947728	
19	Pipe VFM Side A	Tube VFM Cote A	947780	
20	Pipe VFM Side B	Tube VFM Cote B	947781	
21	Pipe VFM Side A Upper	Tube VFM Cote A Haute	947907	
22	Pipe VFM Side B Upper	Tube VFM Cote B Haute	947908	
23	Pipe VFM Connecting Side B	Tube VFM Connexion Cote B	947911	
24	Pipe VFM Side A	Tube VFM Cote A	947945	
25	Pipe VFM Side B	Tube VFM Cote B	947946	

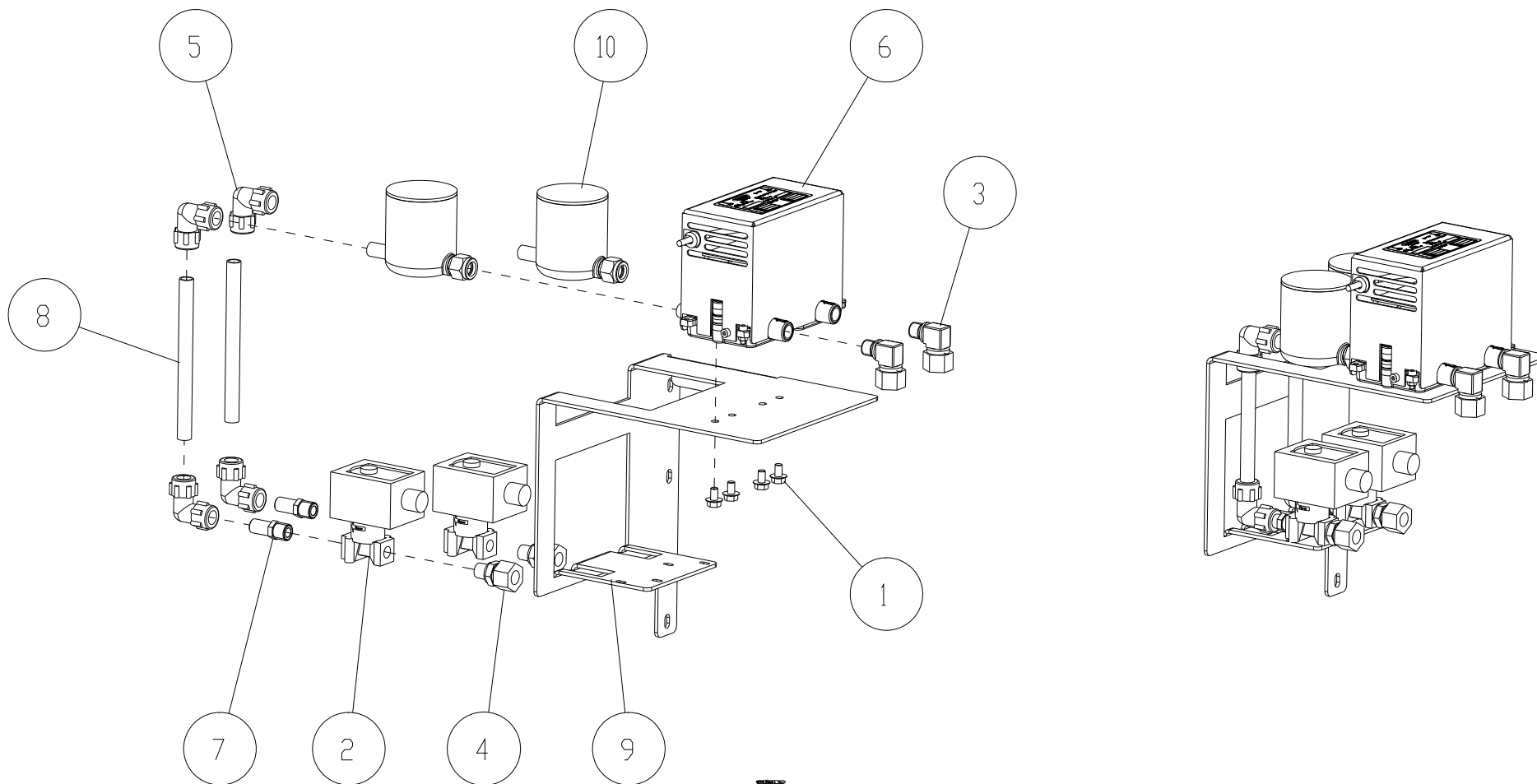
6.5.2 VR SELF CALIBRATING SYSTEM (CLOSED LOOP) - MANUFACTURED AFTER JUNE 2013



Item No	Description	Désignation Français	Part No	Comments
1	Straight compr 1/4" BSP-12mm	Rac Piq Male 12 - 1/4 BSP	900032-005	
2	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
3	T Compr 12x12x12	Rac Te Egal D12	900035-001	
4	VFM-2 assy	VFM - 2 assemblé	-	Refer to VFM Assemblies
5	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
6	Coupling straight 12x12mm	Raccord double égal 12x12mm	903084-001	
7	Clip Pipe 12-14mm	Collier de Tube 12-14mm	908114	
8	VR pipe S	Tube VR S	941656	
9	VR pipe V	Tube VR V	941693	
10	VR pipe W	Tube VR W	941694	
11	Flange Adapter VR (Cast)	Adapteur Bride VR (moulé)	943913	
12	Pipe VFM Side A	Tube VFM Cote A	947780	
13	Pipe VFM Side B	Tube VFM Cote B	947781	
14	Pipe VFM Side A upper	Pipe VFM Side A upper	947907	
15	Pipe VFM Side B upper	Pipe VFM Side B upper	947908	
16	Pipe VFM Side A	Tube VFM Cote A	947945	
17	Pipe VFM Side B	Tube VFM Cote B	947946	
18	VR Pump Assembly	VR Pump Assembly	-	Refer to VR Pump Assemblies
19	Q410 CVR RHS VFM	Q410 CVR RHS VFM	953324	
20	Q410 CVR LHS VFM	q410 CVR LHS VFM	953325	

6.6 VFM Assemblies

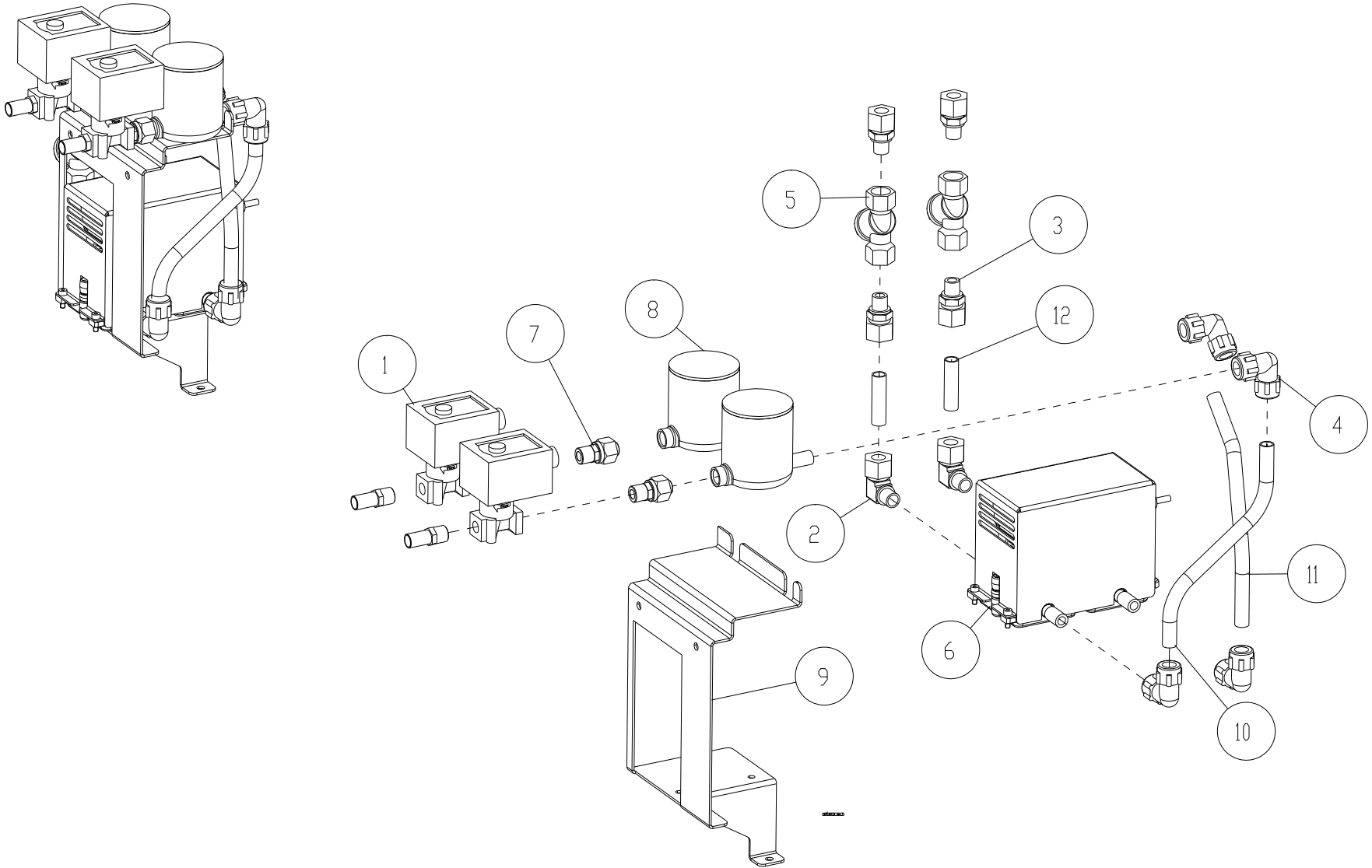
6.6.1 VFM ASSEMBLY - MANUFACTURED BEFORE JULY 2013



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	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
8	VR Pipe VFM	VR Tube VFM	941510	
9	Bracket ECVR SCS	Support ECVR SCS	942046	
10	Vessel Assembly	Asm Recipient	944352	



6.6.2 VFM ASSEMBLY - MANUFACTURED AFTER JUNE 2013

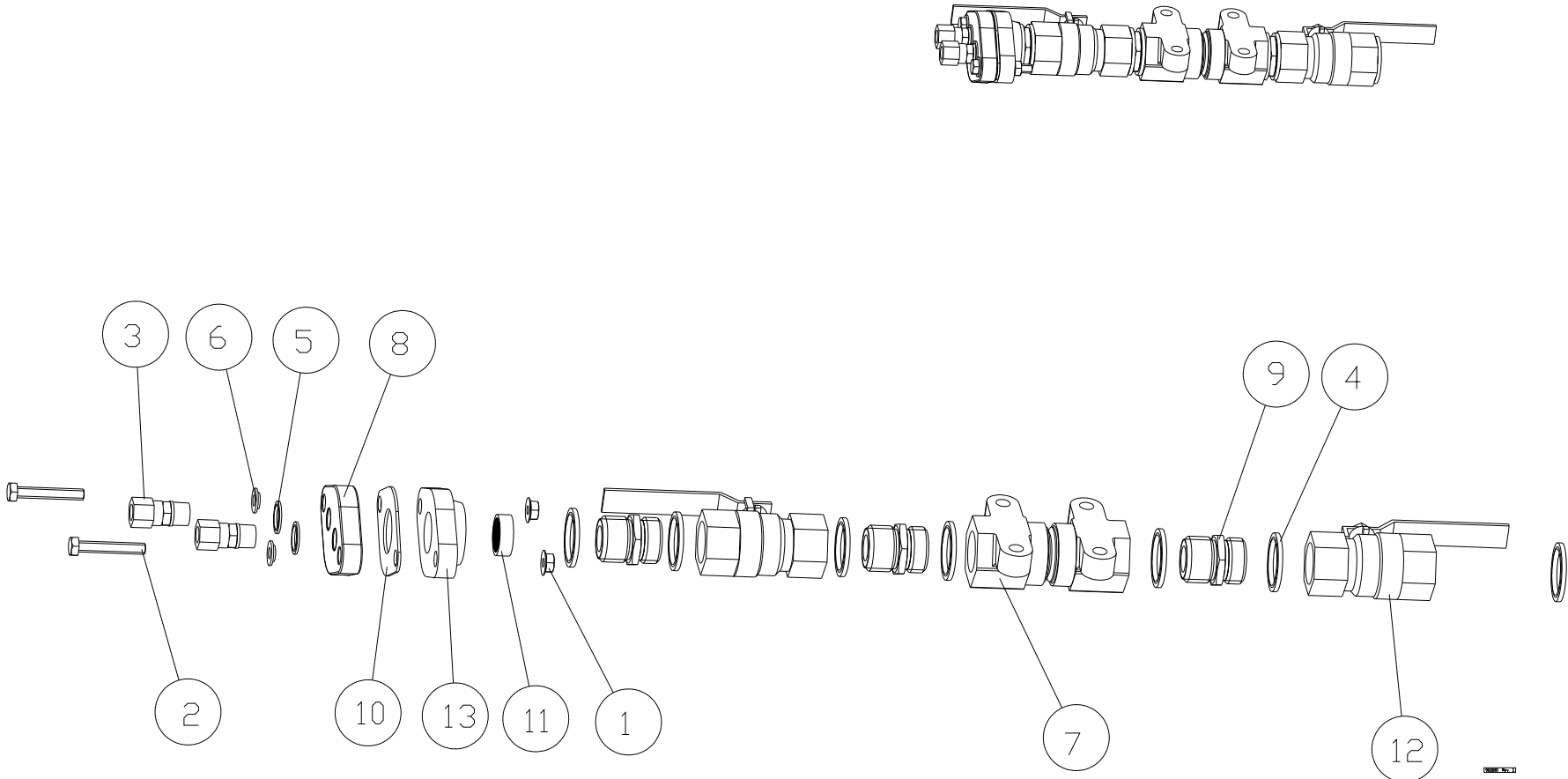


Item No	Description	Désignation Français	Part No	Comments
1	Proportional valve ECVR	Soupape prop ECVR	900029-001	
2	Elbow Compr 1/4" BSPM 12mm	EQ-PIQ-M12-1/4	900031-001	
3	Straight Compr 1/4" BSP 12mm	Rac Piq Male 12 - 1/4	900032-002	
4	Elbow Compr 12 x 12 mm	Rac EQ Egale D12	900033-001	
5	VR Filter	VR Filtre	900037	
6	VFM-2 assy	VFM - 2 assemblé	900452	
7	Adaptor Dia12 Male - 1/4" Male	Adapt Dia12 Male - 1/4" Male	901754-001	
8	Vessel Assembly	Recipient	944352	
9	Bracket VR VFM Support	Bracket VR VFM Support	948189	
10	Pipe VR VFM to Vessel	Pipe VR VFM to Vessel	948190	
11	VR Pipe VFM to Vessel	VR Pipe VFM to Vessel	951014	
12	Q410 CVR Straight Pipe	Q410 CVR Sttraight Pipe	953326	



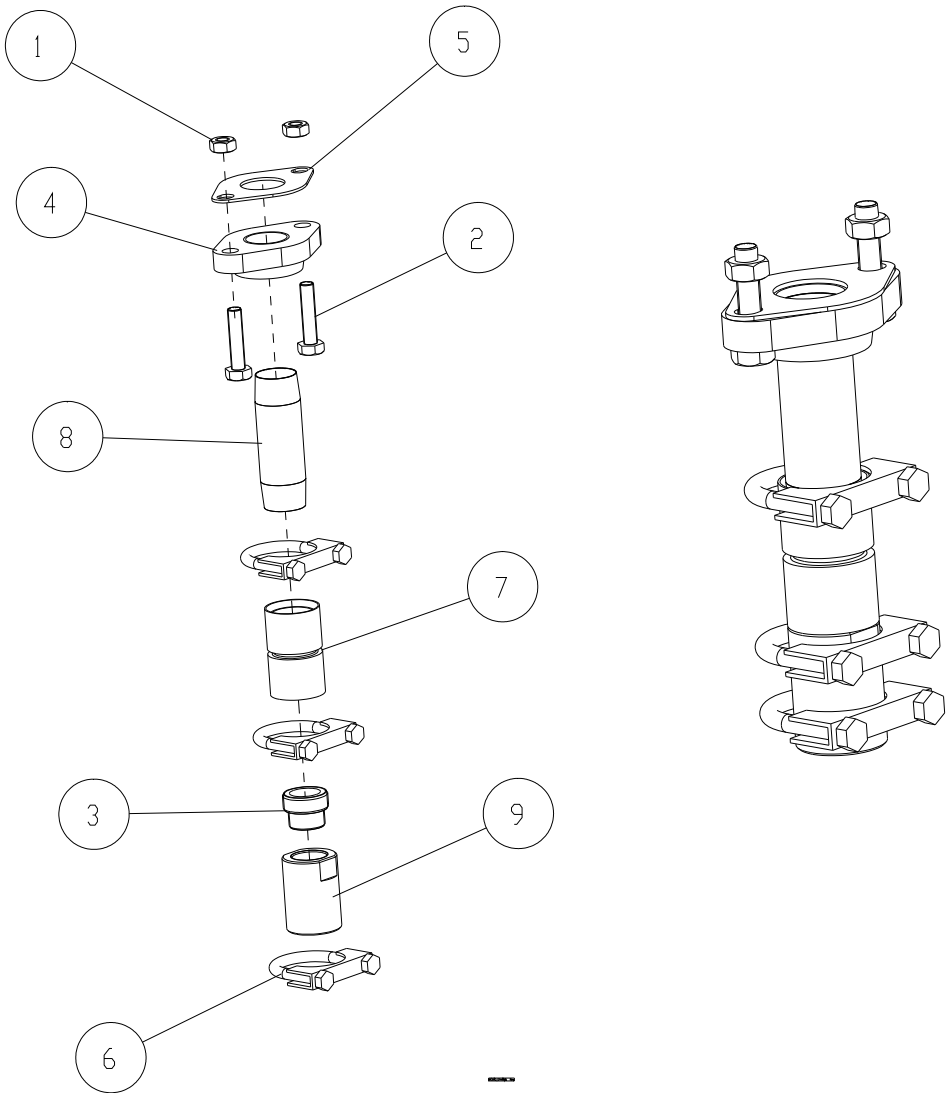
6.7 VR Shear Valve Assemblies

6.7.1 OPW VR SHEAR VALVE



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

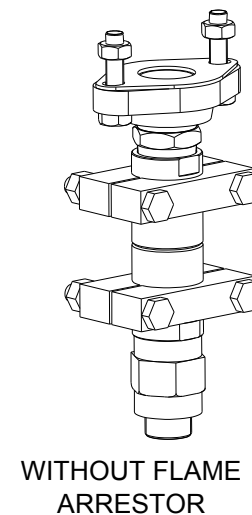
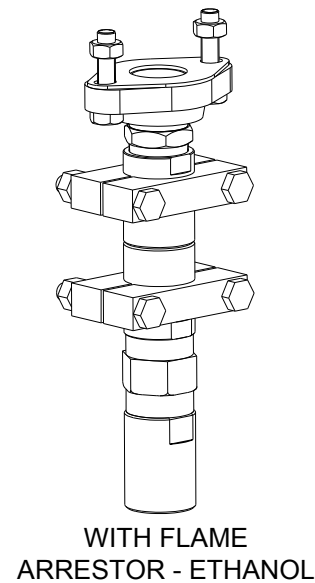
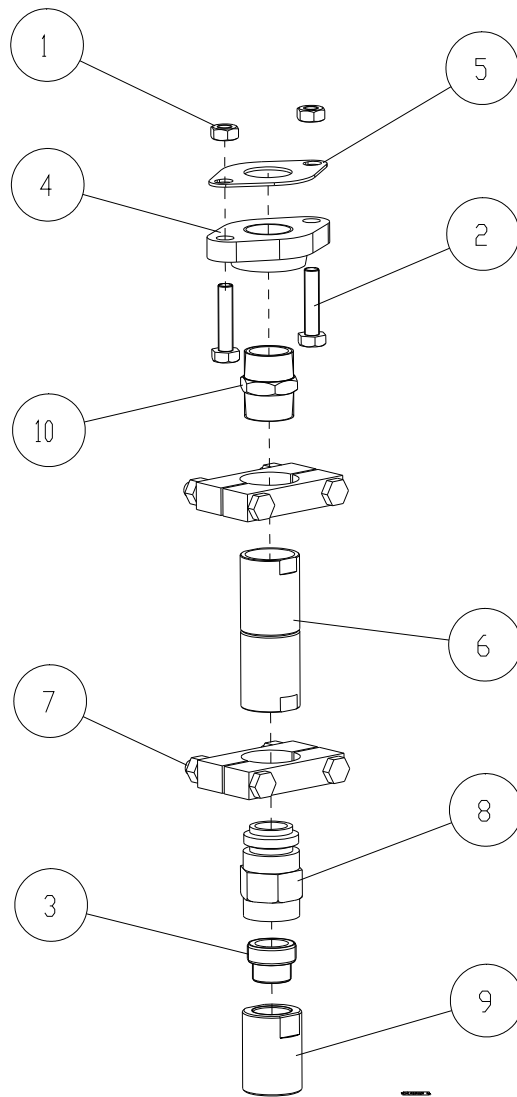
6.7.2 ETHANOL SHEAR VALVE



Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex M10	Ecrou H M10	900011-004	
2	Screw HH M10x45	Vis H M10x45	900015-022	
3	Nipple 22mm G1	Douille 22mm G1	900416	
4	Flange 1" 78mm	Bride 1" 78mm	901320-001	
5	Gasket - Flange 78-82	Joint de Bride 78-82	901859	
6	Clamp 42mm	Clamp 42mm	903184	
7	Body for Shear Valve	Corps de Valve	904587	
8	Pipe Nipple 1" x 1" x 100	Mamelon de Pipe 1" x 1" x 100	904919	
9	Flame Arrester Assy - Ethanol	Flame Arrester Assy - Ethanol	943050-001	

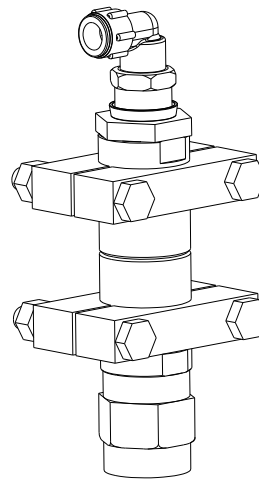
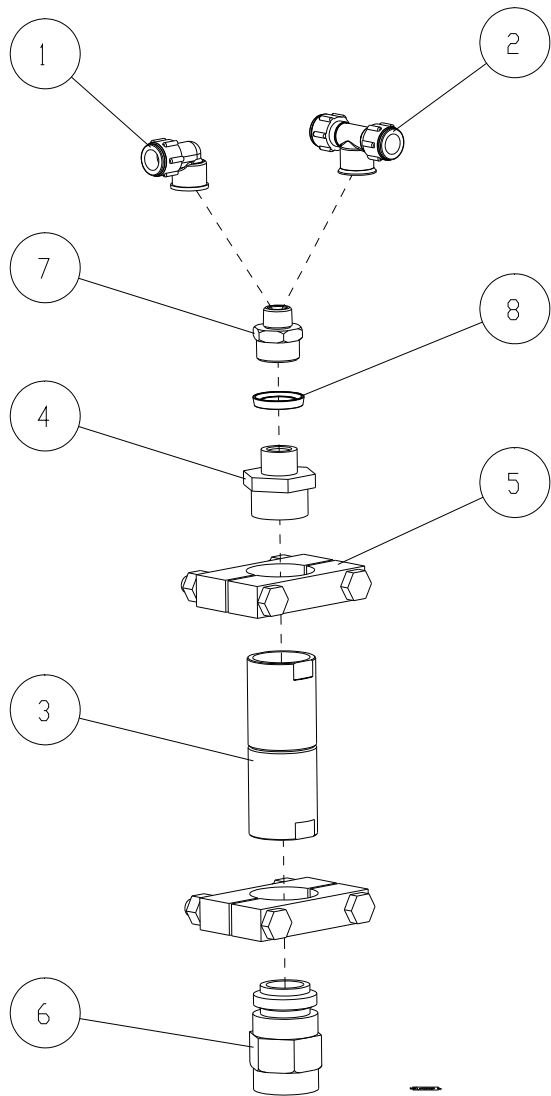


6.7.3 RISBRIDGER SHEAR VALVE

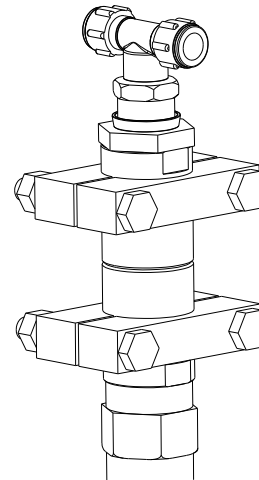


Item No	Description	Désignation Français	Part No	Comments
1	Nut Hex M10	Ecrou H M10	900011-004	
2	Screw HH M10x45	Vis H M10x45	900015-022	
3	Nipple 22mm G1	Douille 22mm G1	900416	
4	Flange 1" 78mm	Bride 1" 78mm	901320-001	
5	Gasket - Flange 78-82	Joint de Bride 78-82	901859	
6	Risbridger Shear Valve	Risbridger Shear Valve	906069	
7	Clamp Kit Risbridger	Clamp Kit Risbridger	906069_clamp_kit	
8	Risbridger Non Return Valve	Risbridger Non Return Valve	906069_nr_valve	
9	Flame Arrestor Assy - Ethanol	Flame Arrestor Assy - Ethanol	943050-001	Option
10	Nipple R1"-R1"	Douille R1"-R1"	944527	

6.7.4 RISBRIDGER SHEAR VALVE - UK



SINGLE SIDED



DOUBLE SIDED

Item No	Description	Désignation Français	Part No	Comments
1	Elbow 3/8" x 12	Equerre egale 3/8" x 12	901599-001	
2	Coupl.T Compr. 12*3/8F*12	Rac T Egal 12*3/8F*12	901600-001	
3	Risbridger Shear Valve	Risbridger Shear Valve	906069	
4	Risbridger Shear Valve Adaptor	Risbridger Shear Valve Adaptor	906069_adaptor	
5	Clamp Kit Risbridger	Clamp Kit Risbridger	906069_clamp_kit	
6	Risbridger Non Return Valve	Risbridger Non Return Valve	906069_nr_valve	
7	VR Shear Valve Adapter	VR Shear Valve Adapter	950935	
8	Washer VR Shear Valve Adaptor	Washer VR Shear Valve Adaptor	950936	

GLOSSARY OF ABBREVIATIONS

DIT – DISPENSER INTEGRATED TERMINALS

HH – HANGING HOSE

HMS – HOSE MANAGEMENT SYSTEM

NNB – NARROW NOZZLE BOOT

HS / LS – HIGH SPEED / LOW SPEED

MPE-EC – ENHANCED PULSER METER, ELECTRONIC CALIBRATION

POS – POINT OF SALE

TQC – TOKHEIM QUALITY CALCULATOR

TQM – TOKHEIM QUALITY METER

TQP-RS – TOKHEIM QUALITY PUMP - REGULAR SPEED

TQP-HS – TOKHEIM QUALITY PUMP - HIGH SPEED

VR – VAPOUR RECOVERY

WWC – WORLD WIDE CALCULATOR



For any further information and detailed contacts for each country,
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