

Declaration of conformity

The product: _____

Model no.: _____

Serial no.: _____

Year of manufacture: _____

Described in the enclosed documentation is in conformity with:

- Directive 98/37/EC of 22 June 1998 relating to the *approximation of the laws of the Member States relating to machinery*, combining in a single text Directives 89/392/EEC of 14 June 1989, 91/368/EEC of 20 June 1991, 93/44/EEC of June 14, 1993 and 93/68/EEC of 22 July 1993.
- Directive 73/23/EEC of 19 February 1973 relating to electric equipment.
- Directive 89/336/EEC of 3 May 1989 relating to electromagnetic compatibility.
- Directive 93/68/EEC of 22 July 1993, amending Directive 73/23/EEC, and Directive 89/336/EEC.

within the scope of the specifications indicated in the chapter describing the equipment with a B1 risk level. Since it is intended to form part of a set of machines which, to obtain a result, are arranged and connected to perform together, it cannot be operated until the set of machines has been declared in conformity with the applicable Directives by the person responsible for the final assembly.

Orcoyen, on : _____

Signed.: _____



Gonzalo Marco, Managing Director



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CONTROL REGISTRATION

CONTROL :

DATE:

ELECTRIC CHECK:

CONTROL BOARD CHECK:

TEMPERATURE CONTROL CHECK 150/180°C:

HYDRAULIC CHECK (100 bar):

PNEUMATIC CHECK:

APPLICATOR SERIAL NUMBER:

GUARANTEE CARD

DISTRIBUTOR:.....

CONTACT:.....

ADDRESS:.....TELEPHON.....

OEM:.....

ADDRESS:.....

TYPE:.....BRAND:.....MODEL:.....

USER:.....

CONTACT:.....

ADDRESS:.....TELEPHONE :

SYSTEM LOCATION:.....

DATE OF INSTALLATION: GUARANTEE UNTIL:

APPLICATOR SERIAL NUMBER:



IMPORTANT!

THIS INSTRUCTION MANUAL SHOULD BE KEPT IN AN ACCESSIBLE PLACE KNOWN TO ALL OPERATORS AND MAINTENANCE PERSONNEL.

READ THE INSTRUCTIONS CAREFULLY BEFORE OPERATING THE MACHINE AND FOLLOW THEM WHILE THE MACHINE IS IN OPERATION.

FOLLOW THE SAFETY INSTRUCTIONS PROVIDED IN THIS MANUAL WHEN USING AND HANDLING THE MACHINE.

IF YOU FAIL TO FOLLOW THE SAFETY INSTRUCTIONS, THIS MAY GIVE RISE TO BURNS, INJURIES AND EVEN IRREVERSIBLE DAMAGE. YOU MAY ALSO DAMAGE THE EQUIPMENT OR OTHER MATERIALS.

WARNING:

If you alter the function, performance or safety aspects of the machine, replacing original parts with other similar but not identical components (substantial alterations), without the authorisation of MELTON and as specified in Directive 89/392/EEC, you will be classified as a manufacturer and therefore become liable for the alterations made.

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CHAPTER 1

SAFETY INSTRUCTIONS

1.1. SYMBOLS AND TERMS:



Miscellaneous prohibitions



European Community markings



Danger: hot surface



Note of special interest



Miscellaneous precautions



Use of goggles required



Precaution: electric current



Use of safety gloves required



Precaution: flammable liquid



Susceptible elements to electrostatic discharge



Precaution: risk of fluid leakage under high pressure



Precaution: risk of entrapment between mobile parts

Burns:



Burns can be caused by the uncovered parts of the applicator, such as the guns or by splashes of hot melt.

The hot adhesive under pressure in the nozzles can cause serious injuries to the skin.

Qualified personnel:

This is personnel (technical staff) who has acquired sufficient know-how in a specific field, either through training or from experience.

This personnel must be familiar with safety and accident prevention standards, and have general knowledge of the technical aspects of the machine.

Protective clothing:

This clothing will be compliant with EN510 and EN340 standards, protecting against fast-moving particles and high temperatures.

It will be as tight as possible to prevent it from catching on mobile machine parts, and the sleeves, waist, legs, etc. will be adjustable to the size of the wearer.

Goggles and face shields:



They will be compliant with the EN 166 standard, protecting against fast-moving particles and high temperatures.

Goggles only protect the eyes. Face shields are therefore preferable, since they protect the entire face.

Protective gloves:



They will be compliant with EN 407 and EN 420 standards, protecting the hands against the burns caused by external thermal masses at temperatures of above 100 °C.

1.2. PURPOSE:



This unit has been manufactured according to current safety standards.

This unit has been designed for the purpose described in chapter 2 of this manual, Description.

To use the machine correctly, follow the instructions provided in the Operating Manual, particularly:



- The machine should only be installed and used by qualified personnel, previously familiarised with the operating instructions (contacting the manufacturer whenever necessary) and the risks involved, the safety measures required, including adjustment and maintenance, and expressly forbidden operations.
- This unit has not been manufactured to operate in hazardous, explosive and/or flammable atmospheres
- When working with this machine, wear protective clothing, gloves and face shields and remove rings, bracelets and watches.
- Since the machine is designed to form part of a series of machines, arranged to work together, the hot melt applicator cannot be operated until the entire series has been declared in compliance with applicable directives.
- This machine should never work without the guards provided (which should not be removed). These guards should be checked and maintained with the specified frequency.
- Make sure that the equipment is properly grounded.
- Never operate the machine if you are aware that there is a leak in the glue circuit.
- Maintenance operations and/or repairs should be performed by personnel with basic knowledge of the machine and the mechanical, pneumatic and electric circuits involved.
- Maintenance operations and/or repairs should always be performed with the machine switched off at the mains, and with the main switch blocked.
- Maintenance operations and/or repairs should always be performed with the machine de-pressurised and disconnected from the pressure circuit.

1.3. FIRST AID:

In case of burns:



Immerse affected part in cold clean water as quickly as possible until the adhesive has cooled.

Do not attempt to remove the adhesive from the skin even when it has cooled as this may cause more serious injury.

Seek qualified medical attention immediately.

In case of an accident with the solvent:



CONTACT WITH THE SKIN: Wash with soap and water and discard all contaminated cloths.

CONTACT WITH EYES: Wash in an eye bath for at least 15 minutes.

INHALATION: In case of overexposure take patient to fresh air and let them rest.

INGESTION: Do not attempt to induce vomiting. Seek medical attention at once.

CHAPTER 2 DESCRIPTION

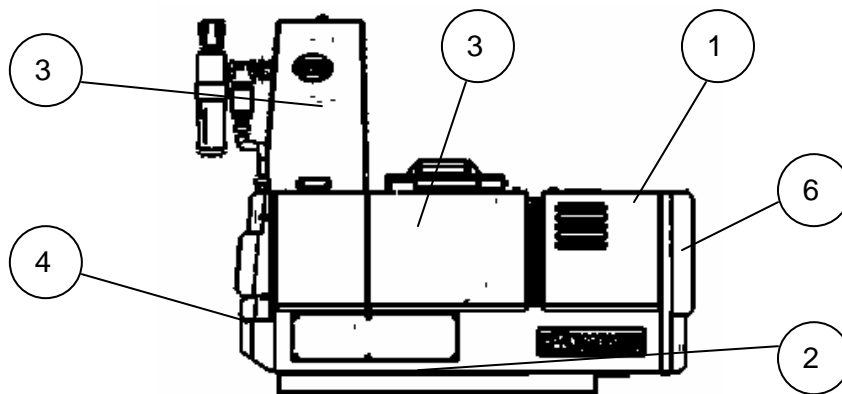
2.1. INTRODUCTION:

This machine heats hot-melt adhesive (or similar materials) until it goes from solid to liquid state in a heated container. A pump absorbs the glue at a certain pressure through heated hoses and transfers it to where it is applied.

2.2. MAIN PARTS:

The main parts of a machine are shown on the following figure:

Las partes principales del equipo se pueden observar en la figura siguiente:



N.	DESCRIPTION
1	Electric closet
2	Frame
3	Pump
4	Manifold
5	tank
6	Control panel

2.2.1. FRAME

The frame consists of a base plate on which equipment is installed.

2.2.2. Tank:

Where the Hot-Melt or other similar material is melted in a tank (the other material can be in the form of pellets or blocks). The cast aluminium tank is lined with Teflon to avoid carbon deposits and crystal formation, and incorporates a heating system through resistances.

The heating of the resistances is controlled by sensor with a micro-controller, and can be programmed up to 240°.

2.2.3. Pump-distribution system:

It transfers the adhesive from the drum to the distributor.

Manifold:

The manifold distributes the Hot – Melt, once filtered, to the hoses and guns.

Made of aluminium, it is assembled on the lower part of the tank so that the tank resistances can heat it indirectly.

The filter in the manifold consists of a core and fine in line filter screen to filter the crystal particles or dirt that could be present in the adhesive.

The manifold has 6 outlet holes to connect the Hot-Melt hoses: three at the front and three at the back.

Pump:

The pump drives the Hot-Melt or other heat-meltable product at a certain pressure from the tank to the substrate (or material to be glued), passing through a distributor, filter, hoses and guns.

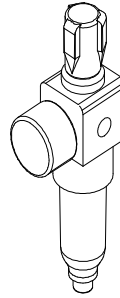
The pump unit consists of an electrovalve, a pneumatic cylinder and a double-acting hydraulic pump with a pressure compensator to avoid a drop in the flow produced in changing the direction of the pump, and enabling uniform discharge of the Hot-Melt.

2.2.4. Pressure regulator and electrovalve control

Pressure regulator:

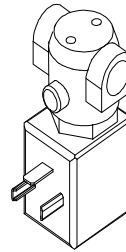
The element used to raise or lower the pressure indicated on the pressure gauge. It is regulated depending on the application that has to be made. It includes an air filter to avoid the entry of impurities into the machine.





Electrovalve control:

The element that controls the passage of air to the pump. It is electrically connected to the electrical control system.



2.2.5. Control panel:

The control panel containing the machine's operating and adjustment switches is on the front of the main electric closet.

2.3. TECHNICAL CHARACTERISTICS:

<i>ELEMENT</i>	<i>DATA</i>				
GENERAL					
Power supply	I 220V+N+T (50/60Hz), III 220V+T (50/60 Hz), III 380V+N+T (50-60Hz)				
Hoses (max.)	6				
Hydraulic pressure (maximum working)	2.8 – 80 bar (40 – 1138 psi)				
Noise level	63 dB				
Working temperature	-10 – 50 °C (32 – 122°F) HR 20% a 80% no condensed				
CONTROL					
Working temperature	30° - 240° C (104° - 464° F)				
Temperature control precision	+/- 0.5° C (+/- 1° F)				
Type of control	Proportional, with output at 220 V AC per triac by control of transit through zero				
PUMP	C4	C8	C16	C30	C50
Pumping capacity (Kg/h)	35	35	100	100	100
Pump compression ratio:	1:13	1:13	1:14	1:14	1:14
Pneumatic working pressure:	0.2 to 6 bar				
TANK	C4	C8	C16	C30	C50
Volume (litres)	4	8	16	30	50
Melting capacity (kg/h)	4.2	7.9	13.5	22.8	37.8
Tank electrical consumption (W)	1800	2800	4800	5800	7200

CHAPTER 3 INSTALLATION OF THE MACHINE

3.1. INTRODUCTION:



This chapter explains how to install the machine correctly.

WARNING: The operations described in this chapter should be performed by qualified personnel, following safety instructions.

3.2. TRANSPORT:

The equipment is supplied packed with a paperboard box (approx. dimensions: 75x47x72mm).

Approximate weight: 60 kg.

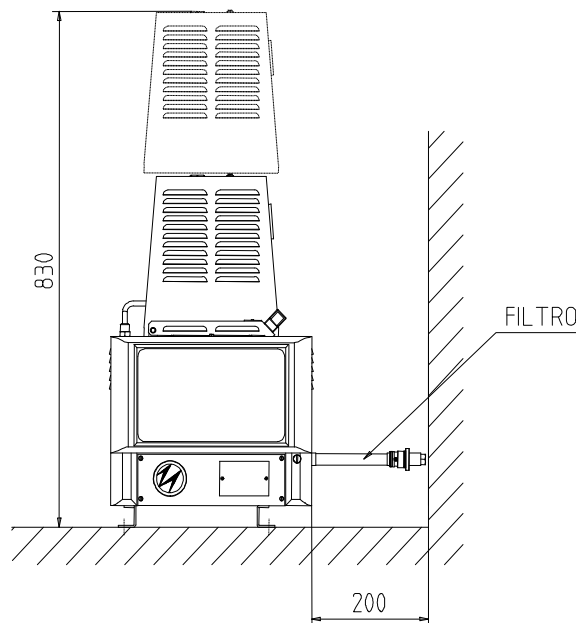
Remove the top cover to unpack.

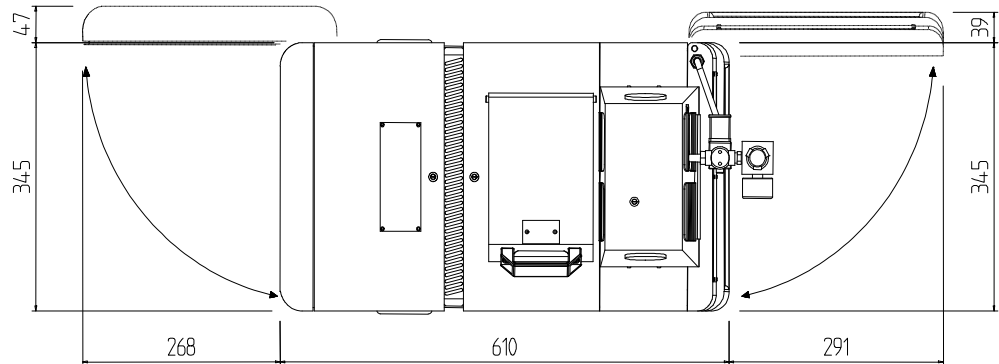


Unpack carefully to prevent damage to the machine. Inspect the equipment for damages caused during transport.

3.3 INSTALLATION REQUIREMENTS:

Install the follower plate leaving enough space for the equipment to be accessed during operations.





Avoid extreme temperatures (below -10°C and above + 50 C).

Try to avoid installing the equipment where there are draughts. If this is not possible, the guns will need protecting because if the temperature falls rapidly they may not work properly.

3.4. MECHANICAL INSTALLATION:

The mechanical installation includes the following:

- Positioning the equipment.
- Connecting the hoses.

Positioning the equipment:

Remove from the box, and position according to installation requirements (chapter 3.3)

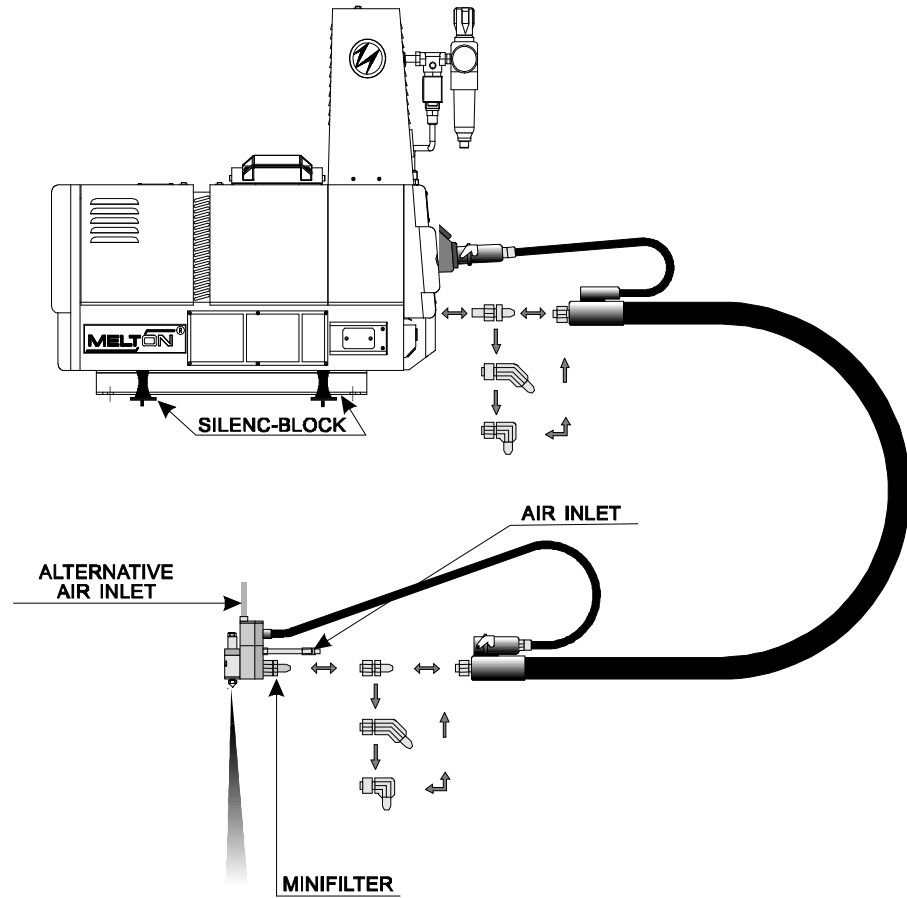
Connecting the hoses:

Proceed as follows:

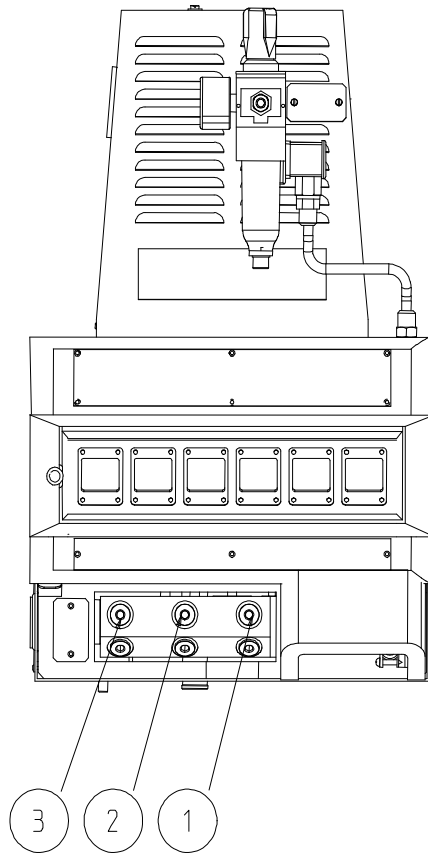


Make sure that the equipment is depressurised before connecting the hose. Set the motor control selector to zero and bleed with bleed valves. Heat the machine to melt any adhesive that may be present.

Connect the hose to the tank and the gun, electrically and mechanically.



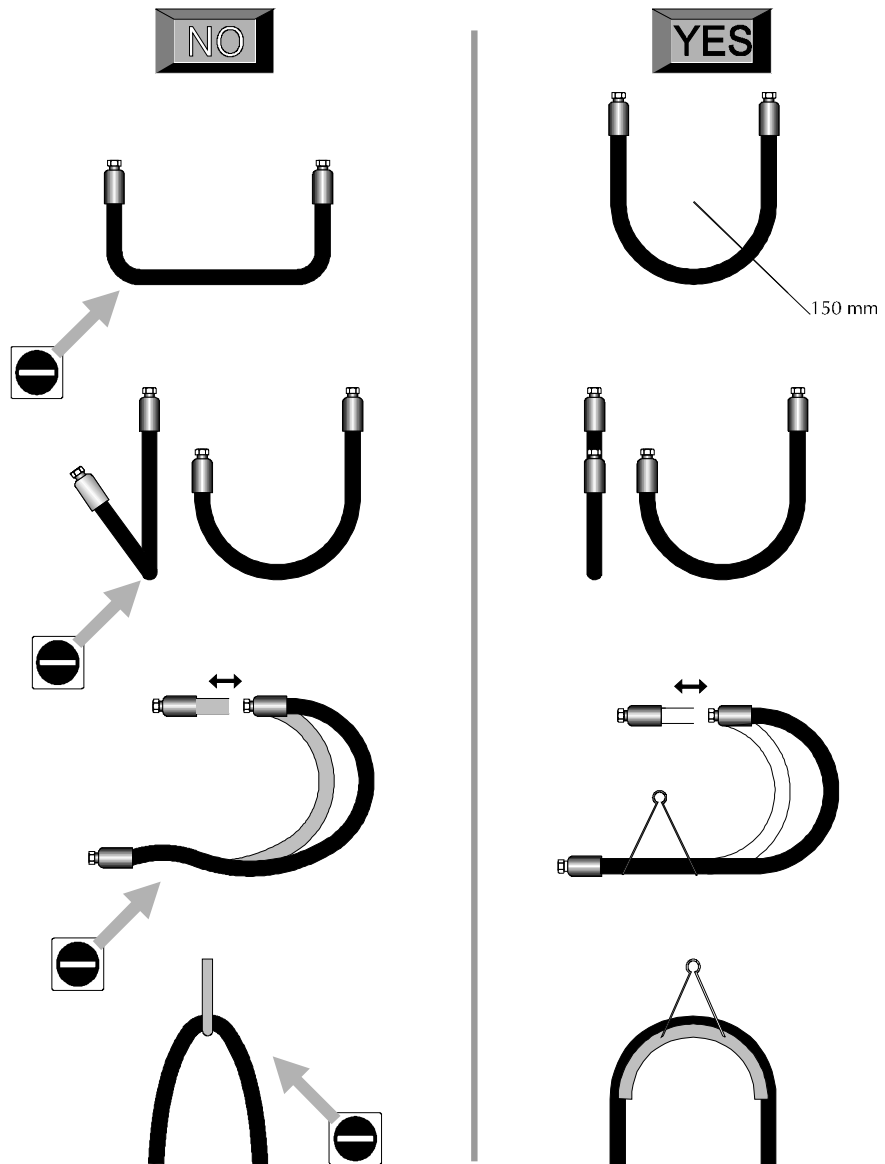
Start to connect the hoses from right to left. If you do not do this, you will create a dead centre where carbon deposits will accumulate, thereby increasing problems of nozzle blockage.



For the hydraulic connection, if the equipment is full of adhesive heat the tank before remove the manifold cap.

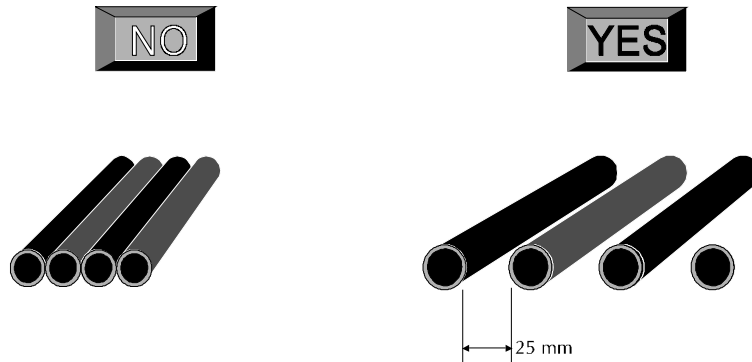
Installation of hoses:

Never bend the hoses more than curves of 150 mm radius.

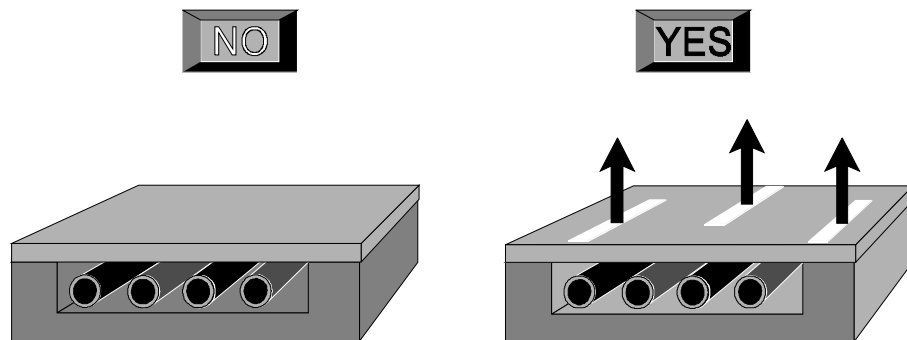


The hoses should not be in contact with very wide cold surfaces.

Do not install hoses together; leave a minimum separation (25 mm) between them so that the heat can dissipate.



Do not cover the hoses, if it is necessary to do this leave ventilation holes that the heat can be dissipated



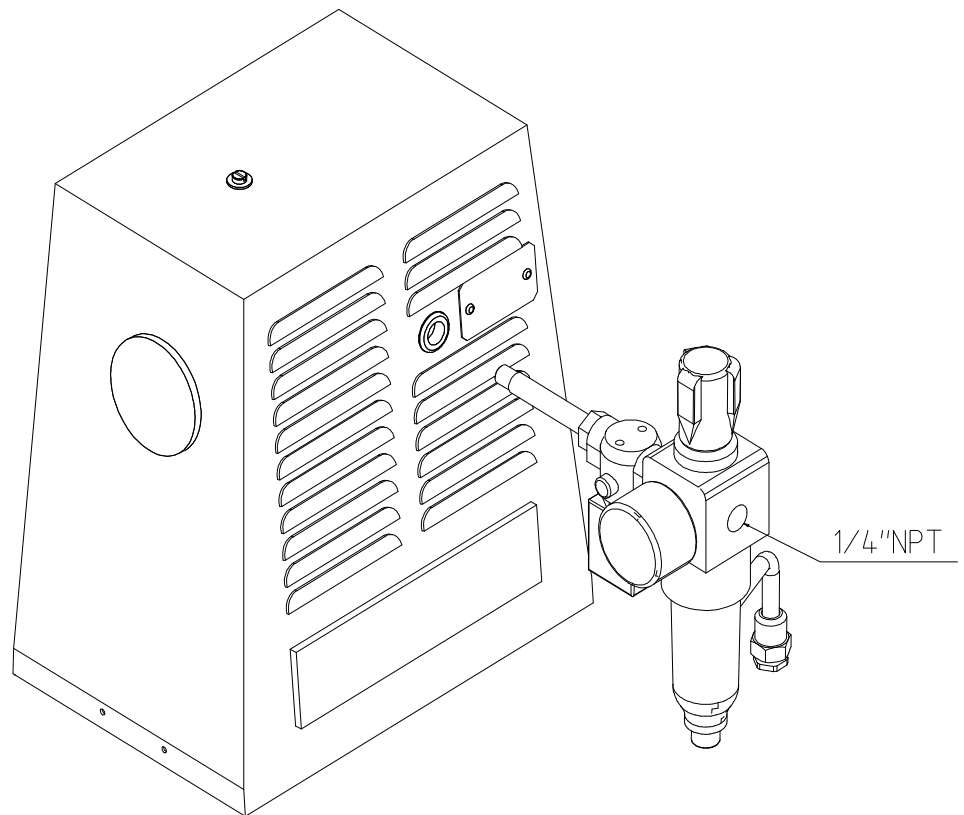
3.5. PNEUMATIC INSTALLATION:



Connect the electrovalve – filter unit to the rear of the pneumatic sensor. Connect the air line to the regulator by a ¼" thread NPT pneumatic connector. Ensure that the air line has sufficient capacity for the pump to work correctly.

To connect the unit to the machine, simply push the air connection of the electrovalve outlet through the housing at the rear of the cap nut of the pump. If it clockwise twists, the unit is fixed correctly.

Connect the electrovalve to the connector located on top of the rear gate.



3.6. ELECTRIC INSTALLATION:



The electric installation depends on the model. See electric diagrams.

CHAPTER 4 MACHINE ADJUSTMENT

4.1. INTRODUCTION:

The following adjustments should be made before the machine is switched on or while it is working. They will ensure that the machine works properly and safely.

4.2. TEMPERATURE CONTROL:

4.2.1. Introduction:

The temperature of the tank, hoses and guns in the Hot – Melt application equipment is regulated by a digital electronic device controlled by microprocessor.

Regulation is proportional, with factory-set parameters for the separate heating inertias of the tank, hoses and guns.

The temperature is measured by the RTD sensor on each of the heating devices. These can be programmed individually and on each output channel between 30° - 220° C.

The rangeability (measurement range) of the controller is between -10°C and 220° C; below 10°C the equipment will show a sensor failure by short-circuit and above 220° C the display shows 'fault – open sensor'.



Below -10 °C, the equipment will display a probe short circuit fault. Above 220 °C, the display will report on an open probe fault.

4.2.2. Brief description of how the unit operates:

The SERIE C is equipped with proportional temperature control for the resistances connected to 4 double hose-gun channels and a special channel for heating the tank, with menus to access parameter programming and control of the external circuit pressure pump, operating clearance for the main machine, alarms and different operating functions (SCAN, ENERGY SAVING, etc.), which will be described later.

The control panel includes a 10-digit display with 7 ultra-bright segments showing the unit's operating data, plus the alarms that are produced by the sensor signals. There are also LEDS displaying resistance bar output status, pressure pump, overheating alarms, safety and energy saving status.

Temperature programme menu:



To pre-select the operating temperature for each hose and gun and the tank in a range between 30 and 220°C (85-464°F). Below 30°C (85°F) the device is permanently switched OFF.

ENERGY SAVING programme menu:



To pre-select a % of the operating temperature in 3 groups.

Different percentages of the operating temperature can be selected for the tank, hoses and guns when the equipment is in ENERGY SAVING mode. Values between 70 and 90% can be selected.

General operating parameters programme menu:



To enter operating parameters (optionally, with a password) such as temperature measurement unit (°C or °F), clearance delay time, safety alarm temperature, temperature deviations that cause alarms, enabled options, display of operating times, etc.

There is a parameter that automatically copies the value of the temperature selected for the tank on all the output channels that are enabled (channels that are not OFF).

On/off timer programme menu:



To enter automatic switch-on and switch-off times. Up to 2 on/off time groups can be programmed for each day of the week, and the switch-over to ON, OFF or ENERGY SAVING.

Time adjustment programme menu:

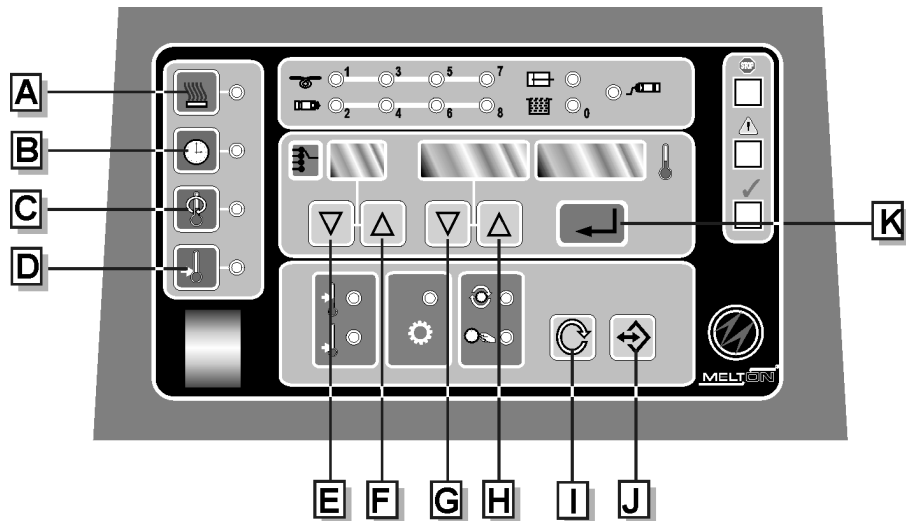


To enter the current day of the week and the time on the timer.

4.2.3. Description of the control panel:

Keyboard:

The SERIE C control panel has 11 control keys that provide access to the programme menus and general operating processes.



A KEY: (Heating On/Off) This key switches the equipment on or off. When it is switched on it will return to the operating mode at which it was previously switched off, either ON or ENERGY SAVING. When the equipment is switched off, the display shows the day of the week and the time, and the day of the week and time when it will automatically switch on again if the TIMER function is enabled.

B KEY: (Clock On/Off) This key switches the TIMER function on or off. With the function ON, the automatic on/off programme is enabled.



C KEY: (Scan On/Off) This key switches the SCAN function on and off. With the function on, a sequence of the SET and PRESENT temperature values of all the channels is displayed.



D KEY: (energy saving On/Off). This key is used to set the equipment on hold, with reduced electricity consumption (ENERGY SAVING), adjusting the temperature to the programmed percentage values.



E KEY: (DOWN). This key changes the display for the different devices (tank, hoses, guns). It moves from top to bottom and returns to the start of the sequence after the last value is displayed. It is used to display and programme the PRESENT and SET temperature, parameters and the timer.



F KEY: (UP selection) This key also changes the display for the different devices (tank, hoses, guns). It moves upwards and returns to the start of the sequence after the last value is displayed. It is used to display and programme the PRESENT and SET temperature, parameters and the timer.



G KEY: (DOWN data) This key changes the data from top to bottom in the different programming modes (it does not work in operating mode).



H KEY: (UP data) This key changes the data, from bottom to top, in the different programming modes (it does not work in operating mode).



I KEY: (Programming) This key moves through all the programming menus.



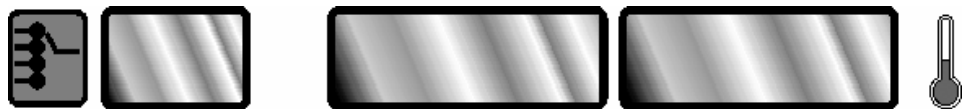
J KEY: (Programming) This key enters and exits the equipment parameters menu.



K KEY: (ENTER) This key is used to validate the data that has been changed in the programmes. It does not work in operating mode. To validate a programme entry, press **ENTER** until the display blinks.

Display:

The control panel has a 10-digit 7-segment display in 3 blocks.



The two digits on the left indicate the device for which the information appears in the blocks of digits further to the right.

The central 4-digit block displays the SET operating temperature and the programmed parameter values.

The 4-digit block on the right displays the PRESENT operating temperature and it is also used as a display in some programming stages.

LEDS:



ON/OFF LED: This shows that the equipment is switched on and in HEATING mode, or on hold pending key activation, or on hold pending being switched on by the timer.



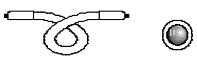
TIMER LED (LED RELOJ): This shows that the TIMER function is switched on. If the light is off, the equipment will not automatically switch on or off at a previously programmed time.



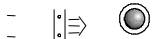
SCAN LED: This shows that the SCAN function is switched on. If the light is on, the equipment will display a sequence of the temperatures of all the enabled resistances.



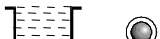
B.M. LED: This shows that the equipment is on ENERGY SAVING, which means that all the channels are adjusted to the programmed % of the operating temperature.



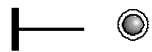
LEDS 1,3,5,7: They show that the power outputs that supply the resistances for the hot-melt hoses are switched on.



LEDS 2,4,6,8: These lights show that the power outputs to the resistances for the extrusion guns are switched on.



LED 0: This shows that the tank resistances are switched on.



LED B1: This shows that the circuit pressure pump and the external clearance relay are enabled.



STOP LED: When this light is on, it means that the equipment has been disconnected from the electric mains because there has been a serious fault in one of the measuring sensors or because the temperature of one of the heating devices has risen above the programmed safety temperature. If it flashes on and off for 2.5 minutes, it warns of a safety alarm situation or faulty sensors. If the problem is not solved in this time, the equipment will shut down.



AL LED: This is a warning that there is a device outside the correct temperature range (programmed SET ± deviation), or that a sensor is open or short-circuited.



OK LED: When this light is on, it means that the temperature of all the devices is correct and that there is no alarm situation.

If it flashes on and off, it means that the equipment is pre-heating before the pump is enabled and external clearance is given.



P.TEMP. LED: The operating temperature of the different devices is being programmed.



PBM. LED: The % values of the operating temperatures for the different devices (divided into 3 groups: tank, hoses, guns) are being programmed for adjustment in ENERGY SAVING.



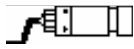
P.PAR. LED: The general operating parameters are being programmed.



P.REL1. LED: The timer on/off parameters are being programmed.



P.REL2. LED: The hour and date are being set on the timer.



EXT.TRIG.LED: This shows if the equipment is receiving external glue shot impulses. The equipment goes into ENERGY SAVING if the programmed time is exceeded without glue shots.

4.2.4. Functions:

ON/OFF function:



The unit has a key for setting it in OPERATING mode (ON) or on hold (OFF), and an optional external ON/OFF signal. In operating mode, the information described is displayed on the temperature control. When the unit is on hold, the display shows the present date and the next programmed time and the date and time that the unit is to be switched on and off, if the TIMER function is enabled.

TIMER function:



The TIMER key is used to enable/disable the automatic timer function to switch the unit on and off through the timer on the electronic card. When the TIMER function is on, the unit automatically switches on and off according to the timer. When the TIMER function is off, all timer programming is cancelled.

SCAN function:



The SCAN key enables/disables the SCAN function.

This SCAN function displays a sequence of the present temperatures of all the channels that are connected. The temperatures appear every 4 seconds, and go from the bottom to the top. This function only works when the equipment is in operating mode.

In programming mode, the SCAN function is cancelled.

ENERGY SAVING function:




The SERIE C can be set on ENERGY SAVING to obtain important energy savings in 4 different ways, by selecting the temperatures of all the devices at a programmed % of their operating value (with proportional control). The display will read as follows:



The associated pump and external clearance will be disabled and the corresponding LED will light up.

This function can be entered in four different ways:

- By pressing the  key.
- By programming the timer.
- By enabling the external ENERGY SAVING signal (OPTION).

- At the end of a programmed time in which there has been no glue shot (OPTION).

Temperature adjustment:

The control panel is designed for proportional temperature control, with parameters factory-adjusted to the heating inertia of the tank, hoses and adhesive guns. Heat inertia is greater for the tank, and therefore this temperature control range is wider than for the hoses and guns.

When the heating devices enter into the proportional range, the associated LED signals blink at a speed that depends on the rate of electricity supply.

icity supply.

Pump-clearance control:

The pressure pump and the associated external clearance relay (with power-free contacts) are switched on when the temperature of all the resistances (tank, hoses and guns) reaches 20°C (36°F) below the programmed temperature. They are switched off when any one of them reaches 25°C (45°F) below programmed temperature.

There is a delayed clearance parameter (P3) that provides extra heating time when the tank starts at a temperature lower than 65% of the operating temperature. Once the tank is in normal operation (including electrical faults) and does not fall below 65%, delayed clearance is inhibited.

Preheat function:

Because the heat inertia of the glue tank is much greater than for all the peripheral devices, these devices reach the programmed temperature much earlier than the tank. This rapid heating process has an ageing effect on resistances and insulation. This phenomenon also creates excessive fluid pressure in the hoses.

To offset this problem, the SERIE C has been fitted with a preheat system that heats all the peripheral devices (hoses and guns) in a sequential manner, while the tank is heated at normal speed. When the tank reaches 75% of the programmed temperature, heat is supplied to the hoses. When the hoses reach 75% of the programmed temperature, heat is supplied to the guns.

Alarms:

The SERIE C has several alarms, informing of faults in the measurement sensors, out-of-range temperatures or temperatures above programmed safety levels.

Temperature:

Each time that the temperature of a device goes outside the programmed ALARM MARGIN, the alarm signal will be enabled and the out-of-range temperature ALARM LED will light up.





Sensor faults:

If there is a short circuit in one of the measuring sensors, the equipment will display “CCC” instead of the temperature for the part (tank, hose, gun) involved. If an open circuit sensor fault is detected, the display will show “AAA” instead of the temperature.

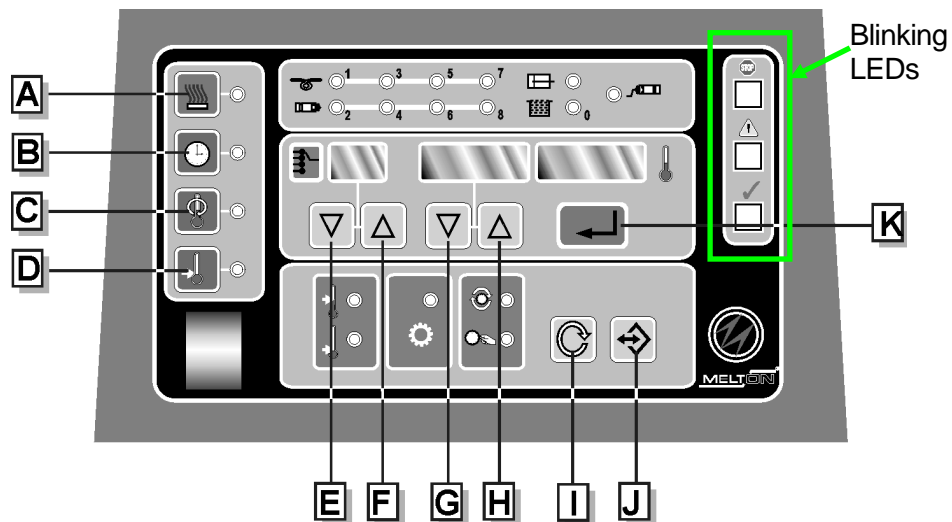
When an alarm of this kind occurs and the relevant channel is on (operating temperature different from OFF), the ALARM LED will light up, the external alarm will be switched on and the STOP LED will flash on and off for 2.5 minutes. If all the problems have not been solved after 2.5 minutes, the STOP LED will remain on all the time, the outputs will be blocked (at the main switch) and the equipment will cease to function.



Filter change alarm:

We get a filter change alarm once the equipment reaches 2000 hours (P10, by default 2000 hours) of work. We can recognize this alarm when the three leds pointed below Start blinking at the same time (Red+Yellow+Green). We can reset the alarm by selecting channel P10 and push clock button.

Alarm reset process as follows:



Push “J” → You gain access to program menu.



Push “I” → Go to P0. (If you get directly P1 –A go to next step).

Introduce Password → P0 = “123” + ENTER = “K”

Introduce → P1 = “1”. + ENTER = “K”

Push “F” until you get to P10.



Push “B” → The filter change alarm is now off.

Push “E” until you get to P1.

Introduce P1 = “0” + ENTER = “K”



Push “J” in order to exit the program menú.

End of filter change alarm reset process .

Safety:



Whenever a device reached the programmed safety temperature, the ALARM LED will light up, the external alarm will be switched on and the STOP LED will flash off and on for 2.5 minutes. If all the problems have not been solved after 2.5 minutes, the STOP LED will remain on all the time, the outputs will be blocked (at the main switch) and the equipment will cease to function. The display will flash on and off.

The equipment also includes a safety system with a bimetallic thermostat on the wall of the tank, adjusted to 240°C.

When the thermostat is triggered, it will de-activate the main switch coil, disconnecting the power to the resistances but continuing to supply the control electronics, so that the control panel display can identify the device that is the source of the problem.

When the equipment is blocked like this, the sensor temperature readings are frozen and the user can check the status of each sensor.

After repairing the fault, the equipment has to be switched off and on again.

Connections to the main machine:

External clearance:

This is a power-free contact that get closed when equipment is ready.



Alarm indications

This is a power-free contact that get closed when equipment control connects the ALARM led.

Safety stop indications:

This is a power-free contact that get closed when equipment control connects the STOP led.

4.2.5. Setting equipment parameters:

To programme operating parameters, press the  button on the control panel, and then press the  button to select the required programme menu.

To end the process, press  again.



Programming operating temperatures:

To enter this programme, press  button until  led is lit.


The two digits on the left show the code of the channel to be programmed.

Select the channel by pressing the   buttons under these digits.

The digits in the centre show the value of the programmed temperature.

Use the   keys under them to vary the temperature between 30 and 240°C (85 and 464°F).

When the minimum value is reached, the display will show OFF, which means that the channel is disabled.

By pressing the  key until the display flashes, the operating temperature displayed are saved



The channels are identified by the following codes:

t0	Tank
t1	OUTLET 1 hose
t2	OUTLET 1 gun
t3	OUTLET 2 hose
t4	OUTLET 2 gun
t5	OUTLET 3 hose
t6	OUTLET 3 gun
t7	OUTLET 4 hose
t8	OUTLET 4 gun
t9	OUTLET 5 hose
t10	OUTLET 5 gun
t11	OUTLET 6 hose
t12	OUTLET 6 gun



The number of outputs depends on the equipment type. There can be difference two types: 4 double outlets (until t8) and 6 double outlets (this table)

Programming ENERGY SAVING:

To enter this programme, press  button . Button until  led is lit.



The two digits on the left show the code of the output to be programmed, which is selected by pressing the   keys under them. 3 groups can be selected:



b0	Tank
b1	Hoses
b2	Guns



The digits in the centre show the % of the operating temperature that will be used as the adjustment value for ENERGY SAVING. The   keys under these digits change the temperature value between 50 and 80%.

Pressing the  key until the display flashes, we will save the % of temperature displayed.

Programming operating parameters:

Press  button. until  the led is lit.

The two digits on the left show the code of the parameter to be programmed, which is selected by pressing the   keys under these digits.

The digits in the centre, and also the digits on the right, will show the value of the parameter. Press the   keys under these digits to alter the values within the ranges specified in Table 1.

Pressing the  key until the display flashes, the operating parameter displayed is saved.

Table 1. General parameter codes (standard default values in brackets):

	Name	Description/purpose
P0	Enter password (123)	To enter the access code in order to change the other parameters. If the correct password is not entered, the equipment displays the information, but it cannot be altered.
P1	Select password (1).	If 0 is entered, the password status is cancelled.
P2	Measurement unit (0)	Selects the measurement unit. 0 = °C and 1 = °F.
P3	Clearance delay (15)	Delay in minutes for switching on the pump and giving clearance after pre-heating. Values between 0 and 60 minutes.
P4	Safety alarm temperature (220°C/428°F).	This temperature must be above maximum operating temperature. Values can be adjusted between 80 and 240°C (176 and 464 °F).
P5	Tank alarm deviation (5°C/9°F).	Any sensor that reaches a temperature higher or lower than operating temperature +/- deviation, will switch on the temperature warning lamp and the relevant external alarm. Values can be adjusted between 1 and 30°C (2 and 54°F).
P6	Hose alarm deviation (5°C/9°F).	Any sensor that reaches a temperature higher or lower than operating temperature +/- deviation will turn on the temperature warning lamp and the relevant external alarm. Values can be adjusted between 1 and 30°C (2 and 54°F).
P7	Gun alarm deviation (5°C/9°F).	Any sensor that reaches a temperature higher or lower than operating temperature +/- deviation will turn on the temperature warning lamp and the relevant external alarm. Values can be adjusted between 1 and 30°C (2 and 54°F).
P8	Time after last signal (0) to go into ENERGY SAVING.	If the selected time (between 0 and 120 minutes) is exceeded with no shot pulses, the equipment will go into ENERGY SAVING mode. A 0 value switches off this function (I/O CARD REQUIRED) .
P9	Time counter	Displays the time (hours) that the equipment has been operating.
10	Copy temperatures	This copies the operating temperature selected for the tank for all the hoses and guns that are enabled. This function rapidly programmes the equipment's SET operating values.
11	Able/disable the 1 hose-gun channel (0)	Let the use of the 1 channel, P11 =1. [0,1]
12	Able/disable the 2 hose-gun channel (0)	Let the use of the 2 channel, P12 =1. [0,1]
13	Able/disable the 3 hose-gun channel (0)	Let the use of the 3 channel, P13 =1. [0,1]
14	Able/disable the 4 hose-gun channel (0)	Let the use of the 4 channel, P14 =1. [0,1]

Table 1. General parameter codes (standard default values in brackets).(Cont.)

	Name	Description
15	Able/disable the 5 hose-gun channel (0)	Let the use of the 5 channel, P15 =1. [0,1] (ONLY IN THE 6 OUTPUTS CARD)
16	Able/disable the 6 hose-gun channel (0)	Let the use of the 6 channel, P16 =1. [0,1] (ONLY IN THE 6 OUTPUTS CARD)
17	Card node number (0)	Identify the node number for communications. (4 and 6 outputs)
18	I/O configurable parameter With -1 (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
19	I/O configurable parameter With -2 (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
20	I/O configurable parameter With -3 (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
21	I/O configurable parameter With -1D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
22	I/O configurable parameter With -2D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
23	I/O configurable parameter With -3D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
24	I/O configurable parameter With -4D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
25	I/O configurable parameter With -5D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
26	I/O configurable parameter With -6D (0 disabled)	I/O configurable functions. [0,9] (I/O CARD REQUIRED))
27	RS-485 (0) communications section	Outer communication mode selection parameter (0-disabled) (I/O CARD REQUIRED, NO ACCESS BY COMMUNICATIONS))

P4 parameter: Maximum temperature.

If this value is modified and after that it is being below of the programmed temperature of any channel then the channel temperatures will be the same as P4 value.

[P18-P26] parameters: I/O configurable function.

It is possible to configure I/O card contacts functions for different functions.

Function	Number
Disabled	0
Application	1
Energy saving	2
Start/stop	3
1 hose-gun channel	4
2 hose-gun channel	5
3 hose-gun channel	6
4 hose-gun channel	7
5 hose-gun channel	8
6 hose-gun channel	9

Disabled function

With this function the parameter is disabled.

Application function

If there is a “0” (without potential, open contact) the input which has been assigned the application function during more time that appears in P8 parameter (time in minutes) and moreover it’s allowed the pump to work , then the unit goes to energy saving.

If it is selected an “1” (contact is closed) before the P8 parameter time is finished, then the timer is reset and the value of P8 is counted again.

Having the unit in energy saving when an “1” is selected (contact is closed) at the application function assigned input then the unit goes to normal working.

If there is an “1” at any assigned input the unit performance is normal and the timer doesn’t count with the P8.

If P8=0 then the application function is also disabled because the timer is disabled.

Energy saving function

While it is a “0” (circuit is open) at the input of the energy saving function the unit keeps in standard working.

When there is an “1” (contact is closed) the unit goes to energy saving. In order to keep the energy saving function on it is necessary to keep that “1” (contact is closed) at the input.

Note: In case that both application and energy saving functions are configured, the unit gives priority to the “Energy Saving” function but it is allowed to the application function to work normally if there is a “0” in the “Energy Saving” function, in other words, when the unit doesn’t keep in standard working.

Start/Stop function

If it is a “0” (circuit is open) at the *Start/Stop* function Input the unit will keep on working (*Start* function).

If there is an “1”(contact is closed) the unit will turn off.

Hose-gun channel function

If there is a “0” (circuit is open) at the hose-gun function input then the channel is abled.

If there is a “1” (contact is closed) at the hose-gun function input then the channel is disabled.

P27 Parameter: Communication Modes Selection

This parameter is used to know if external communication are going to be used.

If P27= 0 it means that external communications by PROFIBUS or MODBUS protocols or by I/O States are not going to be used.

If P27= 1 then the MODBUSS communications and the I/O States* are activated.

If P27=2 then the PROFIBUSS communications and the I/O States* are activated.

Both Modbus and Profibus communications needs specific I/O card for each communication mode.

*If communications of any of the protocols and the I/O are abled could be orders conflicts due to the wired communications priority (I/O States) with regards to MODBUS

Connection description: Hardware Tarjeta I/O:

Connector DB-9:

DB-9	
Pins	Func
1	A+
2	B-
---	---

The RS-485 communications Works by means of a specific component wich works a middleman between the microcontroles and the DB-9 male

The voltage range of communications and electronic

components operation is 5V.

Programming the timer switch on/off data:

To enter this programme, select the  icon.

The two digits on the left show the code that represents the day of the week (with values from 1 to 7). The digits in the centre show the code of the parameter to be programmed, which is selected by the E and F keys



The digits on the right show the value of the parameter. Keys G and H (▽ ▲) alter these values, within the ranges specified in Table 2.

By pressing the ↵ until the display flashes, the information on display is saved.

Table 2. Codes of the timer switch on/off parameters.

d1	01	XX	Switch-on 1 time (hour) (Monday)
d1	02	XX	Switch-one 1 time (minute) (Monday)
d1	03	XX	Type of switch-on 1 (Monday)
d1	04	XX	Switch-off 1 time (hour) (Monday)
d1	05	XX	Switch-off 1 time (minute) (Monday)
d1	06	XX	Type of switch-off 1 (Monday)
d1	07	XX	Switch-on 2 time (hour) (Monday)
d1	08	XX	Switch-on 2 time (minute) (Monday)
d1	09	XX	Type of switch-on 2 (Monday)
d1	10	XX	Switch-off 2 time (hour) (Monday)
d1	11	XX	Switch-off time 2 (minute) (Monday)
d1	12	XX	Type of switch-off 2 (Monday)

This same table is valid for every day of the week.

The TYPE parameter has the following functions:


For switch-on:

TYPE=0	Switch-on selection not active
TYPE=1	The equipment goes from its present status to normal OPERATION


TYPE=2	The equipment goes from OFF to LOW MAINT.
--------	---



For switch-off:



TYPE=0	Switch-off selection not active
TYPE=1	The equipment goes from its present status to OFF
TYPE=2	The equipment goes from its present status to LOW MAINT.


For easy programming, by pressing the  key when the first parameter of the day is in position, the 12 data of the programme for Monday are copied to the day for which the key is pressed.

Setting the timer on the present date and time:

To enter this programme, select the  icon.

The two digits on the left show the code of the data to be programmed, which is selected by pressing the   keys under these digits.

The digits in the centre show the present day and time according to the timer. These values are altered by pressing the   keys under these digits.

By pressing the  key until the display flashes, we can save this information.

Identification codes:

r1	Day of the week (1 to 7)
r2	Present time (hour) (0 to 23)
r3	Present time (minute) (0 to 59)

4.3. PNEUMATIC ADJUSTMENT

The adhesive's output pressure is controlled by the pressure regulator and electrovalve unit. This is the element that contains the pneumatic and electro pneumatic control of the pump. It is located in the rear of the applicator, connected directly to the pneumatic pump.

Pressure gauge:



The element that indicates pressure in Kg cm² and bar at which the pneumatic cylinder of the pump and the compensating valve operate.



The ratio between pneumatic and hydraulic pressure is 1:13. This means that, for each pneumatic Kg cm² indicated on the pressure gauge, there will be 13 hydraulic Kg cm² at the pump.

CHAPTER 5 OPERATION



WARNING: This equipment should only be used by qualified personnel who understand all the procedures and are familiar with the necessary safety measures.

5.1. INTRODUCTION:



This chapter explains how to use the equipment.

First of all, make sure that the person operating the machine is duly protected and that all safety instructions are followed. All safety equipment should be in perfect condition.

5.2. SWITCH ON:



- 1 Press the ON button.
- 2 Check that the equipment is correctly adjusted. Readjust if necessary (see Chapter 4).
- 3 When the equipment is on the programmed temperature and no alarm led is lit, the ON signal is received and the system is ready to run.
- 4 Permission of main machine is given (in case they are connected). The system has two terminals for external on/off signals.
- 5 The application can start.



When the equipment is connected to a main machine, it won't run until the external permission is given.

These terminals are shorted in our factory.

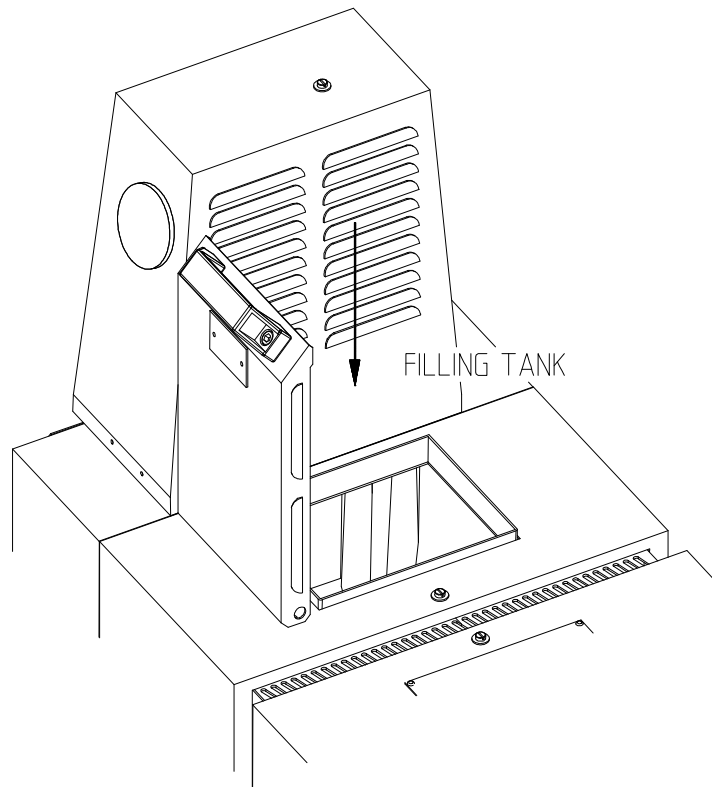
Filling the tank



Before filling the tank, put on goggles, gloves and long sleeves to avoid possible burns from splashes of hot adhesive.



- 1º Ensure that the tank is clean and free of foreign particles.
- 2º Fill the heated tank with the hot – melt material up to a maximum of 10mm below the edge of the tank.
- 3º Close the cover of the tank immediately after filling it.



Note: Never operate the applicator if the tank is empty. If the quantity of hot – melt material is very small the tank may overheat, leading to the carbonisation of the HOT-MELT material and the formation of deports inside the unit. This may lead to unnecessary downtimes later on.

5.3. SHUT-DOWNS:

There are two possible types of shut-down:

Pump shut-down:

If you wish the pump to shut down, set the pressure regulator selector to 0.

The temperature control will maintain the machine's temperature.



If the pump is to be shut down for some time, we recommend switching on the Low Maintenance function.(see point D of chapter 4.4.)

Total shut-down:

To shut down the entire machine, switch off at the main switch.



If the machine is to be shut down for some time, we recommend removing the drum and cleaning the equipment. Leave the melt plate in its lowest position.

CHAPTER 6 MAINTENANCE



WARNING: The maintenance operations described in this chapter should only be performed by qualified personnel understanding the processes and familiar with the safety measures involved.

6.1. INTRODUCTION:

This chapter contains the procedures involved in the maintenance of the follower plate. These maintenance procedures guarantee safe operations and increase the life of the follower plate. Before starting a maintenance operation, carefully read chapter 1. Safety.

First of all, make sure that you are duly protected and follow all pertinent safety measures:



- 1º Switch off the air at the mains.
- 2º Switch off the main switch.
- 3º Lock the main switch in place.
- 4º Make sure that the power is off.
- 5º Follow all applicable safety standards.

6.2. MAINTENANCE RECOMMENDATIONS:

The following table shows the frequency with which maintenance operations should be performed:

Frequency	Maintenance
Weekly (40 hours)	Clean the outer surface of the equipment. Use a liquid cleaner following the instructions of the adhesive that is going to be use.
	Inspect all the electric, pneumatic and hydraulic connections. Replace or repair when necessary
	Bleed the drain valve (Chapter 5.2).
When changing the type of hot melt	Change the air regulator filter (Chapter 8.2.). Clean the tank.
When necessary	Change the air regulator filter (Chapter 8.2.). Drain the pressure regulator filter (Chapter 6.3.).

Anyway, the frequency of this operations depends on the type of adhesive used and the environmental conditions where the equipment is placed.

6.3. MAINTENANCE PROCESSES:

6.3.1. Cleaning the equipment



Vacuum the dust or glue remains or remove with a soft cloth, especially from the distributor and bleed valves.

Clean the control panel periodically with a soft cloth. Do not use solvents, which could rust the controls.

Use a soft cloth to remove dust and glue remains from the cylinder, valve and exchange.



If you use a cleaning agent, make sure that it is compatible with the adhesive being employed.

When in doubt, contact the adhesive manufacturer.

6.3.2. Bleeding the air filter of the pressure regulator:

Press the button at the bottom of the air filter.

The pneumatic system will soil the filter; change whenever necessary.

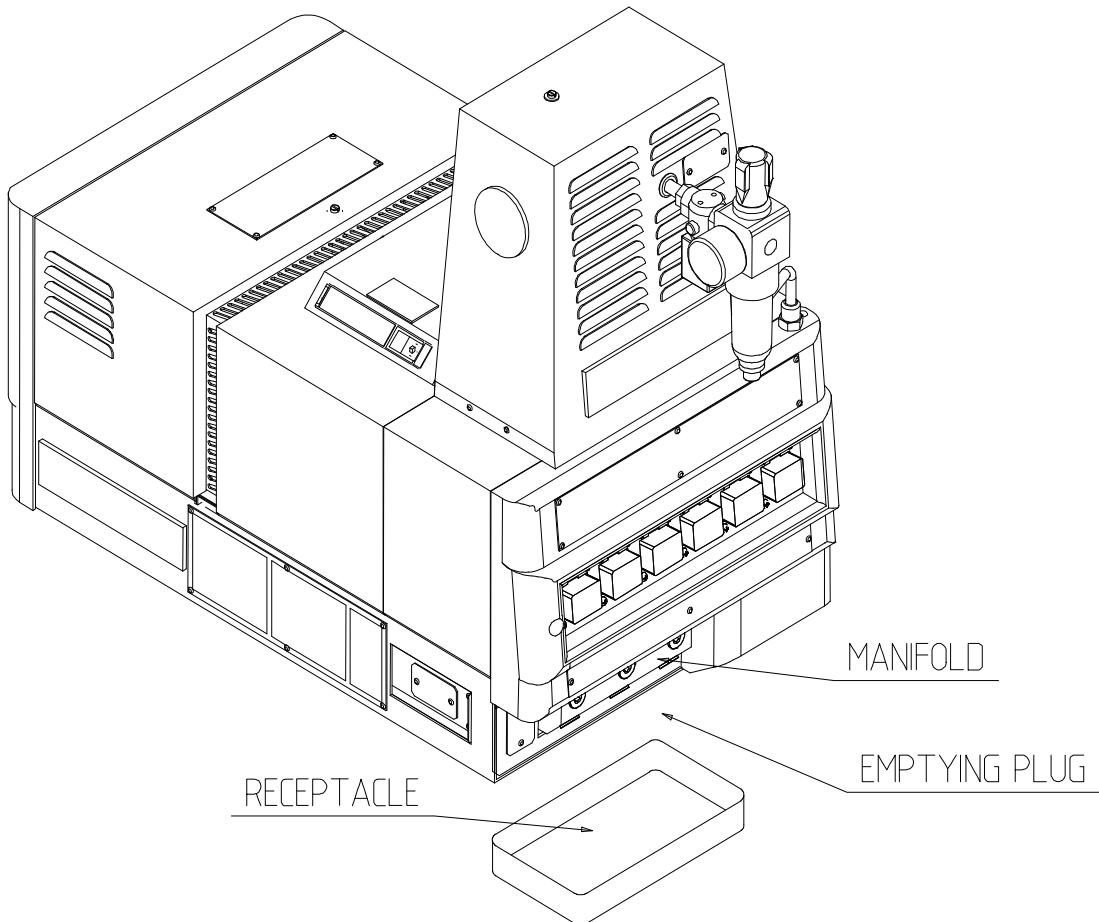


Draining the tank

Before draining the tank, put on goggles, gloves and long sleeves to avoid possible burns from splashes of hot adhesive.



- 1º Heat the tank until the adhesive has melted.
- 2º Reduce the air pressure to zero.
- 3º Eliminate pressure from the system by firing the manual guns or opening the bleed valve.
- 4º Place a suitable receptacle below the manifold.
- 5º Unscrew the draining plug of the manifold with an 8mm Allen key and let the tank empty.
- 6º Once the tank is empty, we recommend changing the filter and the seals of the disassembled parts.





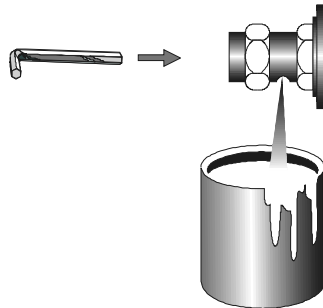
Bleed process:

The bleed process (filter draining) is made in order to remove any foreign bodies that may have been retained in the filter screen.

Before purging the filter put on glasses, gloves and long sleeves to avoid burns from the hot melt adhesive.



- 1º Preheat tank until adhesive is molten.
- 2º Reduce the air pressure to Zero.
- 3º Place a container below before disassembling.
- 4º Open drain valve with a 5mm. allen key.



Advice: Clean the filter at least once a month or every two hundred hours of working.

- 5º Increase the air pressure until the material flows from the drain valve.
 - 6º When the adhesive is clear of foreign bodies close drain valve
- Set the system to the operating pressure.

6.3.3. Bleeding the air filter of the pressure regulator:

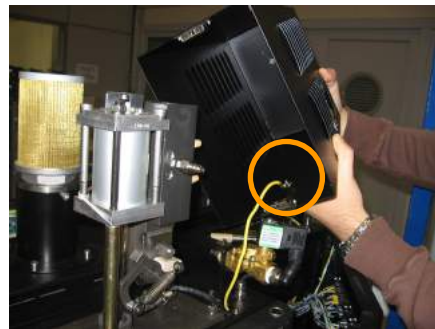


In order to place and to fix the pump housing it is necessary to follow these steps:

1. Open the back door.



2. Place the security cable in the fast-on terminal that is in its interior.



3. Place the pump housing, **without making** the connection of the lateral fixations.



4. To make sure that the security cable is in the interior of the pump housing, pulling the security cable through the opening that is behind the back door.



5. Fix the housing to the lateral fixations and screw the superior fixation of the same one.



6. Finally, close the back door.



CHAPTER 7 EQUIPMENT REPAIR GUIDE



WARNING: The maintenance operations described in this chapter should only be performed by qualified personnel understanding the processes and familiar with the safety measures involved.

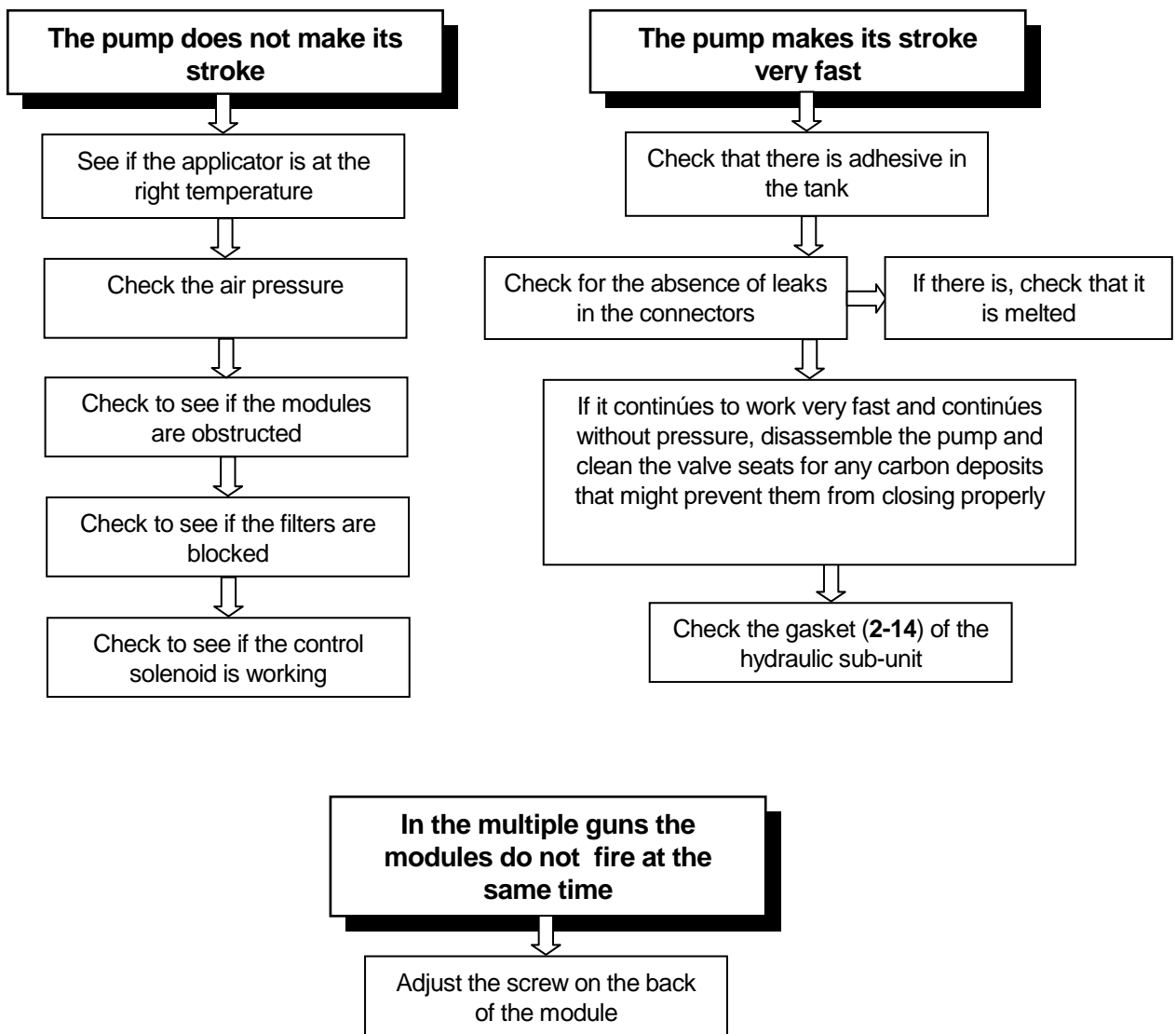
7.1. INTRODUCTION:

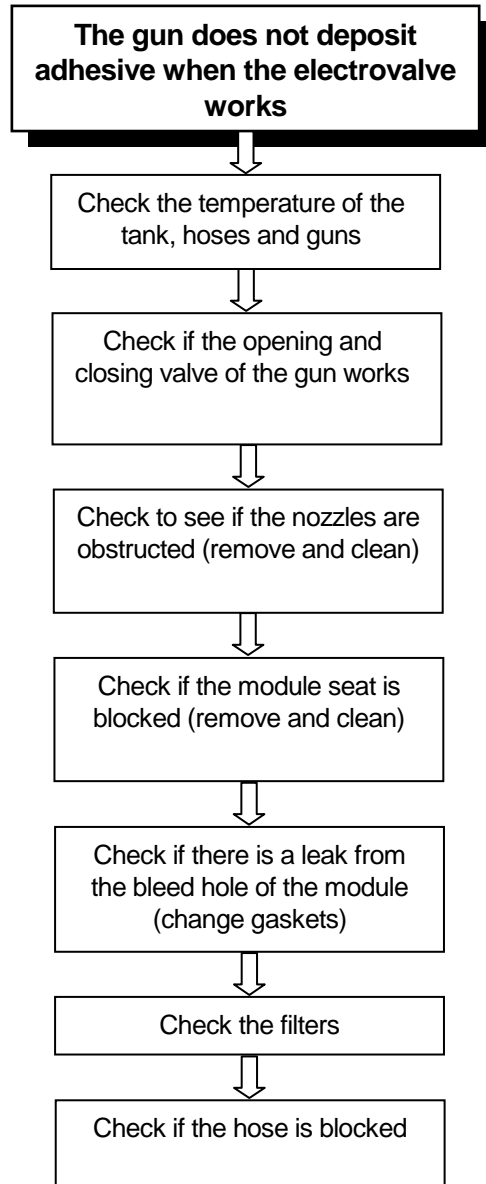
This chapter refers to the most common faults in your equipment.

Breakdowns occur when the flow of glue is reduced or stops, or the alert system informs of a fault. Try to solve the problem with the help of this manual.

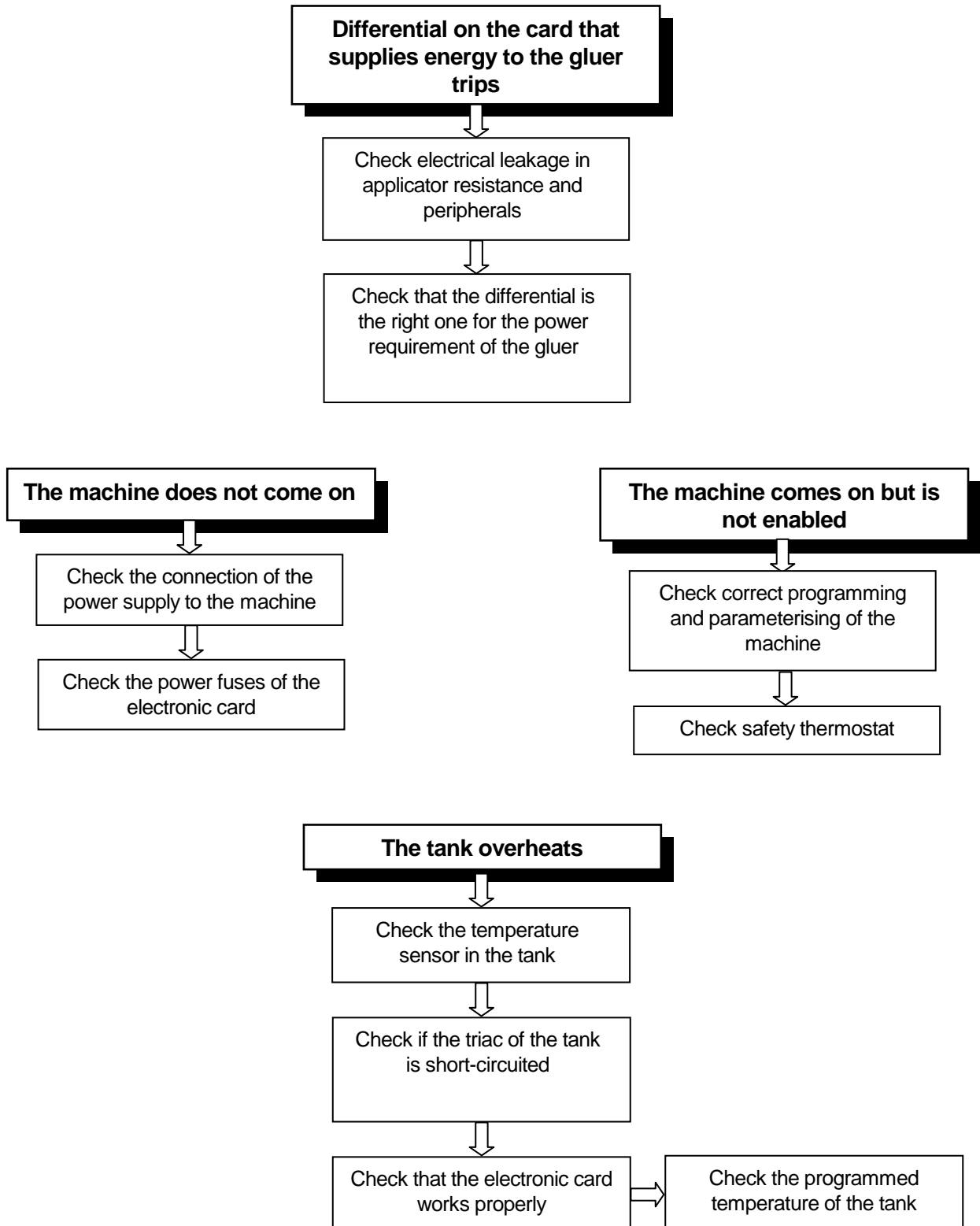
If the problem cannot be solved with the information provided here, contact your Melton representative.

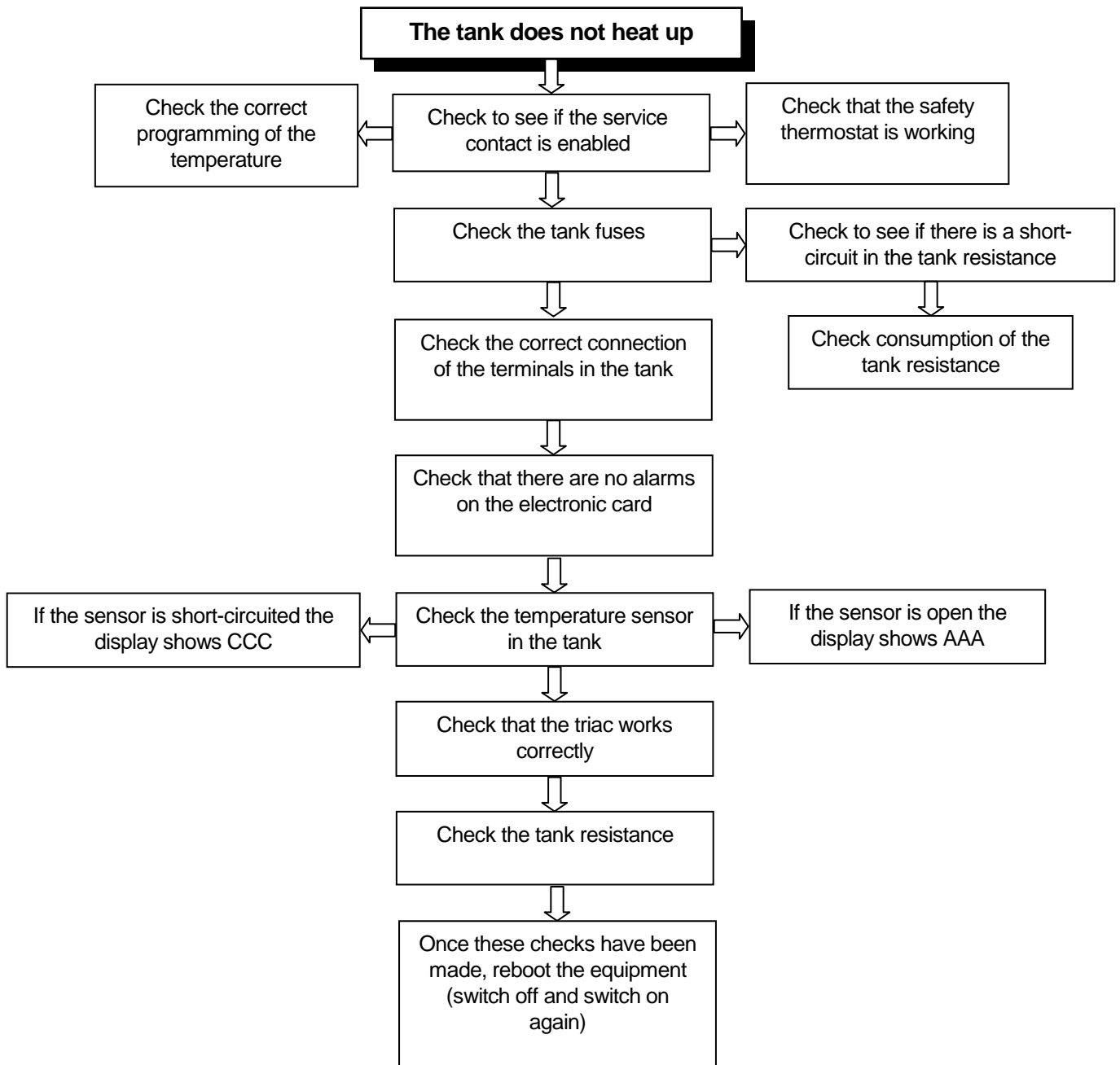
7.2. MECHANICAL FAULTS:

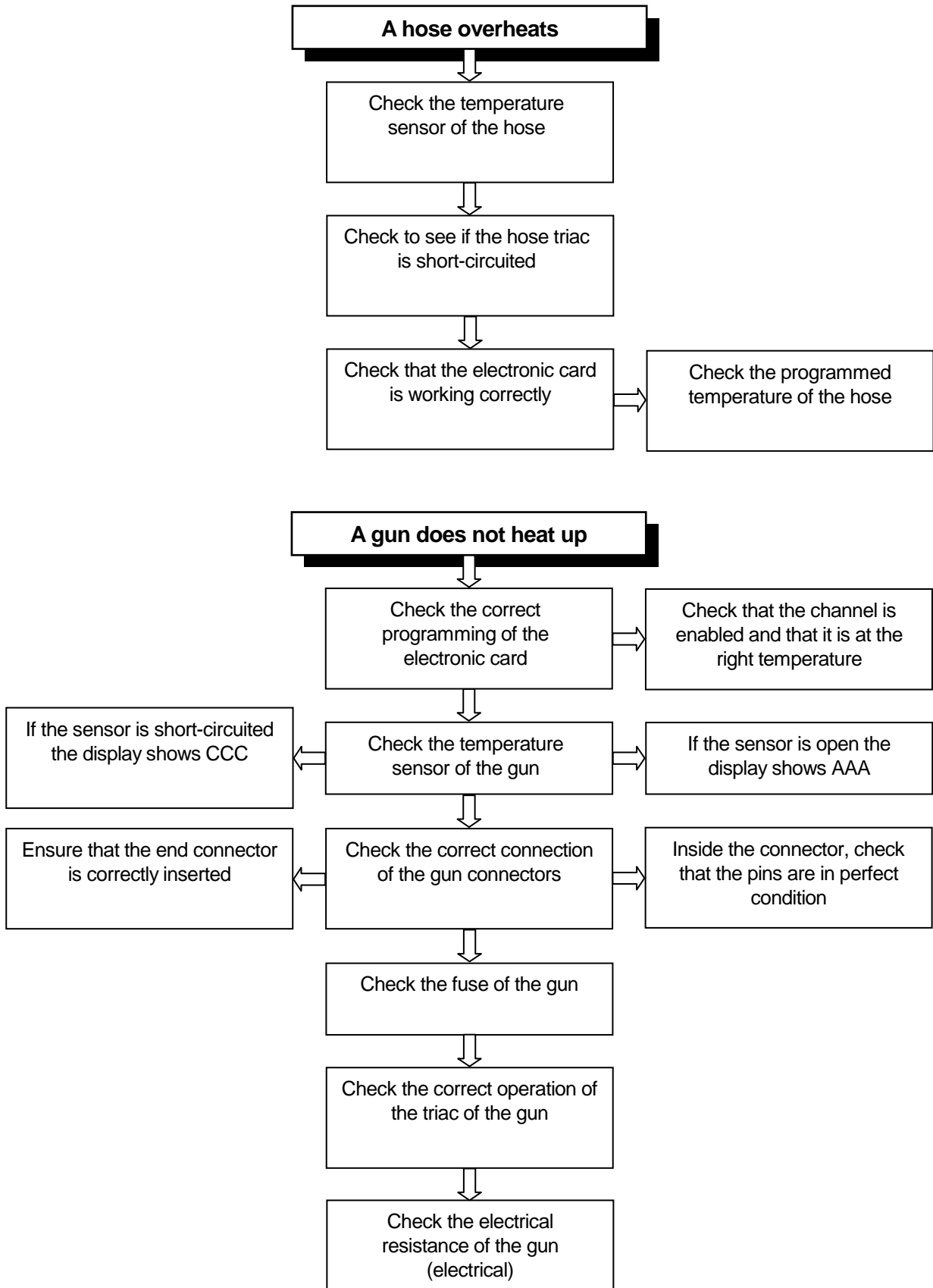


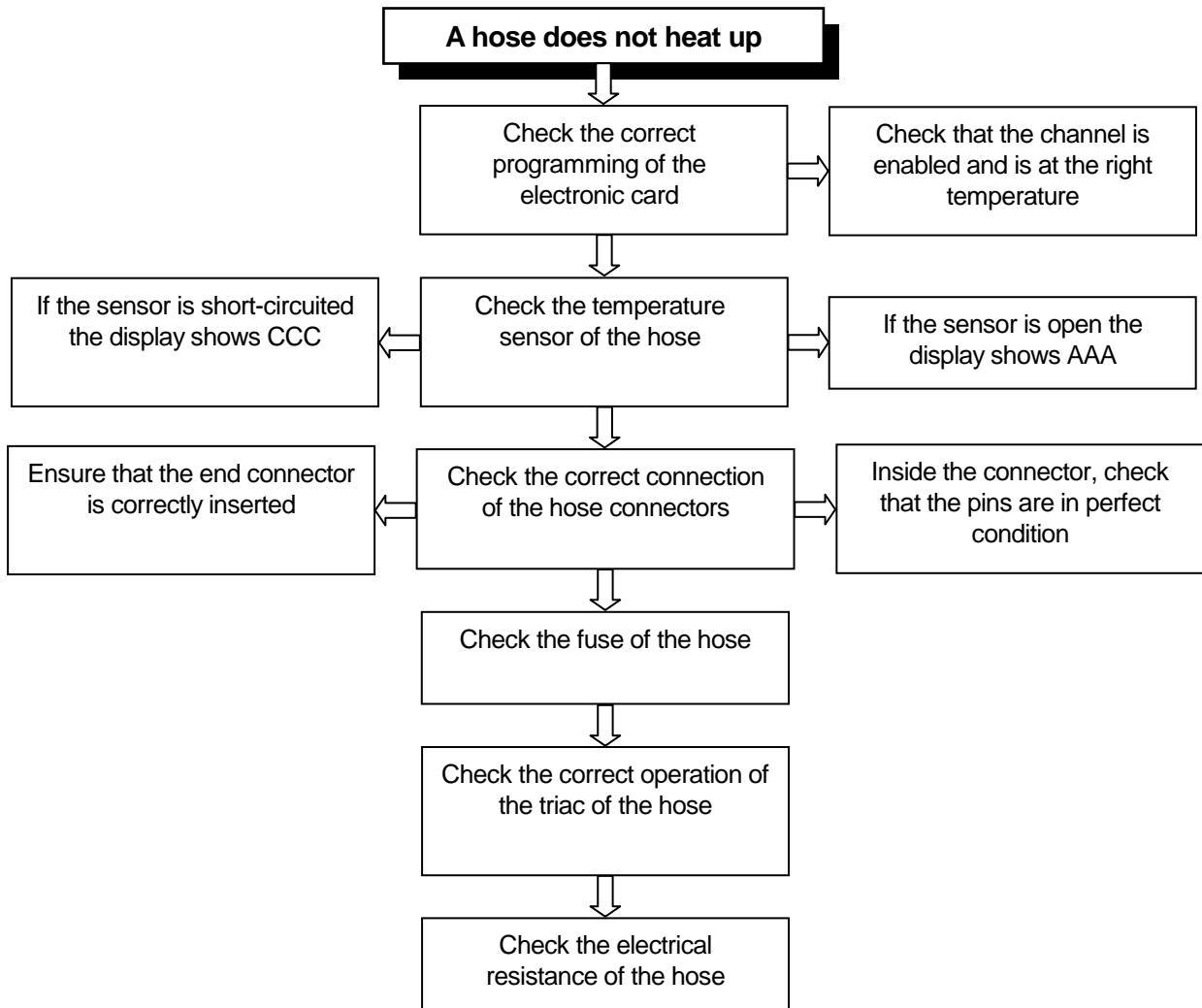


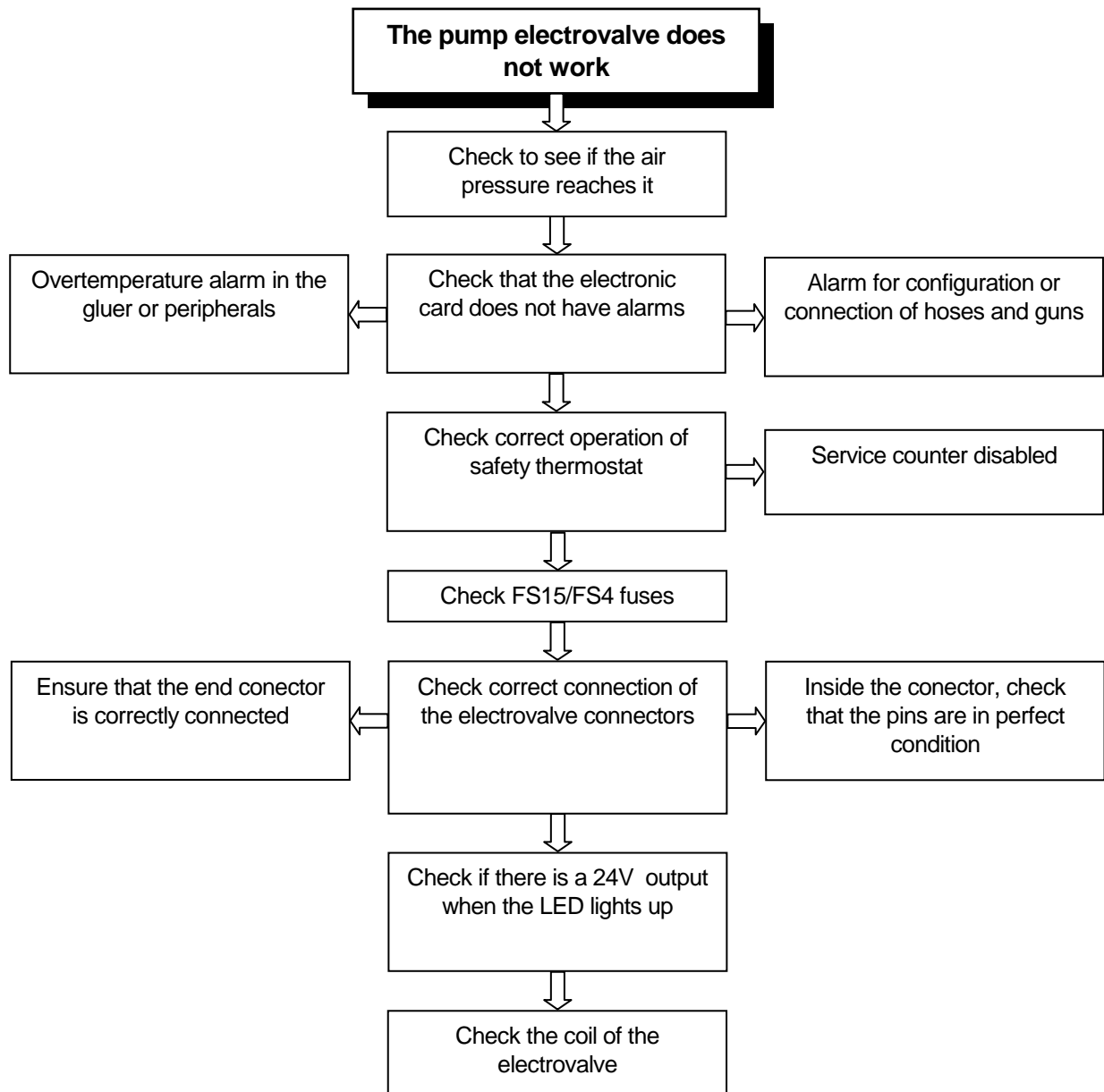
7.3. ELECTRICAL FAULTS:

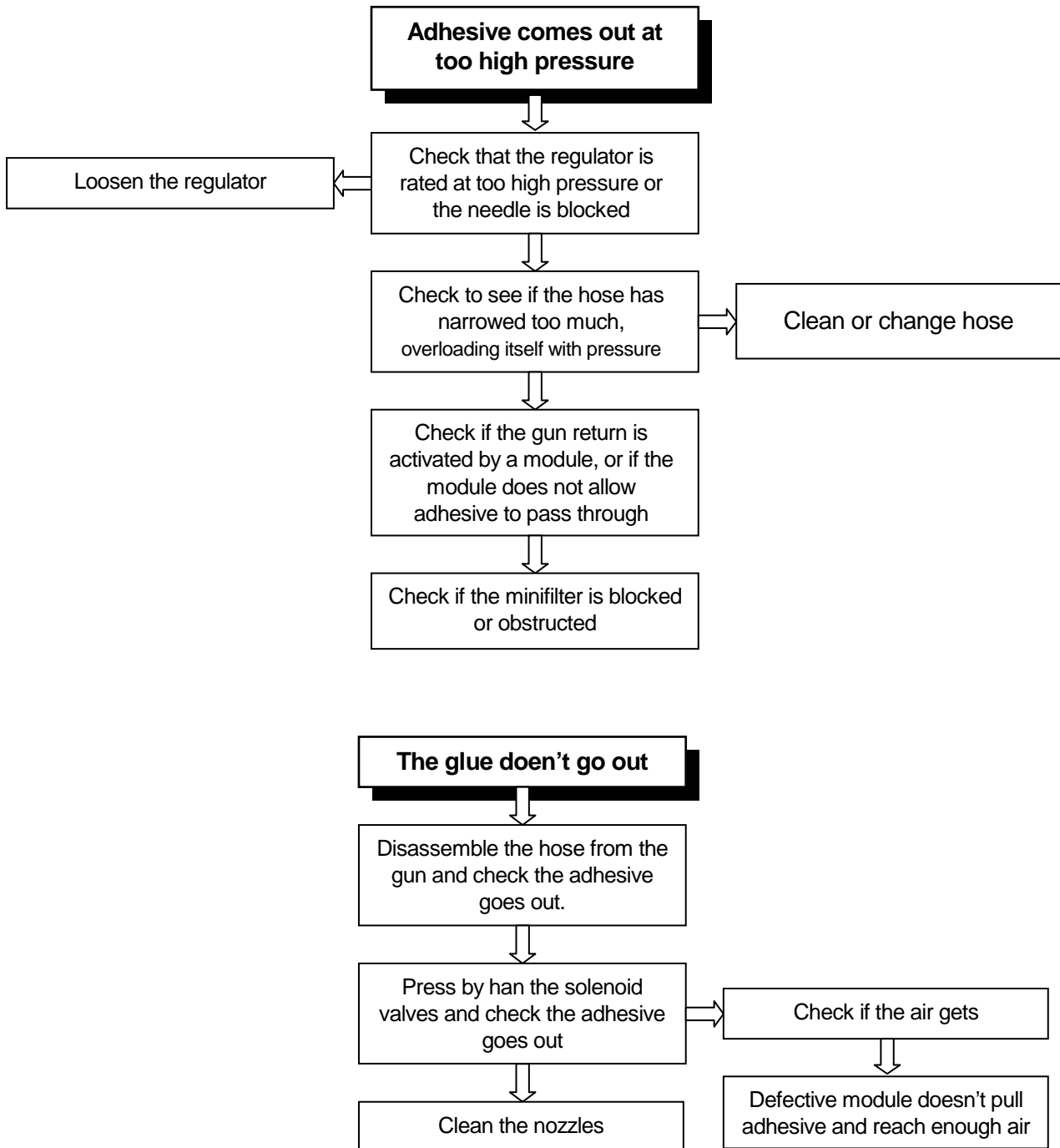


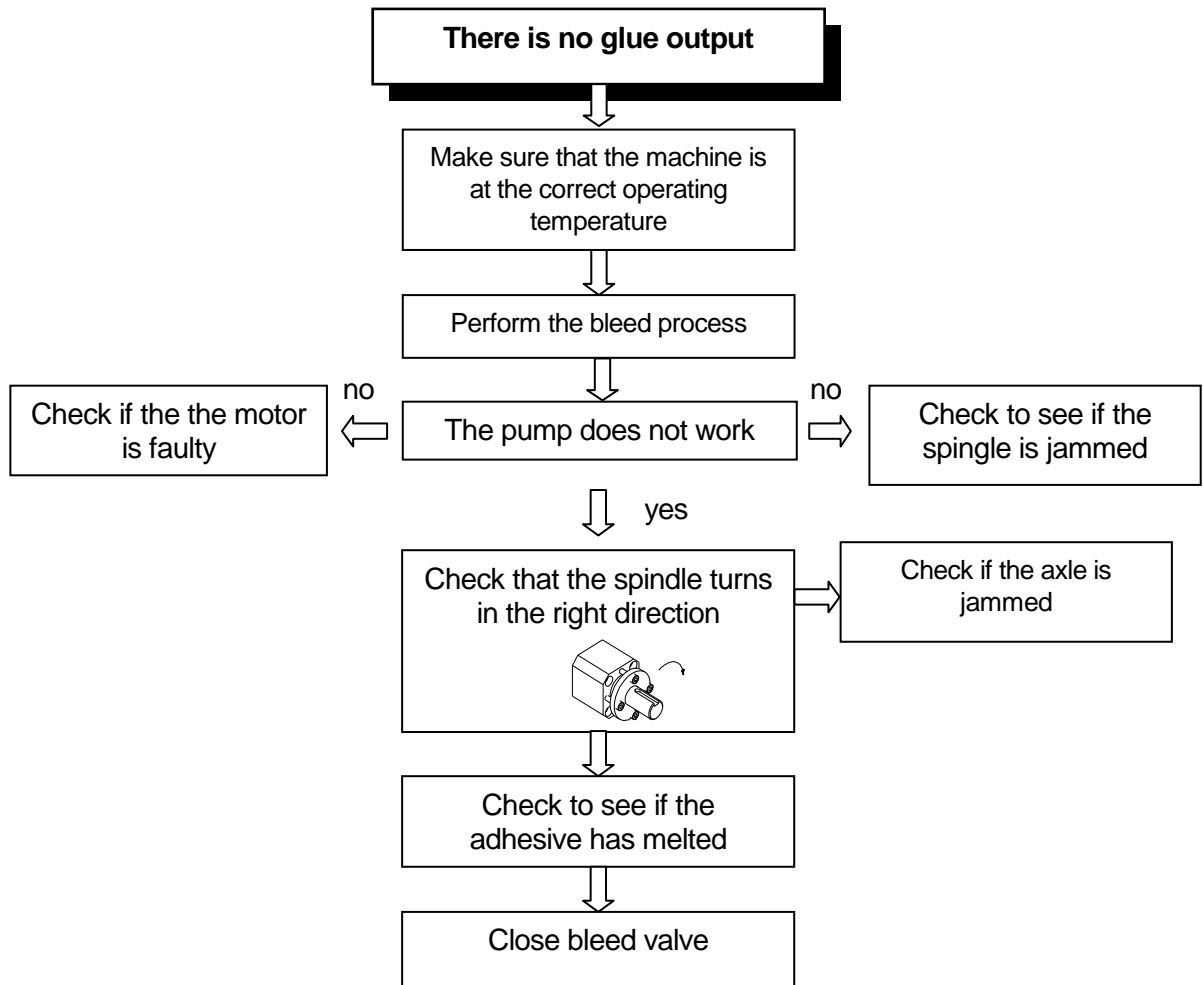


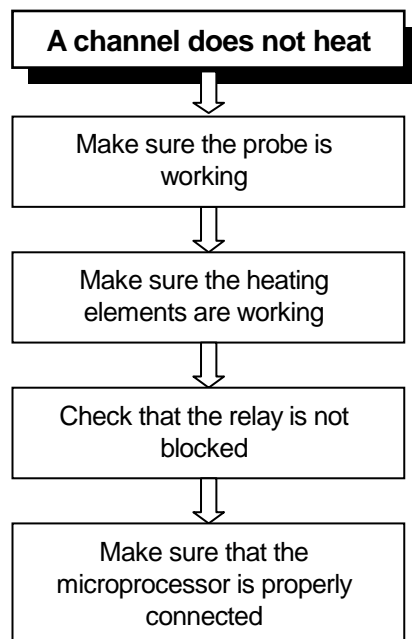
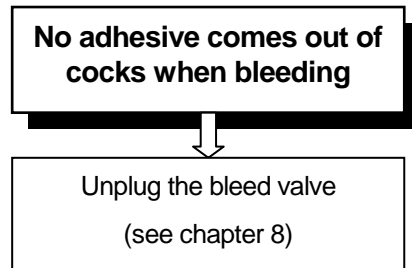
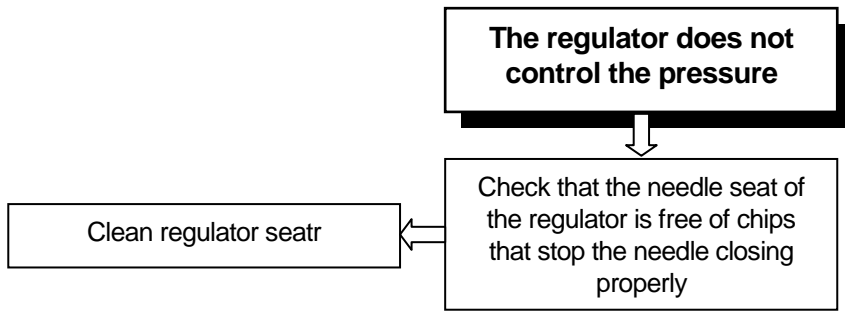


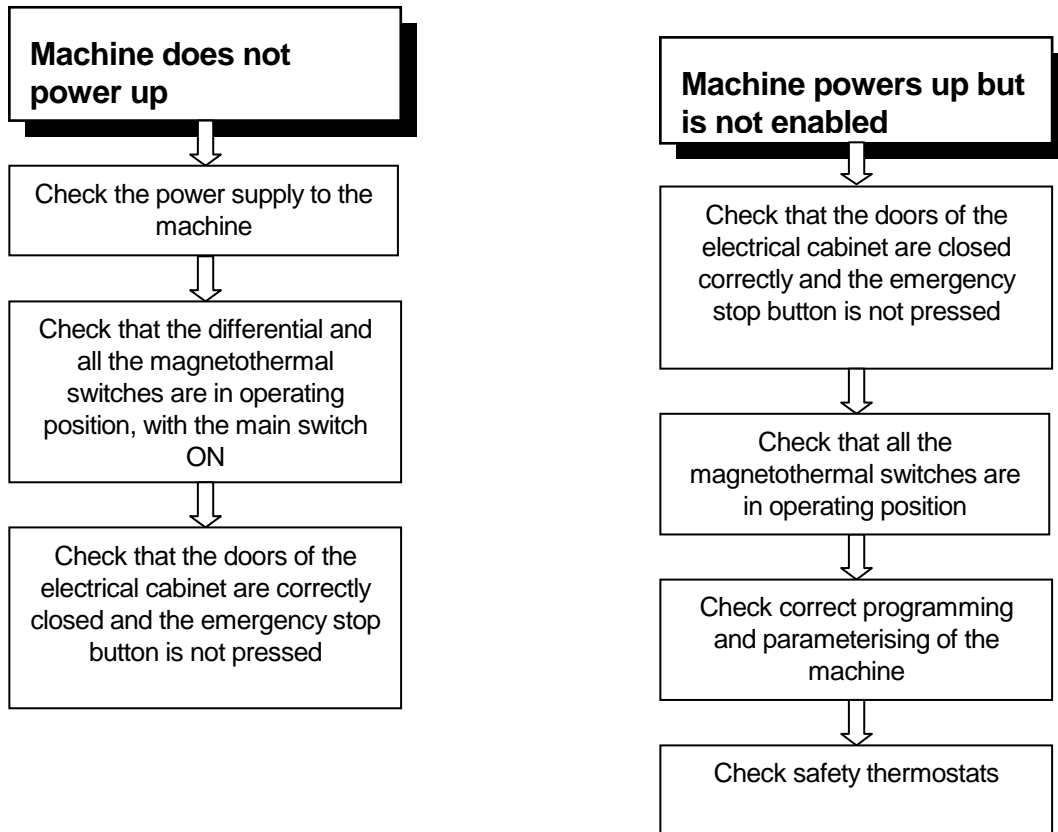


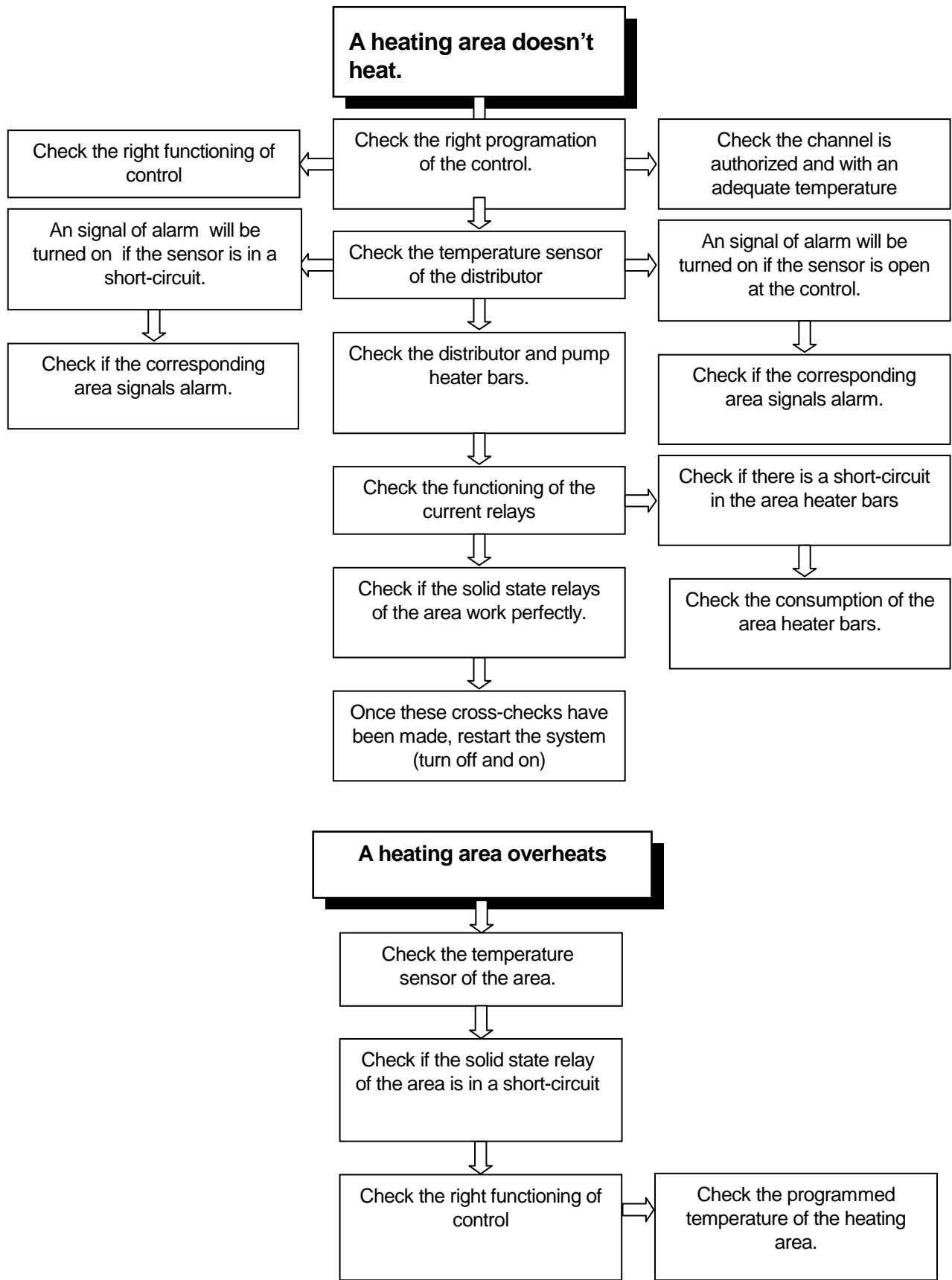


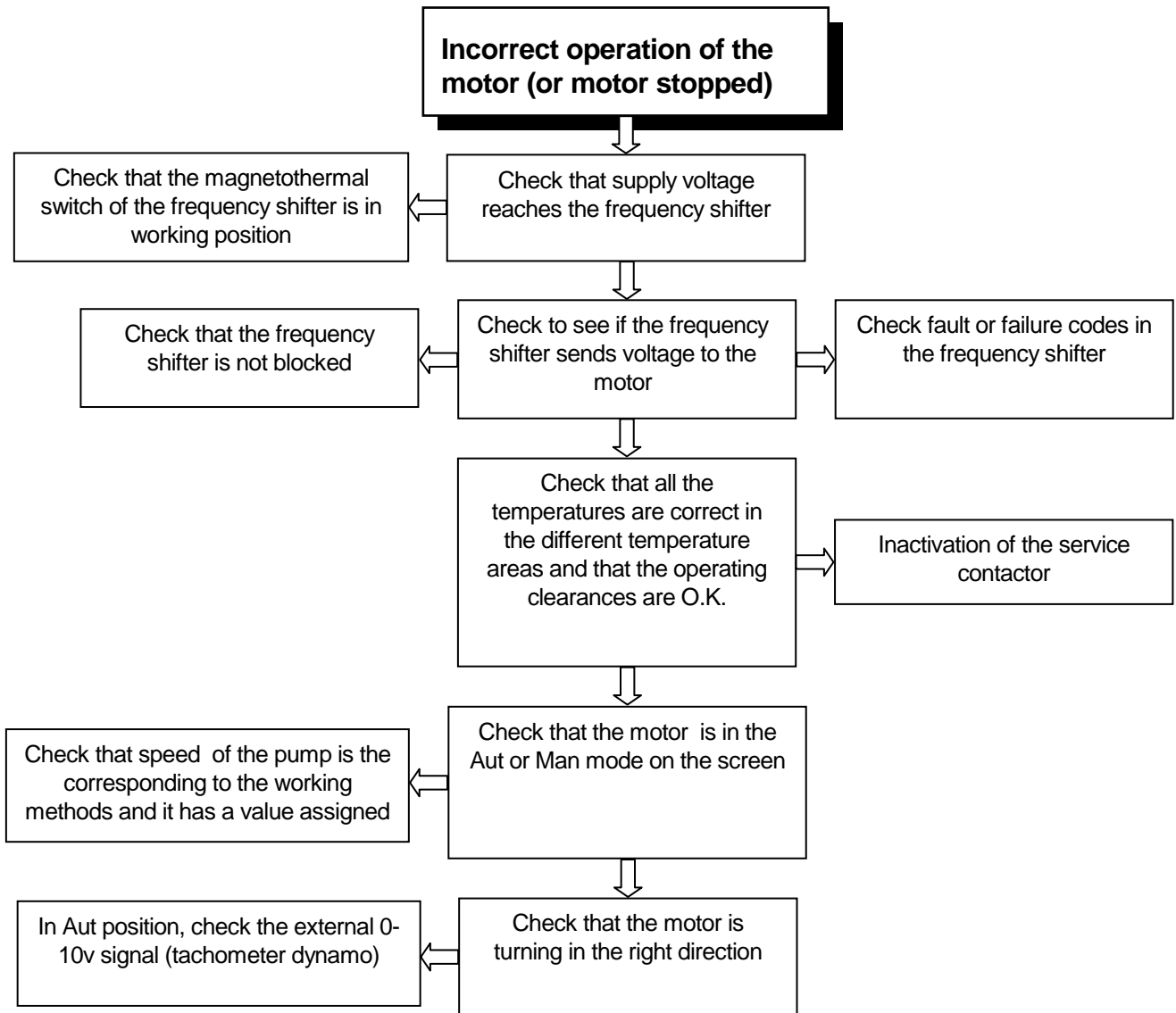


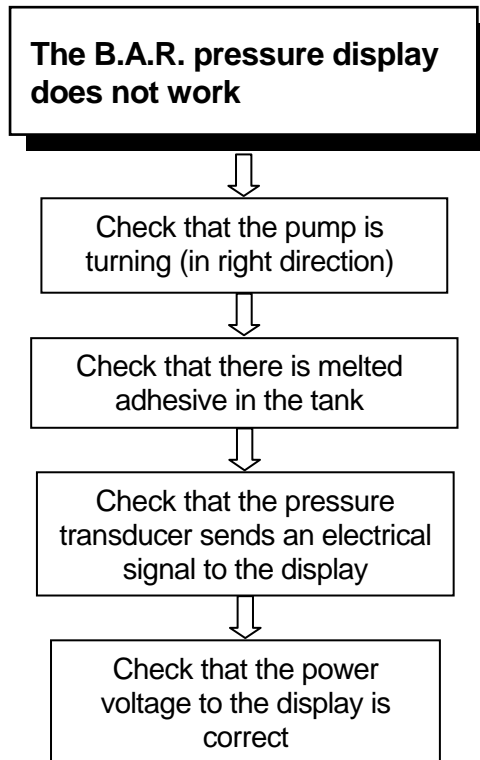


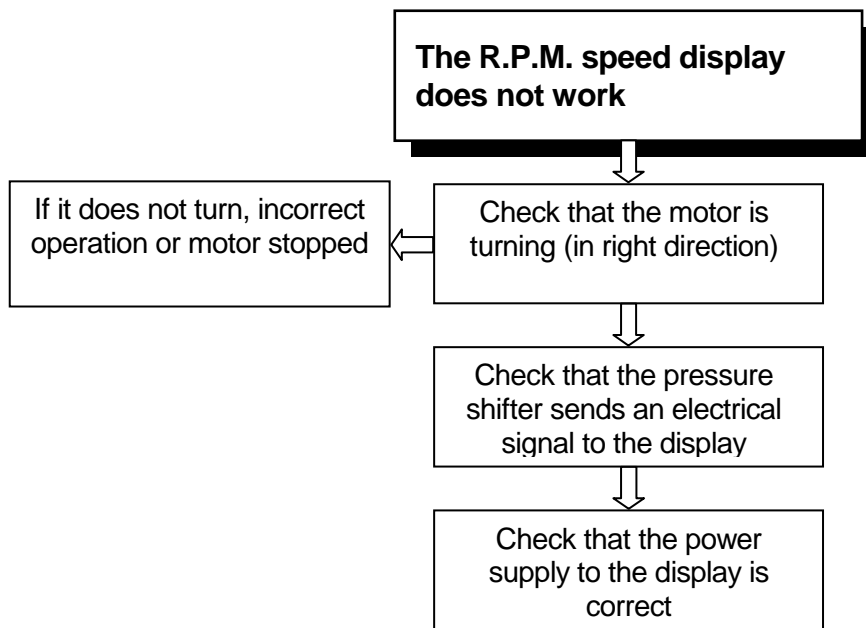




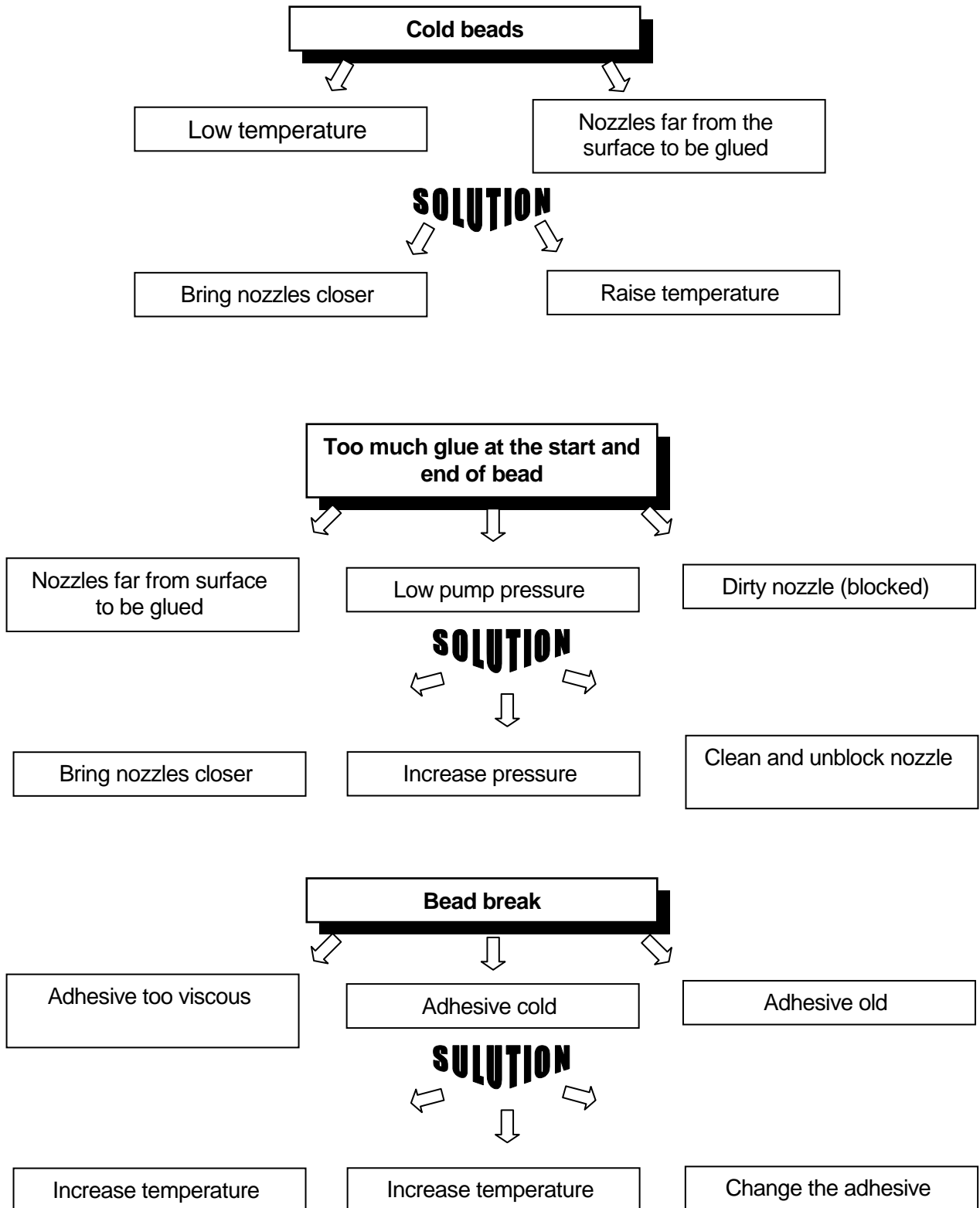


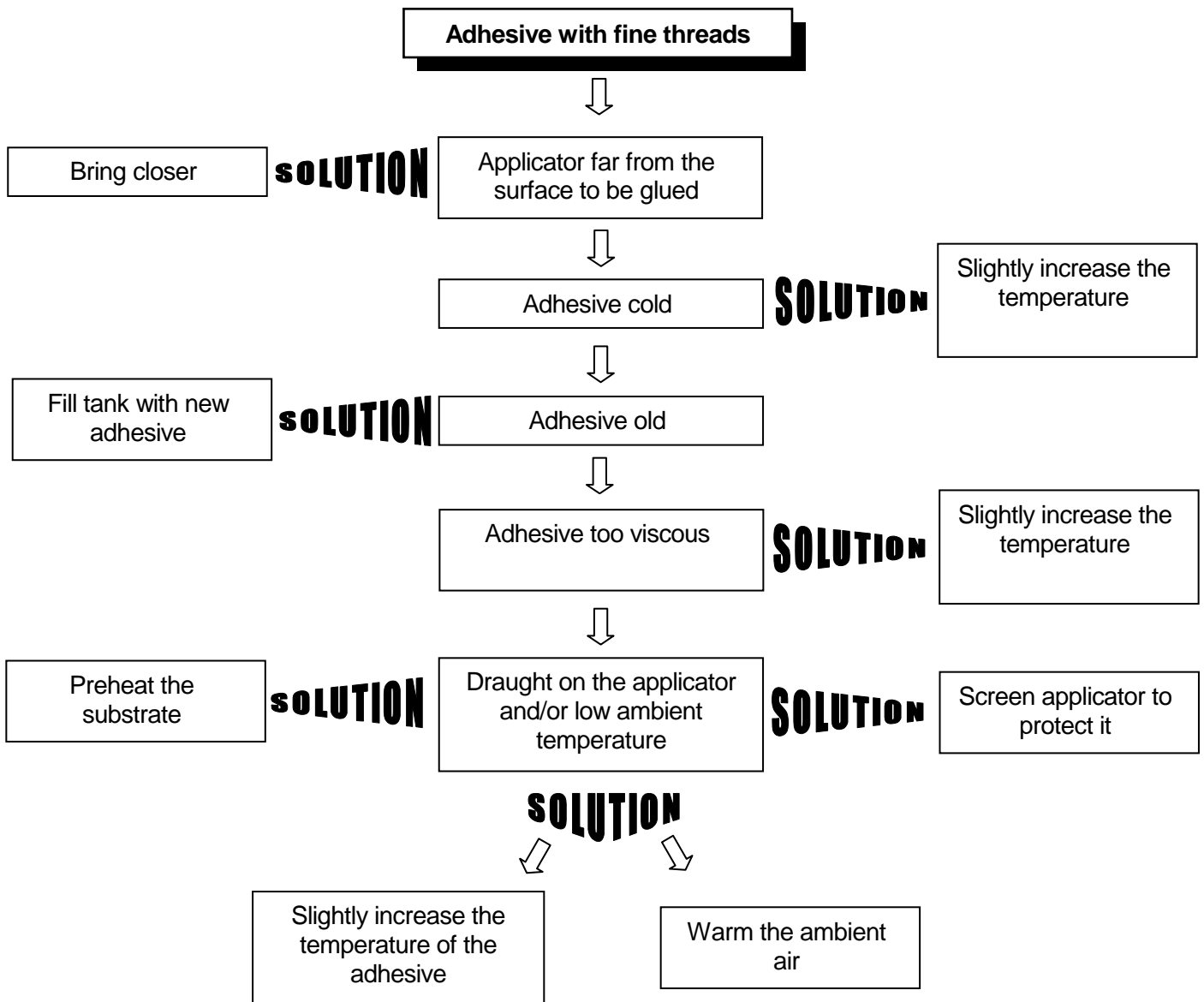






7.4. ADHESIVE APPLICATION PROBLEMS:





Drops of adhesive in the applicator nozzle

Hole blocked and/or seat worn or dirty

Opening of obturators not correctly adjusted

Incorrect air pressure to obturator drive valves

SOLUTION

Clean and/or replace dirty and/or worn parts

Regulate the opening of the obturators

Adjust air pressure

Frequent obstruction of nozzles

Rinse the system

SOLUTION

Increase in solids

SOLUTION

Clean filters

SOLUTION

Change type of adhesive

Reduce temperature

Too much adhesive flow

Excessive pump speed

Flow control valve too open

Nozzle outlet too large

SOLUTIONS

Reduce pump speed or open regulator

Change to a smaller nozzle

Close by twisting several times

Rebounds or splashes of adhesive from the substrate



Adhesive temperature too high

SOLUTION

Reduce tank temperature



Reduce air pressure of the pump

SOLUTION

Air pressure in the pump too high



Reduce air pressure of the pump

SOLUTION

Viscosity of adhesives too low

SOLUTION

Use nozzle of smaller calibre

SOLUTION



Reduce temperature



Use adhesive with higher viscosity

Adhesive smoking



Applicator far from the surface to be glued

SOLUTION

Reduce temperature



Adhesive cold

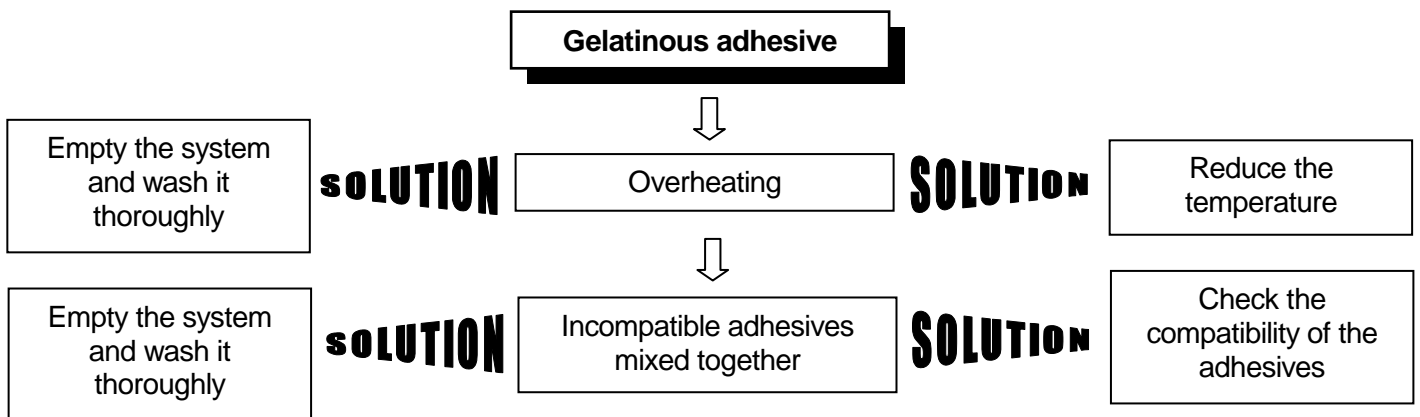
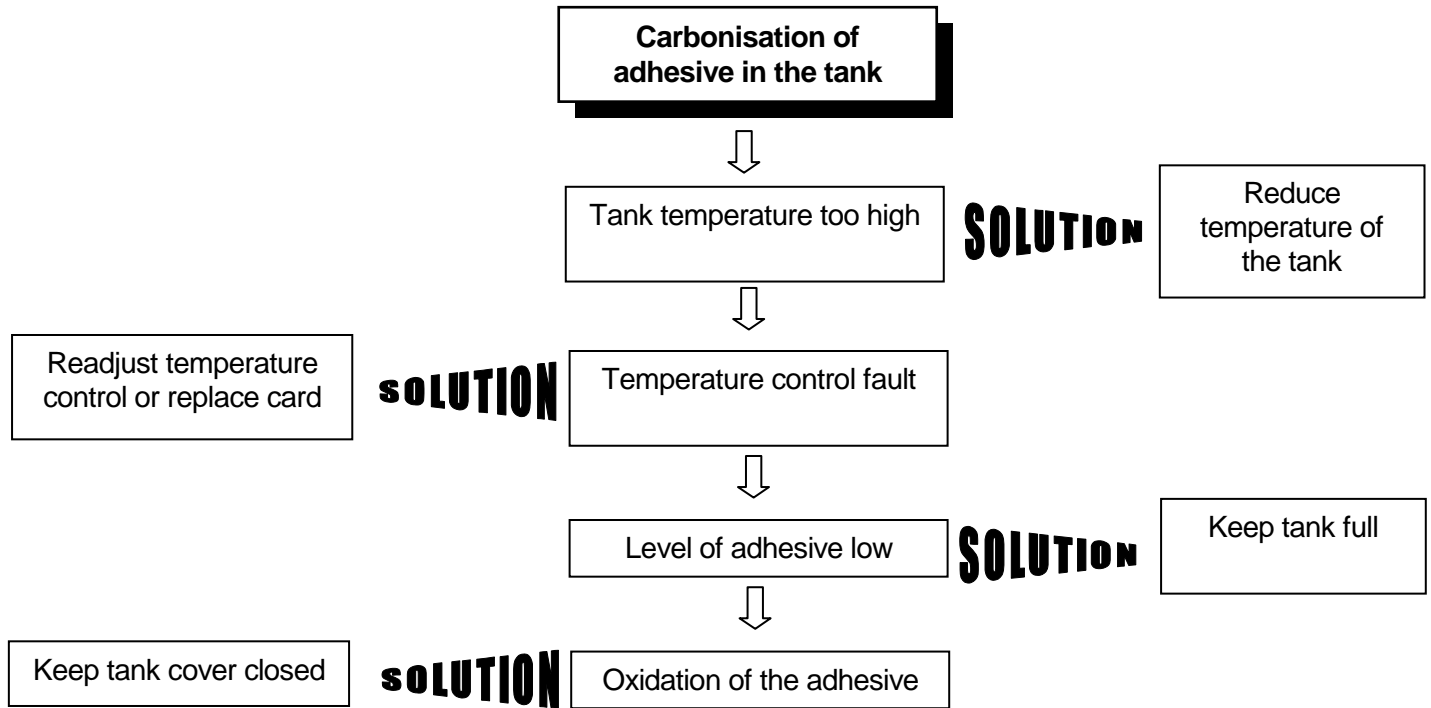
SOLUTION

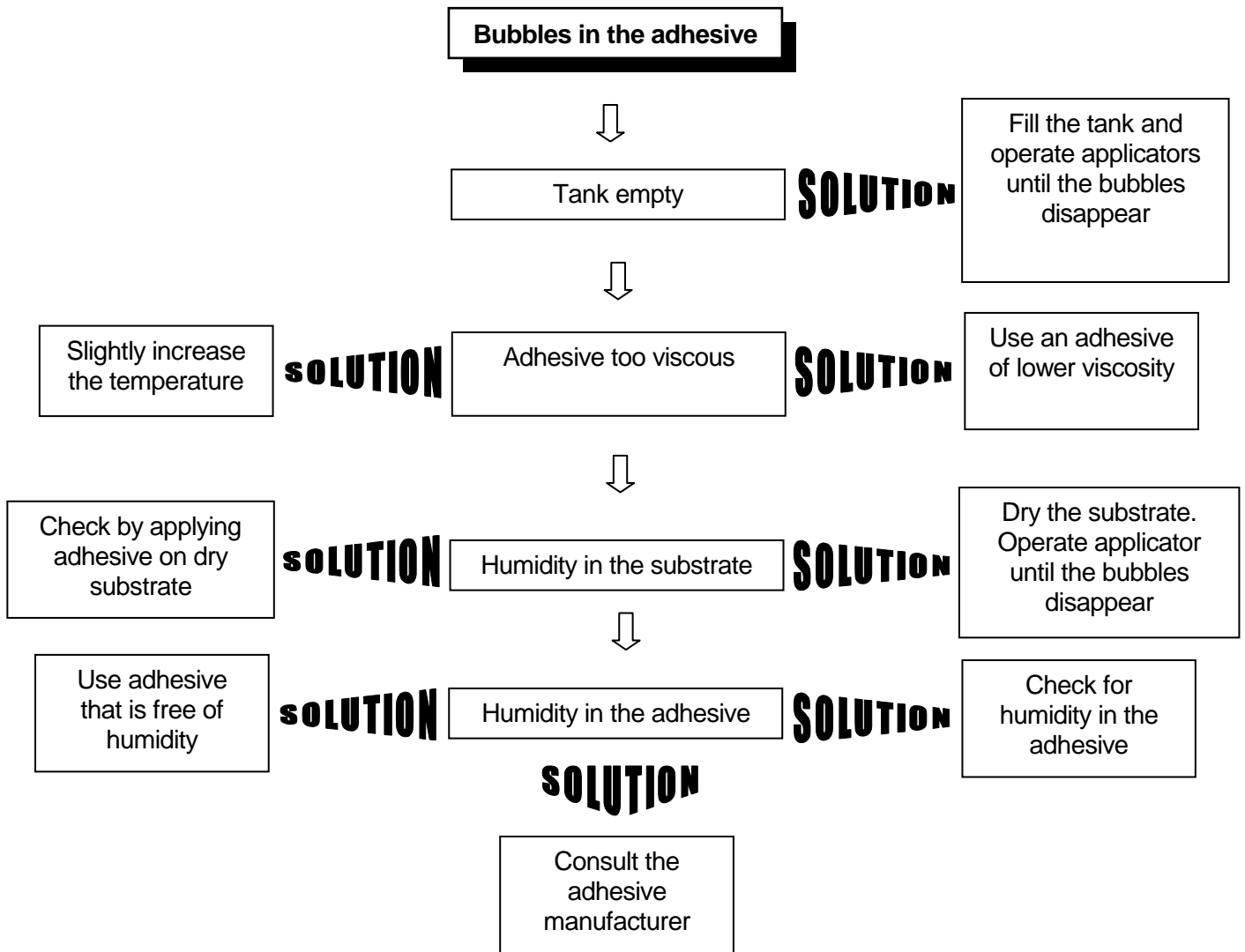


Use more stable adhesive



Keep the tank cover closed





CHAPTER 8 EQUIPMENT REPAIR GUIDE



WARNING: The maintenance operations described in this chapter should only be performed by qualified personnel understanding the processes and familiar with the safety measures involved.

8.1. INTRODUCTION:



This chapter describes the procedures to remove and change some components. These procedures should be followed during maintenance or repair operations.

First of all, make sure that you are duly protected and follow all safety measures:

- 1º Switch off the air at the mains.
- 2º Switch off the main switch.
- 3º Lock the main switch in place.
- 4º Make sure the electricity is off.
- 5º Follow applicable safety and health standards.

Chapter 9 includes lists of the parts to which the procedures refer.

8.2. CHANGING THE FILTER:



Wear long sleeves and protective gloves and use a face shield, to prevent burns from the hot glue.

- 1º To change the filter the applicator should be at working temperature.
- 2º Reduce the air pressure in the applicator to "0".
- 3º Place a receptacle below to collect the adhesive that is in the manifold.
- 4º Open the draining valve with a screwdriver, to eliminate residual pressure.
- 5º Open the filter plug screw with a screwdriver and take out the filter unit.
- 6º Loosen the filter screen screw with an Allen key and the filter screen, and the filter mount will be freed.

- 7° Once the filter has been disassembled, we recommend changing the viton o'rings and the filter screen.
- 8° Assemble the viton o'rings on the filter plug and the filter screen and introduce the filter mount of the filter. Screw the unit into the filter unit.
- 9° Introduce the filter in the manifold and screw it in with a screwdriver.
- 10° Close the draining valve with a screwdriver.
- 11° Put in the right working pressure.

8.3. REPAIRING THE MAINFOLD:

The manifold is the element that distributes the Hot – Melt, after it has been filtered, to the hoses and guns.

Made of aluminium, it is assembled at the bottom of the tank so that the tank resistances heat it indirectly.

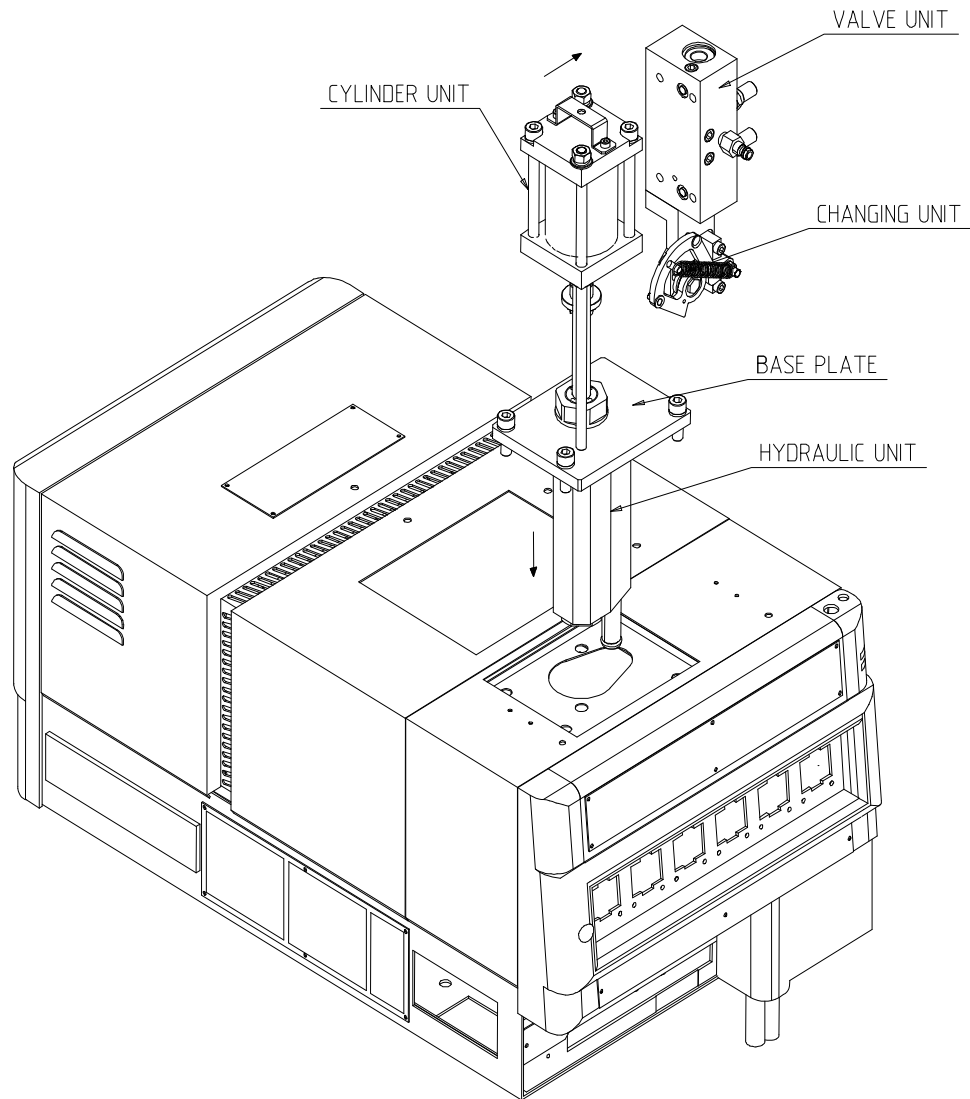
The manifold has six outlet holes to connect the Hot – Melt hoses, three at the rear and another three at the front.



The manifold should not be disassembled, this operation should only be done if there is a leak of Hot- Melt between the tank and the distributor.

8.4. REPAIRING THE PNEUMATIC PUMP UNIT:

The pump unit consists of a valve, an exchange, a pneumatic cylinder and a double-acting hydraulic pump equipped with a pressure compensator to avoid a drop in flow rate that occurs in changing the direction of the pump, and to enable the maximum uniformity in the outflow of Hot-Melt.



Before disassembling the hydraulic unit on goggles, gloves and long sleeves to avoid possible burns from splashes of hot adhesive.

- 1º Heat the tank until the adhesive has melted.
- 2º Reduce the air pressure to zero.



- 3° Eliminate pressure from the system by firing the guns manually or opening the draining valve.
- 4° Disconnect the power supply.
- 5° Disconnect the electrical plug of the solenoid valve and remove the regulator assembly by turning it on the anticlockwise direction.
- 6° Remove the M4x10 screw and lift the pump casing.
- 7° Loosen the three M8 hex screws that hold the pump in place against the tank.
- 8° Turn the pump slightly and pull it, this will release the discharge pipe of the tank.
- 9° Put the pump on a clean surface where it can be disassembled.

Hydraulic sub-unit:

- 10° Loosen the four Allen screws of the valve unit and separate the unit from the cylinder unit.
- 11° Separate the pump from the cylinder by loosening the M8 nuts holding it to the base plate of the pump.
- 12° Loosen the shaft seal support with the 19xØ3 for the front holes.
- 13° Loosen the pump holding screw of the pump, take the pumpshaft out (taking care not to scratch the inside of the housing or the shaft), and change the viton o'ring if necessary.
- 14° Loosen the compression valve, the ball and the spring will be freed.
- 15° Take out the spring, the compensating valve shaft and the guide, loosening the plug.
- 16° Loosen the ball valve. The ball, the spring and the cage ball will be freed.
- 17° Inspect the parts to see if they are worn or damaged. Replace them if necessary.
- 18° Put all the hydraulic components in a temperature-regulated container with type C solvent
- 19° The solvent should heat them to a temperature above the melting point of the adhesive but below the flash point.
- 20° Carefully clean all the components.

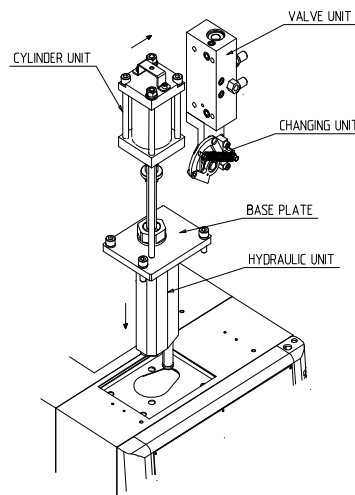


Carefully follow the assembly procedure instructions.

The positioning and the alignment of some elements are critical for the pump to work perfectly.

- 1º Introduce the compensating valve shaft, the spring and the guide in the pump body and screw the plug of the compensating valve.
- 2º Place the ball, spring and cageball in the ball valve and screw it to the pump body.
- 3º Assemble the ball and the spring on the pump shaft and screw it with the ball mount.
- 4º Screw the shaft seal support and the pump shaft seal to the pump holding screw. Do not tighten the nut until it is in the pump shaft. Assemble the parts on the pump shaft.
- 5º Put the pump mounting in the pump. When you introduce the pump shaft unit in the pump body, grease the viton o'ring to avoid damage to the viton o'ring from the thread of the pump casing.

Note: The base plate should be inserted in its correct position.



- 6º Assemble the cylinder and the pump unit, insert the spacers and cylinder bolt and screw them into the nuts.
- 7º Position the valve unit and screw it with the four Allen screws. Take care that the viton o'ring do not fall out.
- 8º Change the viton O'ring of the crossover tube.
- 9º Put the pump back in the tank while it is hot and push it into place, taking care not to damage the o'ring of the crossover tube. Tighten with the screws.

10° Put the pump casing back on and tighten it with its screw.

11° Insert the air tube of the regulator assembly in the hole of the pump cover and fit it by turning the assembly on the clockwise direction.

Note : the pump will move continuously until it is full.

12° In the event of the pump not working correctly, carry out the following checks.

Is the air pipe connected?
Does the electrovalve work?
Is the equipment at the right temperature?
It is working at the right pressure?
Are the filters clean?
Are the modules blocked?
Is the shaft correctly aligned?

Cylinder unit:

1° Reduce the air pressure to zero

2° Eliminate pressure from the system by firing the manual guns or opening the draining valve.

3° Disconnect the power supply.

4° Disconnect the electrical plug of the solenoid valve and remove the regulator assembly by turning it on the anticlockwise direction.

5° Remove the M4x10 screw and lift the pump casing.

6° Loosen the allen screw of the valve unit and separate it from the cylinder unit.

7° Disassemble the upper cylinder head by loosening the M8 nuts and the M8 Allen screws.

8° Hold the cylinder shaft with a no. 8 spanner and loosen the nut. Remove the cylinder and the piston.

9° Loosen the screws and remove the shaft seal mount.

10° Once the cylinder has been disassembled, we recommend changing the o'rings.

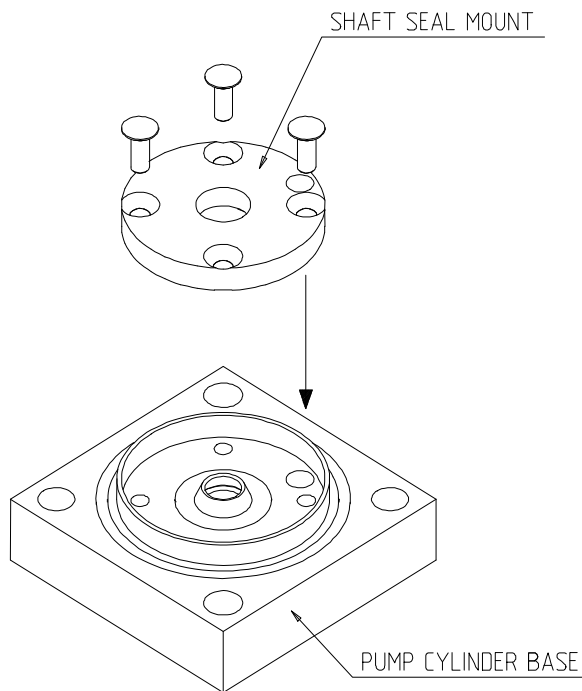


Follow the assembly instructions carefully.

The positioning and alignment of some elements are critical for the perfect operation of the pump.

1º Assemble the shaft seal and the shaft seal mount on the cylinder shaft. Screw the parts with the screws.

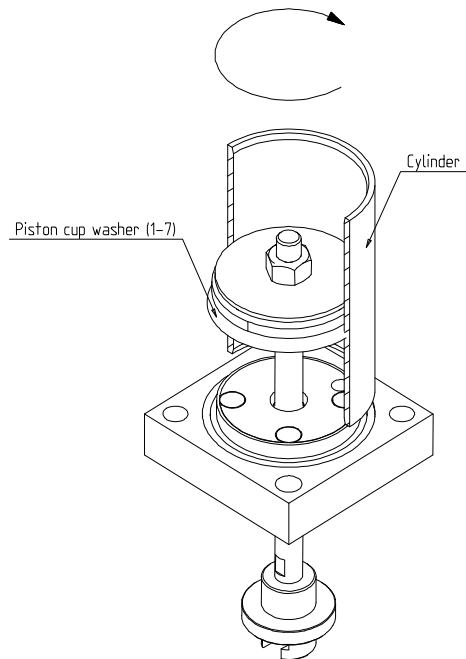
Note : The borehole of the shaft seal mount should coincide the borehole of the pump cylinder base.



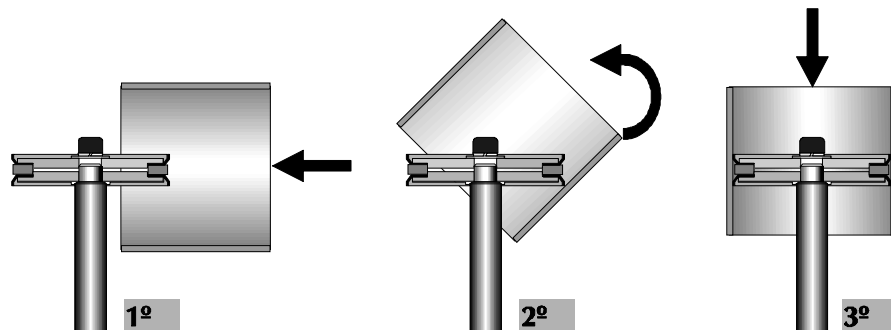
2º Before continuing with the assembly of the cylinder the two piston cup washer should be set up separately.

Setting up the piston cup washer:

Note: Assemble the washer as per the drawing and turn the cylinder shaft with oscillating movements so that the curved lip is facing downwards.



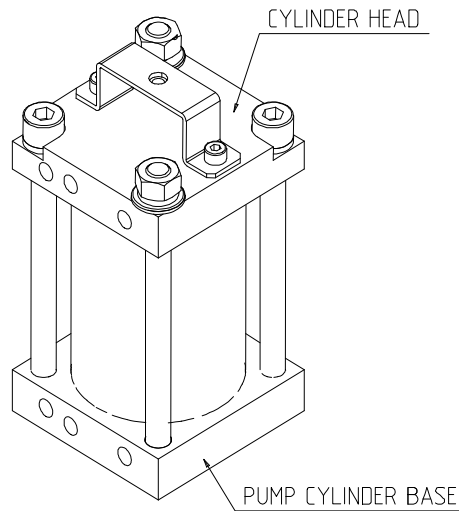
3° Place the piston unit on the cylinder shaft. Hold the cylinder shaft with a no. 8 spanner and place the nut and tighten it.



4° Assemble the cylinder taking care not to damage the washer.

5° Place the cylinder head and tighten it with the allen screw.

Note : The boreholes of the cylinder head and pump cylinder base should be assembled in the correct position.



- 6° Assemble the valve unit to the cylinder and screw them together with the allen screws.
- 7° Place the pump frame in position and tighten it with its screw.
- 8° Insert the air tube of the regulator assembly in the hole of the pump cover and fit it by turning the assembly on the clockwise direction.

Note: The pump will move continuously until it is full.

- 9° In the event of the pump not working correctly, carry out the following checks:

<p>Is the air pipe connected?</p> <p>Does the electrovalve work?</p> <p>Is the equipment at the right temperature?</p> <p>It is working at the right pressure?</p> <p>Are the filters clean?</p> <p>Are the modules blocked?</p> <p>Is the cylinder shaft correctly aligned?</p>
--

Valve unit:

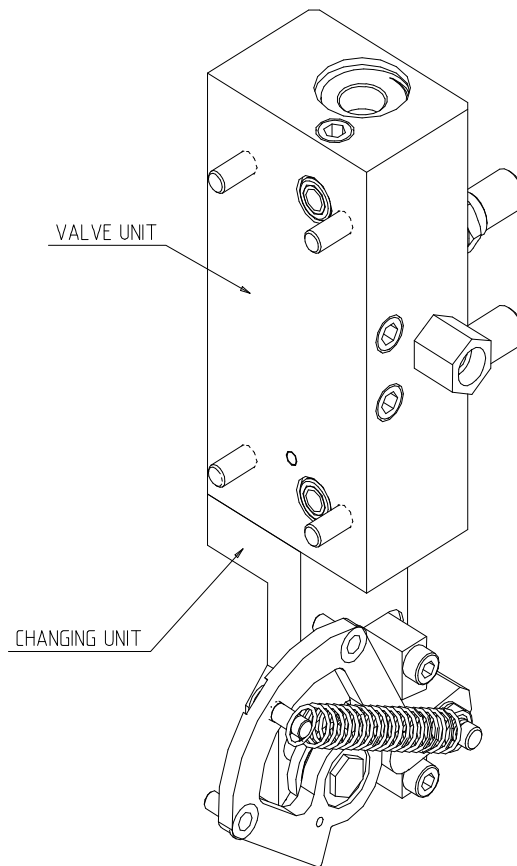
- 1º Reduce the air pressure to zero
- 2º Eliminate pressure from the system by firing the manual guns or opening the draining valve.
- 3º Disconnect the power supply.
- 4º Disconnect the electrical plug of the solenoid valve and remove the regulator assembly by turning it on the anticlockwise direction.
- 5º Remove the M4x10 screw and lift the pump casing.
- 6º Loosen the allen screws on the valve unit and separate it from the cylinder unit.
- 7º Take out the M8 allen screws and remove the valve change unit.
- 8º Loosen the two retaining rings.
- 9º Using an M5 screw, disassemble the valve plug.
- 10º Once the valve has been disassembled, we recommend changing the viton o'rings.



Follow the assembly instructions carefully.

The positioning and alignment of some elements are critical for the perfect operation of the pump.

- 1º Assemble the viton o'ring on the valve plug and introduce the plug in the valve body.
- 2º Insert the retaining rings.
- 3º Place the viton o'rings in the valve body.
- 4º Assemble the unit in its correct position and screw it down with the M8 allen screws to the valve body.



- 5° Assemble the valve unit to the cylinder and screw them together with the allen screws.
- 6° Put the pump casing back in place and tighten it with the screw provided.
- 7° Insert the air tube of the regulator assembly in the hole of the pump cover and fit it by turning the assembly on the clockwise direction.

Note: The pump will move continuously until it is full.

- 8° In the event of the pump not working correctly, carry out the following checks:

<p>Is the air pipe connected? Does the electrovalve work? Is the equipment at the right temperature? It is working at the right pressure? Are the filters clean? Are the modules blocked? Is the shaft correctly aligned?</p>

Change unit:

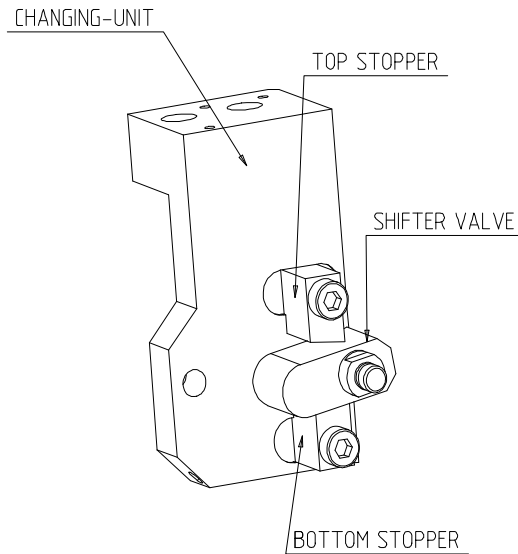
- 1° Reduce the air pressure to zero
- 2° Eliminate pressure from the system by firing the manual guns or opening the draining valve.
- 3° Disconnect the power supply.
- 4° Disconnect the electrical plug of the solenoid valve and remove the regulator assembly by turning it anticlockwise.
- 5° Remove the M4x10 screw and lift the pump casing.
- 6° Loosen the allen screws on the valve unit and separate it from the cylinder unit.
- 7° Loosen the M6 allen screws and separate the change unit from the valve.
- 8° Loosen the shifter spring 1.
- 9° To disassemble the top and bottom stopper loosen the M5 allen screws.
- 10° With a no. 8 spanner loosen the shifter valve, the shifter shaft is free, the viton o'ring, the shifter cylinder and the spring.
- 11° Disassemble the holding ring.
- 12° To loose the bearing bracket remove the screws and disassemble the ball bearing.



Follow the assembly instructions carefully.

The positioning and alignment of some elements are critical for the perfect operation of the pump.

- 1° Assemble the bearing bracket and tighten with the reinforced screws.
- 2° Assemble the screw holding ring, insert the spacer and screw the unit onto the exchange shifter manifold.
- 3° Insert the viton o'ring in the shifter shaft and in the shifter cylinder.
- 4° Insert the parts together with the shifter valve spring in the shifter valve and screw it to the exchange shifter manifold.
- 5° Assemble the top and bottom stopper in their correct position and screw them with the M5 screws.
- 6° Put the shifter spring in its position.



- 7° Assemble the change unit in its correct position and screw it in with the M8 Allen screws to the valve body.
- 8° Assemble the valve unit to the cylinder and screw them with the Allen screws.
- 9° Put the pump casing back in place and tighten it with the screw provided.
- 10° Insert the air tube of the regulator assembly in the hole of the pump cover and fit it by turning the assembly on the clockwise direction.

Note: The pump will move continuously until it is full.

- 11° In the event of the pump not working correctly, carry out the following checks:

<p>Is the air pipe connected? Does the electrovalve work? Is the equipment at the right temperature? It is working at the right pressure? Are the filters clean? Are the modules blocked? Is the shaft correctly aligned?</p>

8.5. REPAIRING ELECTRIC COMPONENTS:



If one of the electric components needs to be repaired, proceed according to the part listings in chapter 9 and the electric diagrams in chapter 10.

All these operations should be performed with the machine switched off at the mains and disconnected from the main air circuit, making sure that the system has been duly bled and depressurised.

WARNING: When a fuse is broken is essential to replace it with fuses supplied with the equipment.

If fuses are not available, using ULTRAFast fuses with the same characteristics will be necessary.



WARNING WITH ELECTRONIC CARDS

During the equipment manipulation, contacts with electronic elements and the metallic parts of connectors must be avoided.

Susceptible elements to electrostatic discharge

CHAPTER 9 SOFTWARE SPECIFICATIONS

9.1 I/O functions. I/O card pulses:

I/O card diagram:

Besides supporting communications by RS-485 the I/O card is able to have a wired communication. This wiring system has four functions.

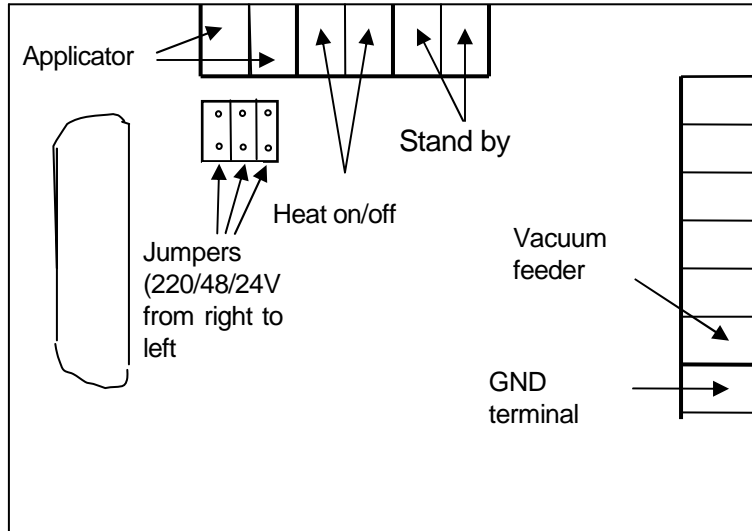
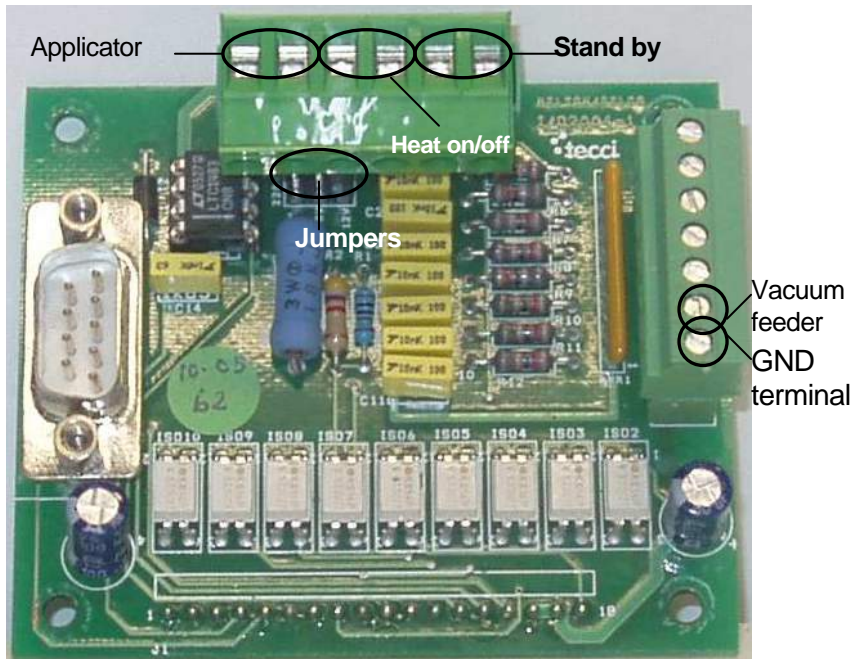


Photo of the I/O card



Connector	Function
Applicator	Application fuction
Heat on/off	Heat on/off function
Stand by	Stand by function
Vacuum feeder	Level sensor input

Application function

This function operates as following:

When the pulse signal is no longer received for a time (minutes) exceeding the value set in P8 the unit goes to stand-by mode.

Once the unit is in stand-by mode there are two options for setting the unit in standard operation:

- a) Pressing the button situated in the panel
- b) Causing a signal at the stand by function input.

If a pulse is caused at the input before finishing the P8 time then the time resets and begins to count again.

Heat on/off function

The operating mode of the unit changes if there is a pulsed on/off signal.

Stand by function

The unit goes into stand-by mode if there is a pulsed on/off signal.

Feeder alarm function.

The unit is enabled to deal the feeder alarm by this input. This function will be always wired and working for the right working of the feeder system.



When we close the circuit between the GNR and the I/O card then it send a pulse. If the contact is close, it can't send signal to others contacts.

Con1 (1-2) Con X D – GND

Con2 (3-4)

Con3 (5-6)

It can't send more than one pulse.

9.2 MODBUS COMMUNICATIONS:

9.2.1 Communication structure:

COMMUNICATION MODES SELECTION: P27 PARAMETER.

This parameter is used to know if external communication are going to be used.

If P27= 0 it means that external communications by PROFIBUS or MODBUS protocols or by I/O States are not going to be used.

If P27= 1 then the MODBUS communications and the I/O States are activated.

In both cases, when it used 4 exits equipments in the position that it isn't used, because they are exclusive that 6 exits equipments, the system send a "0".

In both cases, when we use 4 exits equipments in the position that it isn't used, because they are exclusive of the 6 exits equipments, the system sends a "0".

MICRO-CONTROLLER FUNCTIONS:

The micro-controller (μ C) always communicates by Modbus functions.

The programming of the μ C only supports two functions:

(0x03): reading of stored register

(0x10): writing of multiple register

(0x03) : Reading of stored register:

This function realizes a continuous reading of register list. The function specifies first register address and then it reads as the number of values that the function shows.

Function characteristics:

Petition:

Function code: 1Byte 0x03.

Start address: 2 Bytes 0x0000 a 0xFFFF.

Register quantity: 2 Bytes 1 a 125 (0x7D).

Reply:

Function code: 1Byte 0x03.

Bytes quantity: 1 Bytes 2 x N* (Register quantify)

Register values: N* x 2 Bytes.

Error:

Error code: 1 Byte 0x83

Exception code: 1 Byte 01 ó 02 ó 03 ó 04

Example:

Petition Reply

Function 03 Function 03

Start address Hi 00 Bytes quantity 06

Start address Lo 6B Register value Hi (108) 02

Nº register Hi 00 Register value Lo (108) 2B

Nº register Lo 03 Register value Hi (109) 00

Register valueLo (109) 00

Register valueHi (110) 00

Register value Lo (110) 64

(0x10): Writing of multiple register:

This function realizes a continuous block writing of no more than 120 registers (in our case 32).

The sending writes in two bytes the values of one register. The answer sends function code, Start address and register quantity.

Function characteristics:

Sending:

Function code: 1Byte 0x10.

Start address: 2 Bytes 0x0000 a 0xFFFF.

Register quantity: 2 Bytes 0x0001 a 0x0078

Bytes quantity: 1 Bytes 2 x N* (Cantidad de Registros)

Register values: N* x 2 Bytes.

Reply:

Function code: 1Byte 0x10.

Start address: 2 Bytes 0x0000 a 0xFFFF.

Register quantity: 2 Bytes 1 a 123 (0x7B)

Error:

Error code: 1 Byte 0x90

Exception code: 1 Byte 01 ó 02 ó 03 ó 04

Example:

Sending	Reply
Function 10	Function 10
Start address Hi 00	Start address Hi 00
Start address Lo 01	Start address Lo 01
Register quantity Hi 00	Register quantity Hi 00
Register quantity Lo 02	Register quantity Lo 02
Bytes quantity 04	
Register value Hi 00	
Register value Lo 0A	
Register value Hi 01	
Register value Lo 02	

9.2.2 Communication modes: MODBUS (RS-485, 8n +1)

With this communication mode, the micro-controller is a slave, that is to say, it waits for PLC request about state of values that it wants.

Using previous functions, PLC starts communications, and it makes that micro-controller sends the state of values.

PLC reads continuously the equipment values to actualize them.

MODBUS PROTOCOL ADDRESSES:

MODBUS DATA AND ADDRESS		
NECESSARY DATA	MODBUS HEX ADDRESS	NOTES
Dep prog	0x0100	L/E
M1 prog	0x0101	L/E
P1 prog	0x0102	L/E

M2 prog	0x0103	L/E
P2 prog	0x0104	L/E
M3 prog	0x0105	L/E
P3 prog	0x0106	L/E
M4 prog	0x0107	L/E
P4 prog	0x0108	L/E
M5 prog	0x0109	L/E 6 exits
P5 prog	0x010A	L/E 6 exits
M6 prog	0x010B	L/E 6 exits
P6 prog	0x010C	L/E 6 exits
B1	0x010D	L/E
B2	0x010E	L/E
B3	0x010F	L/E
P1	0x0110	L/E
P2	0x0111	L/E
P3	0x0112	L/E
P4	0x0113	L/E
P5	0x0114	L/E
P6	0x0115	L/E
P7	0x0116	L/E
P8	0x0117	L/E
P11	0x0118	L/E
P12	0x0119	L/E
P13	0x011A	L/E
P14	0x011B	L/E
P15	0x011C	L/E Channel 5 in 6 exits in 4 exits – it sends “0”
P16	0x011D	L/E Channel 6 in 6 exits in 4 exits – it sends “0”
P17	0x011E	L/E N° Terminal. 4 and 6 exits
P18	0x011F	L/E 4 and 6 exits
P19	0x0120	L/E 4 and 6 exits
P20	0x0121	L/E 4 and 6 exits
P21	0x0122	L/E 4 and 6 exits
P22	0x0123	L/E 4 and 6 exits

P23	0x0124	L/E 4 and 6 exits
P24	0x0125	L/E 4 and 6 exits
P25	0x0126	L/E 4 and 6 exits in 4exits – it sends “0”
P26	0x0127	L/E 4 and 6 exits in 4exits – it sends “0”
HC1	0x0128	L/E MONDAY
MC1	0x0129	L/E MONDAY
TC1	0x012A	L/E MONDAY
HD1	0x012B	L/E MONDAY
MD1	0x012C	L/E MONDAY
TD1	0x012D	L/E MONDAY
HC2	0x012E	L/E MONDAY
MC2	0x012F	L/E MONDAY
TC2	0x0130	L/E MONDAY
HD2	0x0131	L/E MONDAY
MD2	0x0132	L/E MONDAY
TD2	0x0133	L/E MONDAY
HC1	0x0134	L/E TUESDAY
MC1	0x0135	L/E TUESDAY
TC1	0x0136	L/E TUESDAY
HD1	0x0137	L/E TUESDAY
MD1	0x0138	L/E TUESDAY
TD1	0x0139	L/E TUESDAY
HC2	0x013A	L/E TUESDAY
MC2	0x013B	L/E TUESDAY
TC2	0x013C	L/E TUESDAY
HD2	0x013D	L/E TUESDAY
MD2	0x013E	L/E TUESDAY
TD2	0x013F	L/E TUESDAY
HC1	0x0140	L/E WEDNESDAY
MC1	0x0141	L/E WEDNESDAY
TC1	0x0142	L/E WEDNESDAY
HD1	0x0143	L/E WEDNESDAY
MD1	0x0144	L/E WEDNESDAY

TD1	0x0145	L/E WEDNESDAY
HC2	0x0146	L/E WEDNESDAY
MC2	0x0147	L/E WEDNESDAY
TC2	0x0148	L/E WEDNESDAY
HD2	0x0149	L/E WEDNESDAY
MD2	0x014A	L/E WEDNESDAY
TD2	0x014B	L/E WEDNESDAY
HC1	0x014C	L/E THURSDAY
MC1	0x014D	L/E THURSDAY
TC1	0x014E	L/E THURSDAY
HD1	0x014F	L/E THURSDAY
MD1	0x0150	L/E THURSDAY
TD1	0x0151	L/E THURSDAY
HC2	0x0152	L/E THURSDAY
MC2	0x0153	L/E THURSDAY
TC2	0x0154	L/E THURSDAY
HD2	0x0155	L/E THURSDAY
MD2	0x0156	L/E THURSDAY
TD2	0x0157	L/E THURSDAY
HC1	0x0158	L/E FRIDAY
MC1	0x0159	L/E FRIDAY
TC1	0x015A	L/E FRIDAY
HD1	0x015B	L/E FRIDAY
MD1	0x015C	L/E FRIDAY
TD1	0x015D	L/E FRIDAY
HC2	0x015E	L/E FRIDAY
MC2	0x015F	L/E FRIDAY
TC2	0x0160	L/E FRIDAY
HD2	0x0161	L/E FRIDAY
MD2	0x0162	L/E FRIDAY
TD2	0x0163	L/E FRIDAY
HC1	0x0164	L/E SATURDAY
MC1	0x0165	L/E SATURDAY
TC1	0x0166	L/E SATURDAY
HD1	0x0167	L/E SATURDAY

MD1	0x0168	L/E SATURDAY
TD1	0x0169	L/E SATURDAY
HC2	0x016A	L/E SATURDAY
MC2	0x016B	L/E SATURDAY
TC2	0x016C	L/E SATURDAY
HD2	0x016D	L/E SATURDAY
MD2	0x016E	L/E SATURDAY
TD2	0x016F	L/E SATURDAY
HC1	0x0170	L/E SUNDAY
MC1	0x0171	L/E SUNDAY
TC1	0x0172	L/E SUNDAY
HD1	0x0173	L/E SUNDAY
MD1	0x0174	L/E SUNDAY
TD1	0x0175	L/E SUNDAY
HC2	0x0176	L/E SUNDAY
MC2	0x0177	L/E SUNDAY
TC2	0x0178	L/E SUNDAY
HD2	0x0179	L/E SUNDAY
MD2	0x017A	L/E SUNDAY
TD2	0x017B	L/E SUNDAY
DIA	0x017C	L/E
HOUR	0x017D	L/E
MINUTES	0x017E	L/E
HEAT ON/OFF	0x017F	L/E
TIMER	0x0180	L/E
ENERGY SAVING	0x0181	L/E
P10	0x0182	L/E= HOURS TO FILTER CHANGE
P9	0x0183	L
Tank present	0x0184	L
Hose 1 present	0x0185	L
Gun 1 present	0x0186	L
Hose 2 present	0x0187	L
Gun 2 present	0x0188	L
Hose 3 present	0x0189	L
Gun 3 present	0x018A	L

Hose 4 present	0x018B	L
Gun 4 present	0x018C	L
Hose 5 present	0x018E	L 6 EXITS
Gun 5 present	0x018F	L 6 EXITS
Hose 6 present	0x0190	L 6 EXITS
Gun 6 present	0x0191	L 6 EXITS

Note 1: L = reading y E= writing

Note 2: where only appear 6 exits are data that 6 exits card utilizes. In 4 exits cards sends value "0".

Note 3: Positions where appear C series, means that N series has not this data so N series sends value "0"

Note 4: P10 changes of direction from 0x0119 to 0x0182 because in a 4 outputs series it is only a reading data.(C6 L/E in that way it becomes compatible)

Note 5: P9 changes from 0x0118 to 0x183 because it is only a L data.

Note 4 and 5: Changes are done to have all the L/E data together and all the L data together to permit in that way ask all data at once.



Important:: When the current temperature is readed, 25 (Centigrade scale) must be subtracted to the sent answer.In that way measuring negatives values of temperature is avoided, which can't be sent.For example:

If the answer is1 the PLC must subtract 25, getting in that way the real value of the measured temperature,-24° C. real temperature.

Summing up, the following operations must be applied depending on the used scale.

CENTIGRADE SCALE: Current real $T^a(^{\circ}C)$ =Current measured T^a-25

FARENHEIT SCALE: Current real $T^a (F)$ = Current measured T^a-13

It happens in directions from 0x0184 to 0x0191.(Current temperature)

Status Word: 0,0,0,0,0,0,0,0,0,0, Pump permissive, Fault, Warning, OK

I/O contacts in 4 exits equipment will be configurable too like 6 exits equipment



Node number will be in the same parameter 4 as well as 6 outputs.P17

Status word:0,0,0,0,0,0,0,0,0,0, Pump permissive, Fault, Warning,OK

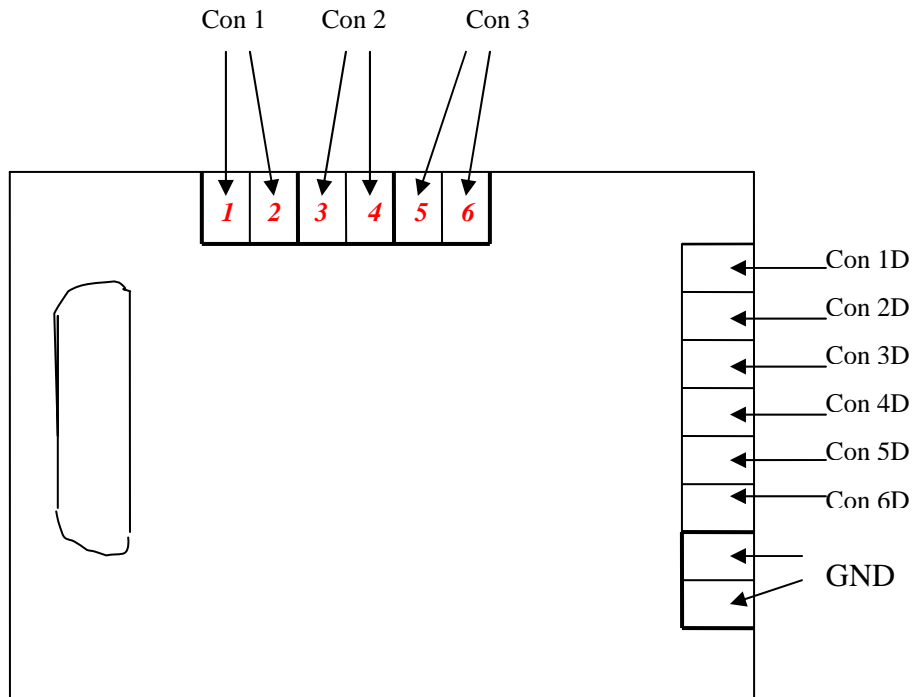
CHAPTER 10

LOG SHEETS

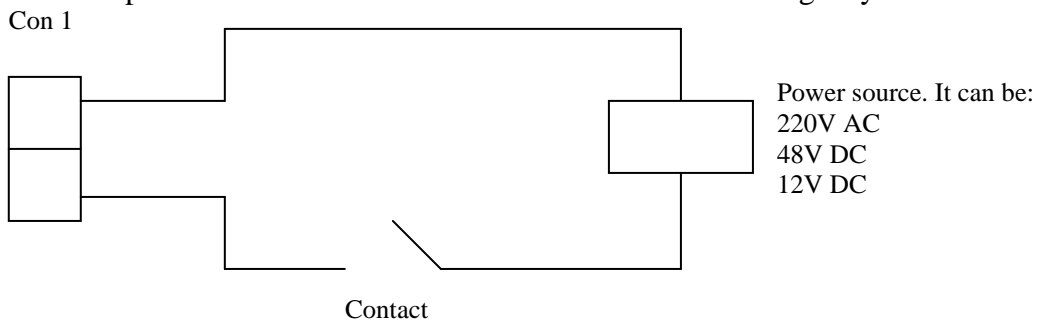
<i>DATE</i>	<i>INCIDENCE</i>

I/O board of six outputs by States.

I/O board scheme.



Note: Con 1 power is needed. It will be connected in the following way.



Rest of terminals: (dry-contact; Like Switches)

“0” → No signal (Open)

“1” → Signal ON (Close); 3 to 4; 5 to 6; _D to GND.

Programmable parameters (Only on 6Outs Control card)

Input	Correspondent “P” parameter	Typical Configuration. (Fixed in 4outs)
Con 1	18	1
Con 2	19	2
Con 3	20	3
Con 1D	25	4
Con 2D	21	5
Con 3D	22	6
Con 4D	23	7
Con 5D	24	8
Con 6D	25	9

For each connector input a different function can be set. Selecting a input value between 0 and 9. See the table below:

Function	Number
Disable	0
Aplication	1
Stand By	2
On/Off	3
Hose-Gun channel 1	4
Hose-Gun channel 2	5
Hose-Gun channel 3	6
Hose-Gun channel 4	7
Hose-Gun channel 5	8
Hose-Gun channel 6	9

Aplication.

This function Works in the following way: Once we have the pump permission and P8 parameter is different from 0 happens the following, P8 value is the time to wait if there is not any signal in this input before the equipments passes to stand by mode. If we pass the P8 value in minutes with any pulse in this input the machine goes to stand by mode.

Once the machine is in stand by mode there are 2 options to make it working in Normal mode.

- a) Pushing the Stand by button on the machine screen
- b) Giving a pulse for the application input. (If there is an input before the P8 time has passed, the time counter starts again)

Stand By

While the input is not “close” “1” in the stand by input the machine Works in a normal mode.

While the signal is closed in this input, the machine goes to stand by mode.

On / Off

While the input is not “close” “1” in the on/off input the machine Works in a normal mode.

While the signal is closed in this input, the machine goes to stand by mode.

Hose-Gun channel

While the input is not “close” “1” that has the hose-gun channel function, this channel works in a normal mode (enable). If the signal is closed in one input, the channel is disabling.

It works exactly in the same way for the rest of hose-gun channels.

*NOTE:

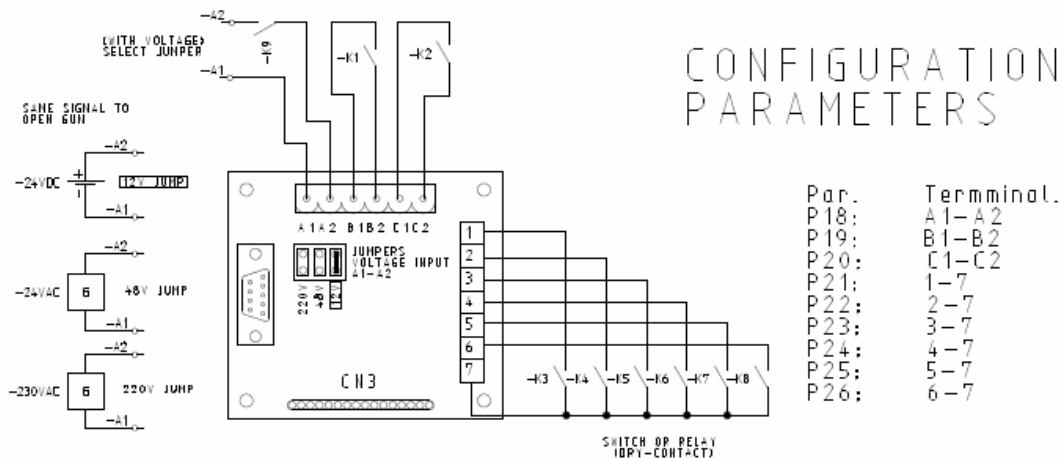
We put a the input when we close circuit between GNR of I/O Card Con1 (1-2)

Con X D – GND

Con2 (3-4)

Con3 (5-6)

If we send potential over 12Vdc it's input can be broken.

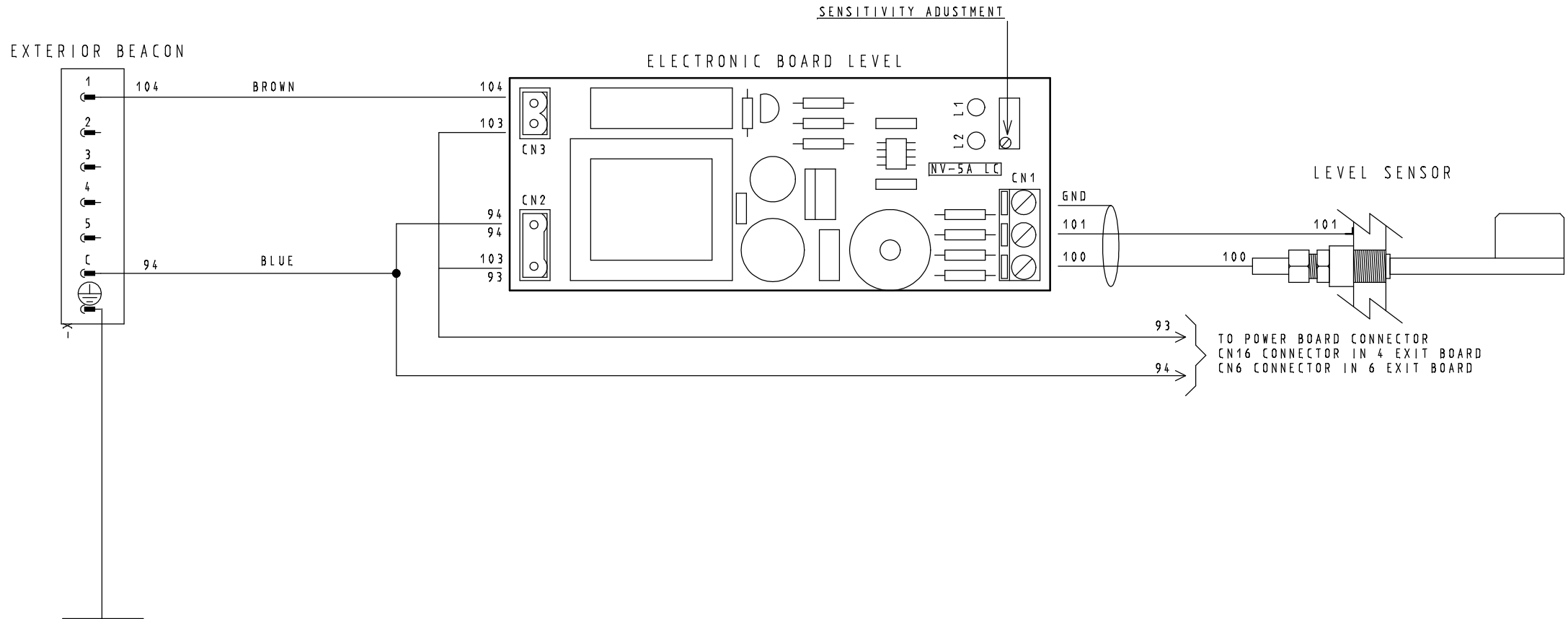


**CAUTION:

If we program this function the system follows the last signal, so the wire connection has more priority than pushbuttons.

i.e. We programmed the on/off input, if we try to turn off the unit by the pushbuttons, the unit goes to off, and just next the unit see the state off input and it goes on. So we can't use the pushbuttons functions if we use i/o inputs.

LEVEL SENSOR CONNECTION "C" SERIE



BEACON EARTH - - CONNECT WITH APPLICATOR EARTH

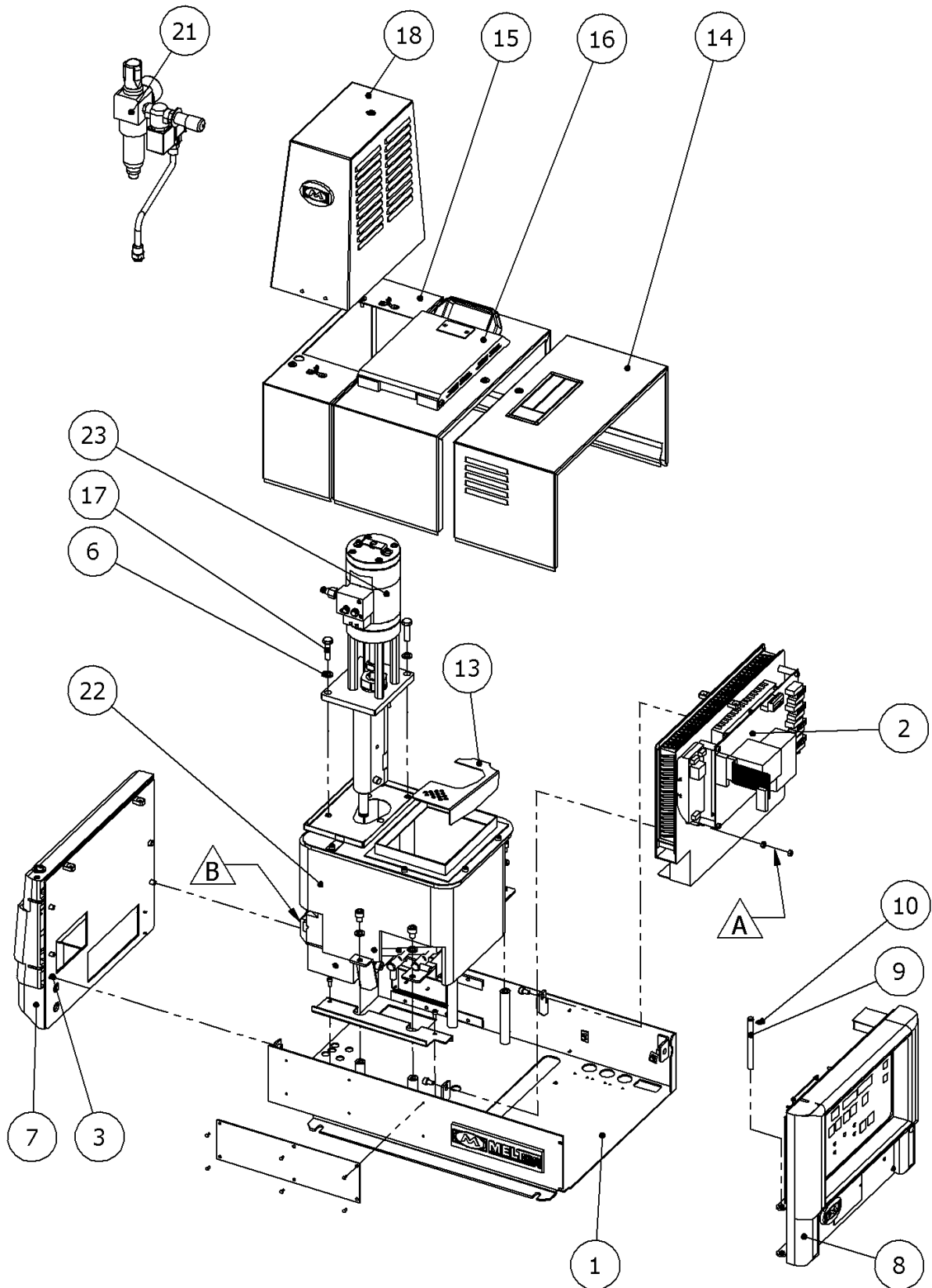
USED ON:	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.			PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.	
MTL: "C" SERIE					
FINISH:	BREAK ALL SHARP EDGES & CORNERS TO BURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	TOLERANCES - EXCEPT AS NOTED		TITLE KIT EXTERIOR BEACON "C" SERIE	
REV:		ALL DIMENSIONS IN MILLIMETERS MACHINED SURFACES <input checked="" type="checkbox"/> ANGULAR			
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 12.11.2002	DRAWING NUMBER
	CHECKED	DECIMAL X.X		SCALE	KITS
	APPROVED	DECIMAL X.XX		SHEET 38 OF	
					SUPERSEDED BY

**DESPIECE / PART LISTING
EQUIPO C4 /
C4 EQUIPMENT**

INDICE / INDEX:

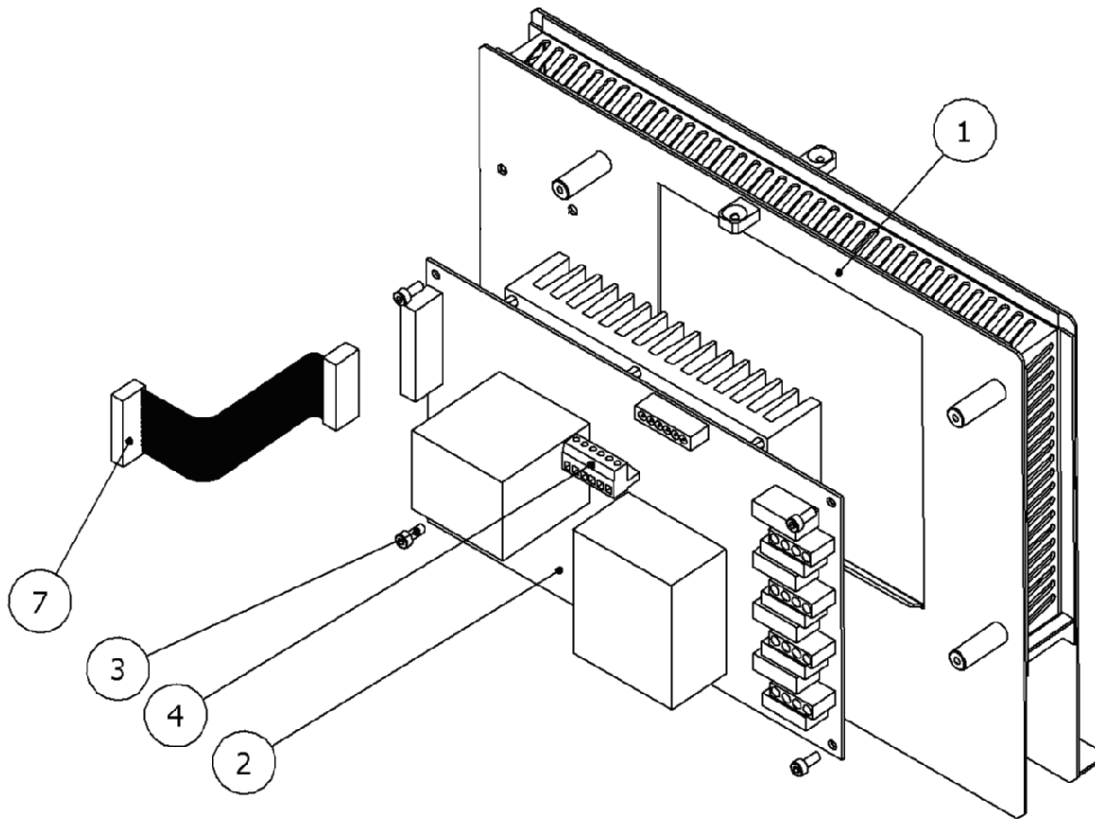
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3. CONJUNTO DEPÓSITO C4 / C4 TANK ASSEMBLY:	6
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1. CONJUNTO ENCOLADOR C4 / C4 EQUIPMENT ASSEMBLY:



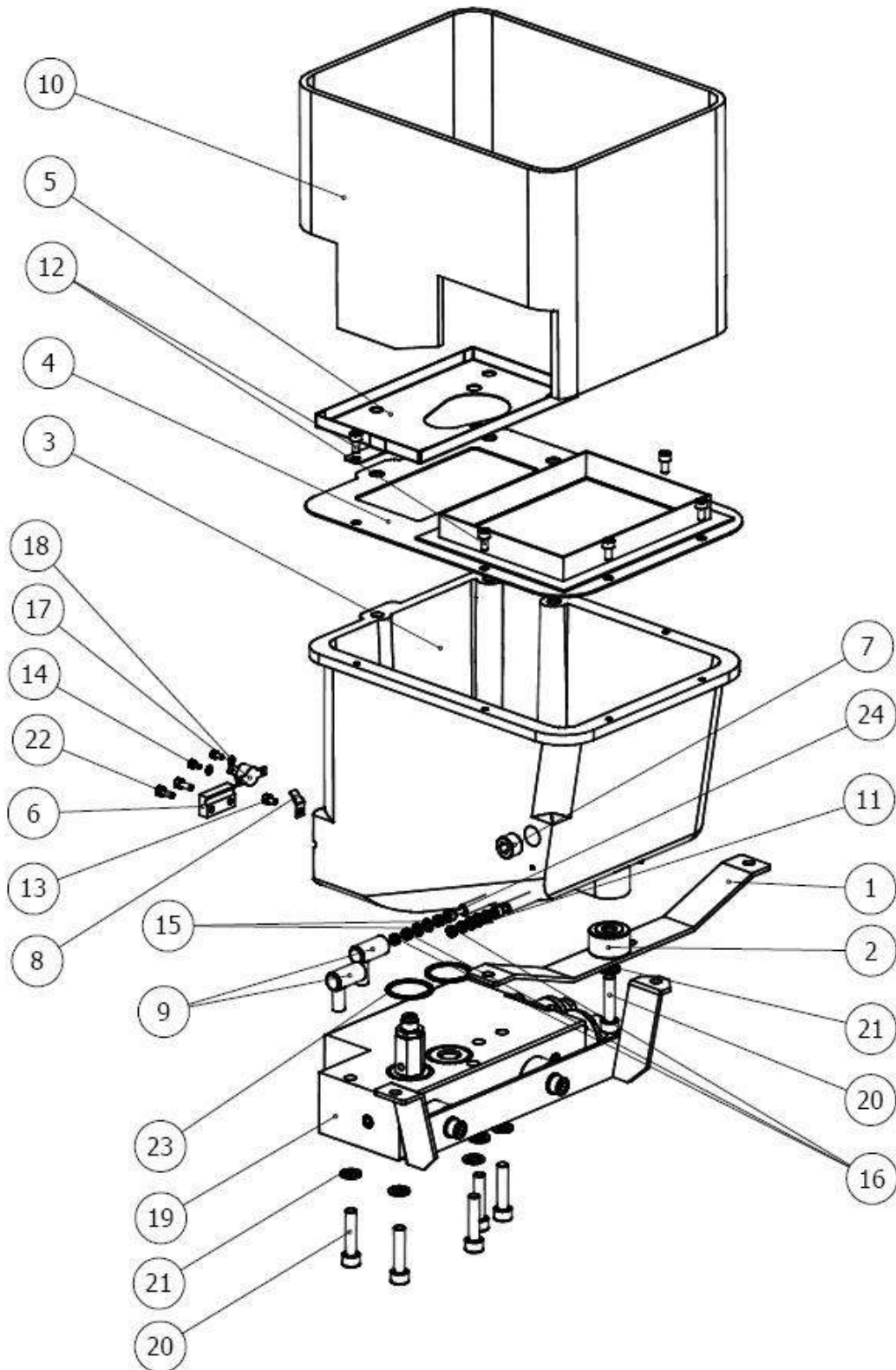
Nº	Denominación	Denomination	Ref.	Qty
1	Cuna serie C	C series base	919XX110	1
2	Tabique térmico serie C	Thermal wall C series	Pag. 5	1
7	Conjunto portón trasero	Rear door assembly	PAG.17	1
3	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
8	Conjunto portón delantero	Front door assembly	919XX091	1
9	Eje horquilla portón delantero	Front door axle		1
10	Anillo elástico eje 8	Axle 8 elastic ring		1
14	Conjunto carcasa delantera	Front cover assembly	917XX131	1
15	Conjunto carcasa trasera serie C	Rear cover assembly	917XX132	1
16	Conjunto carcasa central serie C	Central cover assembly	917XX130	1
23	Bomba	Pump	917XX070	1
17	Tornillo hexagonal M8x30	M8x30 hexagonal screw		3
6	Arandela grover 8 inox.	Stainless 8 grover washer		3
18	Carcasa bomba serie C	C series pump cover	916XX267	1
21	Conjunto Manómetro	Pressure gage assembly	PAG 18	1
13	Rejilla deposito C4	C4 tank grid	915XX367	1
A	Mazo tierra	Earth connector	914XX163	1
B	Mazo sonda níquel	Ni sensor connector	917XX072	1
	Mazo sonda PT-100	PT-100 sensor connector	917XX043	

2. CONJUNTO TABIQUE TERMICO/THERMAL WALL ASSEMBLY:



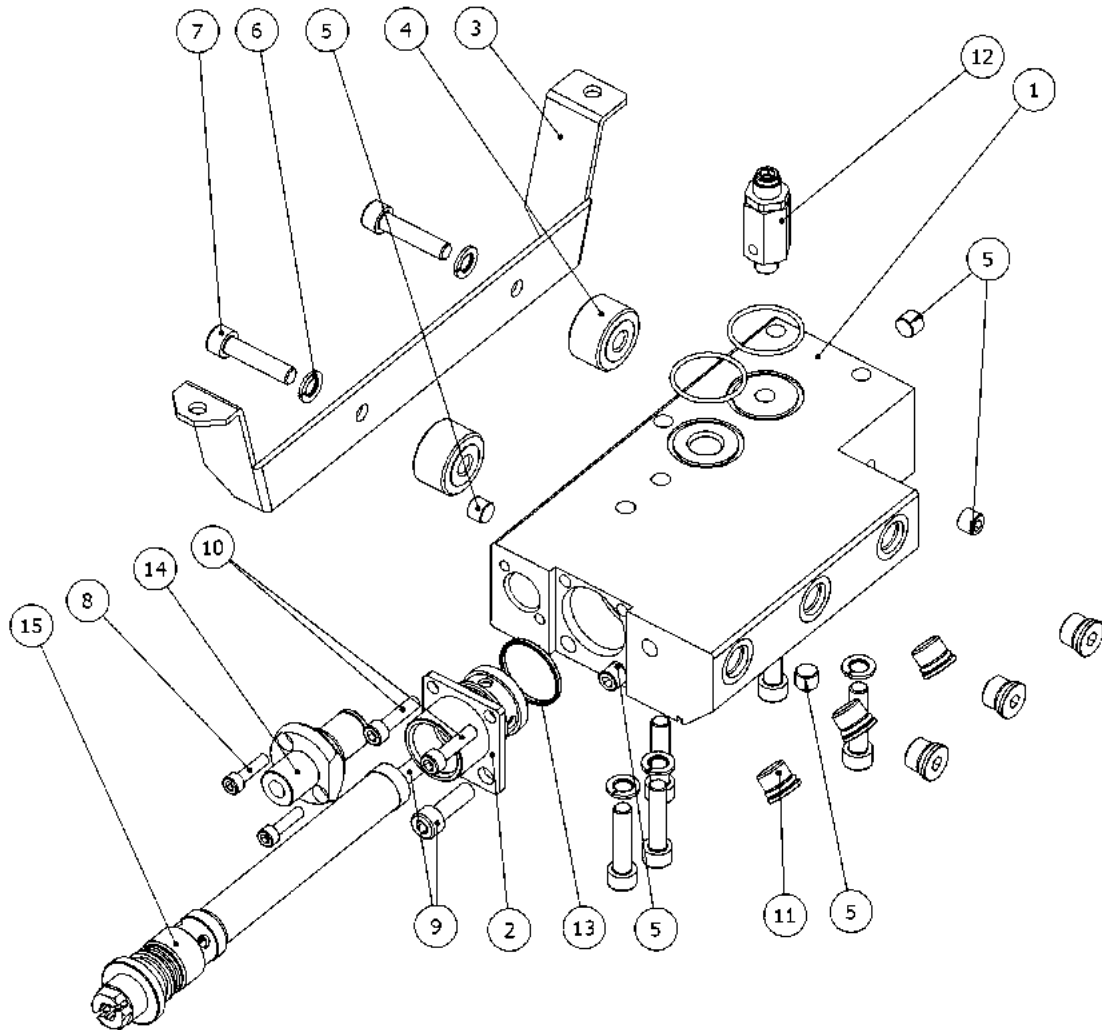
Nº	Denominación	Denomination	Ref.	Qty
1	Tabique térmico 4 salidas	4 exit thermal wall	914XX136	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
1	Tabique térmico 6 salidas	6 exits thermal wall	919XX107	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
2	Tarjeta potencia 4 Salidas	4 exit power card	910XX626	1
3	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
4	Conector tarjeta 6 polos	6 poles card connector	919XX354	1
2	Tarjeta potencia 6 salidas	6 exits power card		1
3	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	919XX354	6
4	Conector tarjeta 6 polos	6 poles card connector		1
7	Mazo interconexión	Connector	914XX160	1

3. CONJUNTO DEPÓSITO C4 / C4 TANK ASSEMBLY:



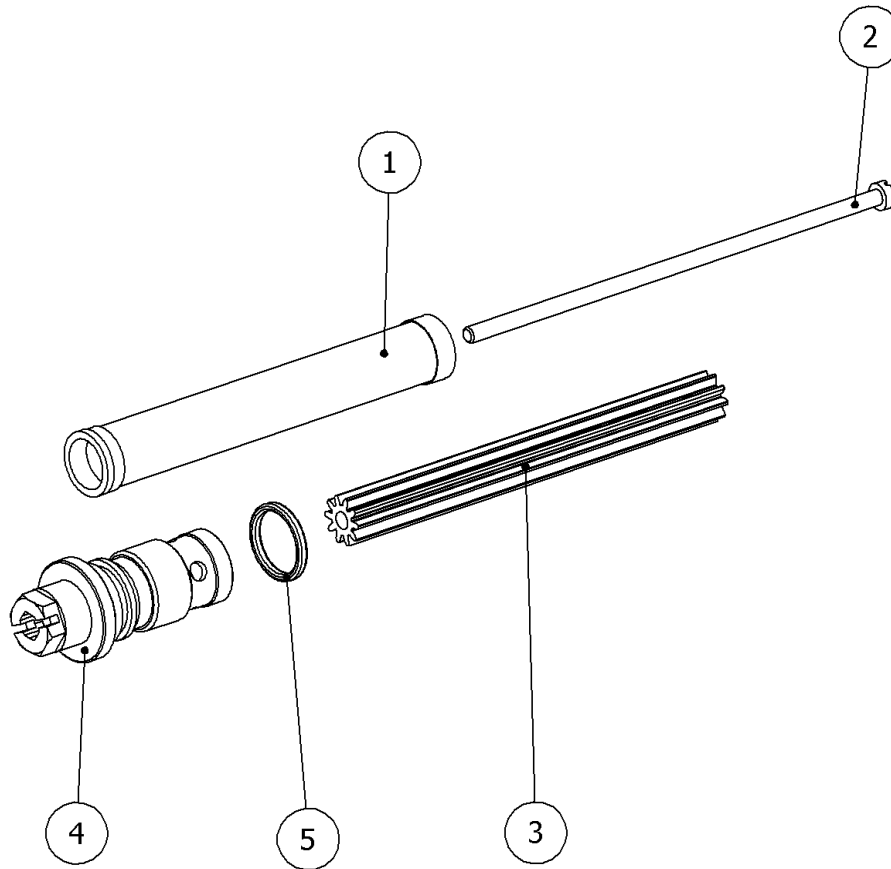
Nº	Denominación	Denomination	Ref.	Qty
1	Pata delantera depósito	Tank front leg	914XX061	1
2	Aislante pata depósito	Insulation	910XX072	1
3	Subconjunto depósito C4	C4 tank assembly	914XX060	1
	Tapón 3/8 G	3/8 plug		1
4	Chapa boca depósito C4	C4 tank top plate	914XX062	1
5	Bandeja bomba	Pump support	914XX063	1
6	Brida sonda	Sensor bridle	914XX169	1
7	Tapón 3/8 G	3/8 plug		1
7	Kit sonda nivel serie C	Level probe kit	988XX009	1
8	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
9	Capuchón aislamiento bornas	Insulation plug		2
10	Manta aislante C4	C4 thermal insulation	912XX353	1
11	Mazo resistencia depósito	Tank heater bar		1
12	Tornillo allen M5x10 inox.	Stainless M5x10 allen screw	910XX968	5
13	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw	910XX004	1
15	Arandela M4	M4 washer		4
16	Tuerca hexagonal M3.5x7x2.5	M3.5x7x2.5 hexagonal nut		6
14	Tornillo allen M3x6 inox.	Stainless M3x6 allen screw	918XX162	2
17	Mazo termostato 240°C N/C	240° thermostat connector		1
18	Arandela dentada M3	M3 indent washer		2
19	Distribuidor serie C	C series manifold		1
20	Tornillo allen 8x35 inox.	Stainless 8x35 allen screw	915XX238	6
21	Arandela grover 8 inox.	Stainless 8 grover washer	910XX135	6
22	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	2
23	Junta tórica vitón 30x2	30x2 viton o´ring	914XX090	2
24	Casquillo resistencia	Heater bar bushing		2

4. CONJUNTO DISTRIBUIDOR / MANIFOLD ASSEMBLY: (917XX077)



Nº	Denominación	Denomination	Ref.	Qty
1	Distribuidor serie C con helicoils	Serie C manifold with helicoils	916XX843	1
2	Brida rosca filtro N	Filter screw bridle	914XX286	1
9	Tornillo allen M8x25 inox.	Stainless M8x25 allen screw	915XX189	2
10	Tornillo allen M6x25 Inox.	Stainless M6x25 allen screw	914XX175	2
13	Junta tórica viton 30x2	Viton 30x2 o´ring	914XX090	1
3	Pata distribuidor	Support manifold	914XX087	1
4	Aislante pata depósito	Insulation	910XX072	2
6	Arandela grover 8 inox.	Stainless 8 grover washer	910XX135	2
7	Tornillo allen M8x35 inox.	Stainless M8x25 allen screw	915XX238	2
5	Tapón 1/8" GAS	1/8" GAS plug	910XX001	5
11	Tapón 9/16" con junta	9/16" with joint plug	917XX031	6
12	Conjunto válvula de seguridad	Security valve assembly	917XX087	1
8	Tornillo allen M5x20 inox.	Stainless M5x20 allen screw	917XX086	2
14	Subconjunto purgador C	Draining valve assembly		1
15	Filtro tanque malla N	Filter assembly	Pag. 8	1

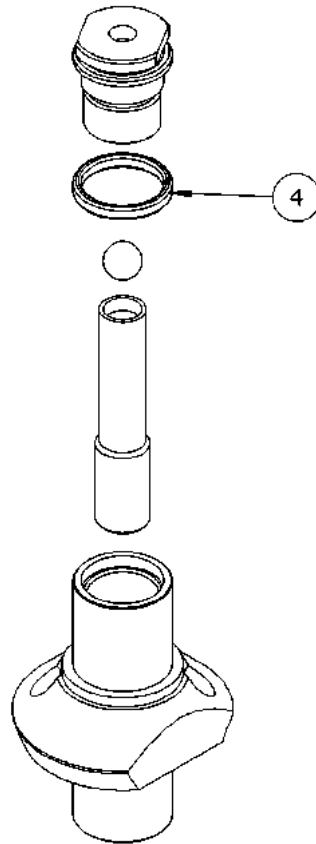
4.1. CONJUNTO FILTRO / FILTER ASSEMBLY:



Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla fino	Thin filter screen	917XX079	916XX256	916XX243	1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring				1
	Junta tórica viton 24x2	24x2 viton o´ring				1
	Junta tórica viton 20x2	20x2 viton o´ring				1
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla gruesa	Thick filter screen	917XX080	918XX028	916XX242	1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring				1
	Junta tórica viton 24x2	24x2 viton o´ring				
	Junta tórica viton 20x2	20x2 viton o´ring				
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

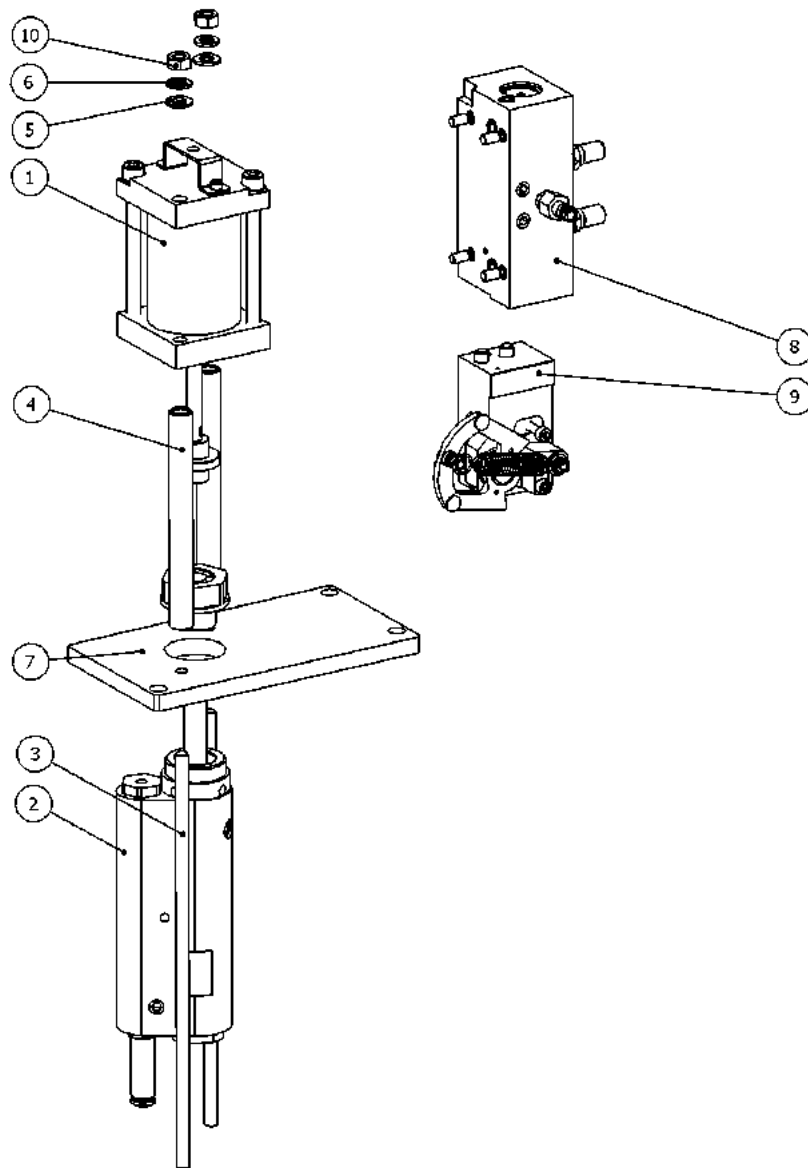
4.2. CONJUNTO PURGADOR / DRAINING VALVE ASSEMBLY: (917XX086)



Nº	Denominación	Denomination	Ref.	Qty
4	Junta tórica viton 15x2	15x2 viton o´ring	914XX091	1

5 A). CONJUNTO BOMBA / PUMP ASSEMBLY:

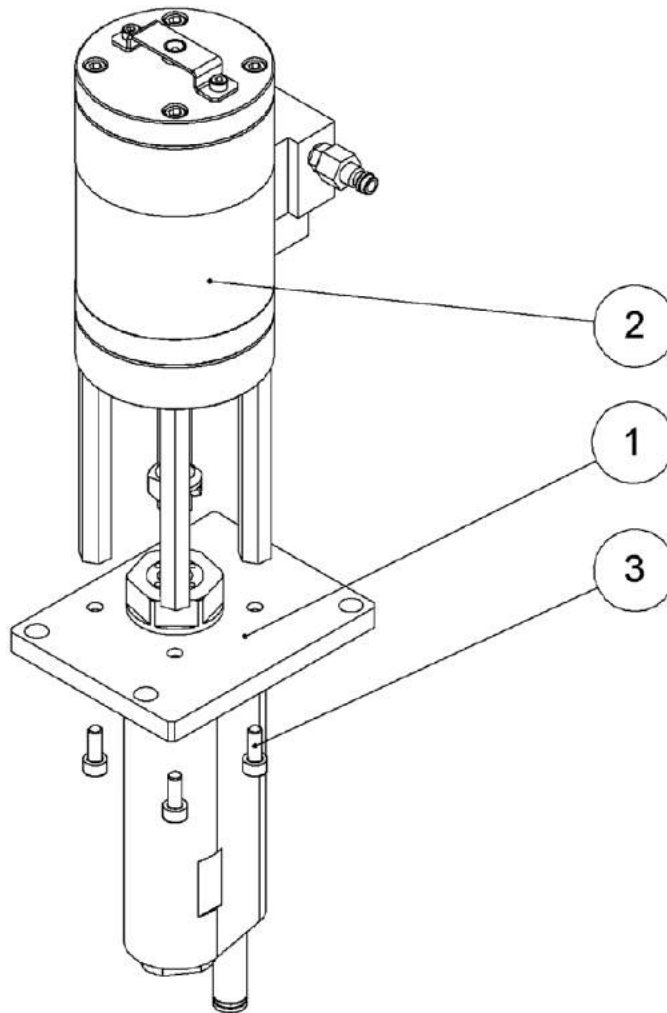
Nota: Valido para equipos hasta número de serie 8350
/ Note: Valid for equipments with serial number up to 8350



No.	Descripción	Description	Ref.	Qty.
1	Subconjunto cilindro	Cylinder assembly	917XX064	1
2	Subconjunto grupo hidráulico	Hidraulic assembly		1
3	Tirante cilindro	Cylinder bolt		2
4	Distancial cilindro	Cylinder Spacer		2
5	Arandela plana M8	Washer plane M8	916XX287	2
6	Arandela grover 8	Washer grower M8		2
10	Tuerca hexagonal M8	Nut M8		2
7	Placa base bomba	Pump mounting plate		1
8	Subconjunto válvula	Shifting valve assembly		1
9	Subconjunto cambio	Shifter pump assembly	917XX066	1

5 B). CONJUNTO BOMBA / PUMP ASSEMBLY: (917XX070)

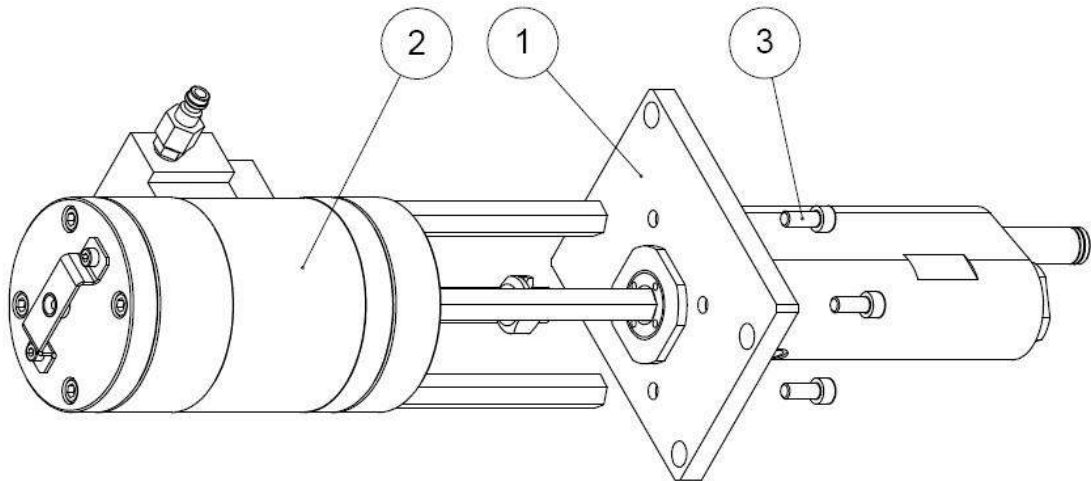
**Nota: Valido para equipos con nº de serie desde 8351 hasta 11493
/ Note: Valid for equipments with serial number from 8351 to 11493**



Pos.	Denominación	Denomination	Ref.	Cant.
1	Subconjunto hidráulico P valco	P valco Hydraulics assembly	PAG. 15	1
2	Subconjunto cilindro P valco	P valco cylinder assembly	PAG. 21	1
3	Tornillo allen M6x15 inox. KIT juntas cilindro	Stainless M6x15 allen screw Cylinder o-rings KIT	915XX090 916XX660	4

5. C) CONJUNTO BOMBA / PUMP ASSEMBLY (916XX653)

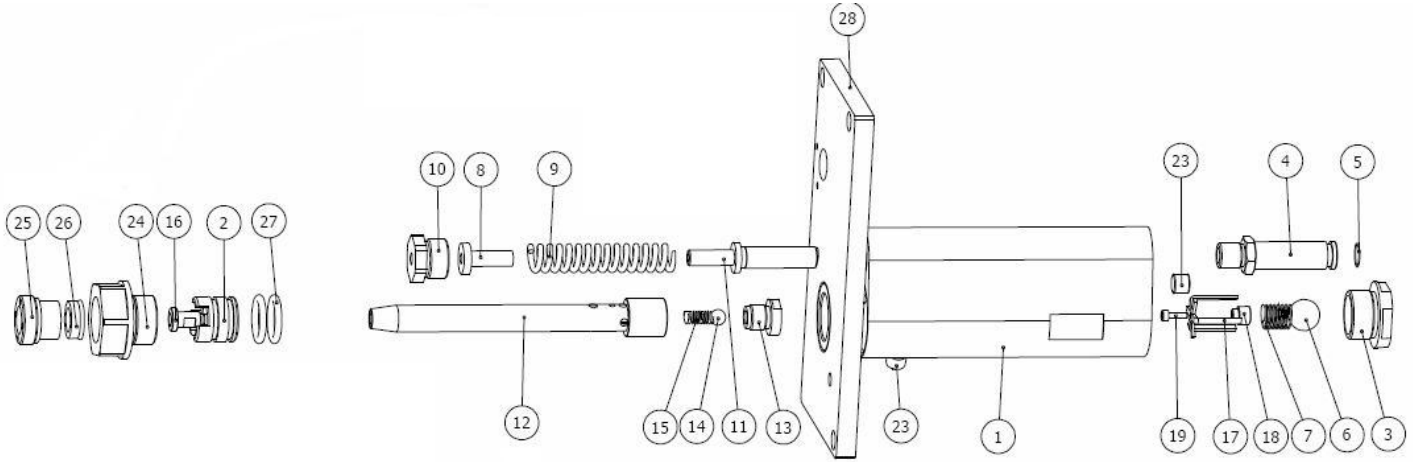
Nota: Valido para equipos con numero de serie desde 11494
/ Note: Valid for equipments with serial number from 11494



Pos.	Denominación	Denomination	Ref.	Cant.
1	Subconjunto hidráulico bomba serie C-LF	Hydraulics assembly C-LF series		1
2	Subconjunto cilindro P valco	P valco cylinder assembly	PAG 21	1
3	Tornillo allen M6x15 inox. KIT juntas cilindro	Stainless M6x15 allen screw Cylinder o-rings KIT	915XX090 916XX660	4

5.1 A). CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY:

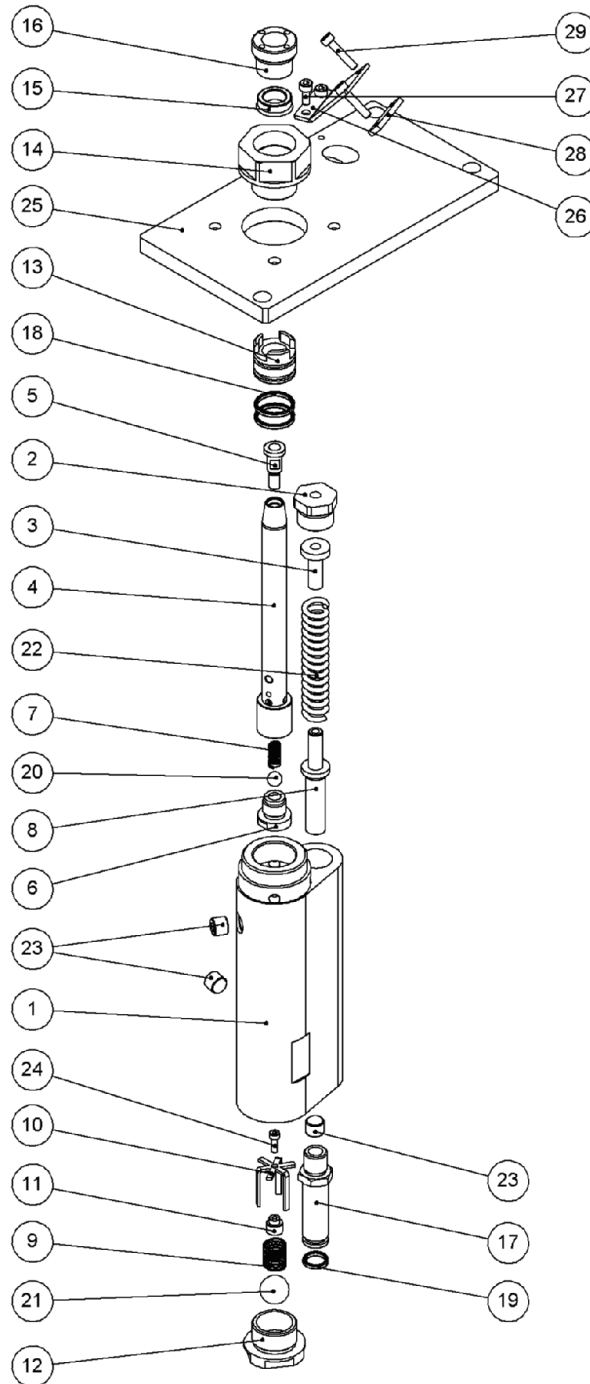
Nota: Valido para equipos hasta número de serie 8350
/ Note: Valid for equipments with serial number up to 8350



No.	Descripción	Description	Ref.	Qty.
1	Cuerpo bomba	Pump body	916XX280	1
2	Casquillo ajuste eje	Bushing	918XX263	1
3	Válvula aspiración	Aspiration valve		1
4	Tubo impulsión	Crossover tube		1
5	Junta torica viton 10x2	Viton o'ring 10x2	910XX049	1
6	Bola 16	Ball 16		1
7	Muelle válvula aspiración	Aspiration valve spring		1
8	Guía válvula compensación	Compensating valve guide		1
9	Muelle 8x16x76	Spring 8x16x76		1
10	Tapón válvula compensación	Compensating valve plug	914XX032	1
11	Eje guía válvula compensación	Compensation valve axle slide	914XX022	1
12	Eje bomba	Puma shaft		1
13	Válvula compresión	Compression valve		1
14	Bola 8	Ball 8	910XX122	1
15	Muelle válvula compresión	Compression valve spring	914XX032	1
16	Pivote eje bomba	Pump axle pivot		1
17	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031	1
18	Tope bola válvula aspiración	Aspiration valve ball limit		1
19	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw		1
23	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001	3
24	Tornillo amarre bomba modificado	Pump moor modified screw	914XX347	1
25	Tuerca fijación junta cuello modificado	Joint fixing nut	914XX346	1
26	Junta collarín eje bomba	Pump axle joint	914XX345	1
27	Junta tórica viton 19x2	19x2 Viton o'ring	911XX718	2
28	Placa base bomba	Pump base plate	914XX026	1

5.1 B). CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY: (919XX116)

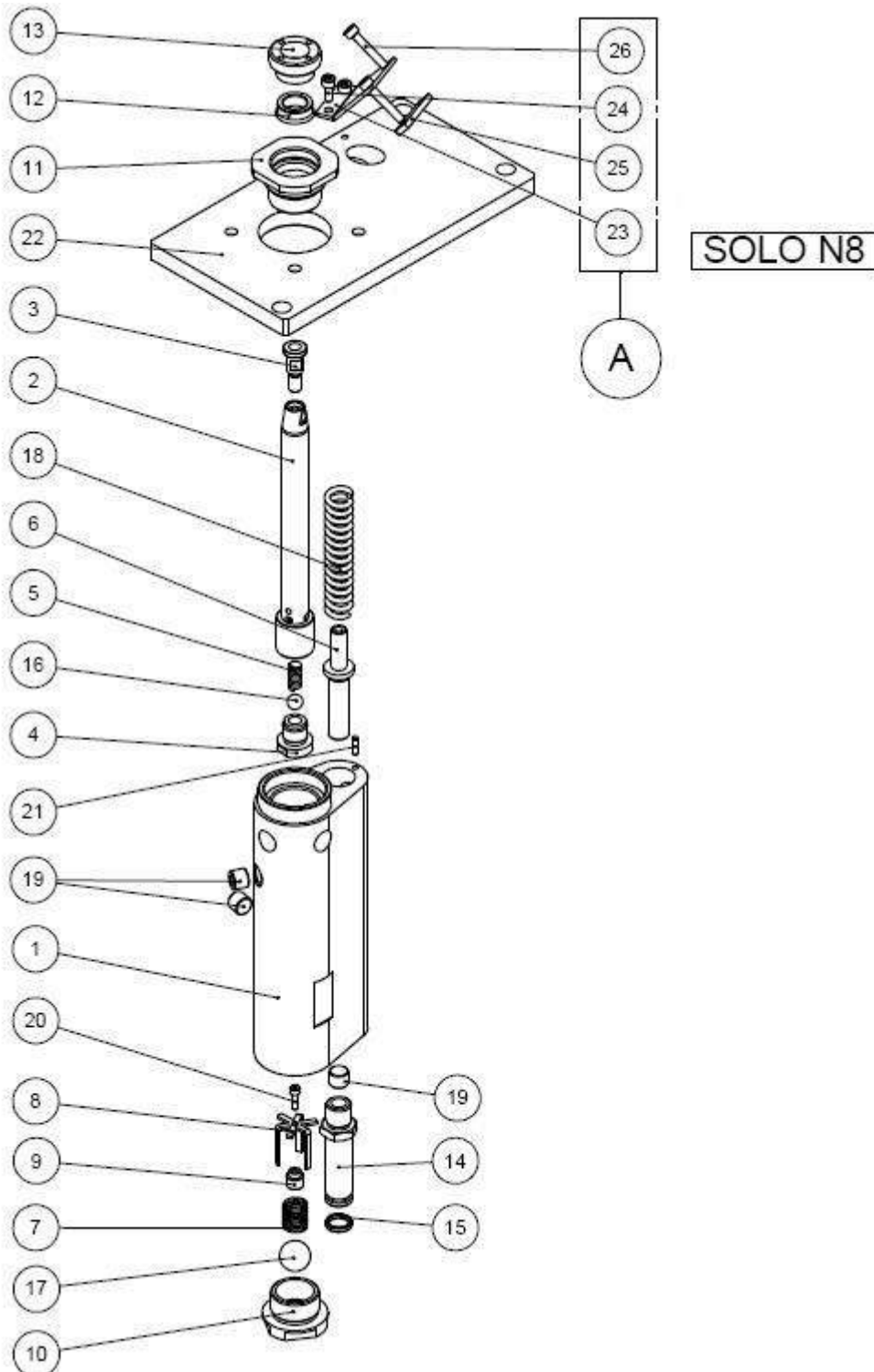
Nota: Valido para equipos con nº de serie desde 8351 hasta 11493
/ Note: Valid for equipments with serial number from 8351 to 11493



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo bomba	Pump body	914XX023	1
2	Tapón válvula compensación	Compensation valve plug	914XX020	1
3	Guía muelle válvula compensación	Compensation valve spring guide	914XX021	1
8	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1
22	Muelle DANLY 8x16x76 rojo	DANLY 8x16x76 red spring	910XX407	1
4	Eje bomba	Pump axle	914XX027	1
5	Pivote eje bomba	Pump axle pivot		1
13	Casquillo ajuste eje	Axle adjustment bushing		1
14	Tornillo amarre bomba modificado	Pump moor modified screw	914XX347	1
15	Junta collarín eje bomba	Pump axle joint	915XX467	1
16	Tuerca fijación junta cuello modificado	Joint fixing nut	914XX346	1
18	Junta tórica viton 19x2	19x2 viton o´ring	911XX718	2
6	Válvula compresión	Compression valve	914XX030	1
7	Muelle válvula compresión	Compression valve spring	914XX343	1
9	Muelle válvula aspiración	Aspiration valve spring	914XX032	1
10	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031	1
11	Tope bola válvula aspiración	Aspiration valve ball limit		1
12	Válvula aspiración	Aspiration valve	914XX034	1
21	Bola 16	16 ball	910XX119	1
24	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw	910XX084	1
17	Tubo impulsión	Impulsion tube	914XX024	1
19	Junta tórica viton 10x2	10x2 viton o´ring		1
20	Bola 8	8 ball	910XX122	1
23	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001	3
25	Placa base bomba V	Pump base plate	915XX380	1
26				
27	Only for N8 Series	Only for N8 Series		
28				
29				
15				
18	Kit juntas	O´rings kit	918XX077	1
19				

5.1.C) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY

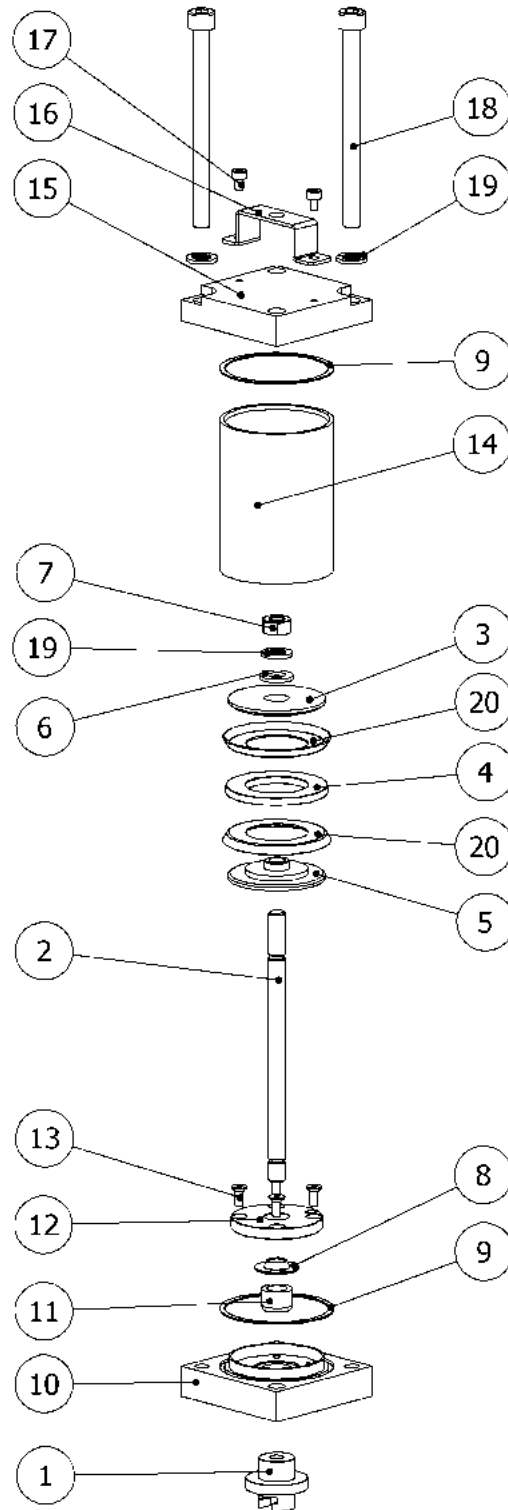
**Nota: Valido para equipos con número de serie desde 11494
/ Note: Valid for equipments with serial number from 11494**



Nº	Descripción	Description	Ref.	Qty	
1	Cuerpo bomba	Pump body		1	
6	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1	
18	Muelle DANLY 8x16x76 rojo	DANLY 8x16x76 red spring	910XX407	1	
2	Eje bomba	Pump axle	914XX027	1	
3	Pivote eje bomba	Pump axle pivot		1	
11	Tornillo portajunta bomba LF	LF pump bracket screw	915XX468	919XX328	1
12	Junta collarín eje bomba	Pump axle joint	915XX467		1
13	Tuerca portajunta bomba	Pump bracket nut	915XX471		1
4	Válvula compresión	Compression valve	914XX030		1
5	Muelle válvula compresión	Compression valve spring	914XX028		1
7	Muelle válvula aspiración	Aspiration valve spring	914XX032	916XX327	1
8	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031		1
9	Tope bola válvula aspiración	Aspiration valve ball limit			1
10	Válvula aspiración	Aspiration valve	914XX034		1
17	Bola 16	16 ball	910XX119		1
20	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw	910XX084		1
14	Tubo impulsión	Impulsion tube	914XX024		1
15	Junta tórica viton 10x2	10x2 viton o'ring			1
16	Bola 8	8 ball	910XX122		1
19	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001		3
22	Placa base bomba	Pump base plate			1
21	Pasador cilindrico 3x10	3x10 cylindrical rod	910XX581		
23					
24	Only for N8 Series	Only for N8 Series			
25					
26					

5.2. A). CONJUNTO CILINDRO / CYLINDER ASSEMBLY (917XX064)

Nota: Valido para equipos con número de serie hasta 8350
/ Note: Valid for equipments with serial number up to 8350

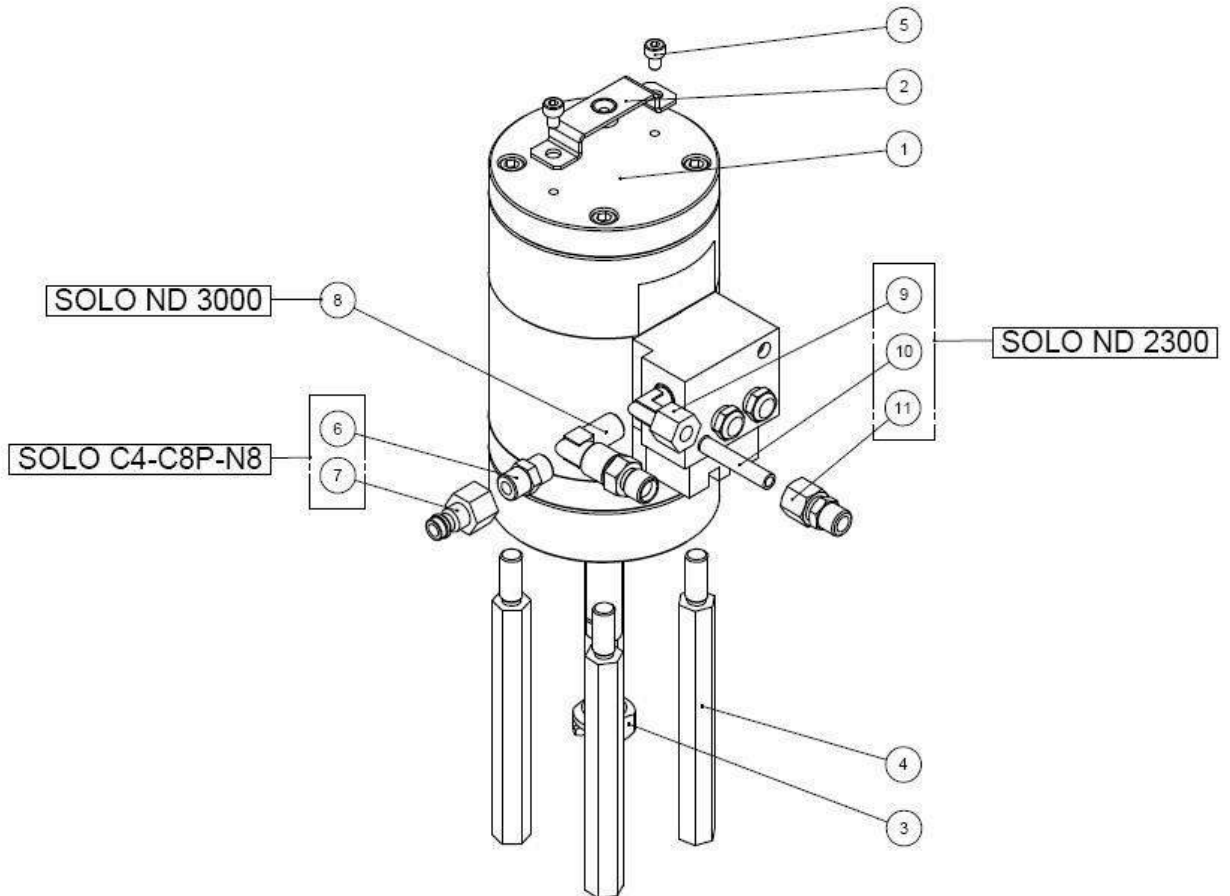


No.	Descripción	Description	Ref.	Qty.
1	Soporte escuadra	Pump shaft connection	916XX283	1
2	Eje cilindro	Cylinder shaft		1
3	Plato superior émbolo cilindro	Top piston disk		1
4	Anillo émbolo cilindro	Piston cup		1
5	Plato inferior émbolo cilindro	Bottom piston disk		1
6	Arandela plana M8	Washer plane M8		1
7	Tuerca hexagonal M8	Nut M8		1
20	Junta émbolo cilindro	Piston cup washer		2
8	Junta embutida eje cilindro	Shaft seal	917XX068	1
9	Junta culata cilindro	Cylinder head seal		2
20	Junta émbolo cilindro	Piston cup washer		2
8	Junta embutida eje cilindro	Shaft seal	916XX284	1
10	Culata inferior cilindro	Pump cylinder base		3
11	Casquillo guía eje cilindro	Shaft guiding bushing		1
12	Arandela junta eje cilindro	Shaft seal mount		1
13	Tornillo avellanado allen M4x10	Allen screw avell. M4x10		4
14	Camisa cilindro	Cylinder		1
15	Culata superior cilindro	Cylinder head	916XX285	1
16	Horquilla amarre	Cover bracket		1
17	Tornillo allen M4x6	Allen screw M4x6		2
18	Tornillo allen M8x100	Allen screw M8x100	916XX286	2
19	Arandela grover 8	Washer grower M8		3

5.2.B) CONJUNTO CILINDRO / CYLINDER ASSEMBLY (919XX112)

Nota: Valido para equipos con número de serie desde 8351 hasta 16332

/ Note: Valid for equipments with serial number from 8351 to 16332

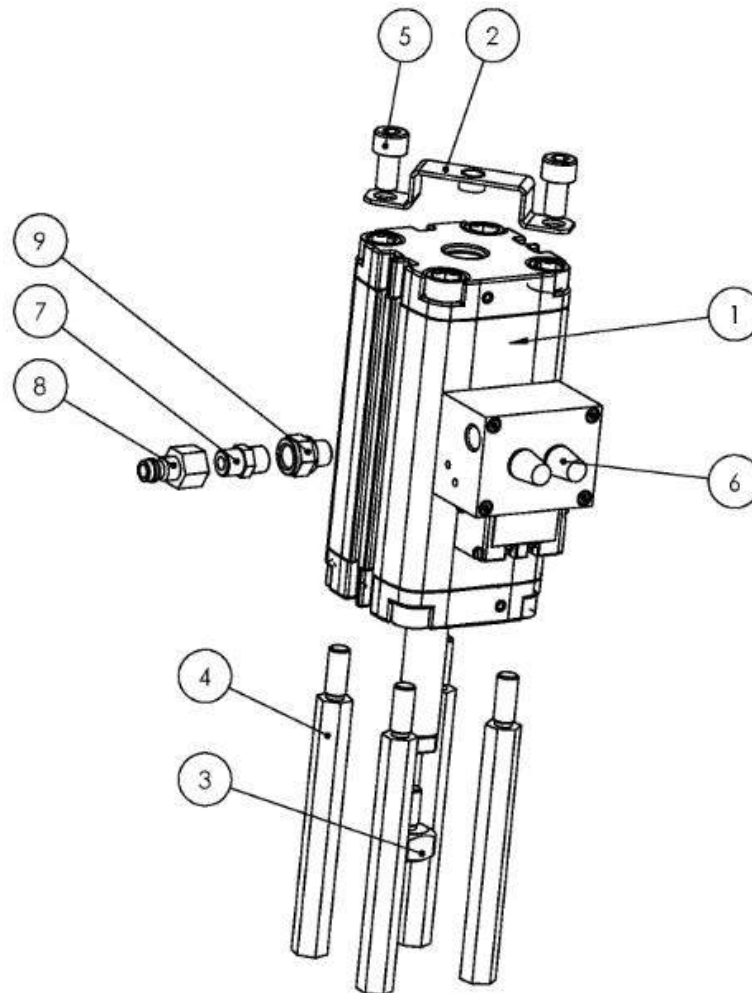


Nº	Denominación	Denomination	Ref.	Qty
1	Cilindro neumático valco	Pneumatic cylinder	915XX373	1
2	Brida superior cilindro valco	Cylinder upper bridle	919XX113	1
5	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw		2
3	Rotula cilindro valco	Cylinder ball-and-socket joint	915XX374	1
4	Distancial cilindro valco	Cylinder spacer	915XX375	4
6	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
7	Macho del enchufe rápido	Fast connector male	988XX016	1
8	No lleva	Don't have		
9				
10				
11				

5.2.C) CONJUNTO CILINDRO NMT / NMT CYLINDER ASSEMBLY (913XX348)

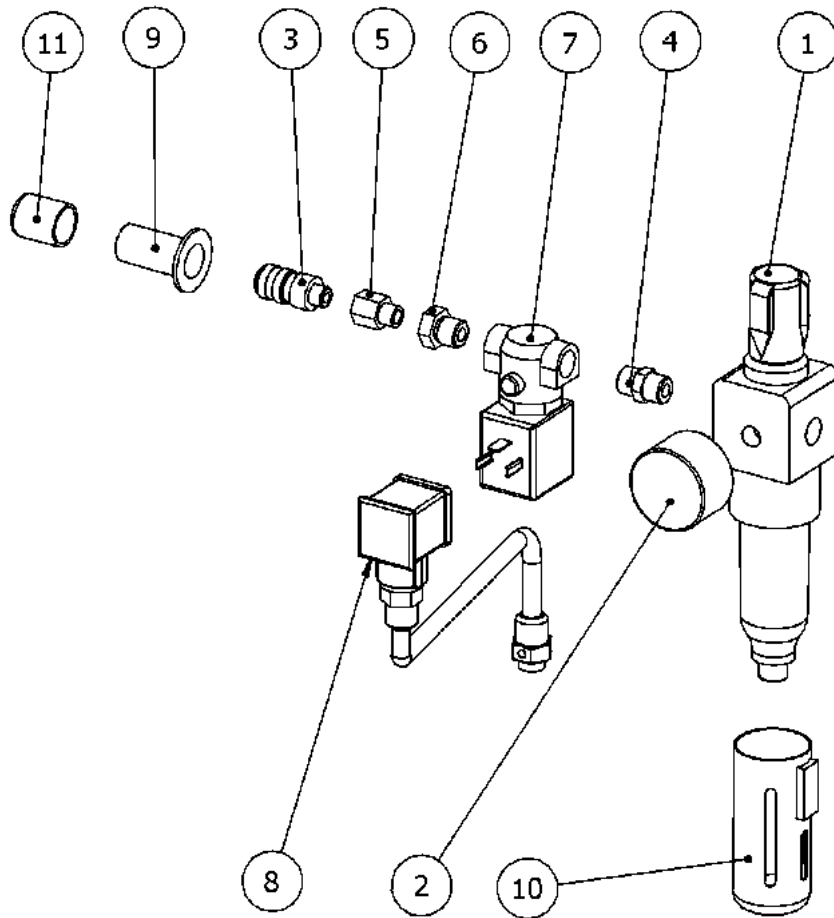
Nota: Valido para equipos con número de serie desde 16333

Note: Valid for equipment with serial number from 16333



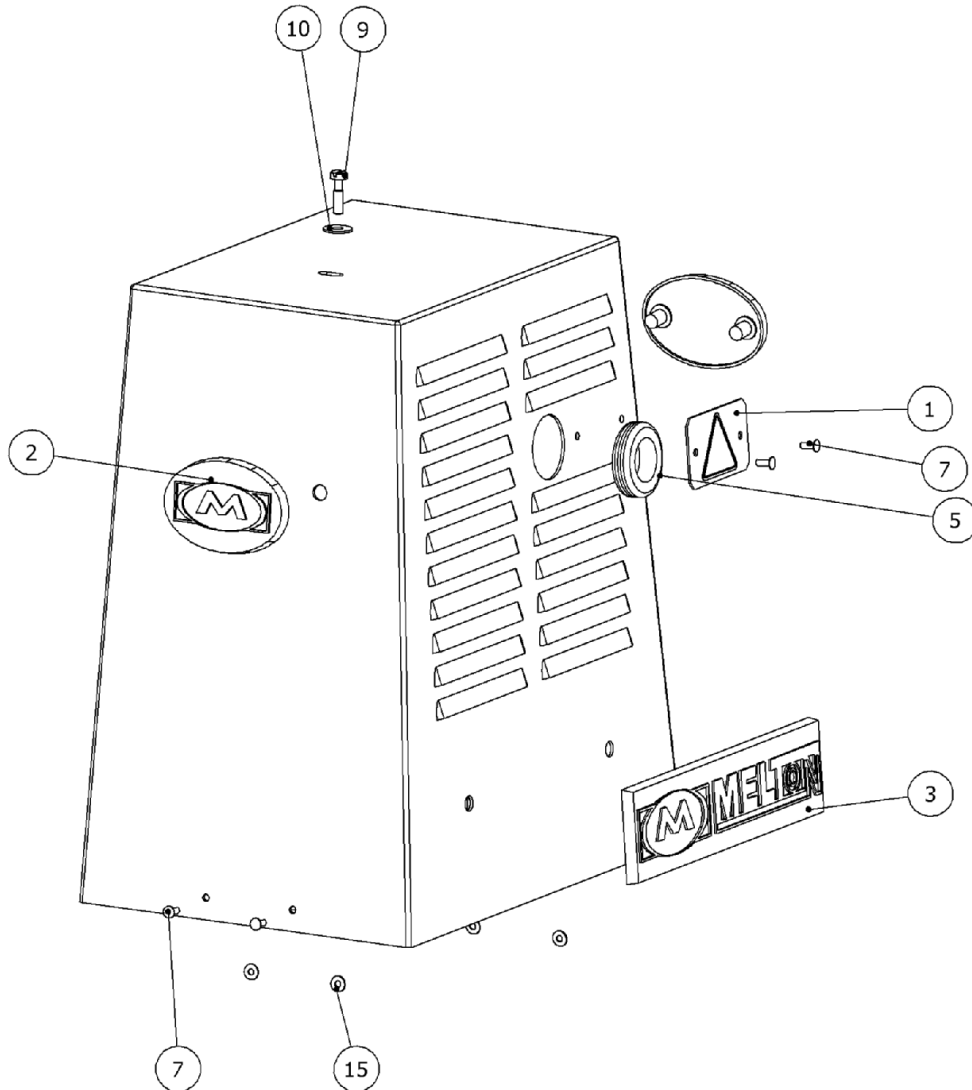
Nº	Descripción	Description	Ref.	Qty
1	CILINDRO Ø50 ALTA TEMPERATURA NMT	NMT Ø50 HIGH TEMPERATURE CYLINDER		1
2	BRIDA SUPERIOR CILINDRO NUMATICS	NUMATICS CYLINDER TOP BRIDLE	913XX397	1
3	ROTULA CILINDRO VALCO NITRURADO GASEOSO	VALCO CYLINDER KNEECAP	915XX374	1
4	DISTANCIAL CILINDRO VALCO CINCADO NEGRO	VALCO CYLINDER SPACER	915XX375	4
5	TORNILLO ALLEN M8X15 INOX.	ALLEN SCREW M8X15 STAINLESS	914XX067	2
6	SILENCIADOR LARGO G1/8-B	G1/8-B LARGE SILENCER	914XX041	2
7	RACOR RECTO R1/8 / R1/8-BN	R1/8 / R1/8-BN STRAIGHT FITTING	943XX091	1
8	ADAPTADOR ENCHUFE RAPIDO R/H	QUICK PLUG ADAPTER	918XX509	1
9	RACOR ALARGADOR M-H 1/8G-1/8G	M-H 1/8G-1/8G EXTENSION FITTING	913XX398	1

6. CONJUNTO CONTROL DE PRESIÓN / PRESSURE CONTROL ASSEMBLY: (917XX076)



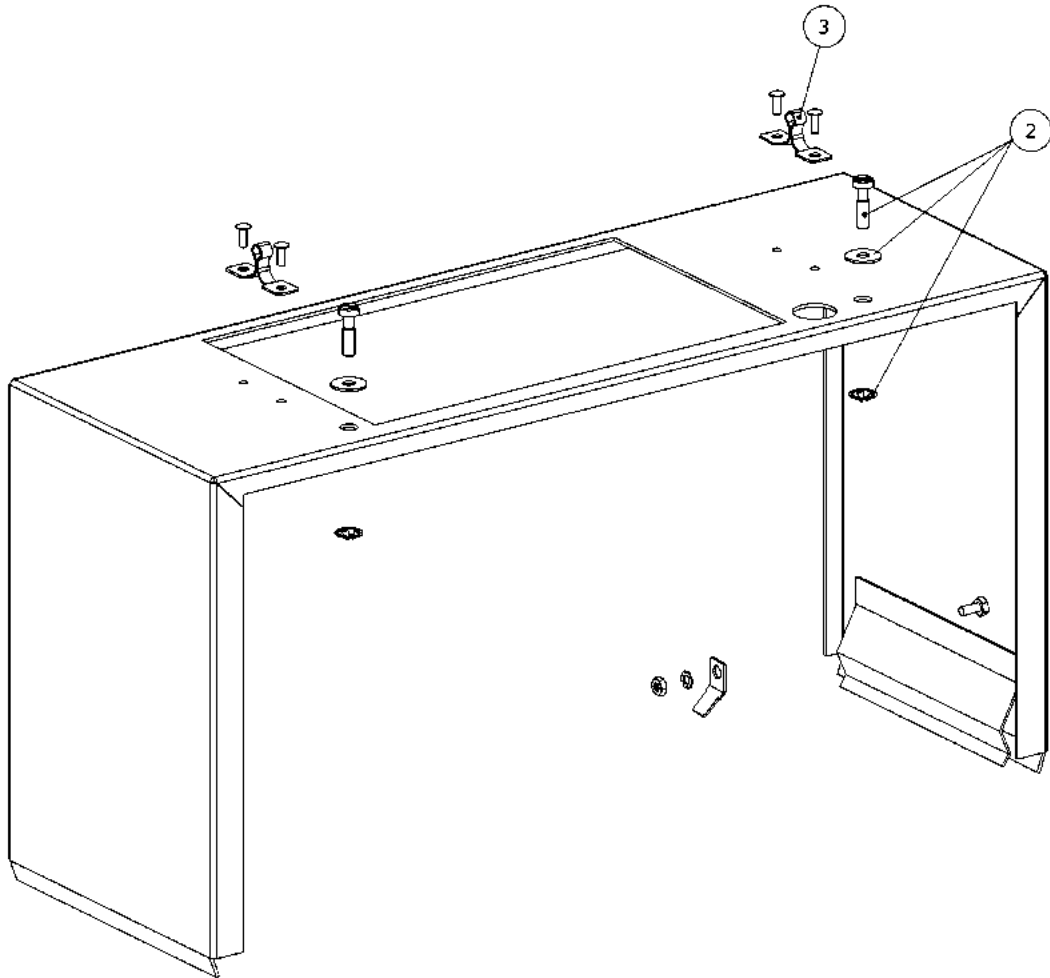
Nº	Denominación	Denomination	Ref.	Qty
1	Unidad filtro-regulador 1/4"G	1/4"G filter-manifold unit	914XX071	1
2	Manómetro	Manometer	914XX070	1
10	Protector de cuba modular	Protector	912XX283	1
3	Enchufe rápido conexión	Fast connector		1
4	Racor macho-macho 1/4"	1/4" male-male fitting		1
5	Adaptador macho - hembra 1/8"	Male - 1/8" female air fitting	914XX262	1
6	Reducción m 1/4"- h 1/8"	1/8" female - 1/4" male reducer	914XX080	1
9	Casquillo apertura	Opening fitting	914XX261	1
11	Capuchón flexible 17,4x25	17.4x25 plug		1
7	Electroválvula	Electric valve	910XX470	1
8	Mazo electroválvula	Electric valve connection	917XX099	1

7. CONJUNTO CARCASA BOMBA / PUMP COVER ASSEMBLY: (916XX267)



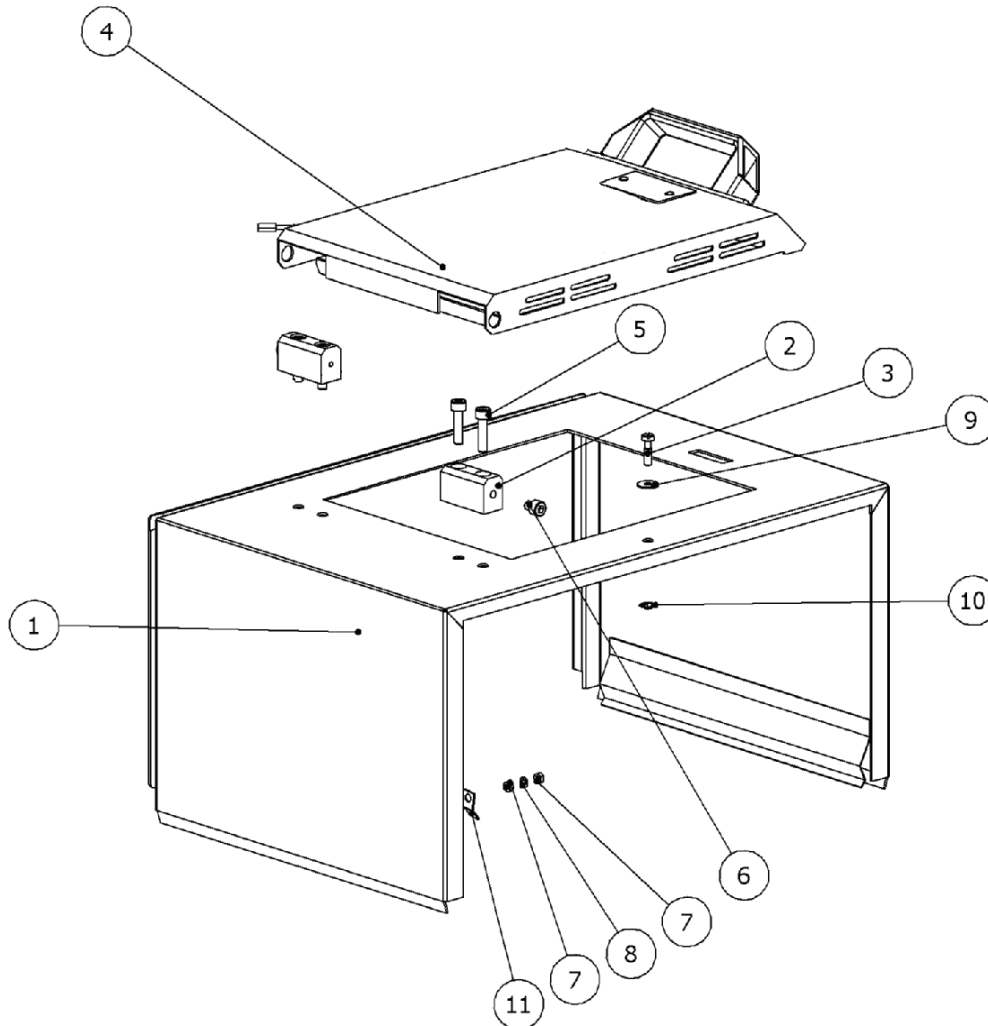
Nº	Denominación	Denomination	Ref.	Qty
1	Chapa presión	Pressure plate	914XX114	1
2	Anagrama circular	Symbol	919XX101	2
	Clip	Clip		4
3	Anagrama rectangular	Symbol		1
	Clip	Clip		2
5	Pasatabique goma dim. 18.5	18,5 rubber bulkhead		1
9	Tornillo amarre carcasa	Cover moor screw		1
10	Arandela plana 4.3x12.4 inox.	Stainless 4.3x12.4 flat washer	919XX108	1
	Arandela retención VISTOP M4	M4 VISTOP retention washer		1
	Cierre vaivén	Swinging closure	914XX109	2
15	Arandela plana 2.5x6.5 DIN125 inox	Stainless 2,5x6,5 DIN125 flat washer		4

8. CONJUNTO CARCASA TRASERA / REAR COVER ASSEMBLY: (917XX132)



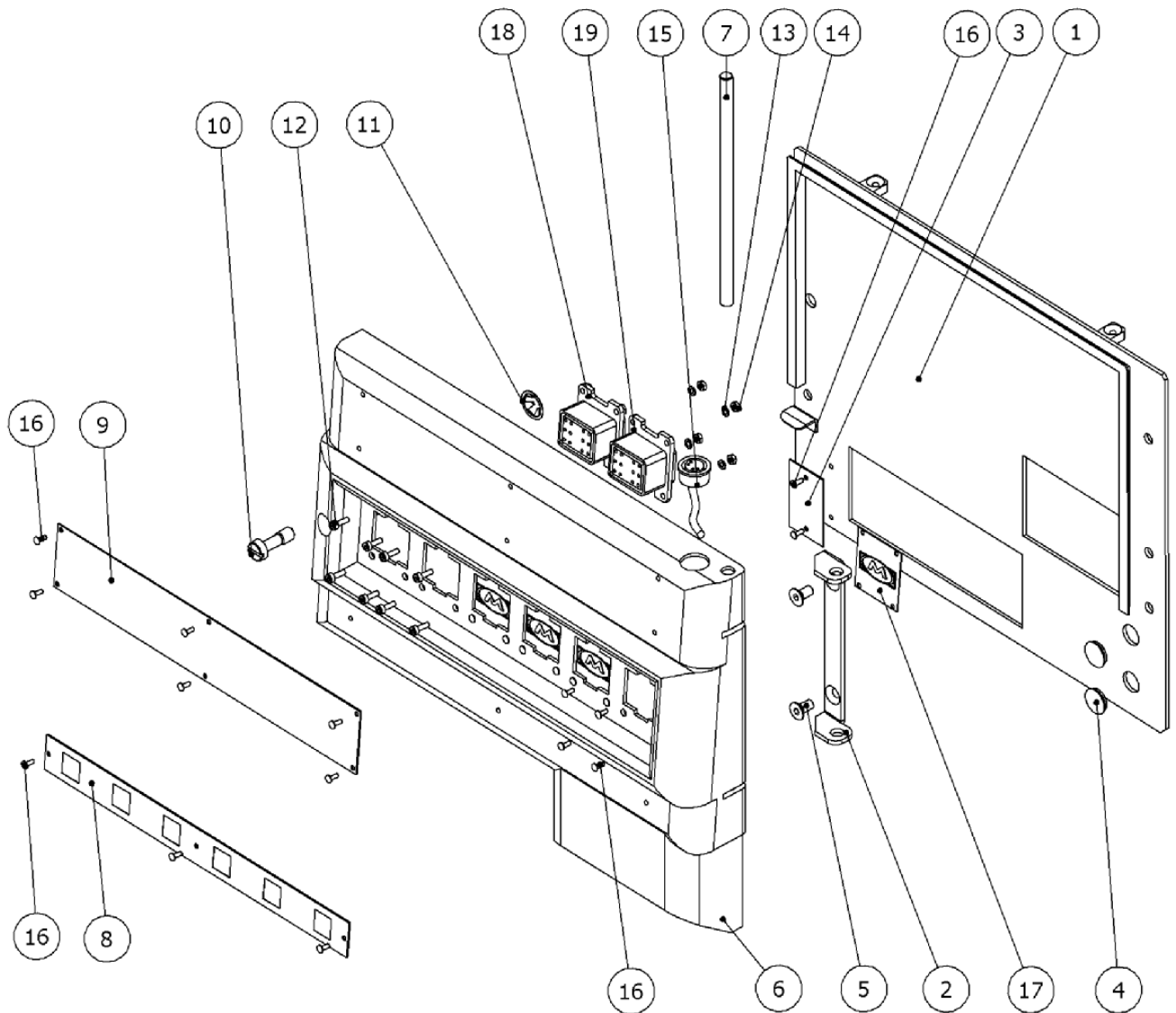
Nº	Denominación	Denomination	Ref.	Qty
2	Tornillo amarre carcasa	Cover moor screw	919XX108	1
	Arandela plana 4.3x12.4 inox.	Stainless 4.3x12.4 flat washer		1
	Arandela retención VISTOP M4	M4 VISTOP retention washer		1
3	Cierre vaivén	Swinging closure	914XX109	2

9. CONJUNTO CARCASA CENTRAL C4 / C4 CENTRAL COVER ASSEMBLY: (917XX130)



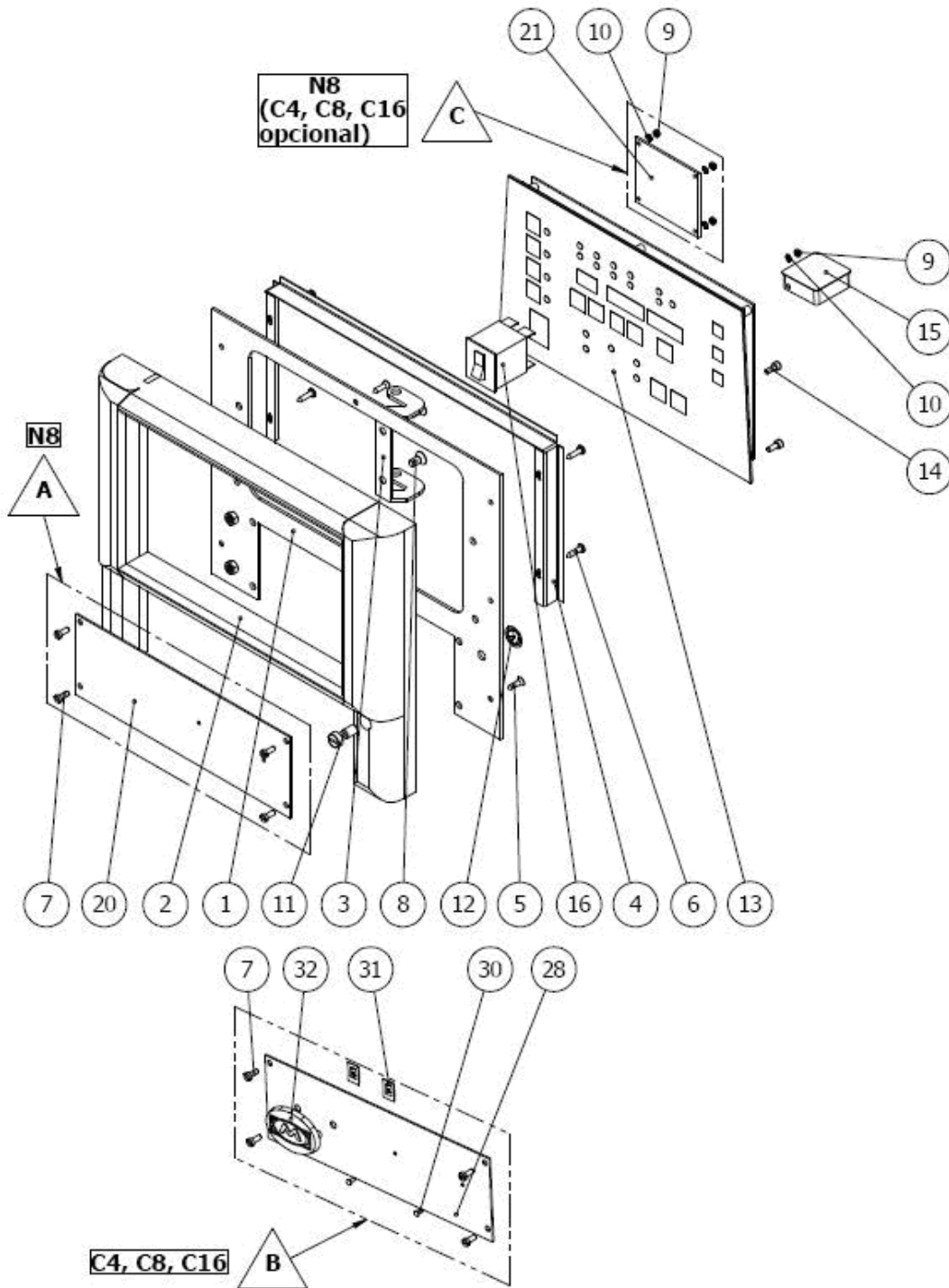
Nº	Denominación	Denomination	Ref.	Qty
2	Bisagra tapa depósito	Tank cover hinge	914XX147	2
5	Tornillo allen M5x20	M5x20 allen screw		4
6	Tornillo allen M5x6 inox	M5x6 allen screw		2
3	Tornillo amarre carcasas	Cover moor screw	919XX108	1
9	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 plane washer	919XX100	1
10	Arandela retención VISTOP M4	VISTOP M4 retention washer		1
1	Carcasa central C4	C4 central cover	914XX111	1
7	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		2
8	Arandela dentada M3	M3 indent washer		1
11	Terminal faston M-panel TE938	M-panel TE938 faston terminal		1
4	Tapa C4	C4 tank cover	917XX092	1
2	Bisagra tapa depósito	Tank cover hinge	914XX147	2
5	Tornillo allen M5x20	M5x20 allen screw	919XX099	4
6	Tornillo allen M5x6 inox	M5x6 allen screw		2

10. CONJUNTO PORTON TRASERO C4 / C4 REAR DOOR ASSEMBLY:



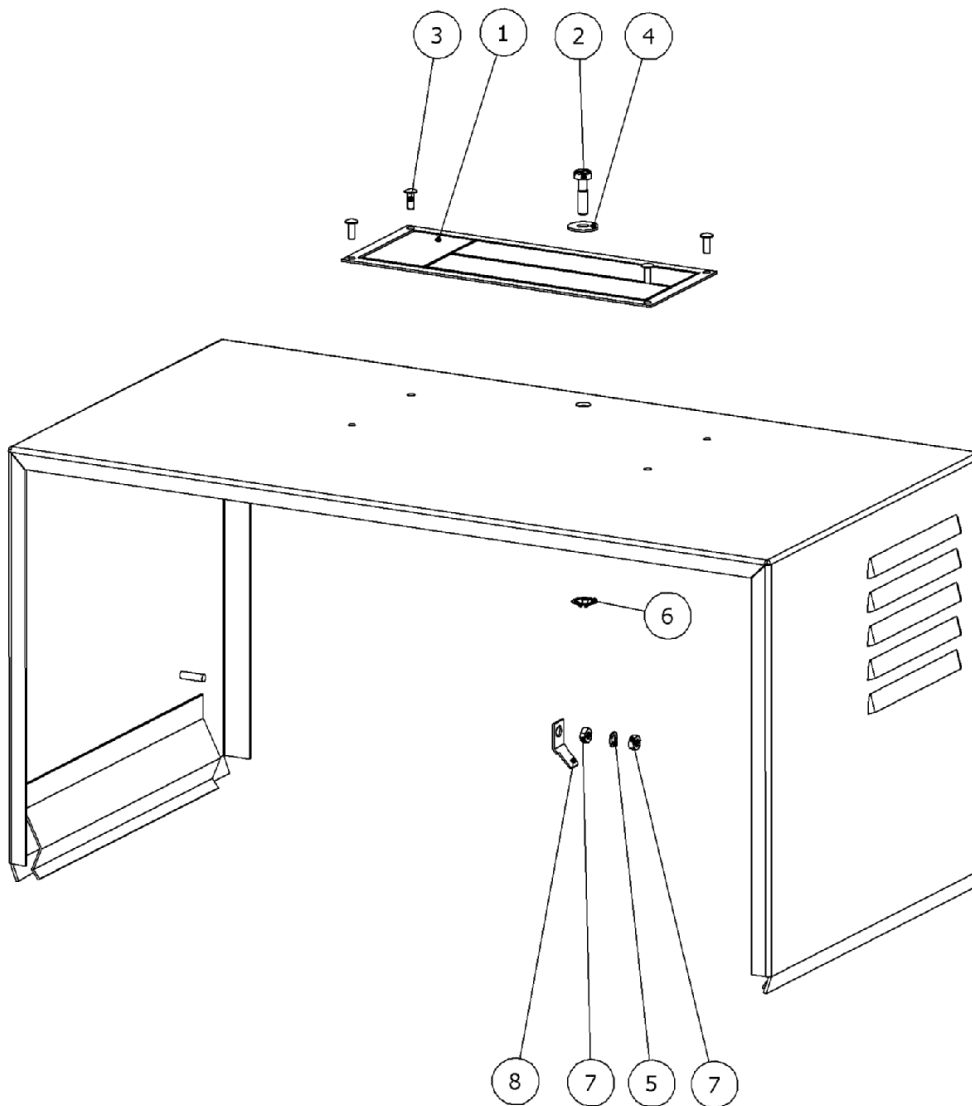
Nº	Descripción	Description	Ref.			Qty
1	Chapa trasera C	C rear plate	914XX140			1
2	Horquilla portón trasero	Rear door yoke	914XX102			1
3	Chapa advertencia calor	High temperature symbol		910XX708		1
4	Tapón goma	Rubber plug	914XX141			2
5	Tornillo avellanado M6x12	M6x12 screw				2
16	Remache pop 2.4x8	2,4x8 pop clinch			919XX090	11
6	Portón trasero C	C rear door	914XX101			1
7	Eje horquilla portón trasero	Rear door yoke axle		910XX730		1
8	Chapa inferior portón trasero	Rear door lower plate				1
9	Chapa superior portón trasero	Rear door upper plate				1
10	Tornillo amarre portón trasero	Rear door moor screw	910XX449			1
11	Arandela retención VISTOP para M8	M8 VISTOP retention washer				1
12	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw				4
13	Arandela dentada M3	M3 indent washer				4
14	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut				4
15	Mazo electroválvula interior	Inner valve connector		917XX098		1
17	Chapa sustitución conectores	Connector substitution plate		914XX100		1
18	Mazo potencia control manguera nº1	Nº1Hose connector		988XX155		1
19	Mazo potencia control manguera nº2	Nº2Hose connector		988XX114		1
	Mazo potencia control manguera nº3	Nº3 Hose connector		988XX084		1
	Mazo potencia control manguera nº4	Nº4 Hose connector		988XX085		1
	Mazo potencia control manguera nº5	Nº5 Hose connector		988XX156		1
	Mazo potencia control manguera nº6	Nº6 Hose connector		988XX157		1

11. CONJUNTO PORTON DELANTERO C4 / C4 FRONT DOOR ASSEMBLY: (919XX091)



Nº	Descripción	Description	Ref.	Qty	
1	Chapa portón delantero N8	Front door plate	914XX336	1	
2	Portón delantero	Front door	914XX117	1	
3	Horquilla portón delantero	Front door yoke	914XX120	1	
4	Vierteaguas chapa portón delantero	Front door water protector		1	
5	Tornillo avellanado rosca chapa 3.9x16	3,9x16 screw	915XX213	4	
6	Tornillo rosca chapa 3.9x16	3,9x16 screw	910XX299	4	
8	Tornillo avellanado M6x12	M6x12 screw	915XX248	2	
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		1	
10	Arandela dentada M3	M3 indent washer		1	
11	Tornillo amarre portón delantero	Front door moor screw	919XX095	1	
12	Arandela retención VISTOP M8	M8 VISTOP retention screw		910XX448	1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		911XX020	4
7	Tornillo cilíndrico con ranura M4x10	Stainless M4x10 grooved cylindrical screw	914XX122	4	
28	Chapa delantera	Front plate		1	
29	Chapa símbolo CE	CE Symbol plate		1	
30	Remache pop 2.4x8	2.4x8 pop clinch		2	
31	Clip	Clip		2	
32	Logotipo melton	Melton symbol		1	
13	Tarjeta de control 6 salidas	6 exit control board	918XX301	1	
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4	
13	Tarjeta de control 4 salidas	4 exit control board	918XX299	1	
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4	
15	Caja fusibles 6s	6 exit fuse box	988XX397	1	
	Caja fusibles 4s	4 exit fuse box	916XX265		
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		4	
10	Arandela dentada M3	M3 indent washer		4	
21	Tarjeta I/O	I/O card		1	
16	Mazo interruptor	Switch connector	917XX101	1	

12. CONJUNTO CARCASA DELANTERA C4 / C4 FRONT COVER ASSEMBLY: (917XX131)



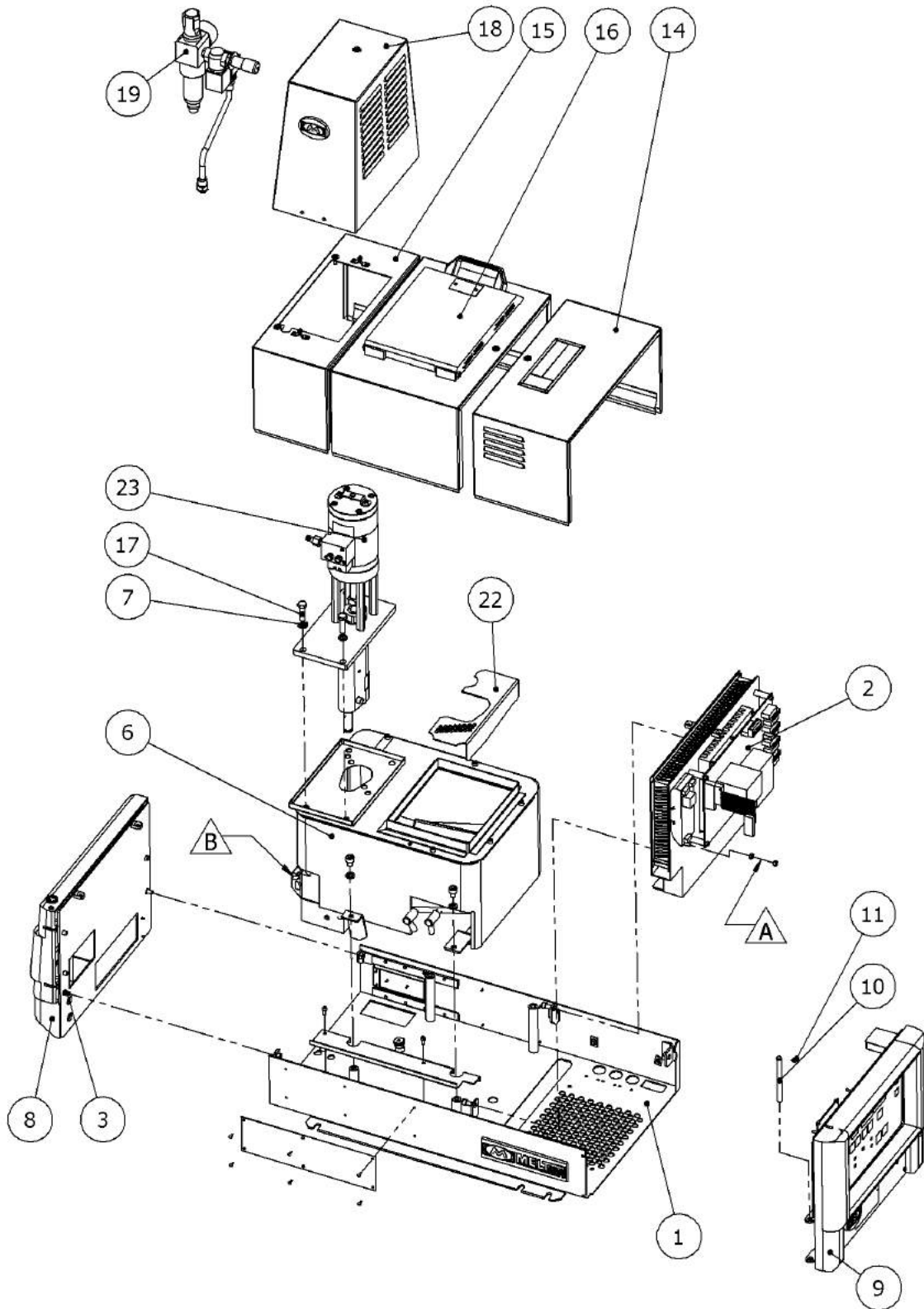
Nº	Denominación	Denomination	Ref.	Qty
1	Chapa carcasa delantera	Front cover plate	914XX115	1
2	Tornillo amarre carcasas	Cover moor screw		1
4	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 flat washer	919XX108	1
6	Arandela retención VISTOP M4	M4 VISTOP retention washer		1

**DESPIECE / PART LISTING
EQUIPO C8 BAJO CAUDAL
/C8 LOW FLOW EQUIPMENT**

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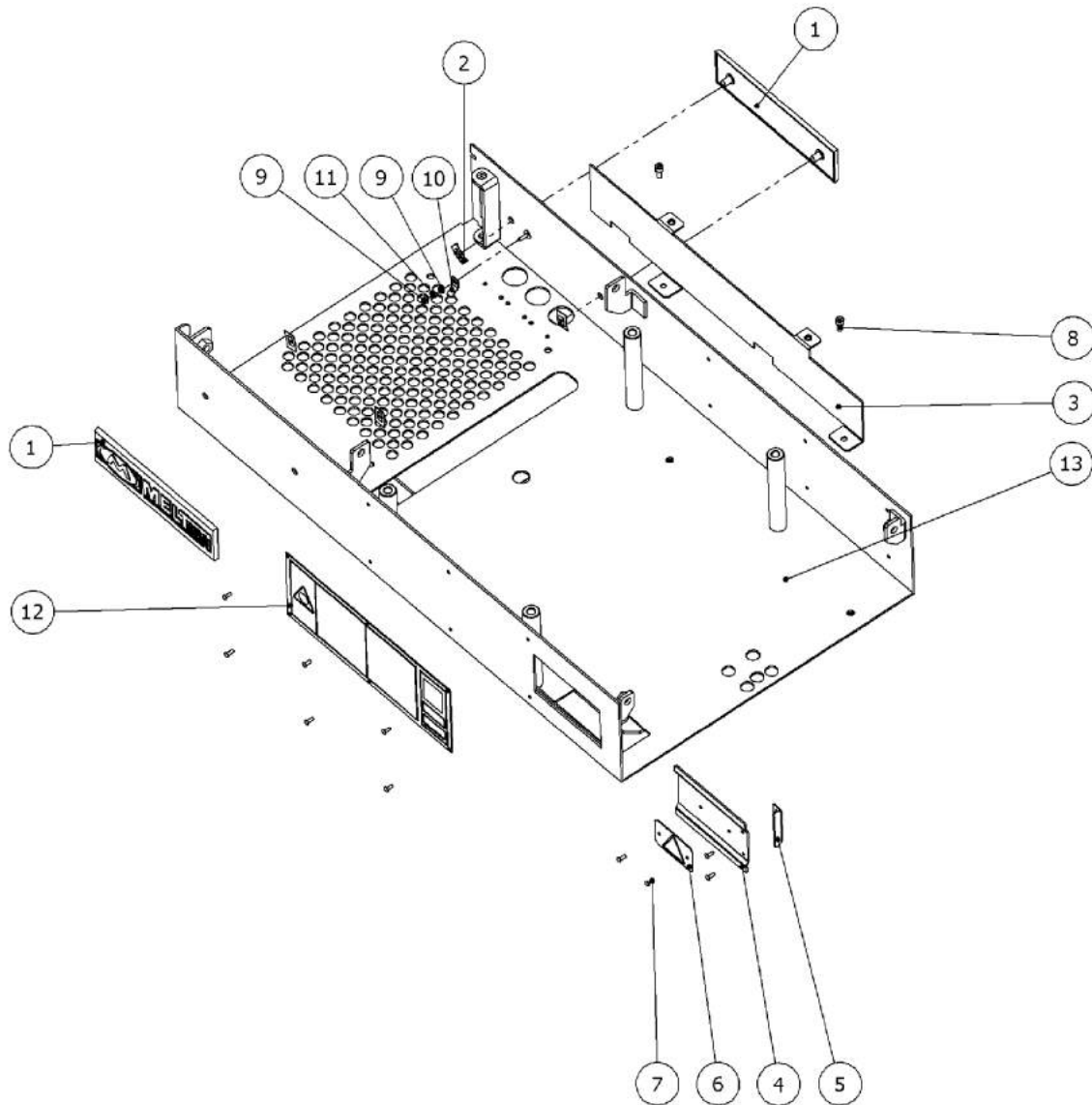
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1. CONJUNTO ENCOLADOR C8 / C8 EQUIPMENT ASSEMBLY:



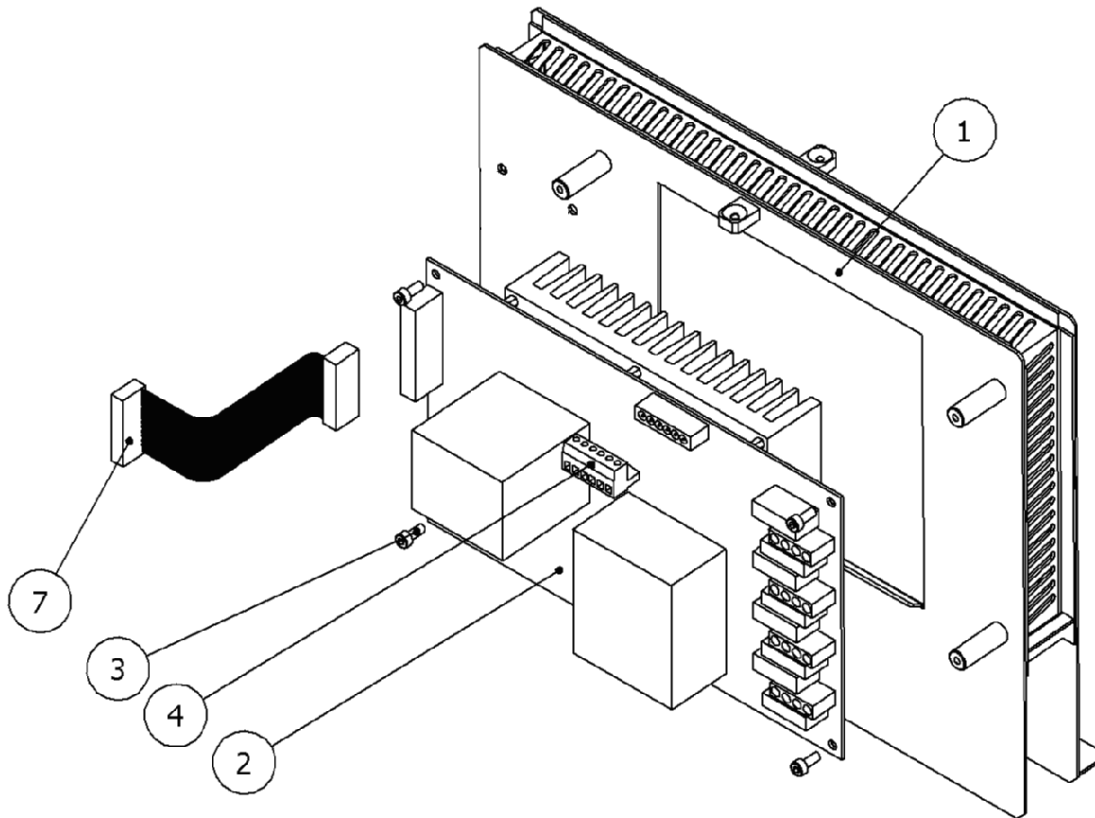
Nº	Descripción	Description	Ref.	Qty
1	Cuna serie C	C series base	919XX118	1
2	Tabique térmico serie C	Thermal wall C series	PAG.6	1
6	Conjunto deposito C8	C8 tank assembly	PAG.8	1
8	Conjunto portón trasero	Rear door assembly	PAG.19	1
3	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		4
9	Conjunto portón delantero	Front door assembly	919XX091	1
10	Eje horquilla portón delantero	Front door axle		1
11	Anillo elástico eje 8	Axle 8 elastic ring		1
14	Conjunto carcasa delantera	Front cover assembly	917XX131	1
15	Conjunto carcasa trasera serie C	Rear cover assembly	919XX119	1
16	Conjunto carcasa central serie C	Central cover assembly	918XX092	1
7	Arandela grover 8 inox.	Stainless 8 grover washer	916XX211	3
23	Conjunto bomba	Pump assembly		1
17	Tornillo hexagonal M8x30	M8x30 hexagonal screw		3
18	Carcasa bomba serie C	C series pump cover	916XX276	1
19	Manómetro serie C	C series manometer	PAG 21	1
22	Rejilla deposito C8	C8 tank grid	910XX982	1
A	Mazo tierra	Earth connector	914XX163	1
B	Mazo sonda níquel	Ni sensor connector	917XX072	1
	Mazo sonda PT-100	PT-100 sensor connector	916XX143	

2. CONJUNTO CUNA / BASE ASSEMBLY: (919XX118)



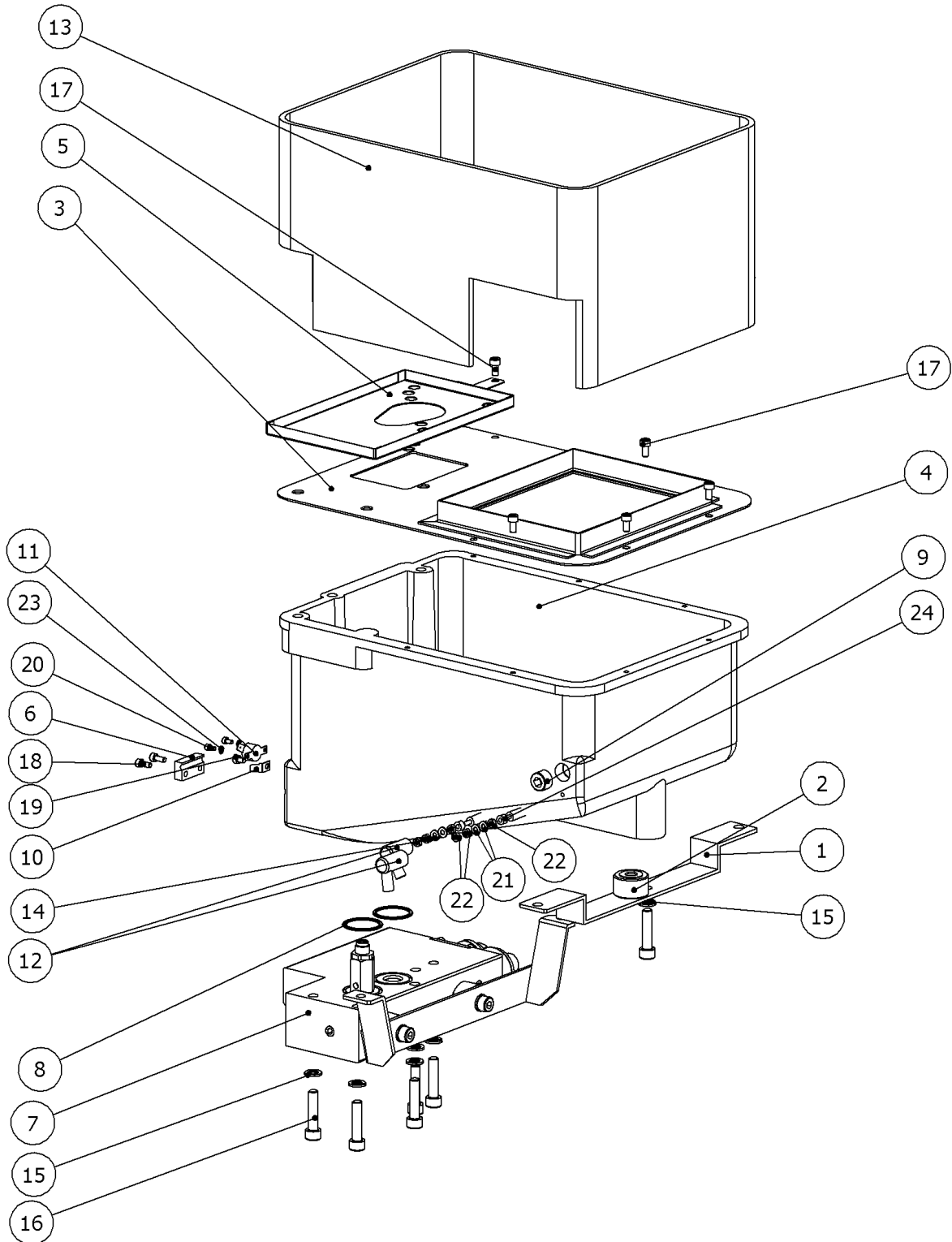
Nº	Descripción	Description	Ref.	Qty
1	Anagrama rectangular	Symbol		2
2	Clip	Clip		4
3	Canaleta y tapa paso cables	C4 Wiring guide and cover	919XX111	1
4	Chapa corredera filtro	Filter sliding plate	914XX138	1
5	Asidero corredera	Sliding handle	914XX139	1
6	Chapa presión	Pressure plate	914XX114	1
7	Remache pop 2.4x8	2.4x8 rivet		10
8	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	2
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal washer		2
10	Terminal faston M-panel	M-panel faston terminal		1
11	Arandela dentada M3	M3 washer		1
12	Chapa lateral filtro	Lateral filter plate		1
13	Conjunto cuna C8	C8 base		1

3. CONJUNTO TABIQUE TERMICO/THERMAL WALL ASSEMBLY:



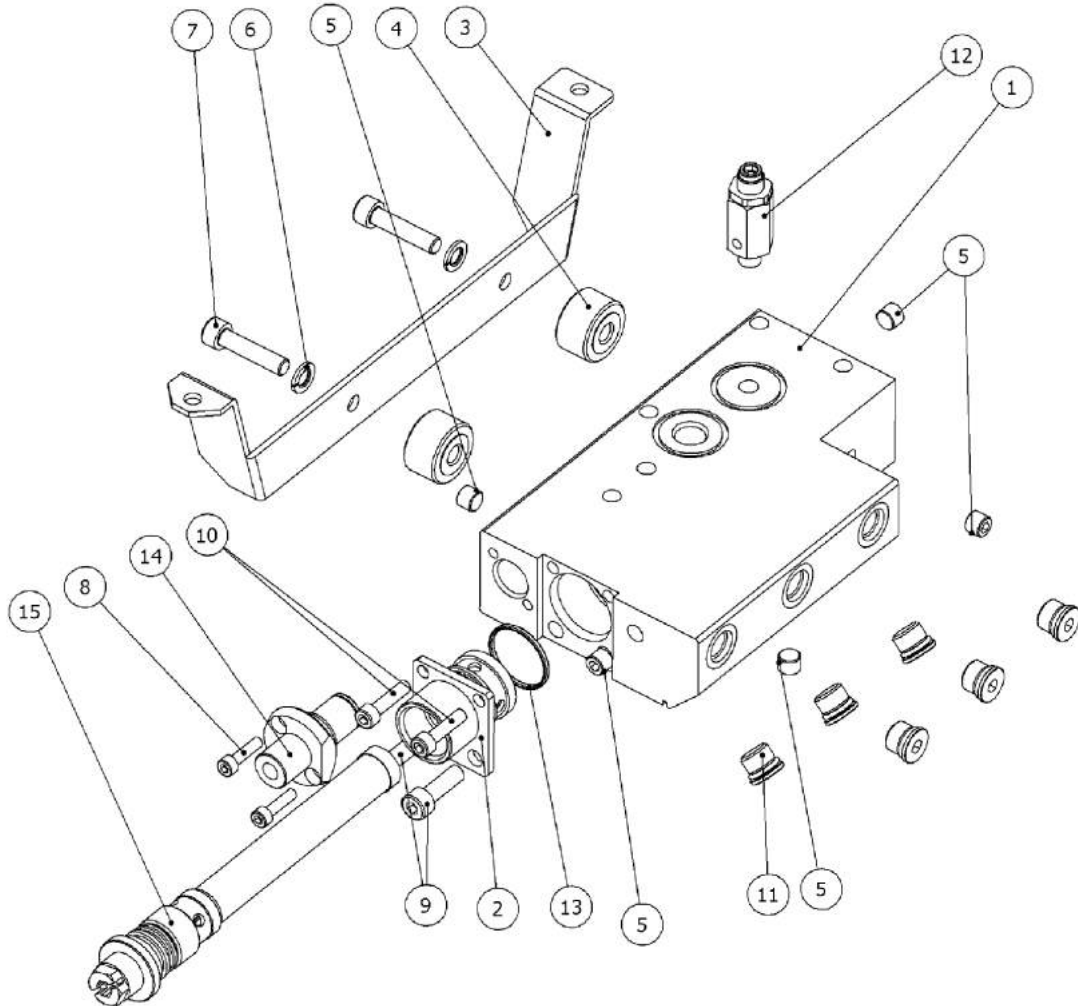
Nº	Descripción	Description	Ref.	Qty
1	Tabique térmico 4 salidas	4 exit thermal wall	914XX136	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
1	Tabique térmico 6 salidas	6 exits thermal wall	919XX107	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
2	Tarjeta potencia 4 Salidas	4 exit power card	910XX626	1
3	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
4	Conector tarjeta 6 polos	6 poles card connector		1
2	Tarjeta potencia 6 salidas	6 exits power card	919XX354	1
	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		6
	4	Conector tarjeta 6 polos		6 poles card connector
7	Mazo interconexión	Connector	914XX160	1

4. CONJUNTO DEPOSITO C8 / C8 TANK ASSEMBLY:



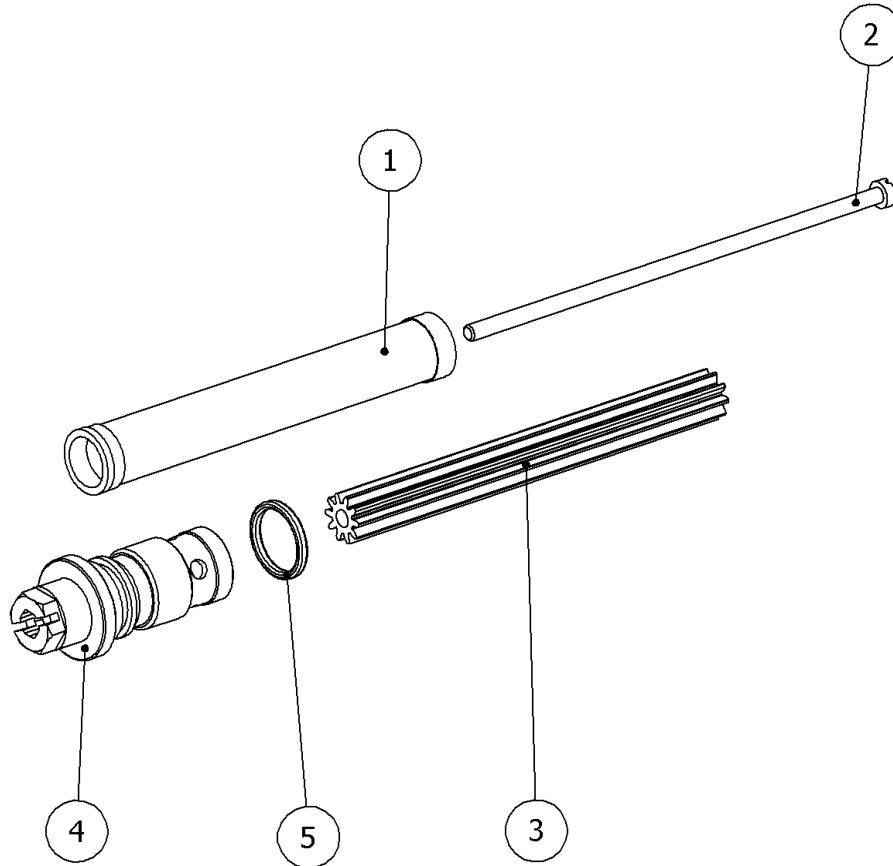
Nº	Descripción	Description	Ref.	Qty
1	Pata delantera depósito	Tank front leg	914XX061	1
2	Aislante pata depósito	Insulation	910XX072	1
3	Chapa boca depósito	C4 tank top plate	910XX979	1
4	Subconjunto depósito	C4 tank		1
5	Bandeja bomba	Pump support	910XX980	1
6	Brida sonda	Sensor bridle	914XX169	1
8	Junta tórica viton 30x2	30x2 viton o´ring	914XX090	2
9	Tapón 3/8" GAS	3/8" GAS plug	910XX414	1
10	Terminal faston M-panel TE-938	Faston M-panel TE-938 terminal		1
12	Capuchón aislamiento bornas	Insulation plug		2
13	Manta aislante C8	C4 thermal insulation	918XX126	1
14	Mazo resistencia depósito	Tank heater connector		1
15	Arandela grover 8 inox.	Stainless 8 grover washer		6
16	Tornillo allen 8x35 inox.	Stainless 8x35 allen screw		6
17	Tornillo allen M5x10 inox.	Stainless M5x10 allen screw		5
18	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		2
19	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw		1
21	Arandela M4 Al Latón Niquelada	M4 washer		4
22	Tuerca hexagonal M3,5x7x2,5 THB	M3,5x7x2,5 hexagonal nut		6
24	Casquillo resistencia	Heater cover		2
7	Distribuidor serie C	C series manifold	917XX077	1
11	Mazo termostato 240°C N/C	240° thermostat connector		1
20	Tornillo allen M3x6 inox.	Stainless M3x6 allen screw	918XX162	2
23	Arandela dentada M3	M3 indent washer		2

4.1. CONJUNTO DISTRIBUIDOR / MANIFOLD ASSEMBLY: (917XX077)



Nº	Descripción	Description	Ref.	Qty
1	Distribuidor serie C con helicoils	Serie C manifold with helicoils	916XX843	1
2	Brida rosca filtro N	Filter screw bridle	914XX286	1
3	Pata distribuidor	Support manifold	914XX087	1
4	Aislante pata depósito	Insulation	910XX072	2
5	Tapón 1/8" GAS	1/8" GAS plug	910XX001	5
6	Arandela grover 8 inox.	Stainless 8 grover washer		2
7	Tornillo allen M8x35 inox.	Stainless M8x25 allen screw		2
8	Tornillo allen M5x20 inox.	Stainless M5x20 allen screw		2
9	Tornillo allen M8x25 inox.	Stainless M8x25 allen screw		2
10	Tornillo allen M6x25 Inox.	Stainless M6x25 allen screw		2
11	Tapón 9/16" con junta	9/16" with joint plug	917XX031	6
12	Conjunto válvula de seguridad 4000	4000 security valve assembly	917XX087	1
13	Junta tórica viton 30x2	Viton 30x2 o´ring	914XX090	1
14	Subconjunto purgador C	Draining valve assembly	917XX086	1
15	Filtro tanque malla N	Filter assembly	Pag. 10	1

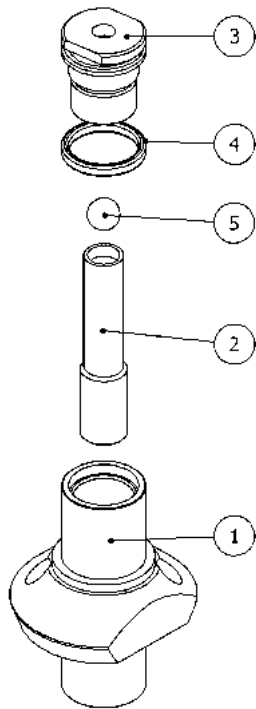
4.1.1. CONJUNTO FILTRO / FILTER ASSEMBLY:



Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla fina	Thin filter screen				1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring	917XX079	916XX256	916XX243	1
	Junta tórica viton 24x2	24x2 viton o´ring				1
	Junta tórica viton 20x2	20x2 viton o´ring				1
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

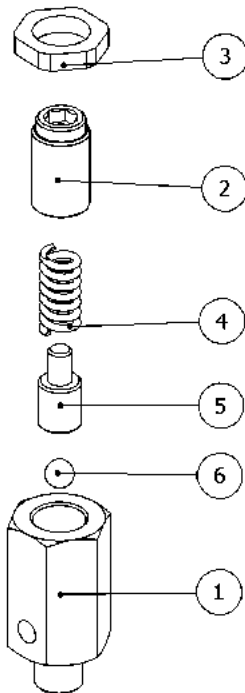
Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla gruesa	Thick filter screen				1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring	917XX080	918XX028	916XX242	1
	Junta tórica viton 24x2	24x2 viton o´ring				1
	Junta tórica viton 20x2	20x2 viton o´ring				1
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

4.1.2. CONJUNTO PURGADOR / DRAINING VALVE ASSEMBLY (917XX086):



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo purgador C	Draining valve body	914XX093	1
2	Espárrago purgador C	Draining valve rod	914XX086	1
5	Bola acero 7	7 steel ball		1
3	Punta purgador C	Draining valve tip	914XX092	1
4	Junta tórica viton 15x2	15x2 viton o-ring	914XX091	1

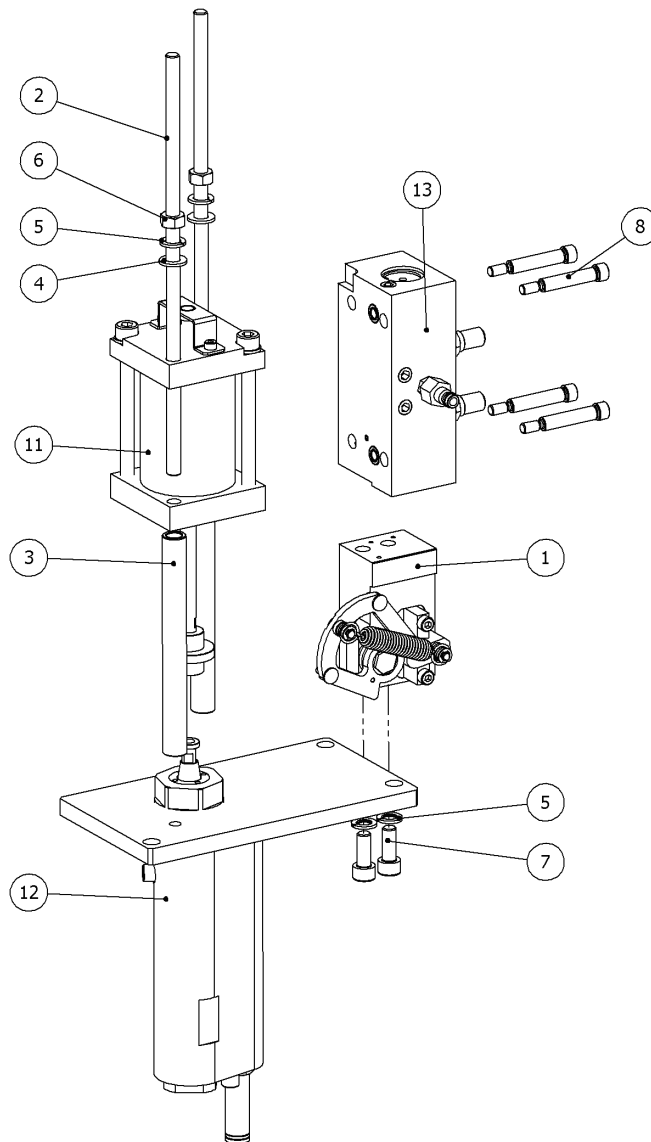
4.1.3. CONJUNTO VALVULA DE SEGURIDAD / SECURITY VALVE ASSEMBLY: (917XX087)



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo válvula	Valve body	914XX097	1
2	Casquillo regulador muelle	Loading screw	910XX209	1
3	Tuerca trasera	Retaining nut	910XX208	1
4	Muelle	Spring	915XX388	1
5	Pivote centraje bola	Spring mount	910XX206	1
6	Bola acero 6	6 steel ball	914XX094	1

5. A) CONJUNTO BOMBA / PUMP ASSEMBLY:

Nota: Valido para equipos hasta número de serie 8350
/ Note: Valid for equipments with serial number up to 8350

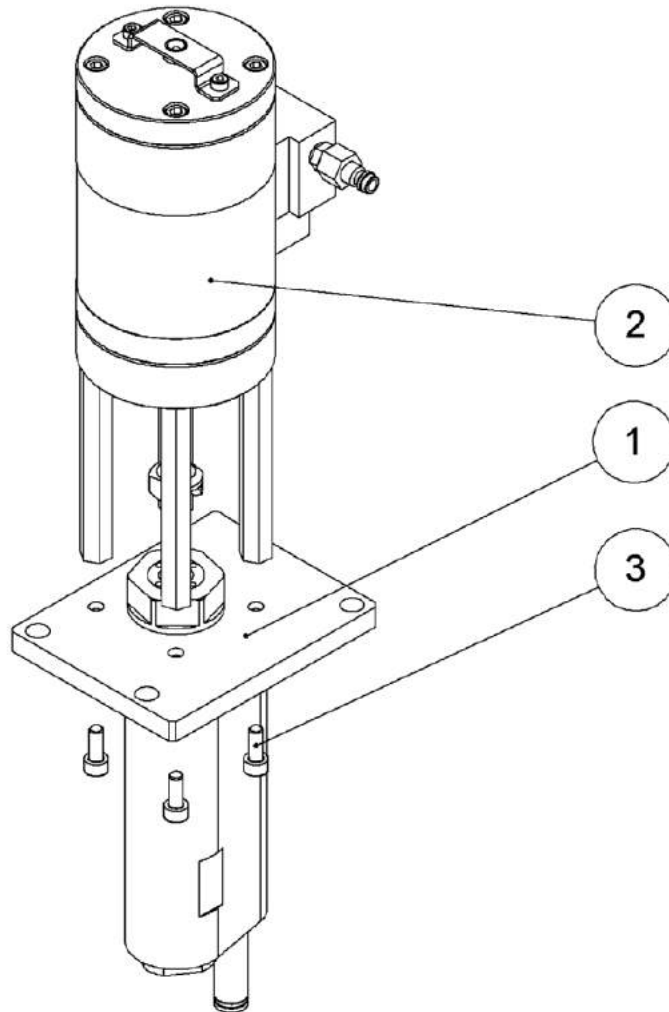


Nº	Descripción	Description	Ref.	Qty
1	Subconjunto cambio	Change subassembly		1
5	Arandela grover 8 inox.	Stainless 8 grover washer	910XX135 919XX109	2
7	Tornillo allen M8x20 inox.	M8x20 allen screw	915XX190	2
2	Tirante cilindro	Cylinder stay	916XX287	2
3	Distancial cilindro	Cylinder spacer		2
4	Arandela plana M8 inox.	Stainless 8 flat washer		2
5	Arandela grover 8 inox.	Stainless 8 grover washer		2
6	Tuerca hexagonal M8 inox.	M8 hexagonal nut		2
11	Subconjunto cilindro	Cylinder subassembly		917XX064
12	Subconjunto grupo hidráulico	Hydraulic group assembly		1
13	Subconjunto válvula	P cylinder assembly	917XX065	1
8	Tornillo cuerpo válvula	Body valve screw		4

5. B) CONJUNTO BOMBA / PUMP ASSEMBLY (916XX211)

Nota: Valido para equipos con nº de serie desde 8351 hasta 11493

/ Note: Valid for equipments with serial number from 8351 to 11493

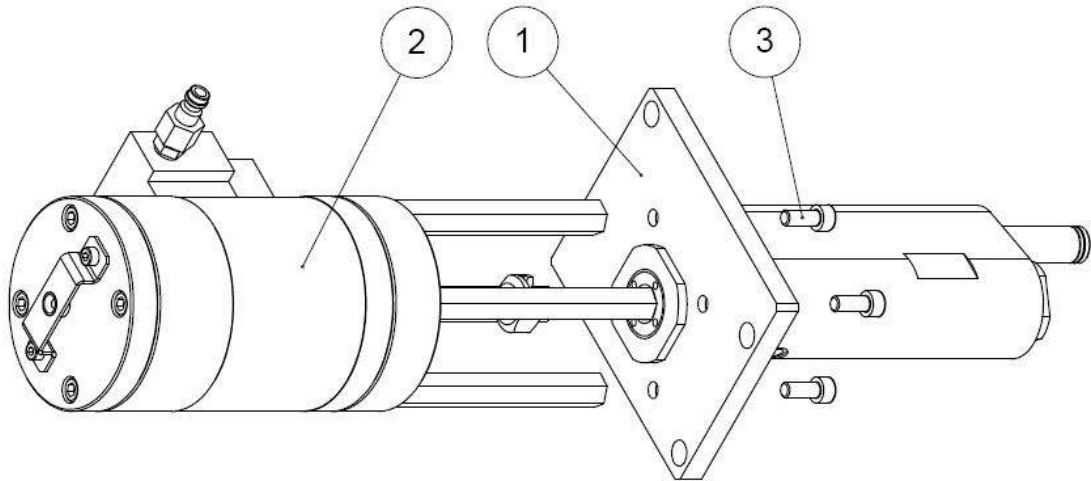


Nº	Descripción	Description	Ref.	Qty
1	Subconjunto hidráulico P	Hydraulics assembly	PAG 16	1
2	Subconjunto cilindro P	P cylinder assembly	PAG 22	1
3	Tornillo allen M6x15 inox. KIT juntas cilindro	Stainless M6x15 allen screw Cylinder o-rings KIT	915XX090 916XX660	4

5. C) CONJUNTO BOMBA / PUMP ASSEMBLY (916XX654)

Nota: Valido para equipos con número de serie desde 11494

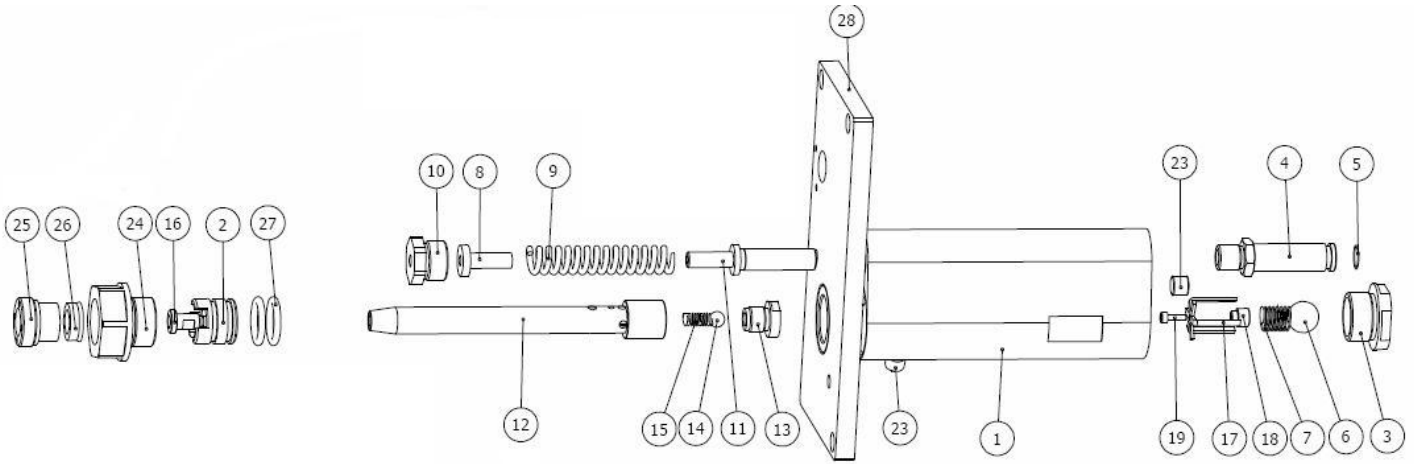
/ Note: Valid for equipments with serial number from 11494



Pos.	Denominación	Denomination	Ref.	Cant.
1	Subconjunto hidráulico bomba serie C-LF	Hydraulics assembly C-LF series	PAG 18	1
2	Subconjunto cilindro V	V cylinder assembly	PAG 22	1
3	Tornillo allen M6x15 inox. KIT juntas cilindro	Stainless M6x15 allen screw Cylinder o-rings KIT	915XX090 916XX660	4

5.1.A) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY

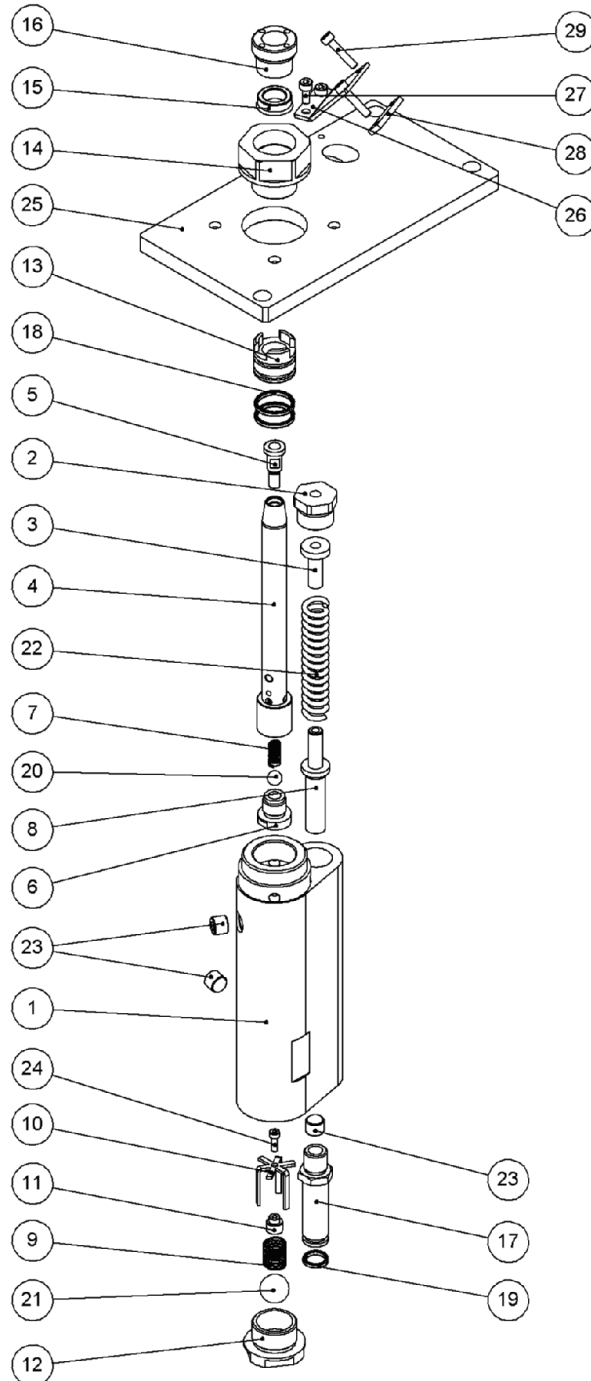
Nota: Valido para equipos hasta número de serie 8350
/ Note: Valid for equipments with serial number up to 8350



No.	Descripción	Description	Ref.	Qty.
1	Cuerpo bomba	Pump body	916XX280	1
2	Casquillo ajuste eje	Bushing	918XX263	1
3	Válvula aspiración	Aspiration valve		1
4	Tubo impulsión	Crossover tube		1
5	Junta torica viton 10x2	Viton o'ring 10x2	910XX049	1
6	Bola 16	Ball 16		1
7	Muelle válvula aspiración	Aspiration valve spring		1
8	Guía válvula compensación	Compensating valve guide		1
9	Muelle 8x16x76	Spring 8x16x76		1
10	Tapón válvula compensación	Compensating valve plug	914XX032	1
11	Eje guía válvula compensación	Compensation valve axle slide	914XX022	1
12	Eje bomba	Puma shaft		1
13	Válvula compresión	Compression valve		1
14	Bola 8	Ball 8	910XX122	1
15	Muelle válvula compresión	Compression valve spring	914XX032	1
16	Pivote eje bomba	Pump axle pivot		1
17	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031	1
18	Tope bola válvula aspiración	Aspiration valve ball limit		1
19	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw		1
23	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001	3
24	Tornillo amarre bomba modificado	Pump moor modified screw	914XX347	1
	Tuerca fijación junta cuello modificado	Joint fixing nut	914XX346	1
25	Junta collarín eje bomba	Pump axle joint	914XX345	1
27	Junta tórica viton 19x2	19x2 Viton o'ring	911XX718	2
28	Placa base bomba	Pump base plate	911XX112	1

5.1.B) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY: (919XX120)

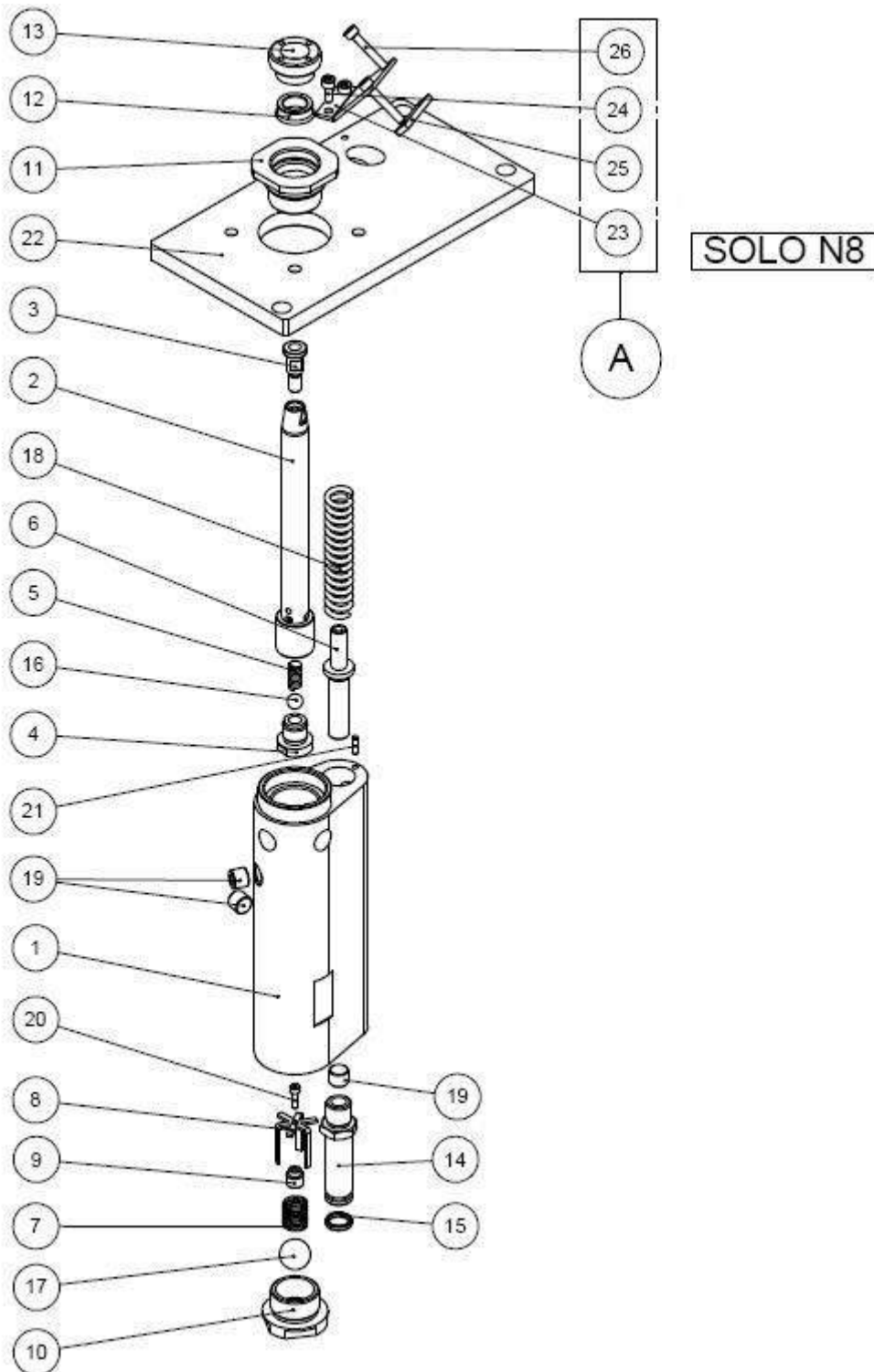
Nota: Valido para equipos con número de serie desde 8351 / Note: Valid for equipments with serial number from 8351



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo bomba	Pump body	914XX023	1
2	Tapón válvula compensación	Compensation valve plug	914XX020	1
3	Guía muelle válvula compensación	Compensation valve spring guide	914XX021	1
8	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1
22	Muelle DANLY 8x16x76 rojo	DANLY 8x16x76 red spring	910XX407	1
4	Eje bomba	Pump axle	914XX027	1
5	Pivote eje bomba	Pump axle pivot		1
13	Casquillo ajuste eje	Axle adjustment bushing		1
14	Tornillo amarre bomba modificado	Pump moor modified screw	914XX347	1
15	Junta collarín eje bomba	Pump axle joint	915XX467	1
16	Tuerca fijación junta cuello modificado	Joint fixing nut	914XX346	1
18	Junta tórica viton 19x2	19x2 viton o´ring	911XX718	2
6	Válvula compresión	Compression valve	914XX030	1
7	Muelle válvula compresión	Compression valve spring	914XX343	1
9	Muelle válvula aspiración	Aspiration valve spring	914XX032	1
10	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031	1
11	Tope bola válvula aspiración	Aspiration valve ball limit		1
12	Válvula aspiración	Aspiration valve	914XX034	1
21	Bola 16	16 ball	910XX119	1
24	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw	910XX084	1
17	Tubo impulsión	Impulsion tube	914XX024	1
19	Junta tórica viton 10x2	10x2 viton o´ring		1
20	Bola 8	8 ball	910XX122	1
23	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001	3
25	Placa base bomba P valco	P valco Pump base plate	915XX381	1
26				
27	Only for N8 Series	Only for N8 Series		
28				
29				
15				
18	Kit juntas	O´rings kit	918XX077	1
19				

5.1.C) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC ASSEMBLY (916XX666)

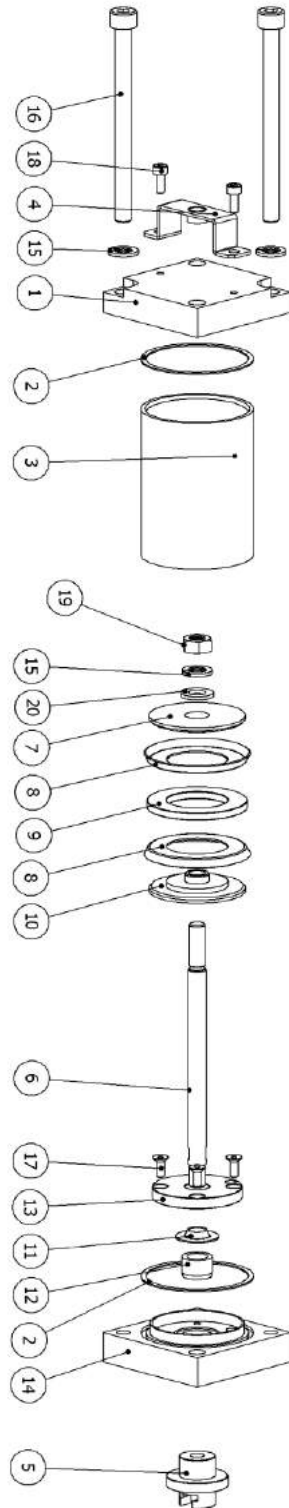
Nota: Valido para equipos con número de serie desde 11494
/ Note: Valid for equipments with serial number from 11494



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo bomba	Pump body		1
6	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1
18	Muelle DANLY 8x16x76 rojo	DANLY 8x16x76 red spring	910XX407	1
2	Eje bomba	Pump axle	914XX027	1
3	Pivote eje bomba	Pump axle pivot		1
11	Tornillo portajunta bomba LF	LF pump bracket screw	915XX468	1
12	Junta collarín eje bomba	Pump axle joint	915XX467	919XX328
13	Tuerca portajunta bomba	Pump bracket nut	915XX471	
4	Válvula compresión	Compression valve	914XX030	1
5	Muelle válvula compresión	Compression valve spring	914XX028	1
7	Muelle válvula aspiración	Aspiration valve spring	914XX032	916XX327
8	Guía bola válvula aspiración	Aspiration valve ball guide	914XX031	
9	Tope bola válvula aspiración	Aspiration valve ball limit		
10	Válvula aspiración	Aspiration valve	914XX034	
17	Bola 16	16 ball	910XX119	
20	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw	910XX084	
14	Tubo impulsión	Impulsion tube	914XX024	
15	Junta tórica viton 10x2	10x2 viton o´ring		1
16	Bola 8	8 ball	910XX122	1
19	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001	3
22	Placa base bomba C8P	C8P Pump base plate		1
21	Pasador cilindrico 3x10	3x10 cylindrical rod	910XX581	
23				
24	Only for N8 Series	Only for N8 Series		
25				
26				

5.2. A) CONJUNTO CILINDRO / CYLINDER ASSEMBLY (917XX064)

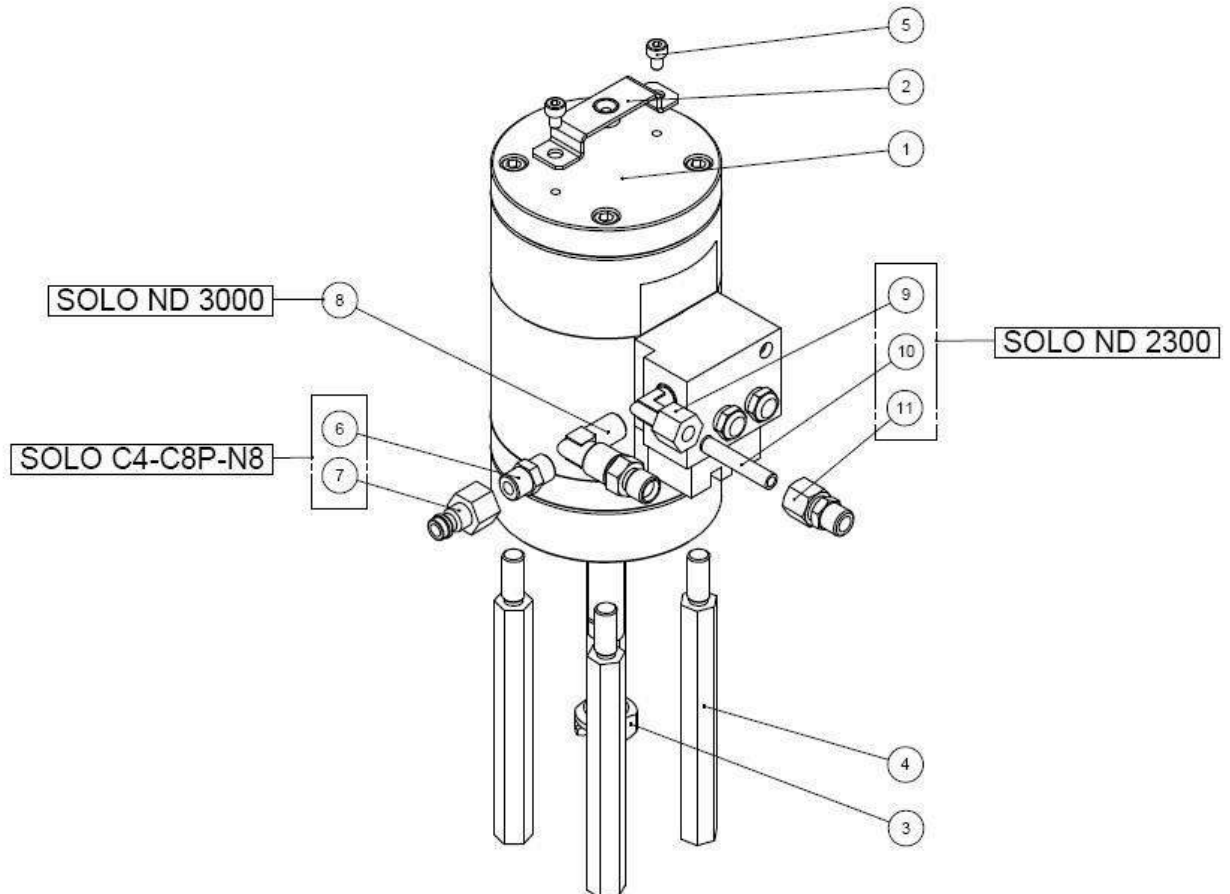
Nota: Valido para equipos hasta número de serie 8350
/ Note: Valid for equipments with serial number up to 8350



Nº	Descripción	Description	Ref.	Qty
1	Culata superior cilindro	Cylinder head	914XX002	1
2	Junta culata cilindro	Cylinder head seal	914XX003	2
3	Camisa cilindro	Cylinder	914XX004	1
4	Horquilla amarre	Cover bracket	914XX001	1
5	Soporte escuadra	Pump shaft connection	914XX016	1
6	Eje cilindro	Cylinder shaft	914XX013	1
7	Plato superior émbolo cilindro	Top piston disk	914XX005	1
8	Junta émbolo cilindro	Piston cup washer	914XX006	2
9	Anillo émbolo cilindro	Piston cup	914XX007	1
10	Plato inferior émbolo cilindro	Bottom piston disk	914XX008	1
11	Junta embutida eje cilindro	Shaft seal	914XX014	1
12	Casquillo guía eje cilindro	Bushing guide	915XX368	1
13	Arandela junta eje cilindro	Shaft seal mount	914XX009	1
14	Culata inferior cilindro	Pump cylinder base	914XX010	1
15	Arandela grover 8 inox.	Washer grower M8	910XX135	3
16	Tornillo allen M8x100 inox.	Allen screw M8x100	914XX011	2
17	Tornillo avellanado allen M4x10 inox.	Allen screw avell. M4x10	910XX052	4
18	Tornillo allen M4x10 inox.	Allen screw M4x10	910XX129	2
19	Tuerca hexagonal M8 inox.	Nut M8	910XX151	1
20	Arandela plana M8 inox.	Washer plane M8	910XX409	1

5.2.B) CONJUNTO CILINDRO / CYLINDER ASSEMBLY (919XX112)

**Nota: Valido para equipos con número de serie desde 8351
/ Note: Valid for equipments with serial number from 8351**

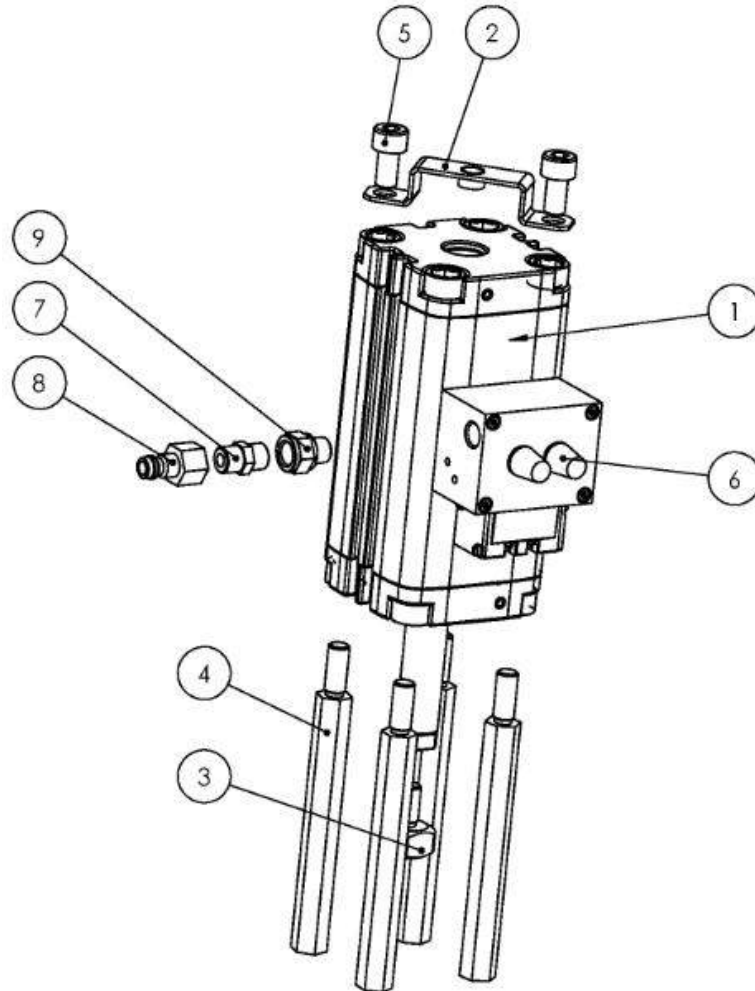


Nº	Denominación	Denomination	Ref.	Qty
1	Cilindro neumático valco	Pneumatic cylinder	915XX373	1
2	Brida superior cilindro valco	Cylinder upper bridle	919XX113	1
5	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw		2
3	Rotula cilindro valco	Cylinder ball-and-socket joint	915XX374	1
4	Distancial cilindro valco	Cylinder spacer	915XX375	4
6	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
7	Macho del enchufe rápido	Fast connector male	988XX016	1
8	No lleva	Don't have		
9				
10				
11				

5.2.C) CONJUNTO CILINDRO NMT / NMT CYLINDER ASSEMBLY (913XX348)

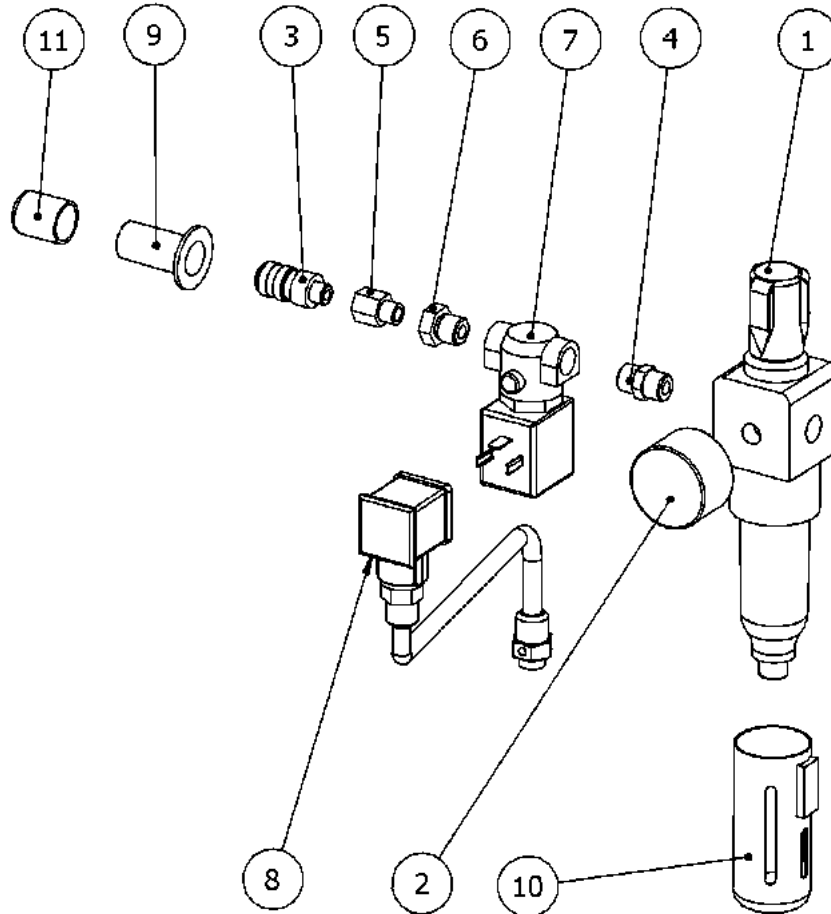
Nota: Valido para equipos con número de serie desde 16333

Note: Valid for equipment with serial number from 16333



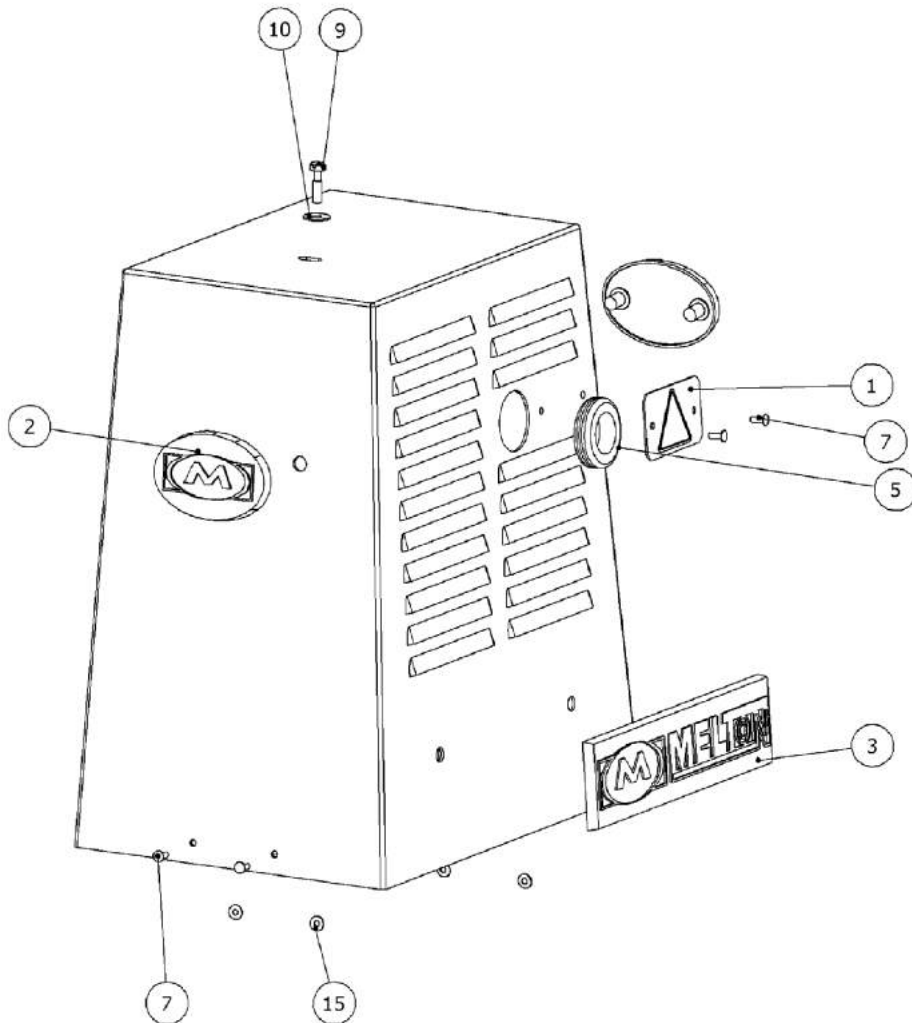
Nº	Descripción	Description	Ref.	Qty
1	CILINDRO Ø50 ALTA TEMPERATURA NMT	NMT Ø50 HIGH TEMPERATURE CYLINDER		1
2	BRIDA SUPERIOR CILINDRO NUMATICS	NUMATICS CYLINDER TOP BRIDLE	913XX397	1
3	ROTULA CILINDRO VALCO NITRURADO GASEOSO	VALCO CYLINDER KNEECAP	915XX374	1
4	DISTANCIAL CILINDRO VALCO CINCADO NEGRO	VALCO CYLINDER SPACER	915XX375	4
5	TORNILLO ALLEN M8X15 INOX.	ALLEN SCREW M8X15 STAINLESS	914XX067	2
6	SILENCIADOR LARGO G1/8-B	G1/8-B LARGE SILENCER	914XX041	2
7	RACOR RECTO R1/8 / R1/8-BN	R1/8 / R1/8-BN STRAIGHT FITTING	943XX091	1
8	ADAPTADOR ENCHUFE RAPIDO R/H	QUICK PLUG ADAPTER	918XX509	1
9	RACOR ALARGADOR M-H 1/8G-1/8G	M-H 1/8G-1/8G EXTENSION FITTING	913XX398	1

6. CONJUNTO CONTROL DE PRESIÓN / PRESSURE CONTROL ASSEMBLY: (917XX076)



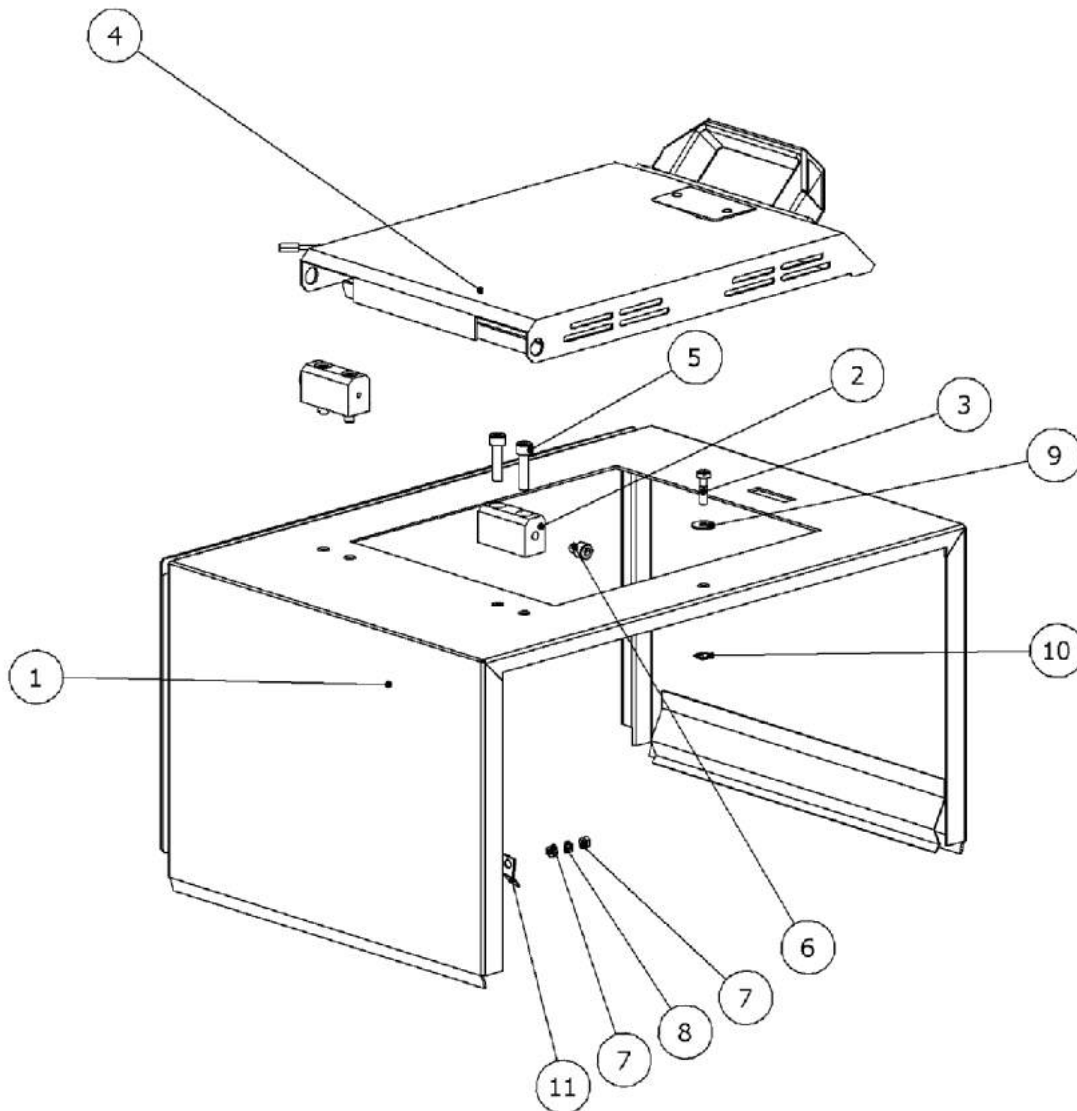
Nº	Descripción	Description	Ref.	Qty
1	Unidad filtro-regulador 1/4"G	1/4"G filter-manifold unit	914XX071	1
2	Manómetro	Manometer	914XX070	1
10	Protector de cuba modular	Protector	912XX283	1
3	Enchufe rápido conexión	Fast connector		1
4	Racor macho-macho 1/4"	1/4" male-male fitting		1
5	Adaptador macho - hembra 1/8"	Male - 1/8" female air fitting	914XX262	1
6	Reducción m 1/4" - h 1/8"	1/8" female - 1/4" male reducer	914XX080	1
9	Casquillo apertura	Opening fitting	914XX261	1
11	Capuchón flexible 17,4x25	17.4x25 plug		1
7	Electroválvula	Electric valve	910XX470	1
8	Mazo electroválvula	Electric valve connection	917XX099	1

7. CONJUNTO CARCASA BOMBA / PUMP COVER ASSEMBLY: (916XX267)



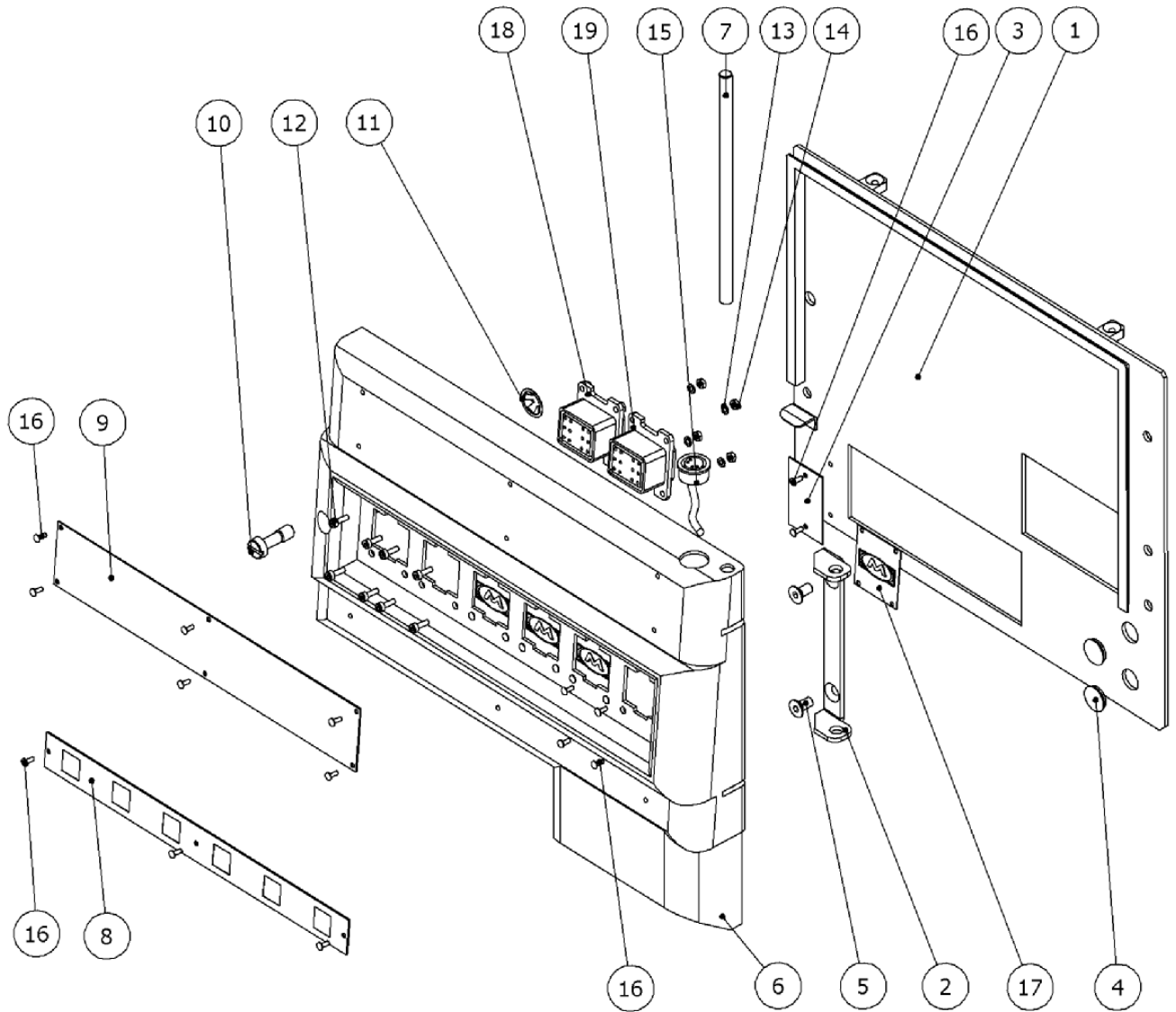
Nº	Descripción	Description	Ref.	Qty
1	Chapa presión	Pressure plate	914XX114	1
2	Anagrama circular	Symbol		2
	Clip	Clip		6
3	Anagrama rectangular	Symbol		1
5	Pasatabique goma dim. 18.5	18,5 rubber bulkhead		1
9	Tornillo amarre carcasa	Cover moor screw		1
10	Arandela plana 4.3x12.4 inox.	Stainless 4.3x12.4 flat washer	919XX108	1
	Arandela retención VISTOP M4	M4 VISTOP retention washer		1
	Cierre vaivén	Swinging closure	914XX109	2
15	Arandela plana 2.5x6.5 DIN125 inox	Stainless 2,5x6,5 DIN125 flat washer		4

8. CONJUNTO CARCASA CENTRAL / CENTRAL COVER ASSEMBLY: (918XX092)



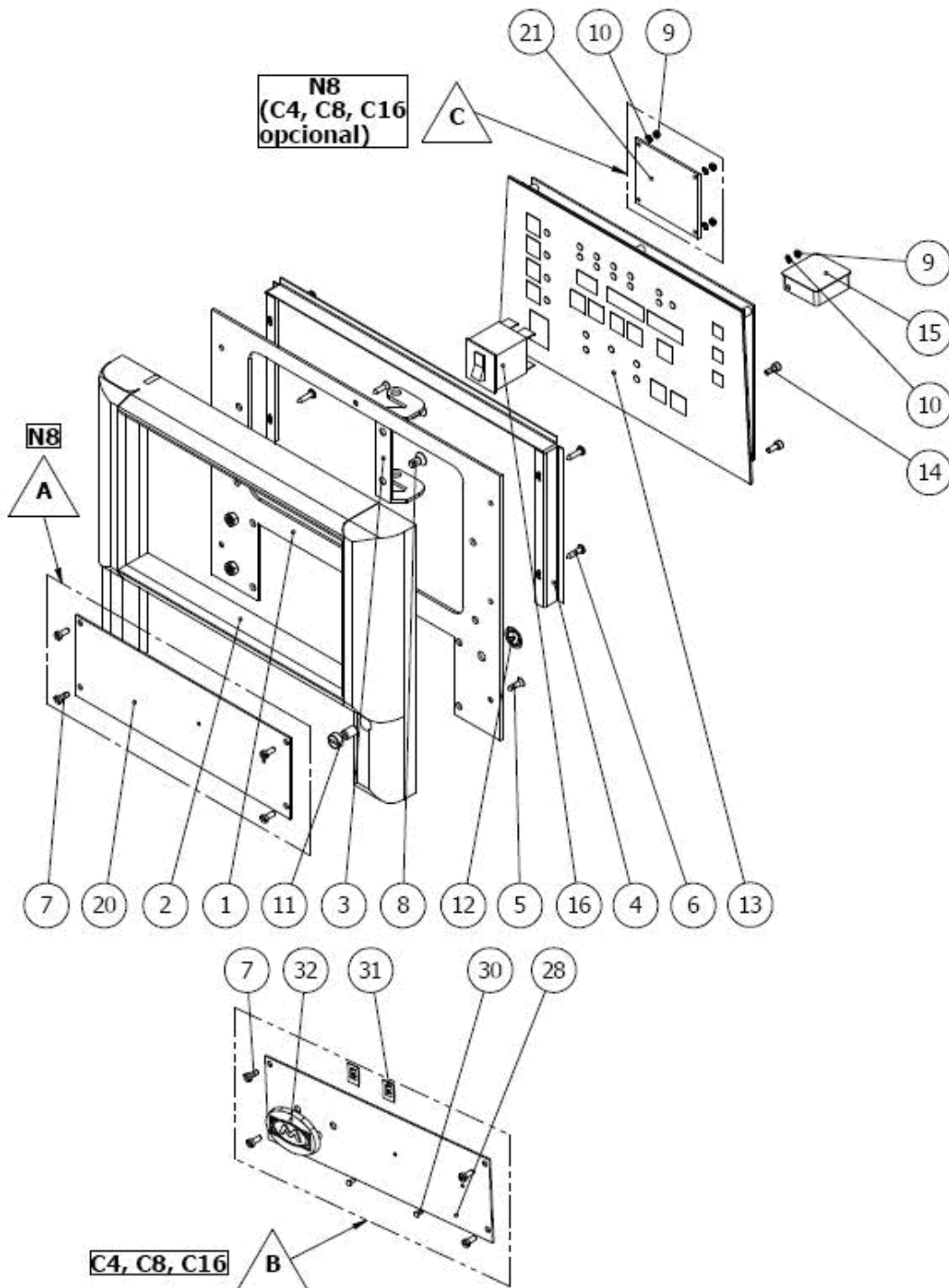
Nº	Descripción	Description	Ref.	Qty
1	Carcasa central C8	C8 central cover		1
2	Bisagra tapa depósito	Tank cover hinge	914XX147	2
3	Tornillo amarre carcasas	Cover moor screw		1
9	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 plane washer	919XX108	1
10	Arandela retención VISTOP M4	VISTOP M4 retention washer		1
4	Tapa C8	C8 tank cover	918XX127	1
5	Tornillo allen M5x20	M5x20 allen screw		4
6	Tornillo allen M5x6 inox	M5x6 allen screw		2
7	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		2
8	Arandela dentada M3	M3 indent washer		1
11	Terminal faston M-panel TE938	M-panel TE938 faston terminal		1

9. CONJUNTO PORTON TRASERO / REAR DOOR ASSEMBLY:



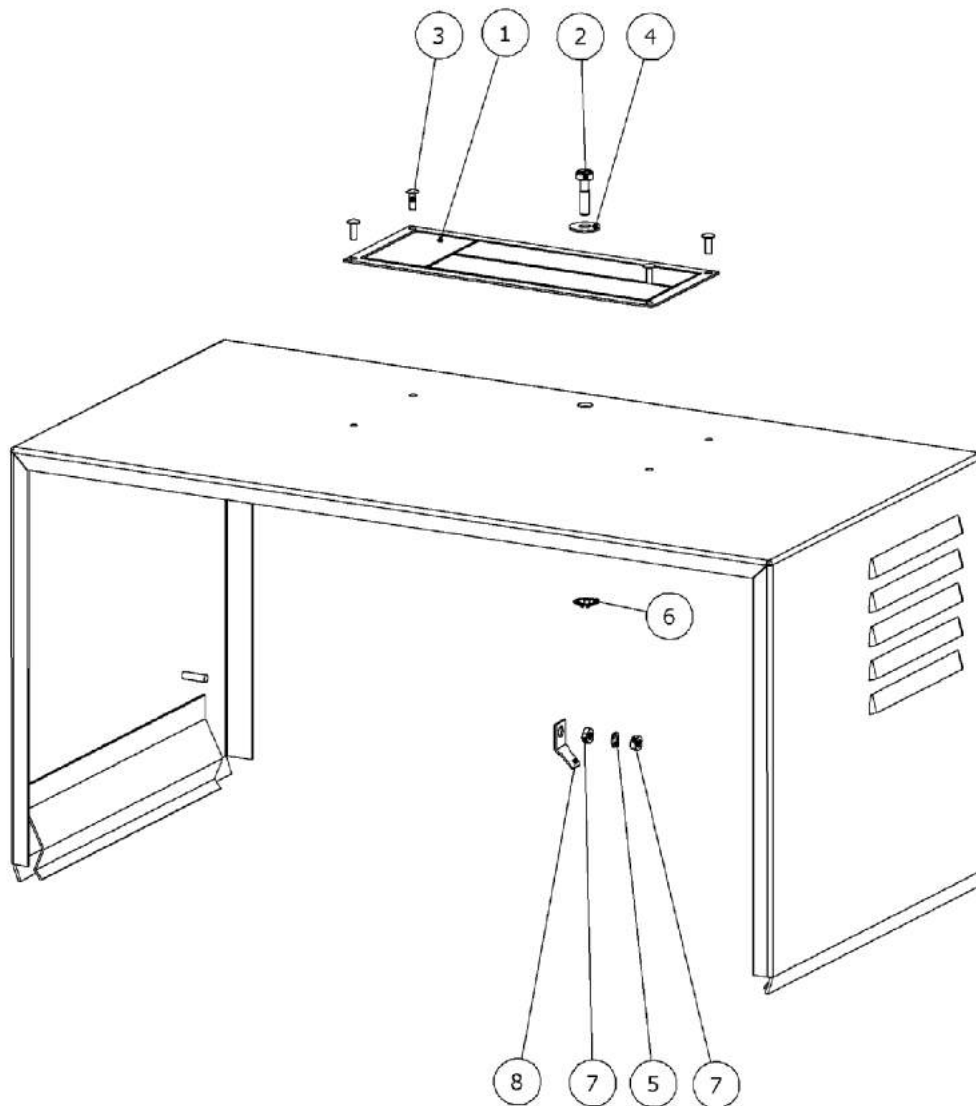
Nº	Descripción	Description	Ref.		Qty	
1	Chapa trasera C8	C8 rear plate	914XX140	910XX708	1	
2	Horquilla portón trasero	Rear door yoke	914XX102		919XX090	1
3	Chapa advertencia calor	High temperature symbol				1
4	Tapón goma	Rubber plug	914XX141			2
5	Tornillo avellanado M6x12	M6x12 screw				2
16	Remache pop 2.4x8	2,4x8 pop clinch				11
6	Portón trasero C8	C8 rear door	914XX101	910XX730	1	
7	Eje horquilla portón trasero	Rear door yoke axle			1	
8	Chapa inferior portón trasero	Rear door lower plate			1	
9	Chapa superior portón trasero	Rear door upper plate			1	
10	Tornillo amarre portón trasero	Rear door moor screw	910XX449		1	
11	Arandela retención VISTOP para M8	M8 VISTOP retention washer			1	
12	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw			4	
13	Arandela dentada M3	M3 indent washer			4	
14	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut			4	
15	Mazo electroválvula interior	Inner valve connector			917XX098	1
17	Chapa sustitución conectores	Connector substitution plate			914XX100	1
18	Mazo potencia control manguera nº1	Nº1Hose connector			988XX155	1
19	Mazo potencia control manguera nº2	Nº2Hose connector			988XX114	1
	Mazo potencia control manguera nº3	Nº3 Hose connector			988XX084	1
	Mazo potencia control manguera nº4	Nº4 Hose connector			988XX085	1
	Mazo potencia control manguera nº5	Nº5 Hose connector			988XX156	1
	Mazo potencia control manguera nº6	Nº6 Hose connector	988XX157	1		

10. CONJUNTO PORTON DELANTERO / FRONT DOOR ASSEMBLY:



Nº	Descripción	Description	Ref.	Qty
1	Chapa portón delantero N8	Front door plate	914XX336	1
2	Portón delantero	Front door	914XX117	1
3	Horquilla portón delantero	Front door yoke	914XX120	1
4	Vierteaguas chapa portón delantero	Front door water protector		1
5	Tornillo avellanado rosca chapa 3.9x16	3,9x16 screw	915XX213	4
6	Tornillo rosca chapa 3.9x16	3,9x16 screw	910XX299	4
8	Tornillo avellanado M6x12	M6x12 screw	915XX248	2
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		1
10	Arandela dentada M3	M3 indent washer		1
11	Tornillo amarre portón delantero	Front door moor screw	910XX448	1
12	Arandela retención VISTOP M8	M8 VISTOP retention screw		1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	4
7	Tornillo cilíndrico con ranura M4x10	Stainless M4x10 grooved cylindrical screw		4
28	Chapa delantera	Front plate	914XX122	1
29	Chapa símbolo CE	CE Symbol plate		1
30	Remache pop 2.4x8	2.4x8 pop clinch		2
31	Clip	Clip		2
32	Logotipo melton	Melton symbol		1
13	Tarjeta de control 6 salidas	6 exit control board	918XX301	1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
13	Tarjeta de control 4 salidas	4 exit control board	918XX299	1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
15	Caja fusibles 6s	6 exit fuse box	988XX397	1
	Caja fusibles 4s	4 exit fuse box	916XX265	
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		4
10	Arandela dentada M3	M3 indent washer		4
21	Tarjeta I/O	I/O card		1
16	Mazo interruptor	Switch connector	917XX101	1

11. CONJUNTO CARCASA DELANTERA C8 / C8 FRONT COVER ASSEMBLY: (917XX131)



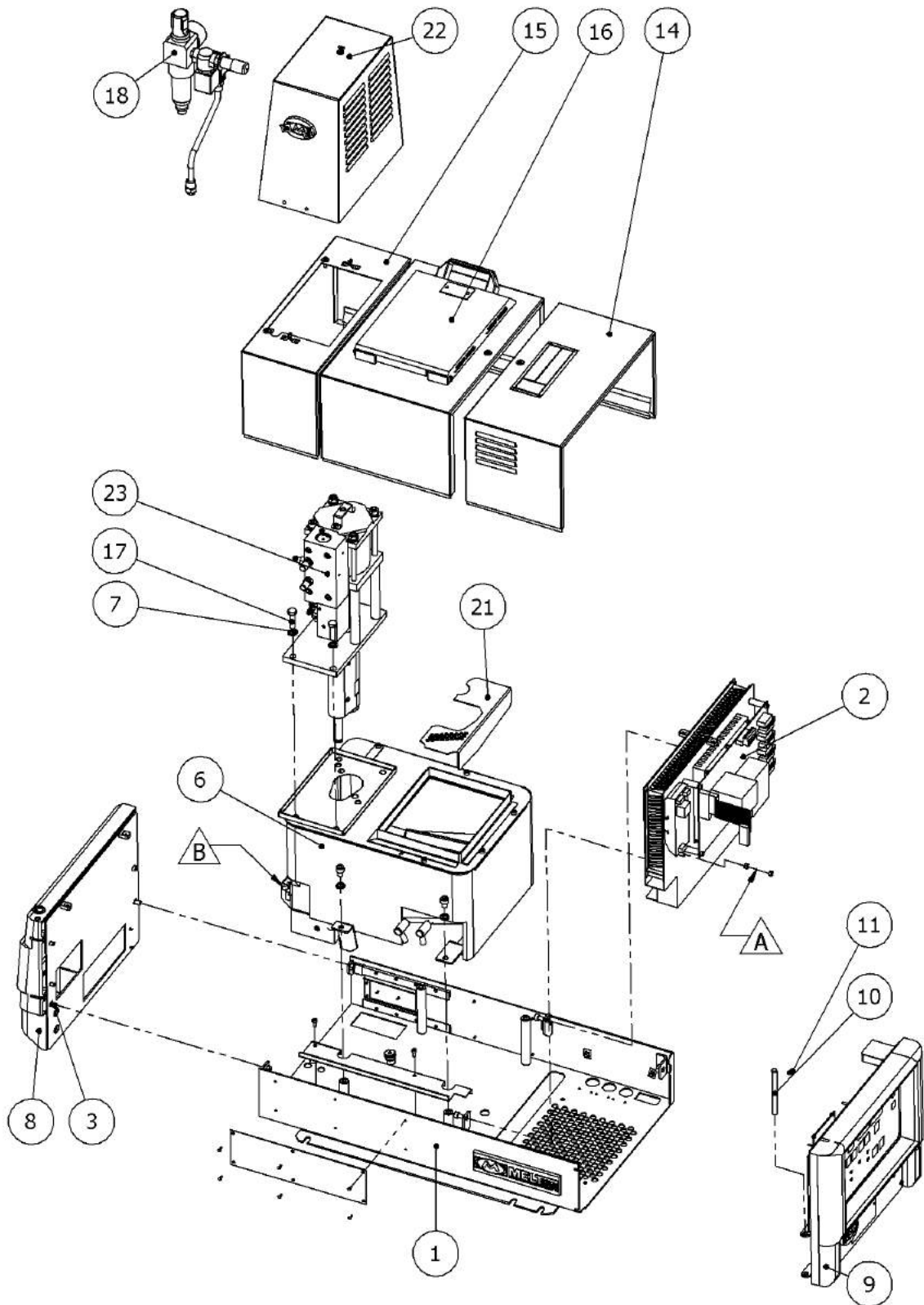
Nº	Descripción	Description	Ref.	Qty
1	Chapa carcasa delantera	Front cover plate	914XX115	1
2	Tornillo amarre carcasas	Cover moor screw		1
4	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 flat washer	919XX108	1
6	Arandela retención VISTOP M4	M4 VISTOP retention washer		1

**DESPIECE / PART LISTING
EQUIPO C8 ALTO CAUDAL /
HIGH FLOW C8 EQUIPMENT**

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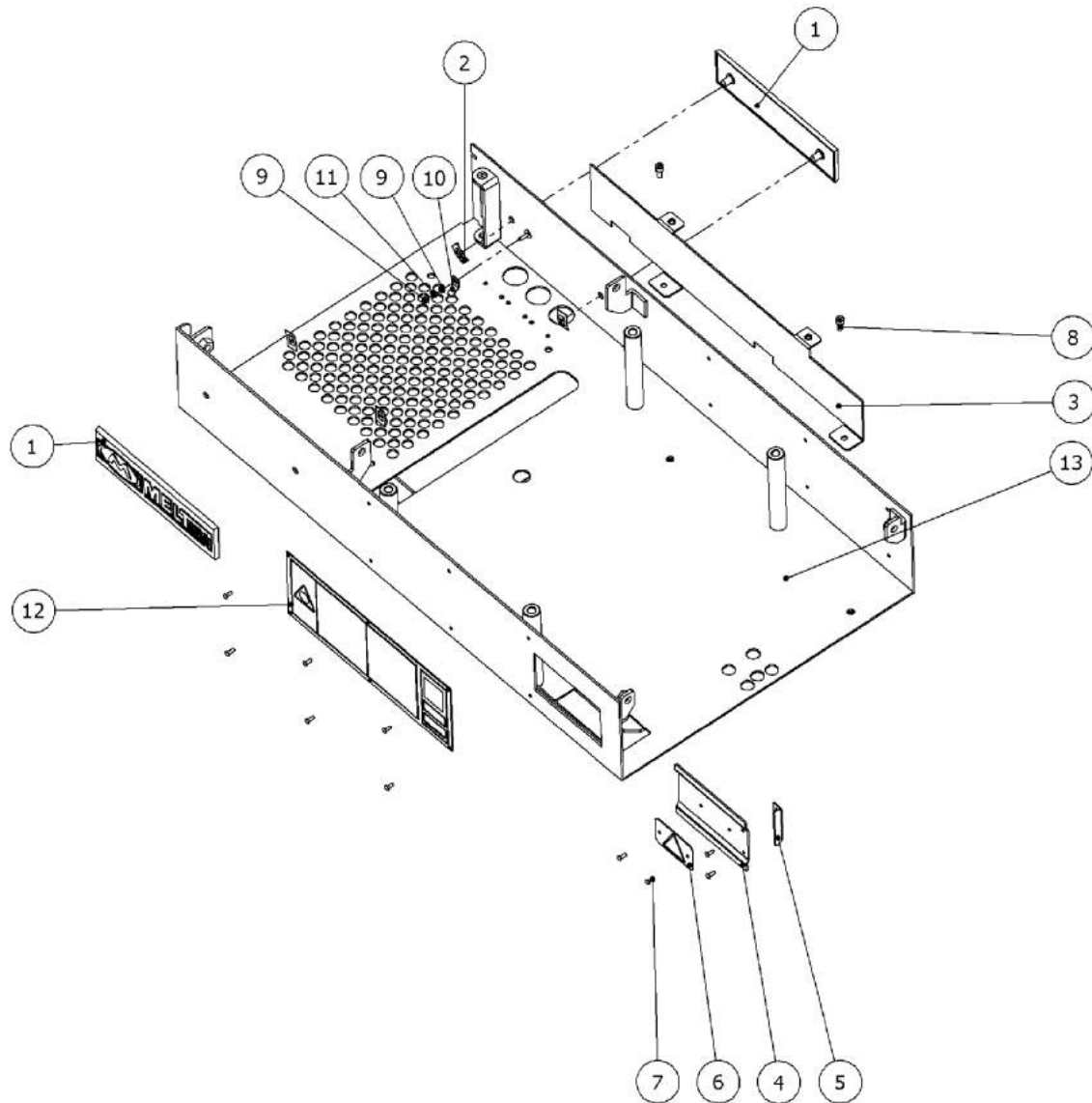
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1. CONJUNTO ENCOLADOR C8 / C8 EQUIPMENT ASSEMBLY:



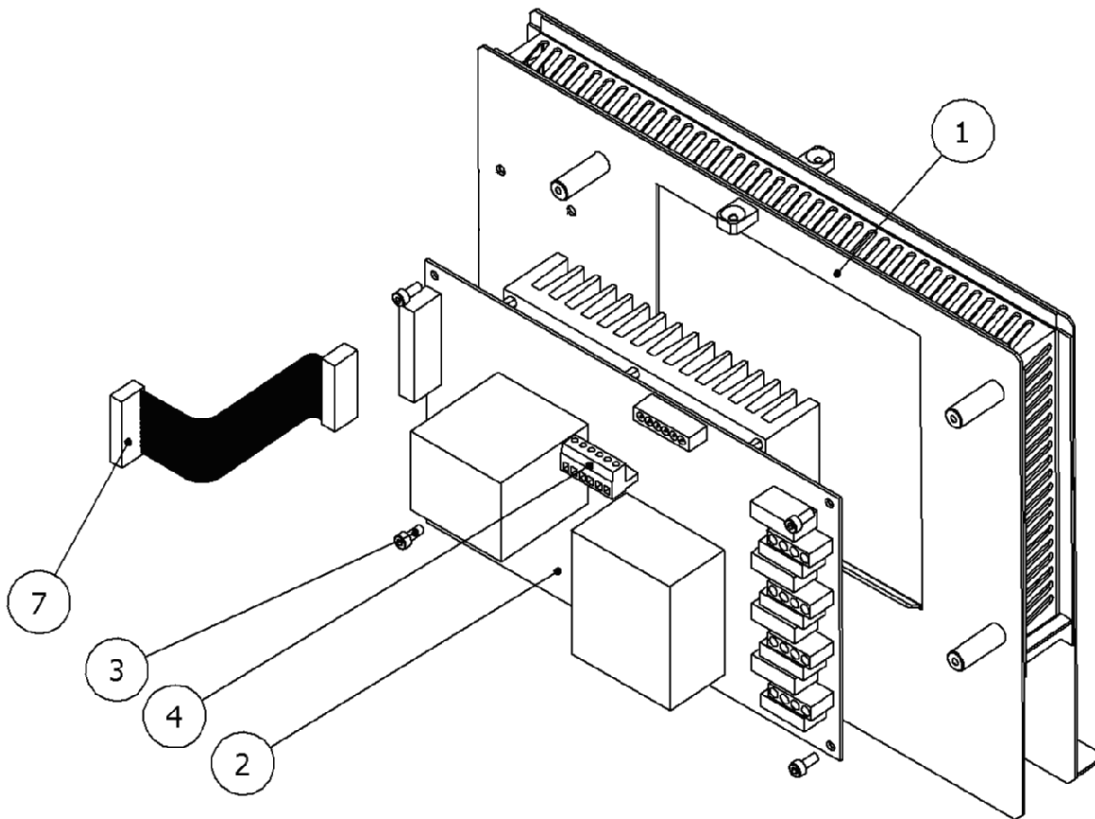
Nº	Descripción	Description	Ref.	Qty
1	Cuna serie C	C series base	PAG. 5	1
2	Tabique térmico serie C	Thermal wall C series	PAG.6	1
6	Conjunto deposito C8	C8 tank assembly	PAG.8	1
8	Conjunto portón trasero	Rear door assembly	PAG.21	1
3	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		4
9	Conjunto portón delantero	Front door assembly	919XX091	1
10	Eje horquilla portón delantero	Front door axle		1
11	Anillo elástico eje 8	Axle 8 elastic ring		1
14	Conjunto carcasa delantera	Front cover assembly	917XX131	1
15	Conjunto carcasa trasera serie C	Rear cover assembly	919XX119	1
16	Conjunto carcasa central serie C	Central cover assembly	918XX092	1
7	Arandela grover 8 inox.	Stainless 8 grover washer	PAG.12	3
23	Conjunto bomba	Pump assembly		1
17	Tornillo hexagonal M8x30	M8x30 hexagonal screw		3
22	Carcasa bomba serie C	C series pump cover	915XX382	1
18	Manómetro serie C	C series manometer	PAG 23	1
21	Rejilla deposito C8	C8 tank grid	910XX982	1
A	Mazo tierra	Earth connector	914XX163	1
B	Mazo sonda níquel	Ni sensor connector	917XX072	1
	Mazo sonda PT-100	PT-100 sensor connector	916XX143	

2. CONJUNTO CUNA / BASE ASSEMBLY: (919XX118)



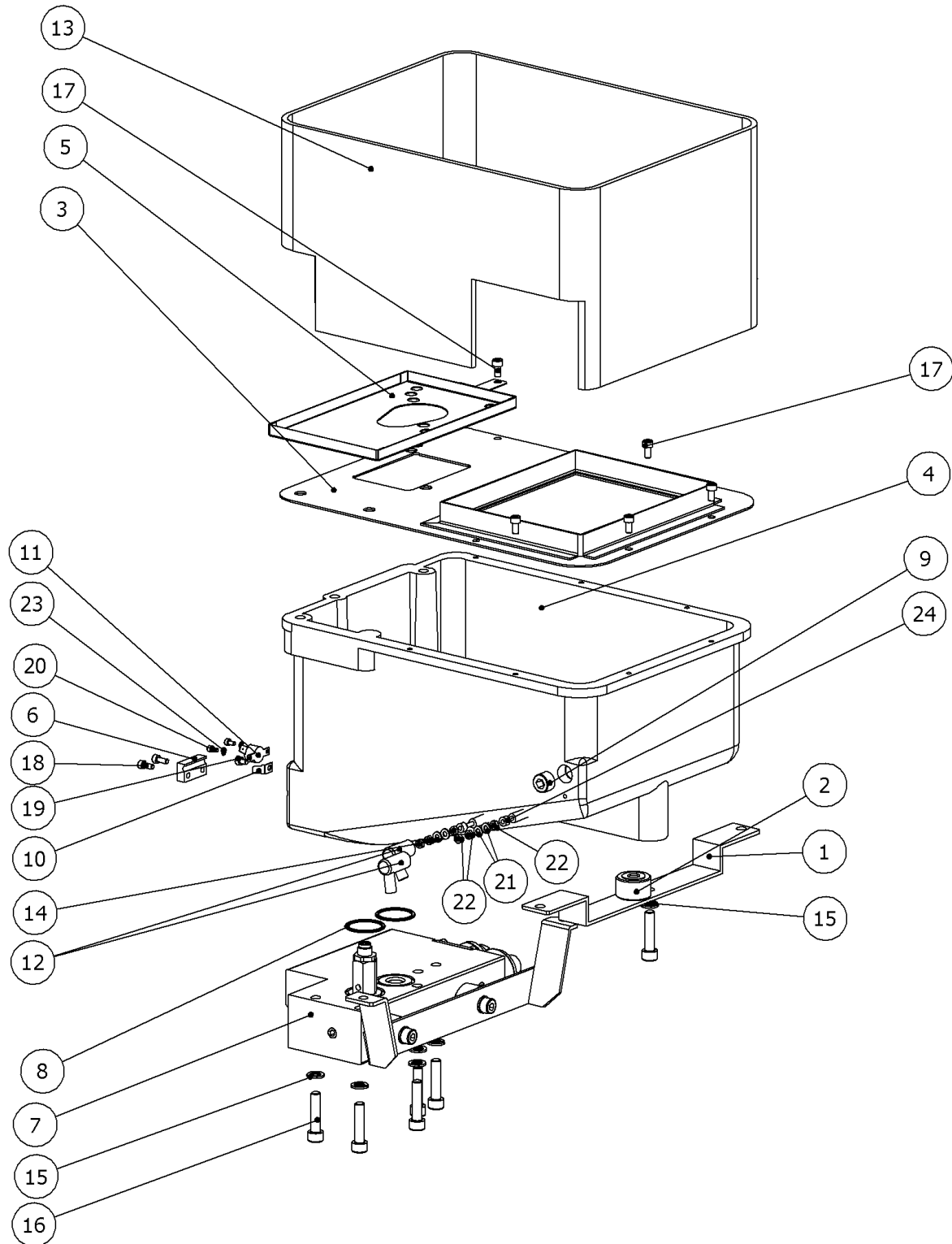
Nº	Descripción	Description	Ref.	Qty
1	Anagrama rectangular	Symbol		2
2	Clip	Clip		4
3	Canaleta y tapa paso cables	C4 Wiring guide and cover	919XX111	1
4	Chapa corredera filtro	Filter sliding plate	914XX138	1
5	Asidero corredera	Sliding handle	914XX139	1
6	Chapa presión	Pressure plate	914XX114	1
7	Remache pop 2.4x8	2.4x8 rivet		10
8	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	2
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal washer		2
10	Terminal faston M-panel	M-panel faston terminal		1
11	Arandela dentada M3	M3 washer		1
12	Chapa lateral filtro	Lateral filter plate		1
13	Conjunto cuna C8	C8 base		1

3. CONJUNTO TABIQUE TERMICO/THERMAL WALL ASSEMBLY:



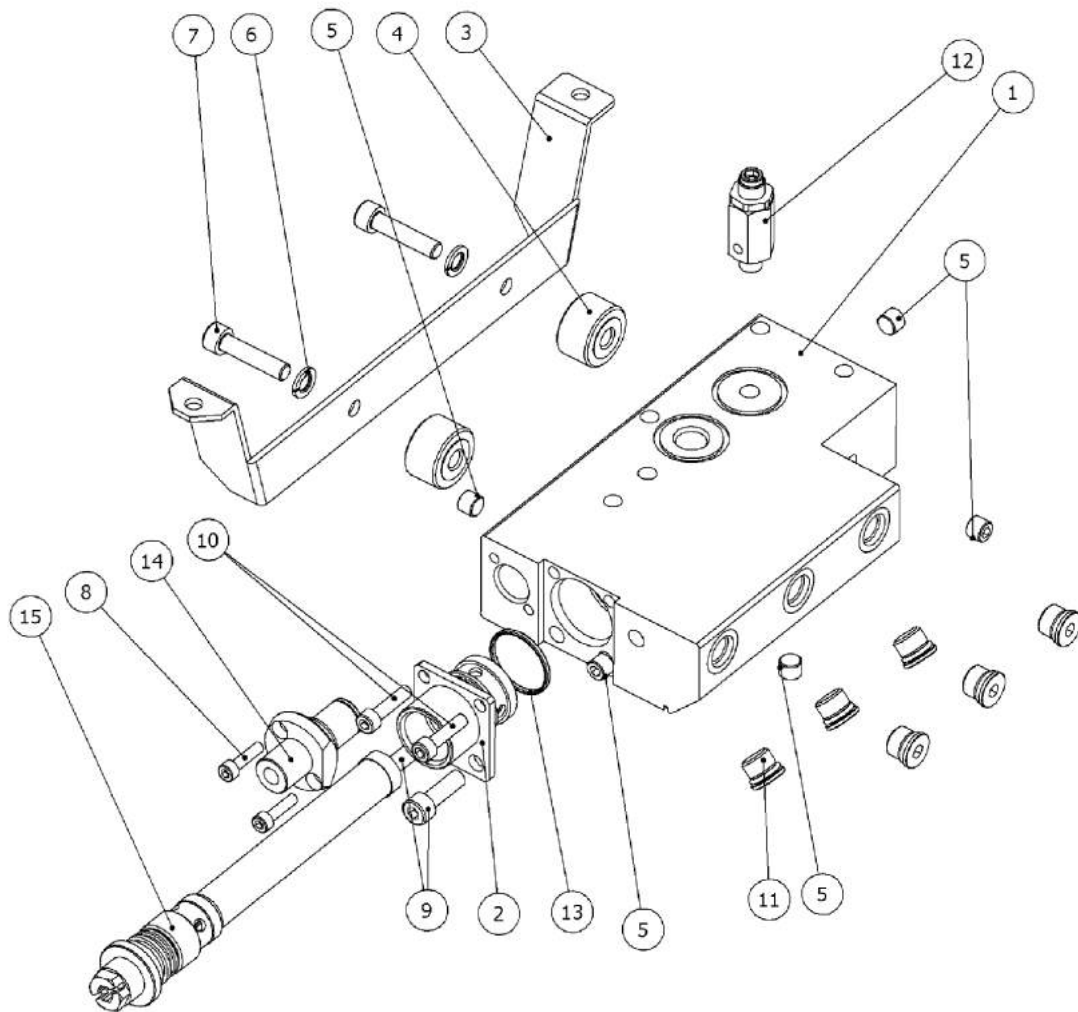
Nº	Descripción	Description	Ref.	Qty
1	Tabique térmico 4 salidas	4 exit thermal wall	914XX136	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
1	Tabique térmico 6 salidas	6 exits thermal wall	919XX107	1
	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		2
	Tuerca hexagonal M5 latón	M5 hexagonal brass nut		2
2	Tarjeta potencia 4 Salidas	4 exit power card	910XX626	1
3	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
4	Conector tarjeta 6 polos	6 poles card connector	919XX354	1
2	Tarjeta potencia 6 salidas	6 exits power card		1
3	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	919XX354	6
4	Conector tarjeta 6 polos	6 poles card connector		1
7	Mazo interconexión	Connector	914XX160	1

4. CONJUNTO DEPOSITO C8 / C8 TANK ASSEMBLY:



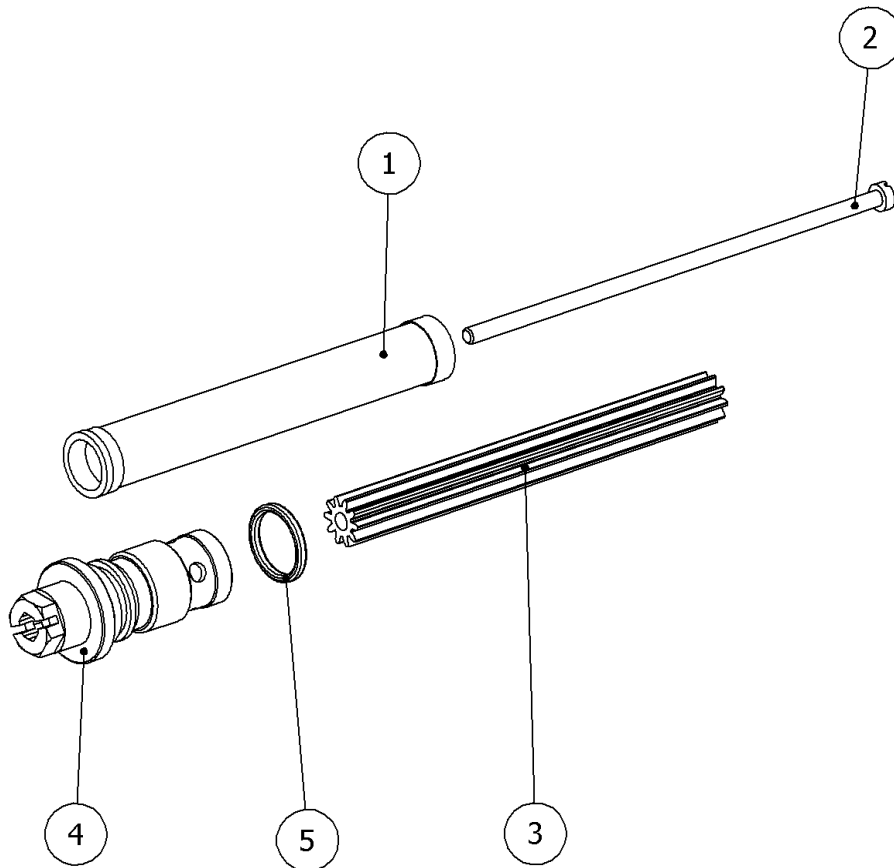
Nº	Descripción	Description	Ref.	Qty
1	Pata delantera depósito	Tank front leg	914XX061	1
2	Aislante pata depósito	Insulation	910XX072	1
3	Chapa boca depósito	C4 tank top plate	910XX979	1
4	Subconjunto depósito	C4 tank		1
5	Bandeja bomba	Pump support	910XX980	1
6	Brida sonda	Sensor bridle	914XX169	1
8	Junta tórica viton 30x2	30x2 viton o´ring	914XX090	2
9	Tapón 3/8" GAS	3/8" GAS plug	910XX414	1
10	Terminal faston M-panel TE-938	Faston M-panel TE-938 terminal		1
12	Capuchón aislamiento bornas	Insulation plug		2
13	Manta aislante C8	C4 thermal insulation	918XX126	1
14	Mazo resistencia depósito	Tank heater connector		1
15	Arandela grover 8 inox.	Stainless 8 grover washer		6
16	Tornillo allen 8x35 inox.	Stainless 8x35 allen screw		6
17	Tornillo allen M5x10 inox.	Stainless M5x10 allen screw		5
18	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		2
19	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw		1
21	Arandela M4 Al Latón Niquelada	M4 washer		4
22	Tuerca hexagonal M3,5x7x2,5 THB	M3,5x7x2,5 hexagonal nut		6
24	Casquillo resistencia	Heater cover		2
7	Distribuidor serie C	C series manifold	917XX077	1
11	Mazo termostato 240°C N/C	240º thermostat connector		1
20	Tornillo allen M3x6 inox.	Stainless M3x6 allen screw	918XX162	2
23	Arandela dentada M3	M3 indent washer		2

4.1. CONJUNTO DISTRIBUIDOR / MANIFOLD ASSEMBLY: (917XX077)



Nº	Descripción	Description	Ref.	Qty
1	Distribuidor serie C con helicoils	Serie C manifold with helicoils	916XX843	1
2	Brida rosca filtro N	Filter screw bridle	914XX286	1
3	Pata distribuidor	Support manifold	914XX087	1
4	Aislante pata depósito	Insulation	910XX072	2
5	Tapón 1/8" GAS	1/8" GAS plug	910XX001	5
6	Arandela grover 8 inox.	Stainless 8 grover washer		2
7	Tornillo allen M8x35 inox.	Stainless M8x25 allen screw		2
8	Tornillo allen M5x20 inox.	Stainless M5x20 allen screw		2
9	Tornillo allen M8x25 inox.	Stainless M8x25 allen screw		2
10	Tornillo allen M6x25 Inox.	Stainless M6x25 allen screw		2
11	Tapón 9/16" con junta	9/16" with joint plug	917XX031	6
12	Conjunto válvula de seguridad 4000	4000 security valve assembly	917XX087	1
13	Junta tórica viton 30x2	Viton 30x2 o´ring	914XX090	1
14	Subconjunto purgador C	Draining valve assembly	917XX086	1
15	Filtro tanque malla N	Filter assembly	Pag. 10	1

4.1.1. CONJUNTO FILTRO / FILTER ASSEMBLY:

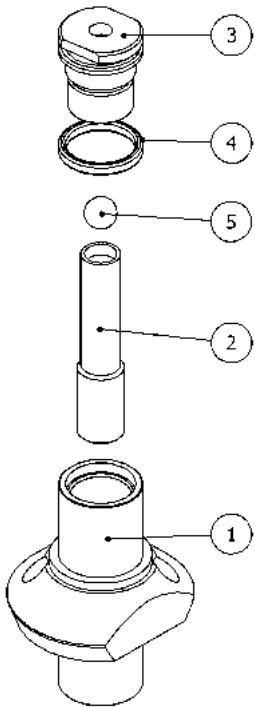


Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla fino	Thin filter screen				1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring	917XX079	916XX256	916XX243	1
	Junta tórica viton 24x2	24x2 viton o´ring				1
	Junta tórica viton 20x2	20x2 viton o´ring				1
						1
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla gruesa	Thick filter screen	917XX080	918XX028	916XX242	1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring				1
	Junta tórica viton 24x2	24x2 viton o´ring				
	Junta tórica viton 20x2	20x2 viton o´ring				
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

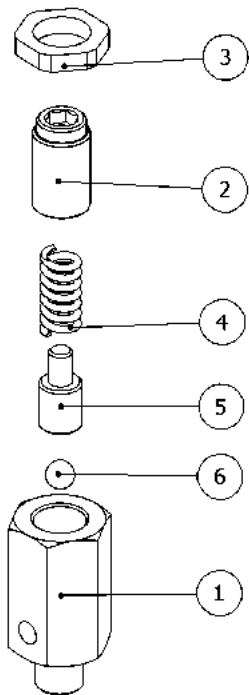
4.1.2. CONJUNTO PURGADOR / DRAINING VALVE ASSEMBLY:

(917XX086)



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo purgador C	Draining valve body	914XX093	1
2	Espárrago purgador C	Draining valve rod	914XX086	1
5	Bola acero 7	7 steel ball		1
3	Punta purgador C	Draining valve tip	914XX092	1
4	Junta tórica viton 15x2	15x2 viton o'ring	914XX091	1

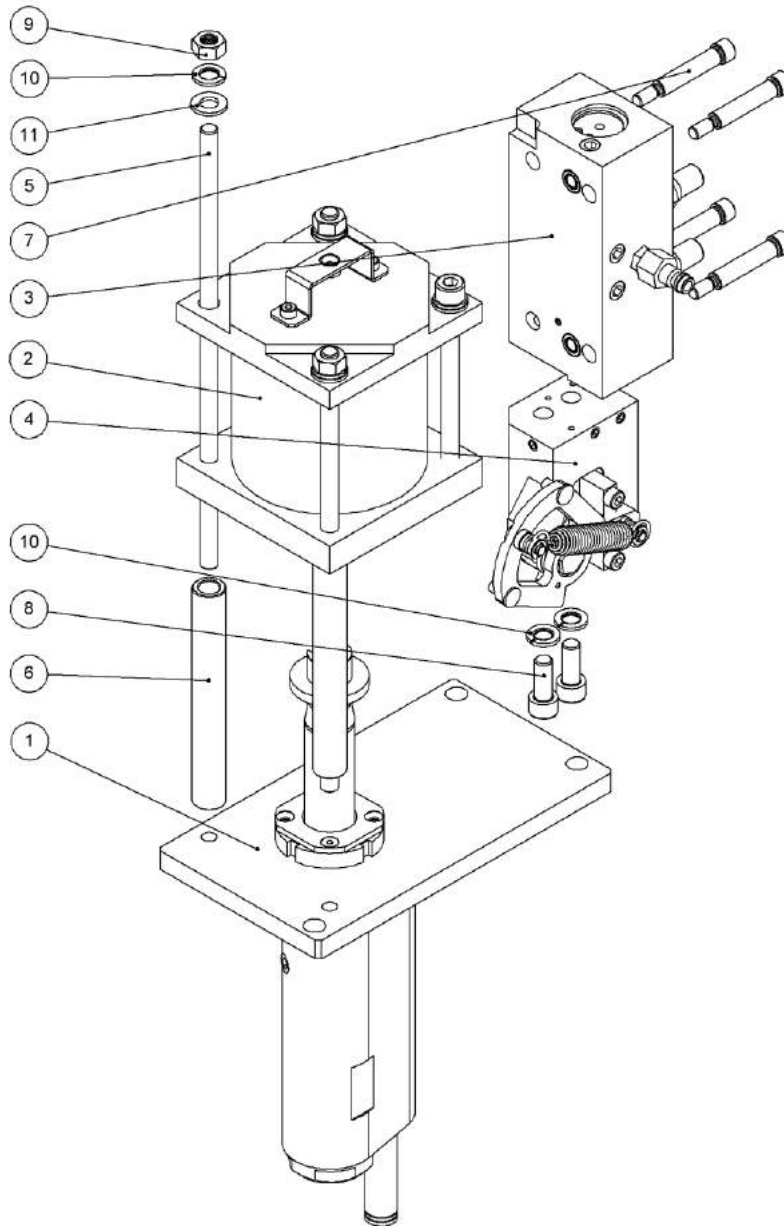
4.1.3. CONJUNTO VALVULA DE SEGURIDAD / SECURITY VALVE ASSEMBLY: (917XX087)



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo válvula	Valve body	914XX097	1
2	Casquillo regulador muelle	Loading screw	910XX209	1
3	Tuerca trasera	Retaining nut	910XX208	1
4	Muelle	Spring	915XX388	1
5	Pivote centraje bola	Spring mount	910XX206	1
6	Bola acero 6	6 steel ball	914XX094	1

5. A) CONJUNTO BOMBA / PUMP ASSEMBLY: (916XX190)

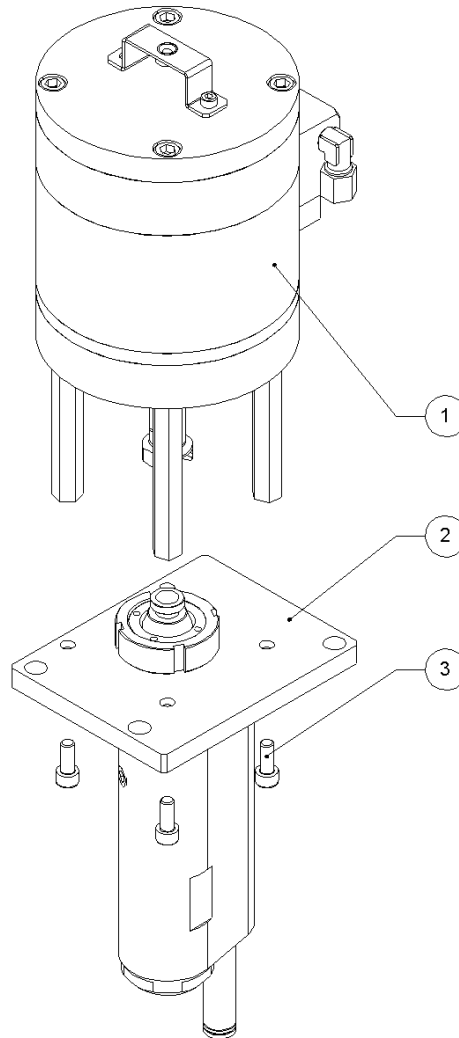
**Nota: Valido para equipos hasta numero de serie 10347
/ Note: Valid for equipments with serial number up to 10347)**



Nº	Descripción	Description	Ref.	Qty
1	Subconjunto grupo hidráulico	Hydraulics group assembly	916XX164	1
2	Subconjunto cilindro C8G	C8 cylinder assembly	916XX165	1
3	Subconjunto válvula	Valve assembly	917XX065	1
7	Tornillo cuerpo válvula	Body valve screw		4
4	Subconjunto cambio C8G	C8G change assembly	915XX190 916XX189 910XX135	1
8	Tornillo allen M8x20 inox.	Stainless M8x20 allen screw		2
10	Arandela grover 8 inox.	Stainless grover 8 washer		2
5	Tirante cilindro C8G	Cylinder strut	911XX000	3
6	Distancial cilindro C8G	Cylinder spacer	911XX001	3
9	Tuerca hexagonal M8 inox.	Stainless M8 hexagonal nut	915XX191	3
10	Arandela grover 8 inox.	Stainless grover 8 washer	910XX135	3
11	Arandela plana M8 inox.	Stainless M8 flat washer	910XX409	3

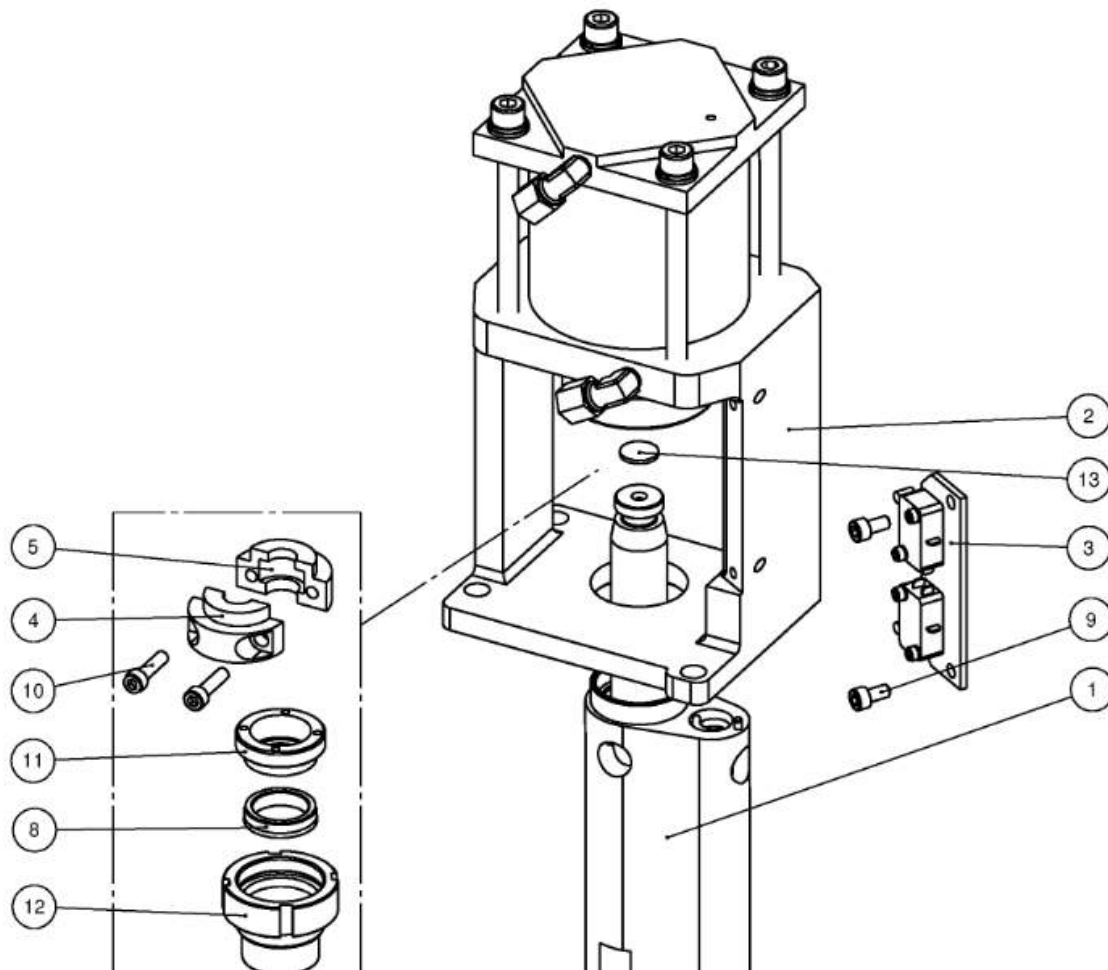
5. B) CONJUNTO BOMBA / PUMP ASSEMBLY: (916XX406)

Nota: Valido para equipos con numero de serie desde 10438
/ Note: Valid for equipments with serial number from 10438



Nº	Descripción	Description	Ref.	Qty
1	Conjunto cilindro neumatico	Pneumatic cylinder assembly	PAG.18/19	1
2	Conjunto grupo hidraulico	Hidraulic group assembly	PAG.14/15	1
3	Tornillo allen m6x15	M6x15 allen screw	915XX090	4

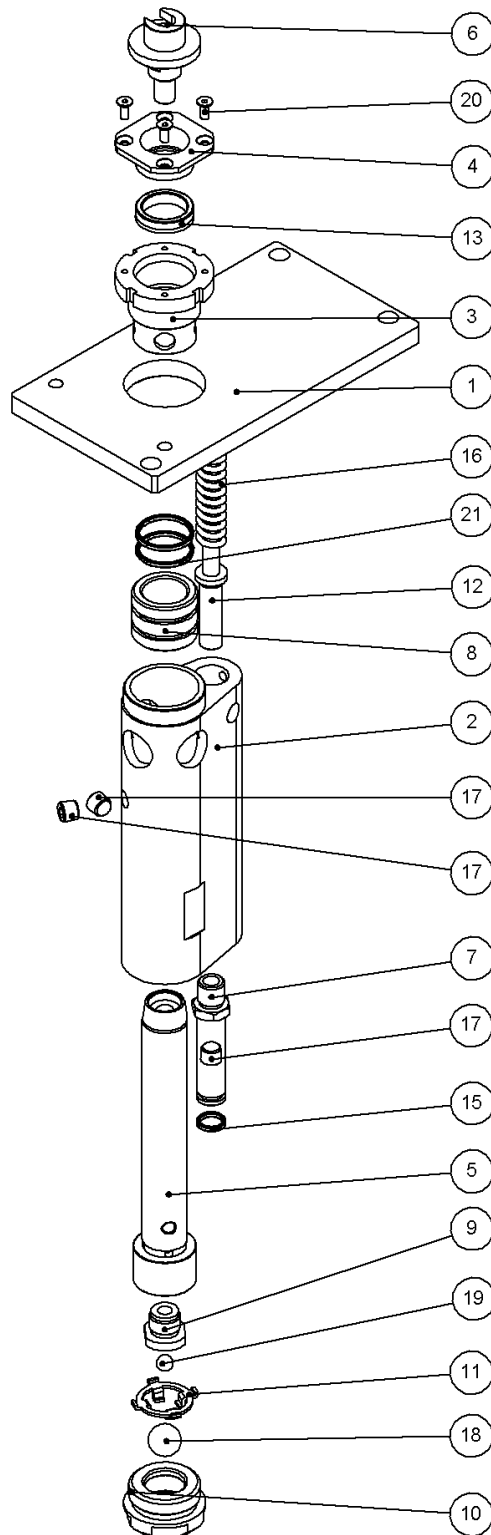
5. C) CONJUNTO BOMBA ALTA TEMPERATURA / HIGH TEMPERATURE PUMP ASSEMBLY



Nº	Descripción	Description	Ref.	Qty
1	SUBCONJUNTO GRUPO HIDRAÚLICO C-PLUS	C-PLUS HYDRAULIC GROUP ASSEMBLY	Page 20	1
2	SUBCONJUNTO CILINDRO C8 ALTA TEMPERA	C8 HIGH TEMP CYLINDER ASSEMBLY		1
3	SUBCONJUNTO MICROS BOMBA C-PLUS	C-PLUS PUMP MICROS ASSEMBLY	919XX398	1
4	BRIDA PASANTE NITRURADO GASEOSO	CROSSING FLANGE	915XX500	1
5	BRIDA ROSCADA NITRURADO GASEOSO	THREADED FLANGE	915XX501	1
8	JUNTA COLLARIN EJE BOMBA Ø22	Ø22 PUMP AXLE SEAL COLLAR	915XX504	1
9	TORNILLO ALLEN M5X10 INOX.	ALLEN SCREW M5X10 STAINLESS	910XX968	2
10	TORNILLO ALLEN M5X20 INOX.	ALLEN SCREW M5X20 STAINLESS	910XX065	2
11	TUERCA PORTAJUNTA BOMBA C-PLUS NITRURAD	C-PLUS PUMP JOINT NUT	915XX502	1
12	TORNILLO PORTAJUNTA BOMBA C-PLUS NITRUR	C-PLUS PUMP JOINT SCREW	915XX503	1
13	DISCO INTERMEDIO	INTERMEDIATE DISC	915XX534	1

5.1.A) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC GROUP ASSEMBLY: (916XX164)

**Nota: Valido para equipos hasta numero de serie 10347
/ Note: Valid for equipments with serial number up to 10347)**



Nº	Descripción	Description	Ref.	Qty	
1	Placa base bomba C8G	Pump base plate	915XX383	1	
2	Cuerpo bomba C8G	Pump body	910XX988	1	
3	Tornillo portajuntas C8G V1	C8G joint screw	915XX307	916XX282	1
4	Tapa junta V1	Lid joint	915XX308		1
8	Cuerpo juntas	Joint body	911XX123		1
13	Junta collarín eje bomba Ø22	Axle pump joint	915XX309		1
20	Tornillo avellanado allen M4x10	Stainless M4x10 allen screw			4
21	Junta tórica viton 25x2	25x2 viton o´ring	915XX053		2
5	Eje bomba	Pump axle	915XX384	1	
6	Soporte escuadra C8G	C8G square support	911XX124	1	
7	Tubo impulsión	Impulsion tube	910XX990	1	
9	Válvula compresión	Compensation valve	910XX121	1	
10	Válvula aspiración	Aspiration valve	910XX118	916XX281	1
11	Soporte bola aspiración	Aspiration valve ball support	910XX120		1
18	Bola 16	16 ball	910XX119		1
12	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1	
15	Junta tórica viton 10x2	10x2 viton o´ring	914XX025	1	
16	Muelle DANLY 8x16x76 rojo	DANLY 8x16x75 red spring	910XX407	1	
17	Tapón 1/8" GAS NPT	1/8" GAS NPT plug	913XX008	3	
19	Bola 8	8 ball	910XX122	1	

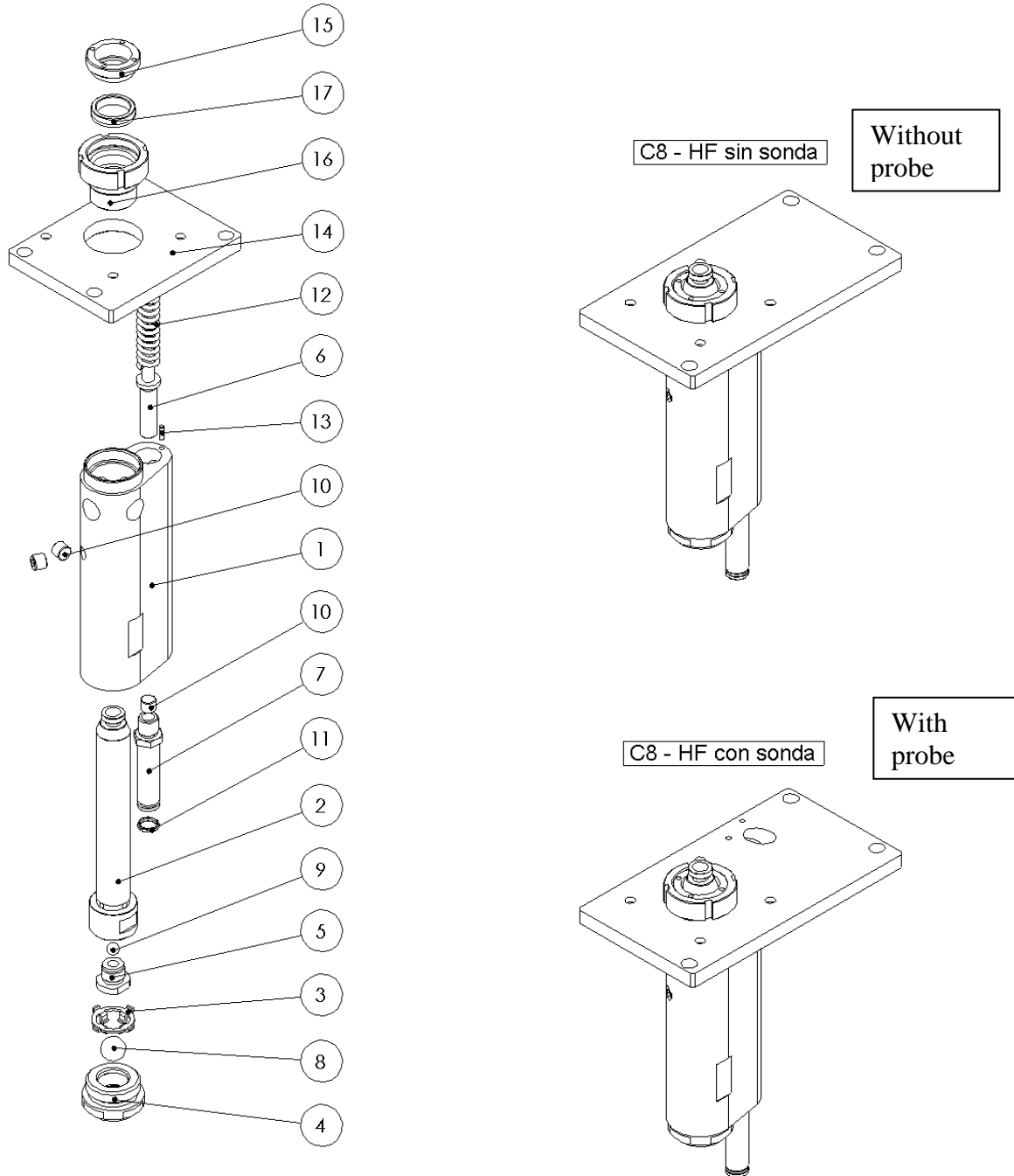
5.1.B) CONJUNTO GRUPO HIDRAULICO / HYDRAULIC GROUP ASSEMBLY:

CON SONDA / WITH PROBE: (916XX407)

SIN SONDA / WITHOUT PROBE: (916XX408)

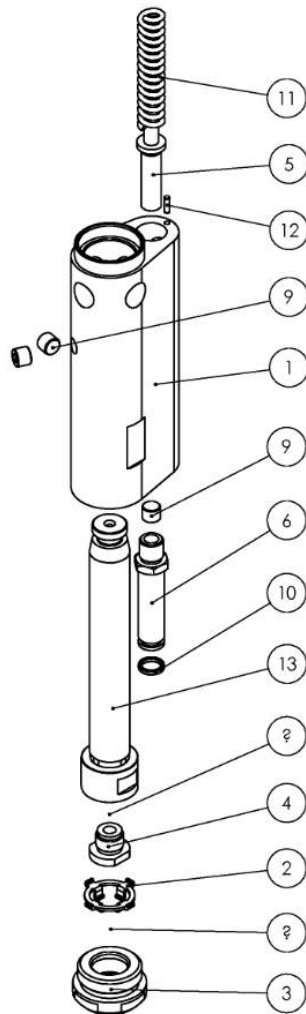
Nota: Valido para equipos con numero de serie desde 10438

/ Note: Valid for equipments with serial number from 10438



Nº	Descripción	Description	Ref.	Qty	
14	Placa base bomba C8 HF sin sonda	C8 HFPump base plate without probe	910XX577	1	
14	Placa base bomba C8 Hf con sonda	C8 HF Puma base plate with probe	910XX578	1	
1	Cuerpo bomba C8G	Pump body	910XX579	1	
13	Pasador cilindrico3x10	3x10 cylindric rod	910XX581	1	
16	Tornillo portajuntas C8G V1	C8G seal screw	915XX504	1	
15	Tuerca portajuntas	Seal bracket nut		916XX420	1
17	Junta collarín eje bomba Ø22	Axle pump joint			1
2	Eje bomba	Pump axle	910XX580	1	
7	Tubo impulsión	Impulsion tube	910XX990	1	
5	Válvula compresión	Compensation valve	910XX121	1	
4	Válvula aspiración	Aspiration valve	910XX118	1	
3	Soporte bola aspiración	Aspiration valve ball support	910XX120	916XX281	1
8	Bola 16	16 ball	910XX119	1	
6	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1	
11	Junta tórica viton 10x2	10x2 viton o´ring	914XX025	1	
12	Muelle DANLY 8x16x76 rojo	DANLY 8x16x75 red spring	910XX407	1	
10	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	912XX793	3	
9	Bola 8	8 ball	910XX122	1	

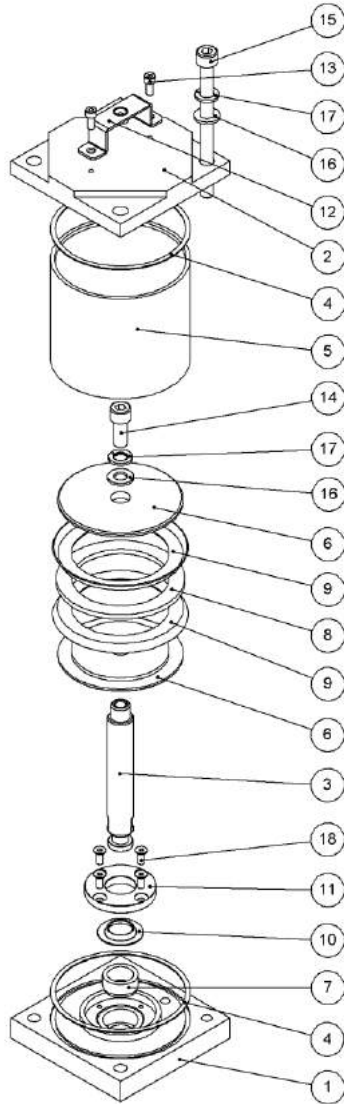
5.1. C) SUBCONJUNTO GRUPO HIDRAULICO C-PLUS / C-PLUS HYDRAULIC GROUP ASSEMBLY (919XX396)



Nº	Descripción	Description	Ref.	Qty
1	CUERPO BOMBA C-PLUS ANODIZADO DURO	C-PLUS PUMP BODY	910XX579	1
2	SOPORTE BOLA ASPIRACION	ASPIRATION BALL SUPPORT	910XX120	1
3	VALVULA ASPIRACION	ASPIRATION VALVE	910XX118	1
4	VALVULA COMPRESION	COMPRESSION VALVE	910XX121	1
5	EJE GUIA MUELLE COMPENSADOR BOMBA NEUMA	SPRING GUIDE AXLE	914XX022	1
13	EJE BOMBA K4-K8 NITRURADO GASEOSO			1
6	TUBO IMPULSION C8G 00701	IMPULSION TUBE	910XX990	1
7	BOLA Ø16 ASPIRACION	ASPIRATION Ø BALL	910XX119	1
8	BOLA 8 COMPRESION	COMPRESSION Ø8 BALL	910XX122	1
9	TAPON R1/8-S	1/8" GAS BSP STAINLESS CAP	910XX001	3
10	JUNTA TORICA VITON 10X2	VITON O-RING Ø10X2	914XX025	1
11	MUELLE DANLY 8X16X76 ROJO	DANLY SPRING 8X16X76 RED	910XX407	1
12	PASADOR CILINDRICO 3X10	DOWEL PIN Ø3X10	910XX581	1

5.2. A) CONJUNTO CILINDRO / CYLINDER ASSEMBLY: (916XX165)

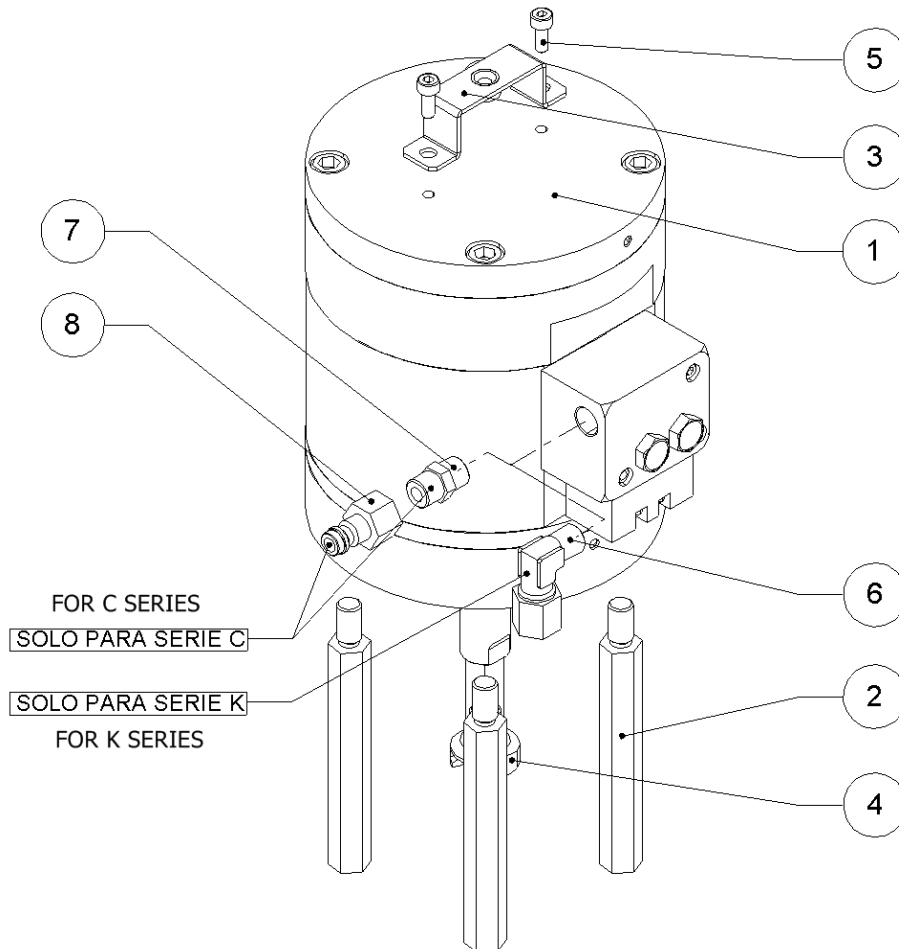
Nota: Valido para equipos hasta numero de serie 10347 / Note: Valid for equipments with serial number up to 10347)



Nº	Descripción	Description	Ref.	Qty
1	Culata inferior cilindro	Cylinder lower butt	915XX385	1
2	Culata superior cilindro C8G	Cylinder upper butt	910XX991	1
3	Eje cilindro C8G	Cylinder axle	910XX992	1
4	Junta culata cilindro	Cylinder butt joint	910XX143	2
5	Camisa cilindro	Cylinder covert	910XX149	1
6	Plato embolo cilindro	Cylinder piston plate	910XX145	2
7	Casquillo guía eje cilindro	Cylinder axle guide bushing	915XX368	1
8	Anillo embolo cilindro	Cylinder piston ring	910XX147	1
9	Junta embolo cilindro	Cylinder piston joint	910XX146	2
10	Junta embutida eje cilindro	Cylinder axle joint inlay	910XX141	1
11	Brida junta cierre	Closed joint flange	910XX142	1
12	Horquilla amarre	Yoke bracket	914XX001	1
13	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	2
14	Tornillo allen M8x20 inox.	Stainless M8x20 allen screw	915XX190	1
15	Tornillo allen M8x100 inox.	Stainless M8x100 allen screw	914XX011	1
16	Arandela plana M8 inox.	Stainless 8 flat washer		2
17	Arandela grover 8 inox.	Stainless 8 grover washer		2
18	Tornillo avellanado allen M4x10 inox.	Stainless M4x10 allen screw	910XX052	4

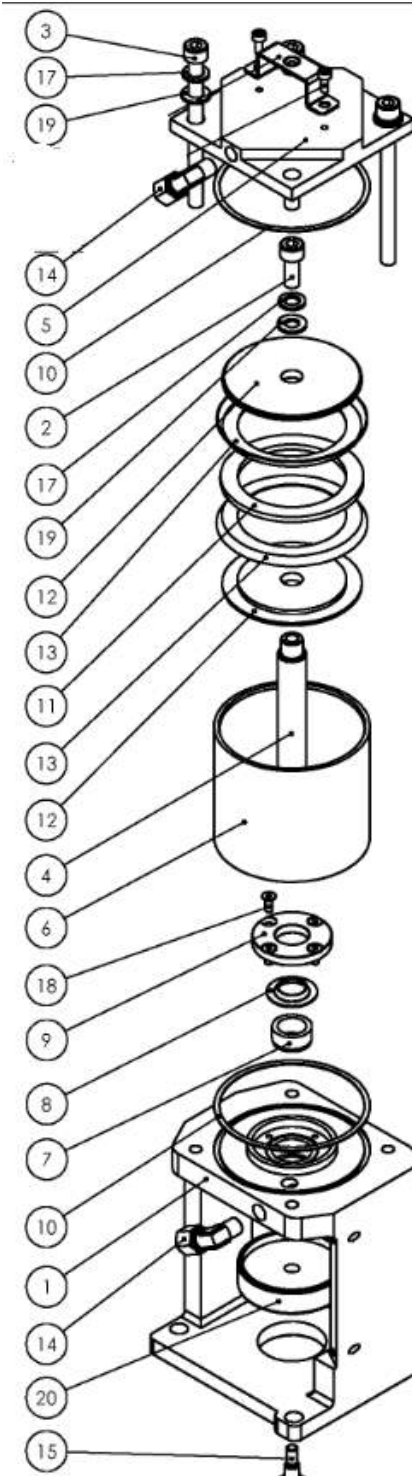
5.2. B) CONJUNTO CILINDRO / CYLINDER ASSEMBLY: (916XX409)

Nota: Valido para equipos con numero de serie desde 10438
/ Note: Valid for equipments with serial number from 10438



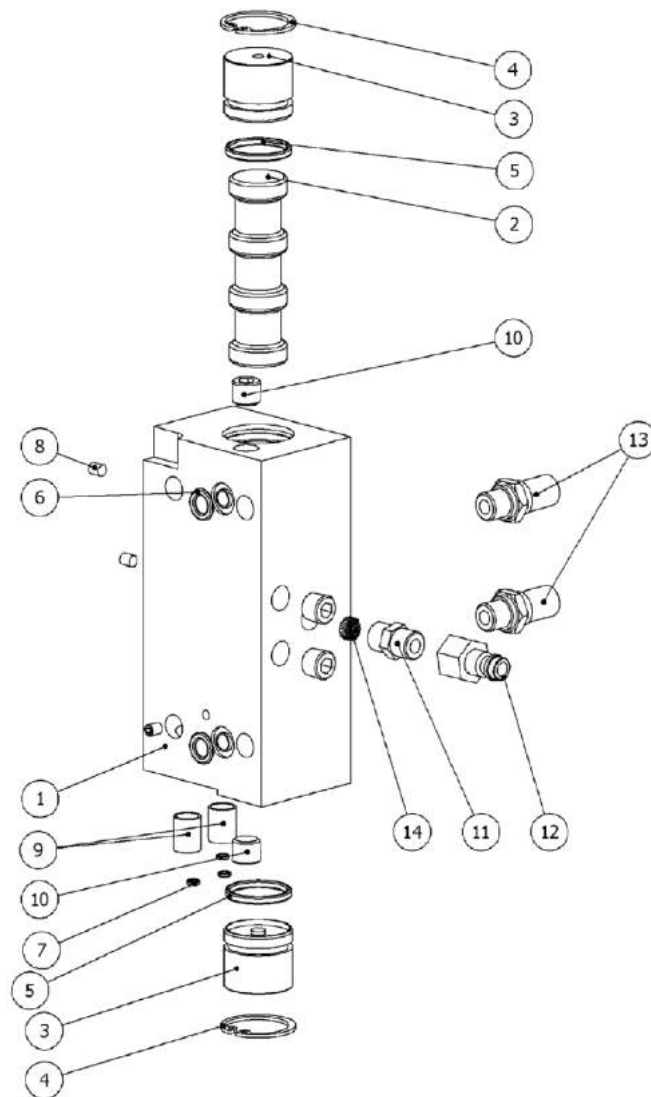
Nº	Descripción	Description	Ref.	Qty
1	Cilindro neumatico Ø 80 valco	Ø 80 valco pneumatic cylinder		1
2	Distancial cilindro G valco	G valco spacer cylinder	910XX144	4
3	Horquilla	Yoke	914XX001	1
4	Rotula cilindro G valco	Swivel G valco cylinder	910XX588	1
5	Tornillo allen M4x10	M4x10 allen screw		2
7	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
8	Macho de enchufe rapido	Fast connector male.	943XX091	1

5.2. C) SUBCONJUNTO CILINDRO C8 ALTA TEMPERATURA / C8 HIGH TEMPERATURE CYLINDER ASSEMBLY



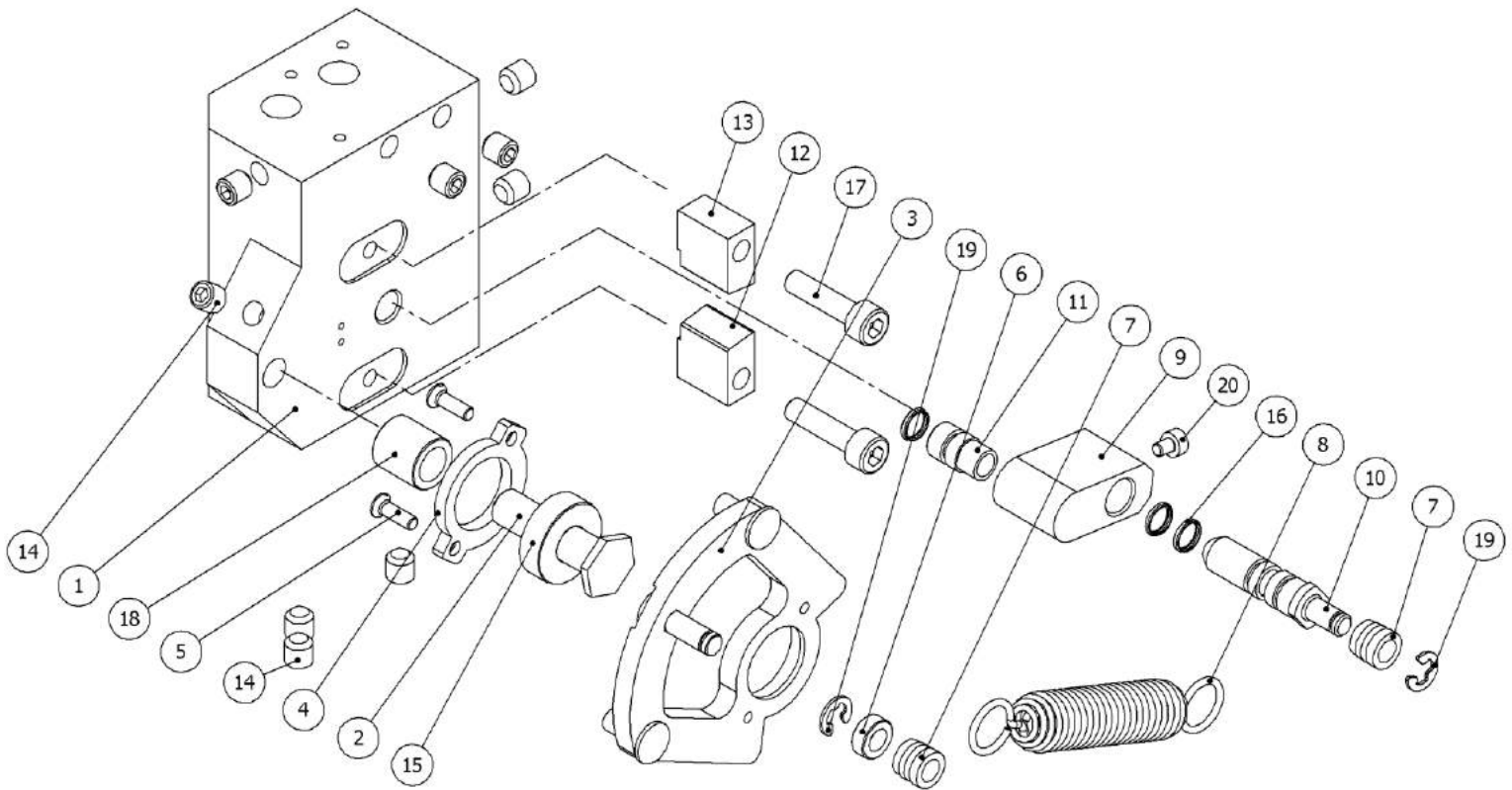
<i>Nº</i>	<i>Descripción</i>	<i>Description</i>	<i>Ref.</i>	<i>Qty</i>
1	PUENTE CILINDRO MECANIZADO C8 ALTA Tª	CYLINDER BRIDGE		1
2	TORNILLO ALLEN M8X20 INOX	ALLEN SCREW M8X20 STAINLESS	915XX190	1
3	TORNILLO ALLEN M8X100 INOX.	ALLEN SCREW M8X100 STAINLESS	914XX011	4
4	EJE CILINDRO NITRURADO GASEOSO	CYLINDER AXLE		1
5	CULATA SUPERIOR CILINDRO	CYLINDER TOP HEAD	910XX150	1
6	CAMISA CILINDRO	CYLINDER CASING	910XX149	1
7	CASQUILLO GUIA EJE CILINDRO	CYLINDER AXLE GUIDING BUSHING	910XX140	1
8	JUNTA EMBUTIDA EJE BOMBA	PUMP AXLE EMBEDDED SEAL		1
9	BRIDA JUNTA CIERRE	CLOSING JOINT BRIDLE	910XX142	1
10	JUNTA CULATA CILINDRO *	CYLINDER HEAD JOINT	910XX143	2
11	ANILLO EMBOLO CILINDRO	CYLINDER PISTON RING	910XX147	1
12	PLATO EMBOLO CILINDRO	CYLINDER PISTON PLATE	910XX145	2
13	JUNTA EMBOLO CILINDRO	CYLINDER PISTON JOINT	910XX146	2
14	RACOR 90º R1/8 / ER8-BN	90º FITTING R1/8 / ER8-BN	910XX415	2
15	PIVOTE EJE CILINDRO NITRURADO GASEOSO	CYLINDER AXLE PIVOT	915XX506	1
17	ARANDELA GROWER M8 INOX.	M8 GROVER WASHER STAINLESS	910XX135	5
18	TORNILLO CABEZA AVEL. M4X10 INOX	COUNTERSUNK SCREW M4X10 STAINLESS	910XX052	4
19	ARANDELA PLANA M8 INOX.	PLAIN WASHER M8 STAINLESS	917XX471	5
20	DISCO TOPE MICROS NITRURADO GASEOSO	MICROS TOP DISC	915XX507	1

5.3. CONJUNTO VALVULA / VALVE ASSEMBLY: (917XX065)



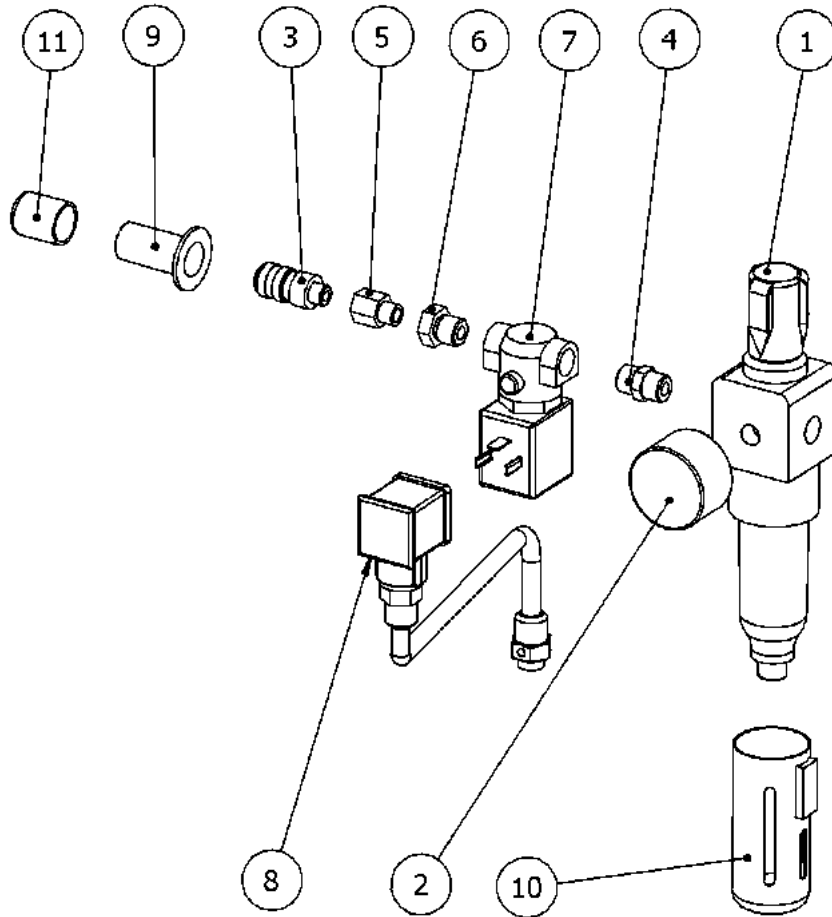
Nº	Descripción	Description	Ref.	Qty
1	Cuerpo válvula	Valve body	914XX039	1
2	Corredera	Spool	914XX037	1
3	Tapa válvula	Valve cap	914XX036	2
4	Anillo elástico agujero 25	25 hole elastic ring	914XX035	2
5	Junta tórica viton 20x2	20x2 viton o´ring	910XX047	2
6	Junta tórica viton 7.65x1.78	7.65x1,78 viton o´ring	910XX324	2
7	Junta tórica viton 3x1	3x1 viton o´ring	914XX040	3
8	Espárrago roscado M4x6 c/punta	M4x6 screwed rod	915XX359	3
9	Helicoil M8x12	M8x12 helicoil	915XX173	2
10	Tapón 1/8" GAS NPT	1/8" GAS NPT plug	913XX008	4
11	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
12	Macho del enchufe rápido	Fast connexion male	915XX360	1
13	Silenciador 1/8" Gas	1/8" gas silencer	914XX041	2
14	Filtro tapón válvula Ø8X3X110µ	Ø8X3X110µ valve plug filter	915XX361	1

5.4. CONJUNTO CAMBIO / CHANGE ASSEMBLY: (916XX189)



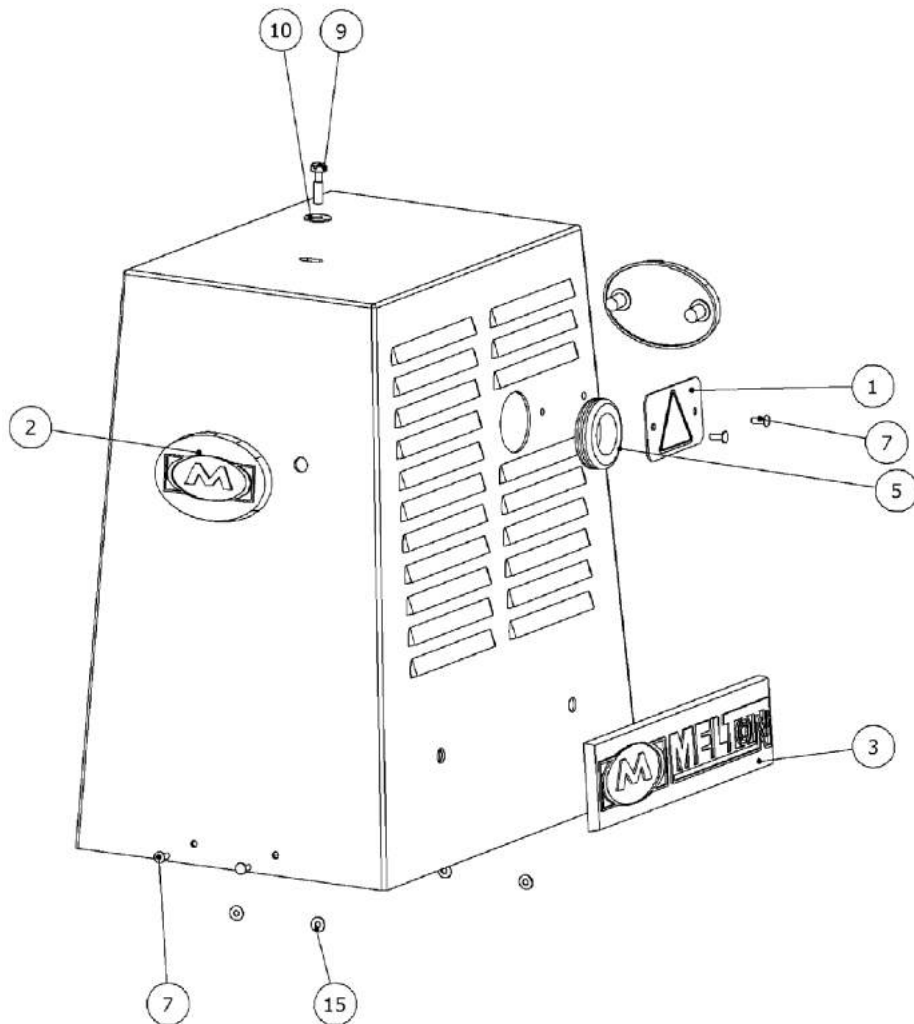
Nº	Descripción	Description	Ref.	Qty
1	Distribuidor cambio C8G	C8G Change manifold	915XX386	1
2	Tornillo amarre anillo	Ring moor screw	914XX352	1
3	Subconjunto anillo	Ring subassembly	914XX048	1
4	Tapa rodamiento	Bearing cap	914XX044	1
5	Tornillo gota sebo ranurado M3x10 inox.	Stainless M3x10 screw	910XX338	2
6	Casquillo amarre muelle 1	Spring moor cap	915XX363	1
7	Casquillo entrada pilotaje	Entering guide cap	914XX255	2
8	Muelle 1	Spring	914XX059	1
9	Cuerpo pilotaje	Guide body	914XX058	1
10	Entrada pilotaje	Guide entering	914XX057	1
11	Salida pilotaje	Guide exit	914XX053	1
12	Tope inferior	Lower stop	914XX050	1
13	Tope superior	Upper stop	914XX051	1
20	Tornillo allen M3x4 inox.	M3x4 stainless allen screw	912XX278	1
16	Junta torica viton 6x1	6x1 viton o'ring	914XX054	3
17	Tornillo allen M5x20 inox.	M5x20 allen screw	914XX052	2
14	Espárrago roscado M6x6 inox.	Stainless M6x6 screwed rod		9
15	Rodamiento 08x19x6 ZZ	08x19x6 ZZ bearing	915XX362	1
18	Distancial anillo	Ring spacer	915XX366	1
19	Anillo retención lateral eje 5	Axle 5 retention ring	914XX254	2

6. CONJUNTO CONTROL DE PRESIÓN / PRESSURE CONTROL ASSEMBLY: (917XX076)



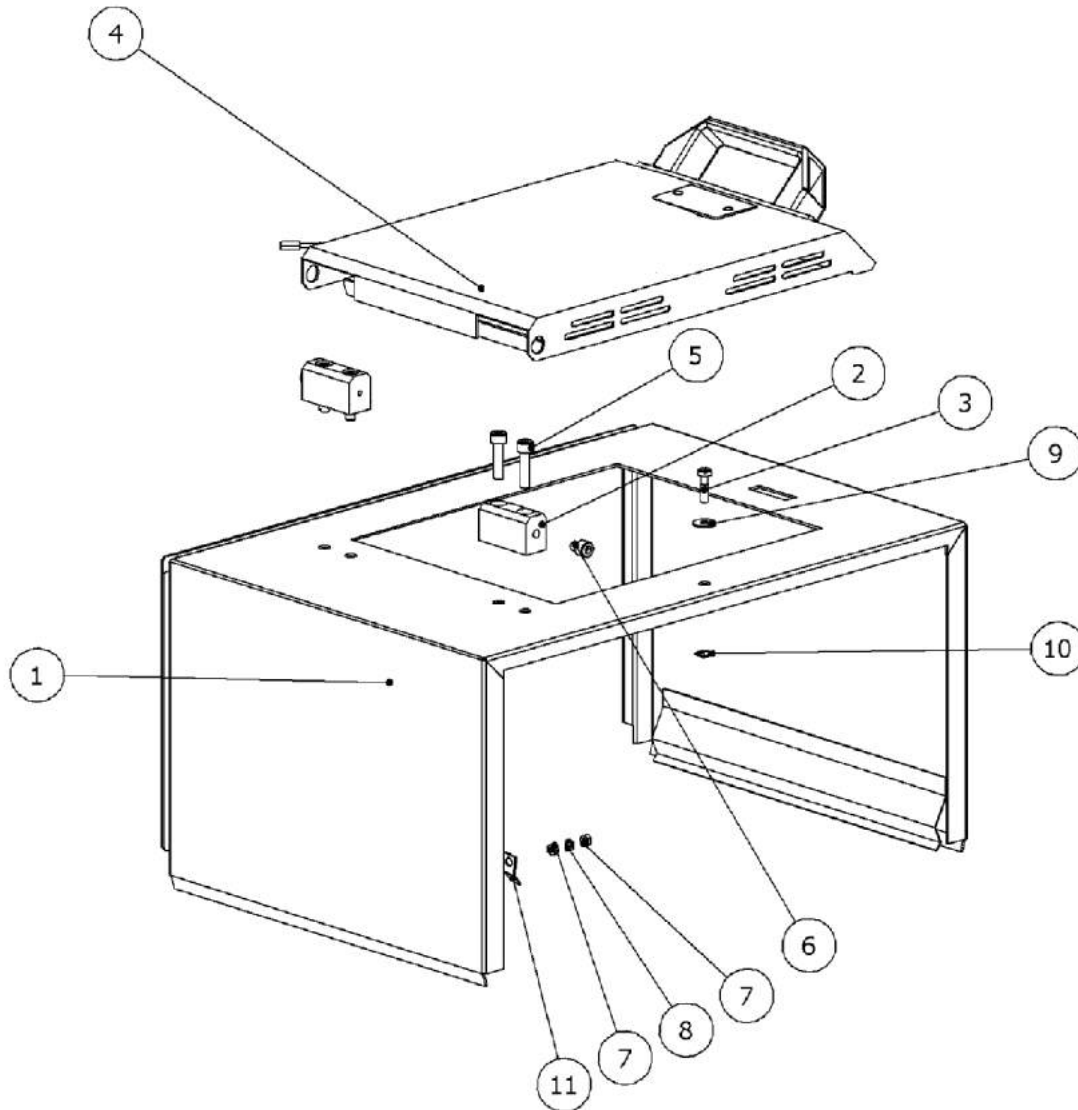
Nº	Descripción	Description	Ref.	Qty
1	Unidad filtro-regulador 1/4"G	1/4"G filter-manifold unit	914XX071	1
2	Manómetro	Manometer	914XX070	1
10	Protector de cuba modular	Protector	912XX283	1
3	Enchufe rápido conexión	Fast connector		1
4	Racor macho-macho 1/4"	1/4" male-male fitting		1
5	Adaptador macho - hembra 1/8"	Male - 1/8" female air fitting	914XX262	1
6	Reducción m 1/4"- h 1/8"	1/8" female - 1/4" male reducer	914XX080	1
9	Casquillo apertura	Opening fitting	914XX261	1
11	Capuchón flexible 17,4x25	17.4x25 plug		1
7	Electroválvula	Electric valve	910XX470	1
8	Mazo electroválvula	Electric valve connection	917XX099	1

7. CONJUNTO CARCASA BOMBA / PUMP COVER ASSEMBLY: (915XX382)



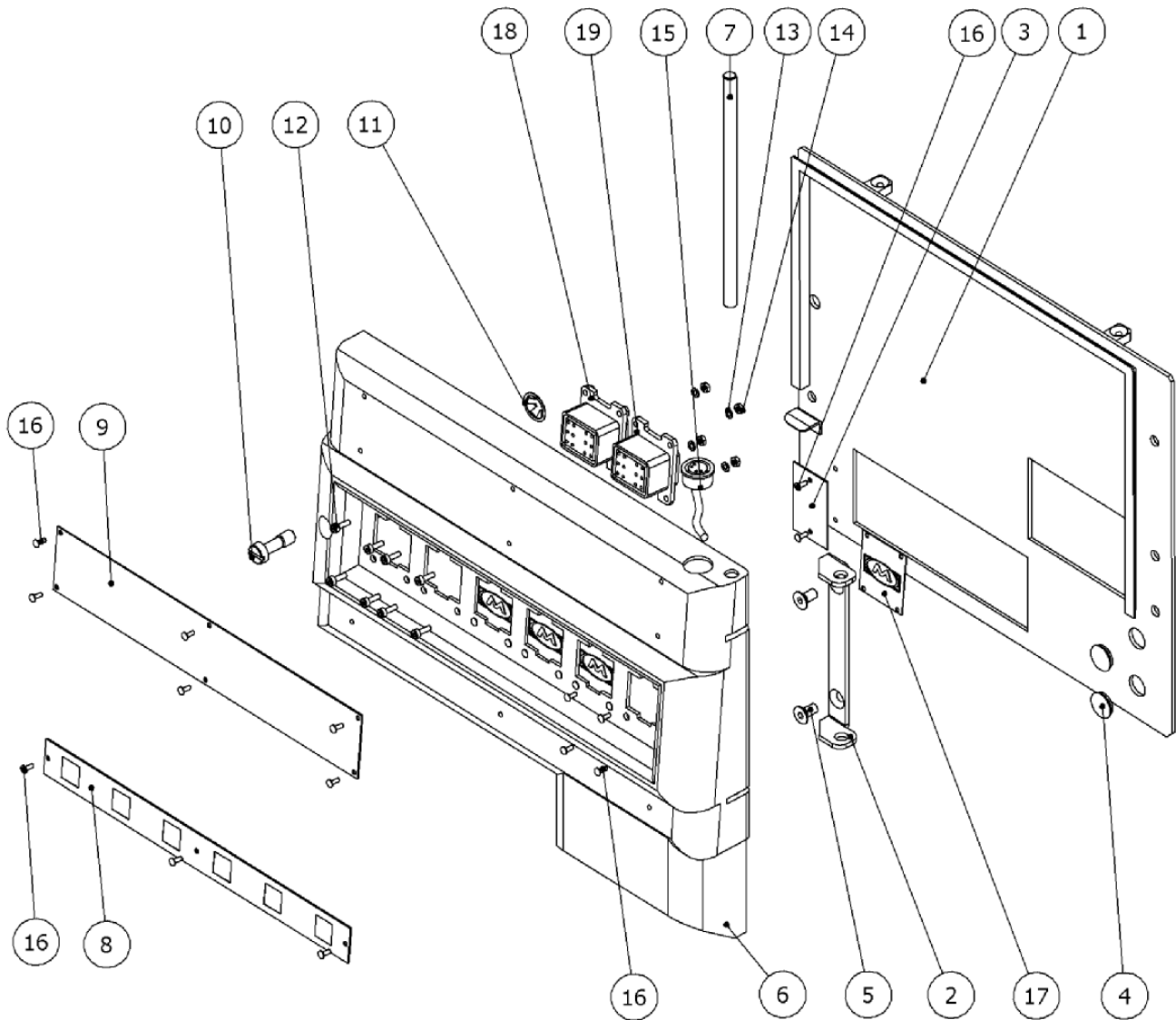
Nº	Descripción	Description	Ref.	Qty
1	Chapa presión recortada	Pressure plate	915XX387	1
2	Anagrama circular	Symbol		2
	Clip	Clip		6
3	Anagrama rectangular	Symbol		1
5	Pasatabique goma dim. 18.5	18,5 rubber bulkhead		1
9	Tornillo amarre carcasa	Cover moor screw		1
10	Arandela plana 4.3x12.4 inox.	Stainless 4.3x12.4 flat washer	919XX108	1
	Arandela retención VISTOP M4	M4 VISTOP retention washer		1
	Cierre vaivén	Swinging closure	914XX109	2
15	Arandela plana 2.5x6.5 DIN125 inox	Stainless 2,5x6,5 DIN125 flat washer		4

8. CONJUNTO CARCASA CENTRAL / CENTRAL COVER ASSEMBLY: (918XX092)



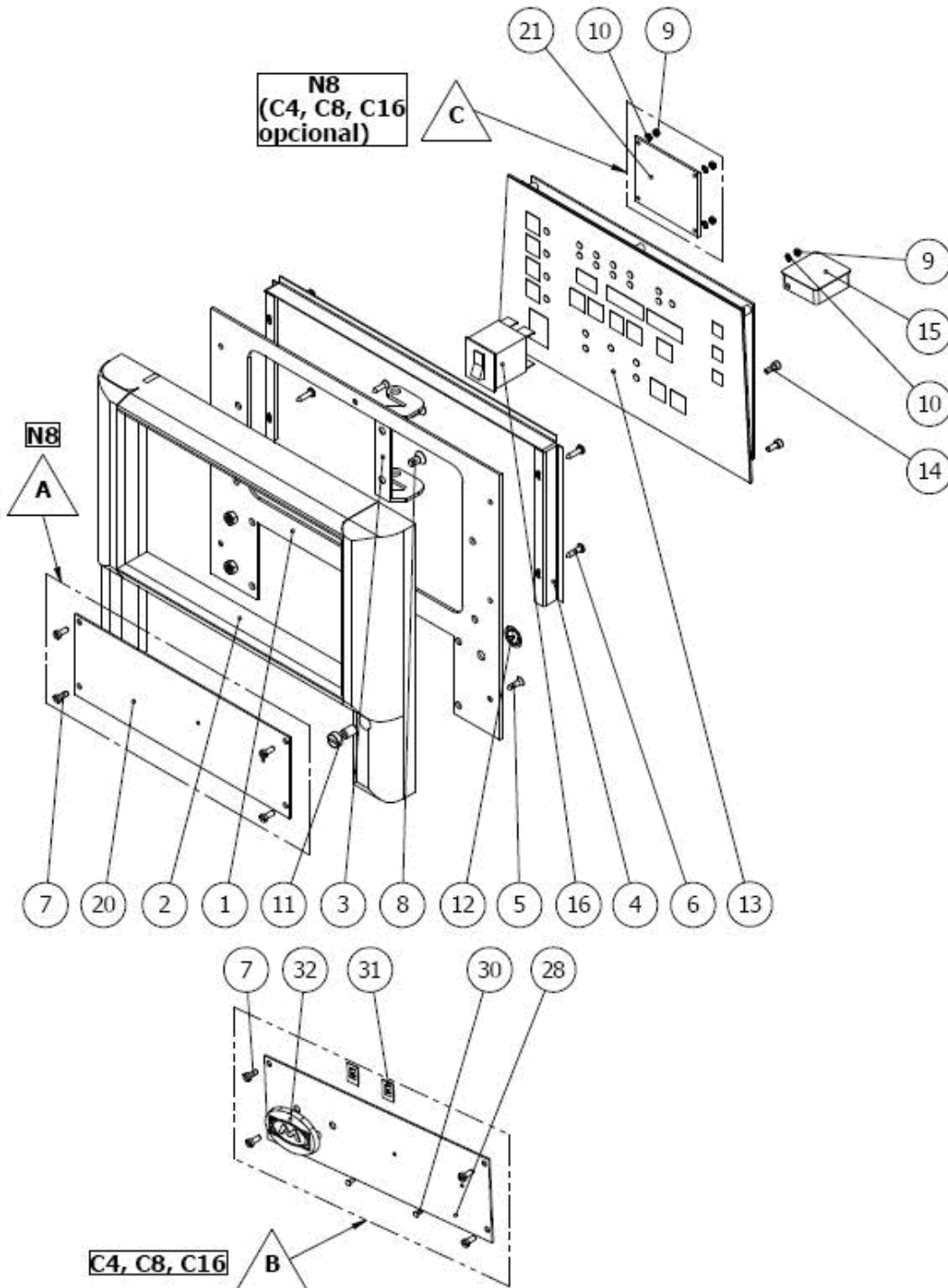
Nº	Descripción	Description	Ref.	Qty
1	Carcasa central C8	C8 central cover		1
2	Bisagra tapa depósito	Tank cover hinge	914XX147	2
3	Tornillo amarre carcassas	Cover moor screw		1
9	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 plane washer	919XX108	1
10	Arandela retención VISTOP M4	VISTOP M4 retention washer		1
4	Tapa C8	C8 tank cover	918XX127	1
5	Tornillo allen M5x20	M5x20 allen screw		4
6	Tornillo allen M5x6 inox	M5x6 allen screw		2
7	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		2
8	Arandela dentada M3	M3 indent washer		1
11	Terminal faston M-panel TE938	M-panel TE938 faston terminal		1

9. CONJUNTO PORTON TRASERO / REAR DOOR ASSEMBLY:



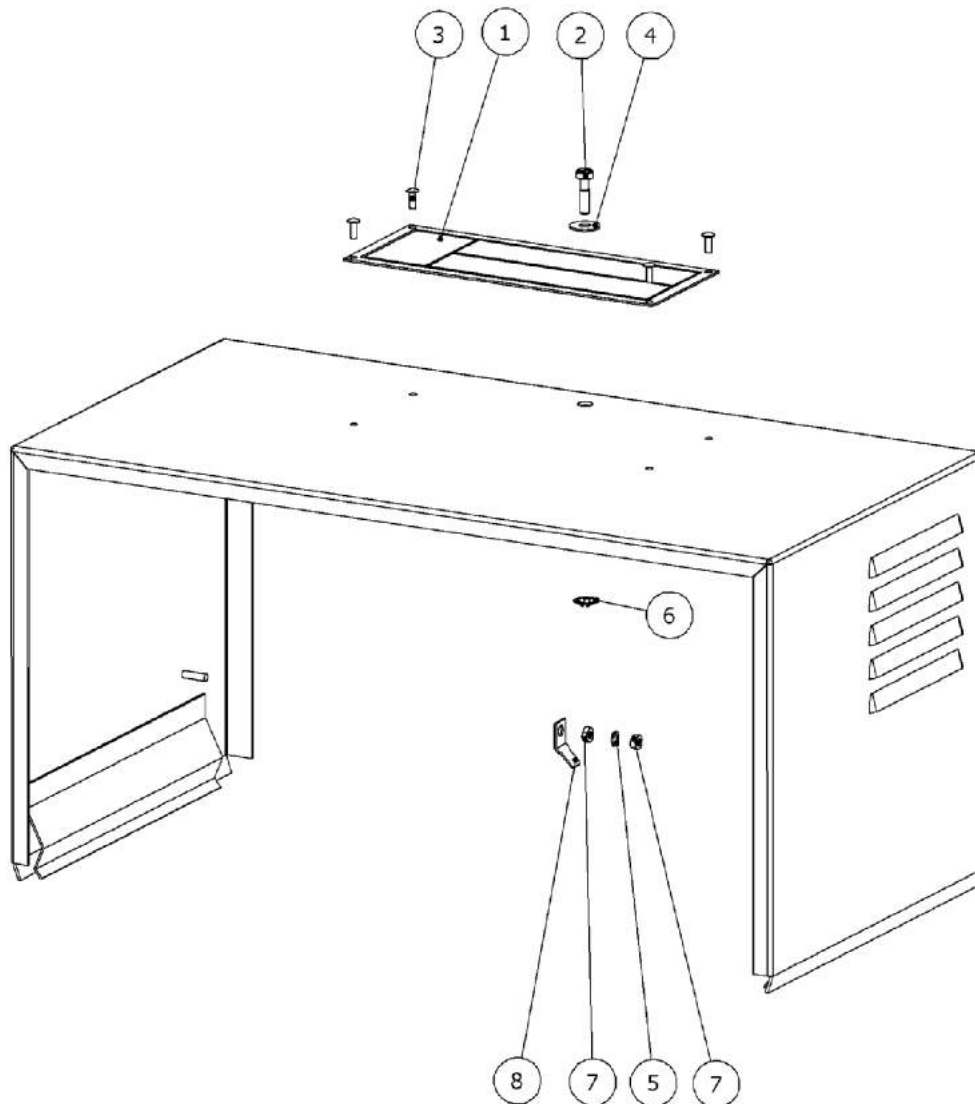
Nº	Descripción	Description	Ref.		Qty
1	Chapa trasera C8	C8 rear plate	914XX140		1
2	Horquilla portón trasero	Rear door yoke	914XX102		1
3	Chapa advertencia calor	High temperature symbol		910XX708	1
4	Tapón goma	Rubber plug	914XX141		2
5	Tornillo avellanado M6x12	M6x12 screw			2
16	Remache pop 2.4x8	2,4x8 pop clinch			11
6	Portón trasero C8	C8 rear door	20101	919XX090	1
7	Eje horquilla portón trasero	Rear door yoke axle		910XX730	1
8	Chapa inferior portón trasero	Rear door lower plate			1
9	Chapa superior portón trasero	Rear door upper plate			1
10	Tornillo amarre portón trasero	Rear door moor screw			1
11	Arandela retención VISTOP para M8	M8 VISTOP retention washer	910XX449		1
12	Tornillo allen M3x10 inox.	Stainless M3x10 allen screw			4
13	Arandela dentada M3	M3 indent washer			4
14	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut			4
15	Mazo electroválvula interior	Inner valve connector		917XX098	1
17	Chapa sustitución conectores	Connector substitution plate		914XX100	1
18	Mazo potencia control manguera nº1	Nº1Hose connector		988XX155	1
19	Mazo potencia control manguera nº2	Nº2Hose connector		988XX114	1
	Mazo potencia control manguera nº3	Nº3 Hose connector		988XX084	1
	Mazo potencia control manguera nº4	Nº4 Hose connector		988XX085	1
	Mazo potencia control manguera nº5	Nº5 Hose connector		988XX156	1
	Mazo potencia control manguera nº6	Nº6 Hose connector		988XX157	1

10. CONJUNTO PORTON DELANTERO / FRONT DOOR ASSEMBLY:



Nº	Descripción	Description	Ref.	Qty
1	Chapa portón delantero N8	Front door plate	914XX336	1
2	Portón delantero	Front door	914XX117	1
3	Horquilla portón delantero	Front door yoke	914XX120	1
4	Vierteaguas chapa portón delantero	Front door water protector		1
5	Tornillo avellanado rosca chapa 3.9x16	3,9x16 screw	915XX213	4
6	Tornillo rosca chapa 3.9x16	3,9x16 screw	910XX299	4
8	Tornillo avellanado M6x12	M6x12 screw	915XX248	2
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		1
10	Arandela dentada M3	M3 indent washer		1
11	Tornillo amarre portón delantero	Front door moor screw	910XX448	1
12	Arandela retención VISTOP M8	M8 VISTOP retention screw		1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw	911XX020	4
7	Tornillo cilíndrico con ranura M4x10	Stainless M4x10 grooved cylindrical screw		4
28	Chapa delantera	Front plate		1
29	Chapa símbolo CE	CE Symbol plate	914XX122	1
30	Remache pop 2.4x8	2.4x8 pop clinch		2
31	Clip	Clip		2
32	Logotipo melton	Melton symbol		1
13	Tarjeta de control 6 salidas	6 exit control board	918XX301	1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
13	Tarjeta de control 4 salidas	4 exit control board	918XX299	1
14	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
15	Caja fusibles 6s	6 exit fuse box	988XX397	1
	Caja fusibles 4s	4 exit fuse box	916XX265	
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		4
10	Arandela dentada M3	M3 indent washer		4
21	Tarjeta I/O	I/O card		1
16	Mazo interruptor	Switch connector	917XX101	1

11. CONJUNTO CARCASA DELANTERA C8 / C8 FRONT COVER ASSEMBLY: (917XX131)



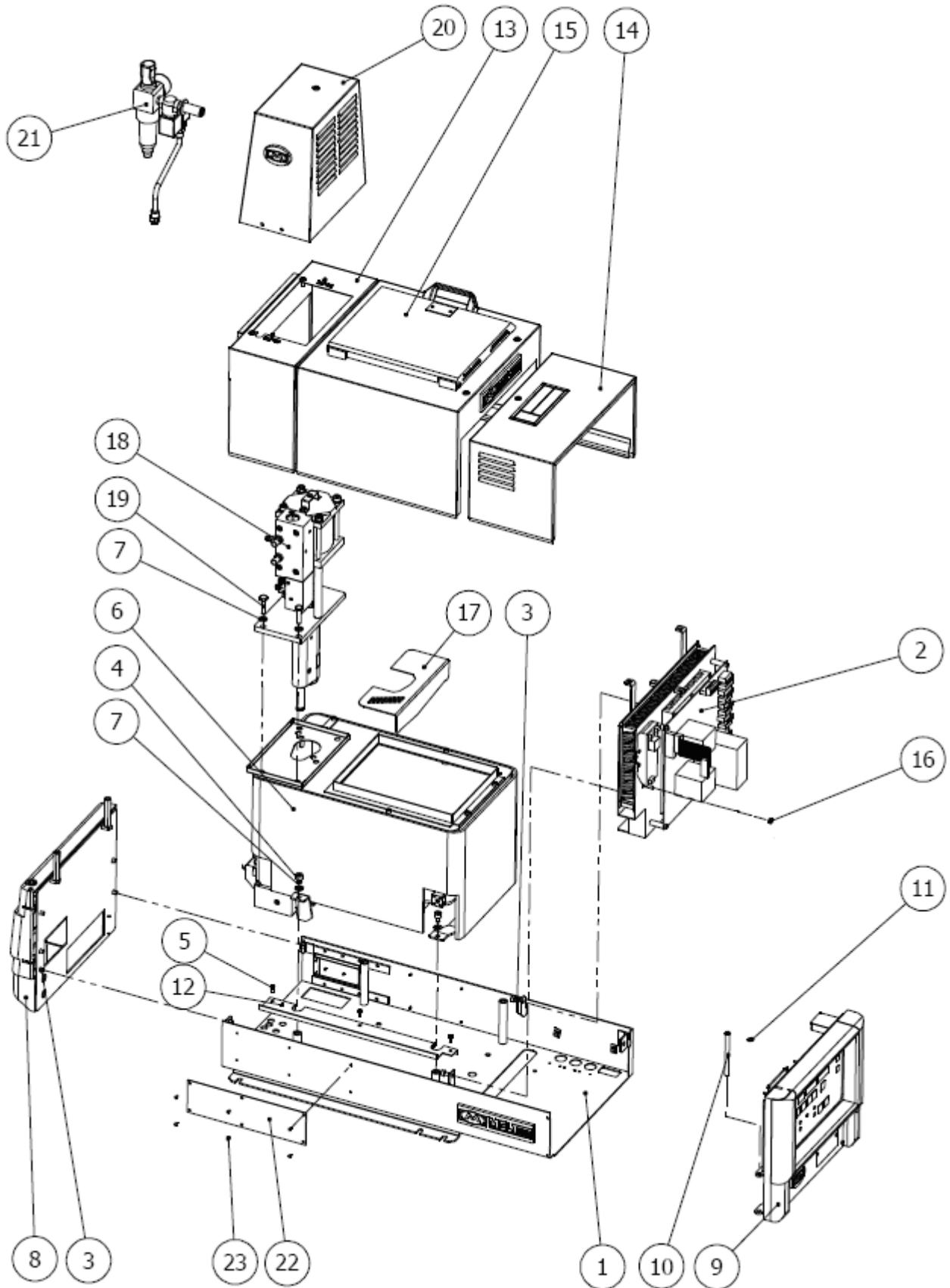
Nº	Descripción	Description	Ref.	Qty
1	Chapa carcasa delantera	Front cover plate	914XX115	1
2	Tornillo amarre carcasas	Cover moor screw		1
4	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 flat washer	919XX108	1
6	Arandela retención VISTOP M4	M4 VISTOP retention washer		1

**DESPIECE / PART LISTING
EQUIPO C16 /
C16 EQUIPMENT**

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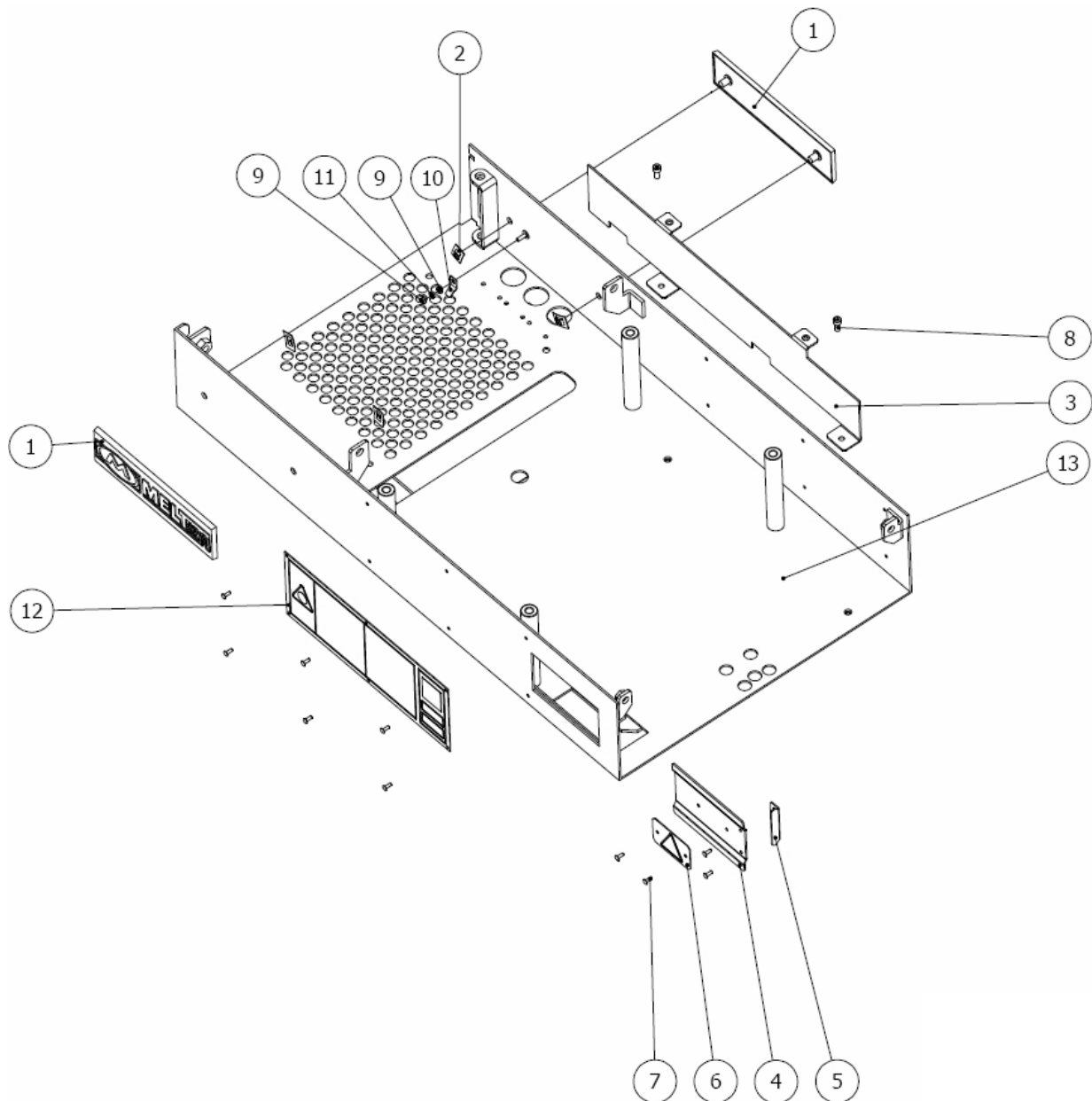
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1. EQUIPO ENCOLADOR C16 / C16 EQUIPMENT ASSEMBLY:



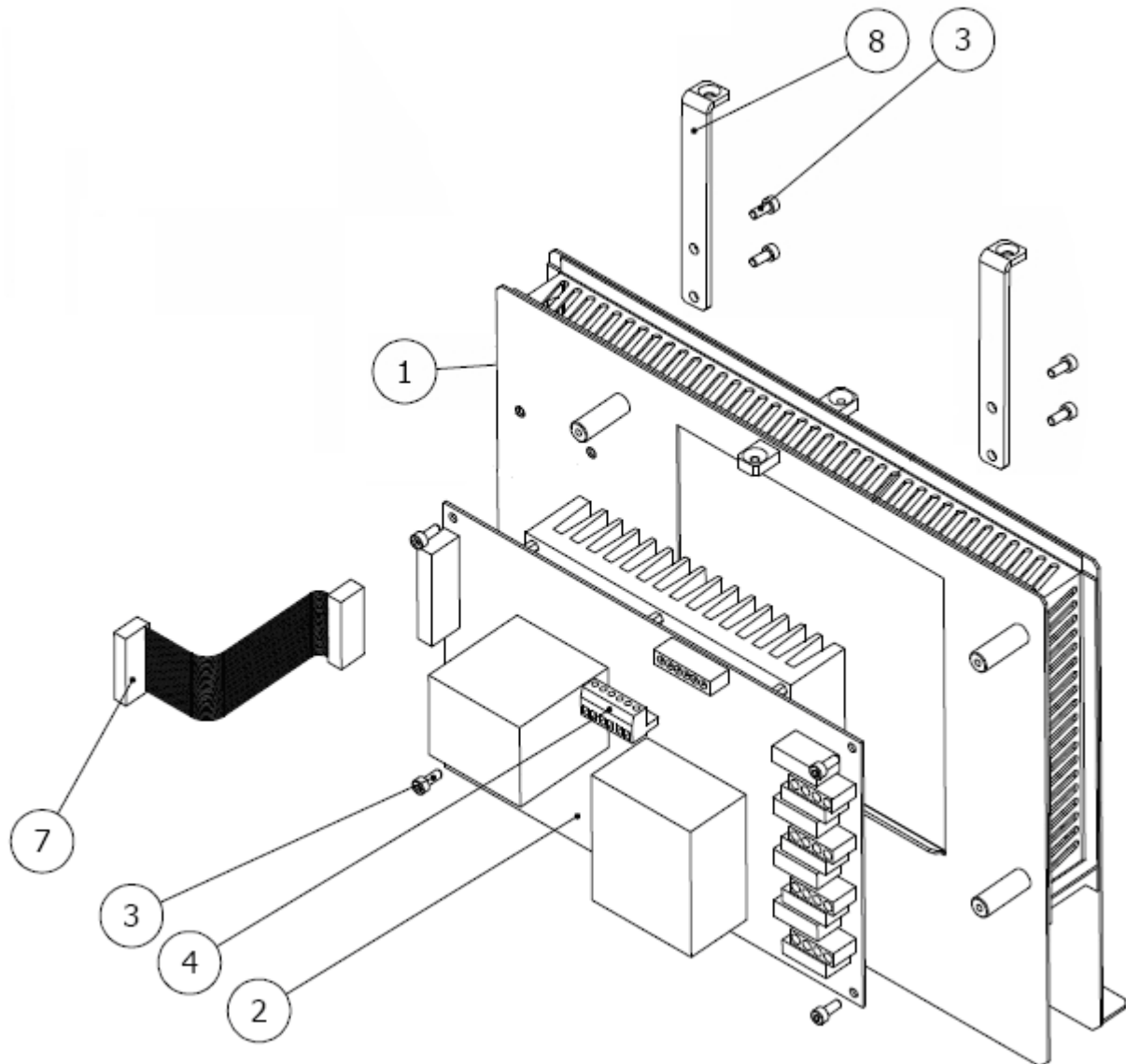
Nº	Descripción	Description	Ref.	Qty
1	Cuna	Base	918XX094	1
2	Tabique térmico	Thermal wall C series	PAG. 6	1
3	Tornillo allen M6X10 Inox.	Stainless M6x10 allen screw	915XX082	4
4	Tornillo allen M8x10 Inox.	Stainless M8x10 allen screw	915XX184	4
5	Tornillo allen M4x10 Inox.	Stainless M4x10 allen screw	910XX129	3
6	Conjunto deposito	Tank assembly	PAG. 7	1
7	Arandela grover 8 Inox.	Stainless 8 grover washer	910XX135	7
8	Conjunto portón trasero	Rear door assembly	PAG. 20	1
9	Conjunto portón delantero	Front door assembly	PAG. 22	1
10	Eje horquilla porton delantero	Front door yoke shaft	914XX121	1
11	Anillo elastico eje 8	8 elastic o'ring	912XX526	1
12	Tapa canaleta paso cables	Wiring guide cover	PAG. 5	1
13	Conjunto carcasa trasera	Front cover assembly	919XX122	1
14	Conjunto carcasa delantera	Rear cover assembly	917XX131	1
15	Conjunto carcasa central	Central cover assembly	919XX123	1
16	Tuerca hexagonal M5	M5 hex nut		2
17	Rejilla deposito	Tank grid	915XX389	1
18	Bomba	Pump assembly	PAG.12	1
19	Tornillo hexagonal M8x30	M8x30 hex screw	911XX125	3
20	Carcasa bomba	Pump cover	915XX382	1
21	Manómetro	Manometer	916XX232	1
22	Chapa matricula	ID plate		1
23	Remache pop 2.4x8	2.4x8 pop rivet	915XX154	6
A	Mazo tierra	Earth connector	911XX152	1
B	Mazo sonda NI	Ni sensor connector	916XX204	1

2. CONJUNTO CUNA / BASE ASSEMBLY:



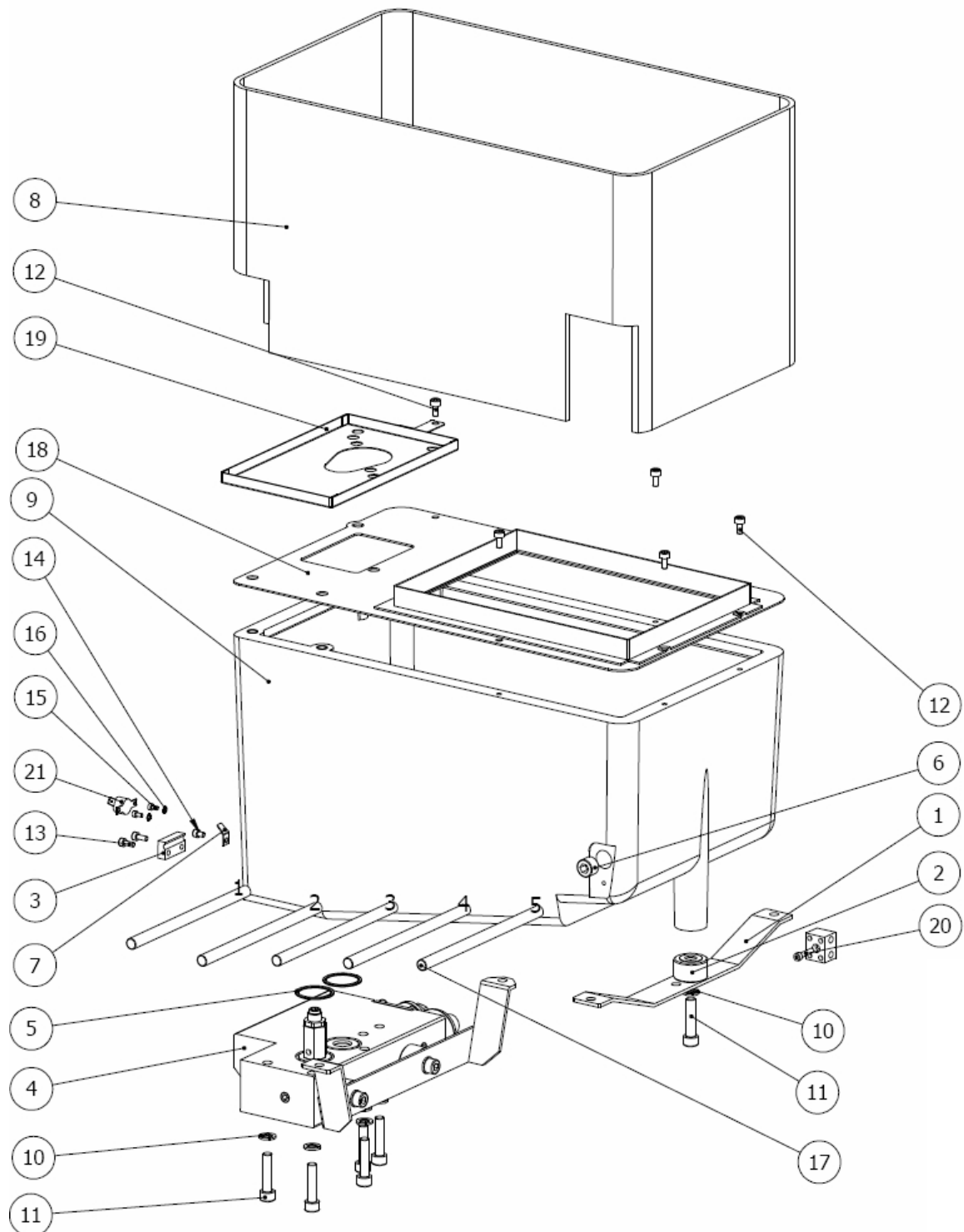
Nº	Descripción	Description	Ref.	Qty
1	Anagrama rectangular	Symbol		2
2	Clip	Clip	911XX430	4
3	Canaleta y tapa paso cables	Wiring guide and cover	919XX124	1
4	Chapa corredera filtro	Filter sliding plate	914XX138	1
5	Asidero corredera	Sliding handle	914XX139	1
6	Chapa presión	Pressure plate	914XX114	1
7	Remache pop 2.4x8	2.4x8 pop riveting	915XX154	10
8	Tornillo allen M4x10 Inox.	Stainless M4x10 allen screw	910XX129	3
9	Tornillo hexagonal M3 Inox.	Stainless M3 hex screw		2
10	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
11	Arandela dentada M3	M3 washer	910XX397	1
12	Chapa lateral filtro	Lateral filter plate	914XX144	1
13	Conjunto cuna C16	C16 base assembly		1

3. CONJUNTO TABIQUE TERMICO/THERMAL WALL ASSEMBLY:



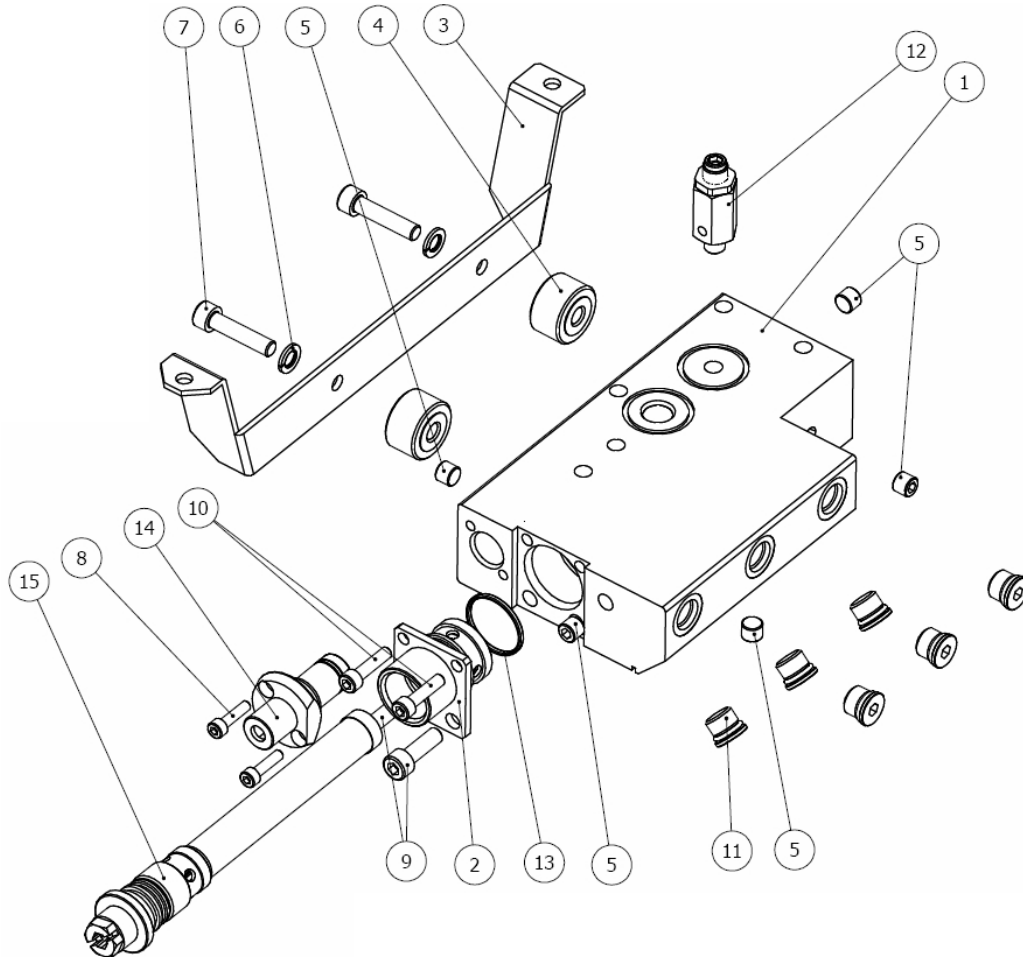
Nº	Descripción	Description	Ref.	Qty
1	Tabique térmico 4 salidas	4 exits thermal wall	914XX136	1
2	Tarjeta potencia 4 salidas	4 exits power card		1
3	Tornillo allen M4x10 Inox.	Stainless M4x10 allen screw	910XX129	8
4	Conector tarjeta 6 polos	6 poles card connector		1
5	Tarjeta sonda nivel NV5	NV5 sensor level board	914XX244	1
6	Carril soporte tarjeta sonda nivel	Sensor level borrard rail suport		1
7	Mazo interconexión	Connector	914XX160	1
8	Distancial carcasa central	Central cover spacer	919XX125	2

4. CONJUNTO DEPOSITO C16 / C16 TANK ASSEMBLY:



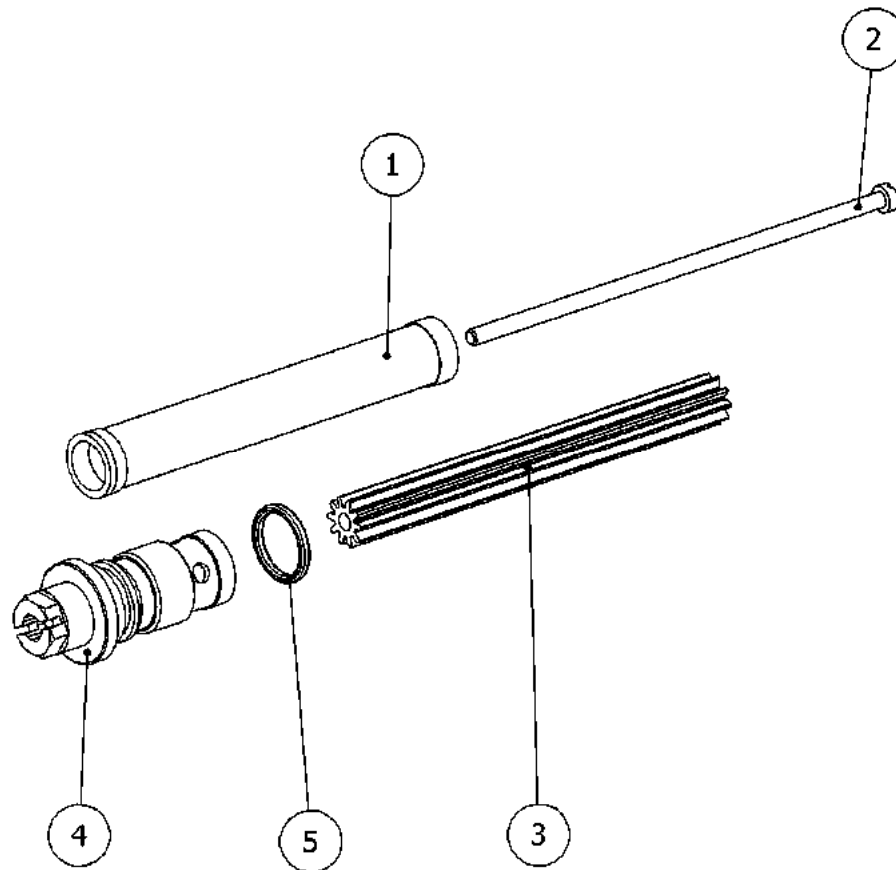
Nº	Descripción	Description	Ref.	Qty
1	Pata delantera deposito	Front tank support	914XX061	1
2	Aislante pata deposito	Insulating tank support	910XX072	1
3	Brida sonda	Bridle probe	914XX169	1
4	Distribuidor serie C	C series manifold		1
5	Junta torica viton 30x2	30x2 viton o'ring	914XX090	2
6	Tapon 3/8" Gas	3/8" Gas plug	910XX414	1
7	Terminal faston M-panel TE938	M-panel TE938 faston Terminal	915XX158	1
8	Manta aislante C16	Insulating C16 cover	915XX524	1
9	Deposito 16Kg. mecanizado C	16Kg C tank	911XX143	1
10	Arandela grover 8 Inox.	Stainless 8 grover washer	910XX135	6
11	Tornillo allen M8x35 Inox.	Stainless M8x35 allen screw	915XX238	6
12	Tornillo allen M5x10 Inox.	Stainless M5x10 allen screw	910XX968	5
13	Tornillo allen M4x10 Inox.	Stainless M4x10 allen screw	910XX129	2
14	Tornillo allen M4x6 Inox.	Stainless M4x6 allen screw	910XX004	1
15	Tornillo allen M3x6 Inox.	Stainless M3x6 allen screw	911XX132	2
16	Arandela dentada M3	M3 washer	910XX397	2
17	Mazo resistencia C16 4s	C16 4s heater bar cordset		1
18	Chapa boca deposito C16	C16 tank plate	911XX145	1
19	Bandeja bomba C8	C8 pump tray	910XX980	1
20	Tornillo allen M4x20 Inox.	Stainless M4x20 allen screw	914XX304	1
21	Mazo termostato C16	C16 gun thermostat cable		1

4.1. CONJUNTO DISTRIBUIDOR / MANIFOLD ASSEMBLY: (917XX077)



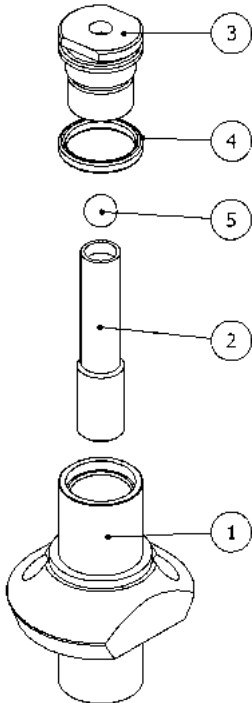
Nº	Descripción	Description	Ref.	Qty
1	Distribuidor serie C con helicoils	Serie C manifold with helicoils	916XX843	1
2	Brida rosca filtro N	N filter bridle	914XX286	1
3	Pata distribuidor	Manifold support	914XX087	1
4	Aislante para deposito	Insulating tank	910XX072	2
5	Tapon 1/8" Gas	1/8" gas plug	912XX793	5
6	Arandela grover 8 Inox.	Stainless 8 grover washer	910XX135	2
7	Tornillo allen M8x35 Inox.	Stainless M8x35 allen screw	915XX238	2
8	Tornillo allen M5x20 Inox.	Stainless M5x20 allen screw	910XX065	2
9	Tornillo allen M8x25 Inox.	Stainless M8x25 allen screw	915XX189	2
10	Tornillo allen M6x25 Inox.	Stainless M6x25 allen screw	914XX175	2
11	Tapon 9/16" con junta	9/16" plug with joint	917XX031	6
12	Conjunto válvula de seguridad 4000	Security valve assembly	917XX087	1
13	Junta torica viton 30x2	30x2 viton o'ring	914XX090	1
14	Subconjunto purgador C	C trap assembly	917XX086	1
15	Filtro Tanque malla N	N filter tank	917XX085	1

4.1.1. CONJUNTO FILTRO / FILTER ASSEMBLY:



Nº	Descripción	Description	Ref.	Qty
1	Cartucho filtro malla gruesa	Thick filter screen	914XX168	1
2	Junta tórica viton 24x2	24x2 viton o´ring	910XX601	1
	Junta tórica viton 20x2	20x2 viton o´ring	910XX047	1
3	Tornillo cartucho filtro	Filter screw	914XX085	1
4	Distancial interior filtro	Filter mount	914XX084	1
5	Tornillo filtro N	N filter plug	914XX083	1

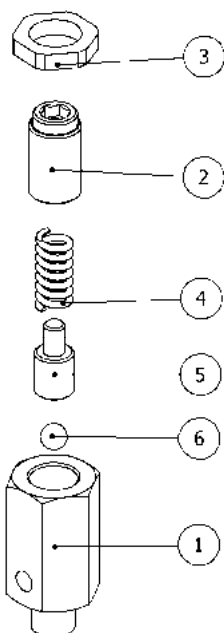
4.1.2. CONJUNTO PURGADOR / DRAINING VALVE ASSEMBLY: (917XX086)



Nº	Descripción	Description	Ref.	Qty
1	Cuerpo purgador	Draining valve body	914XX093	1
2	Esparrago purgador C	C draining valve rod		1
3	Punta purgador	Draining valve tip	914XX092	1
4	Junta tórica viton 15x2	15x2 viton o´ring	914XX091	1
5	Bola Ø7 Inox	Stainless Ø7 ball		1

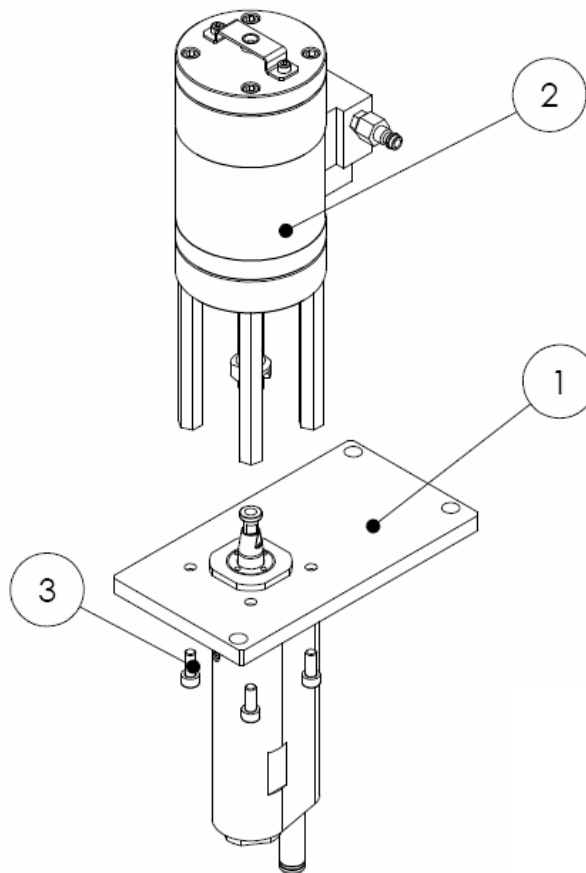
Descripción	Description	Ref.
Esparrago purgador C + Bola	C draining valve rod + Ball	914XX086

4.1.3. CONJUNTO VALVULA DE SEGURIDAD / SECURITY VALVE ASSEMBLY: (917XX087)



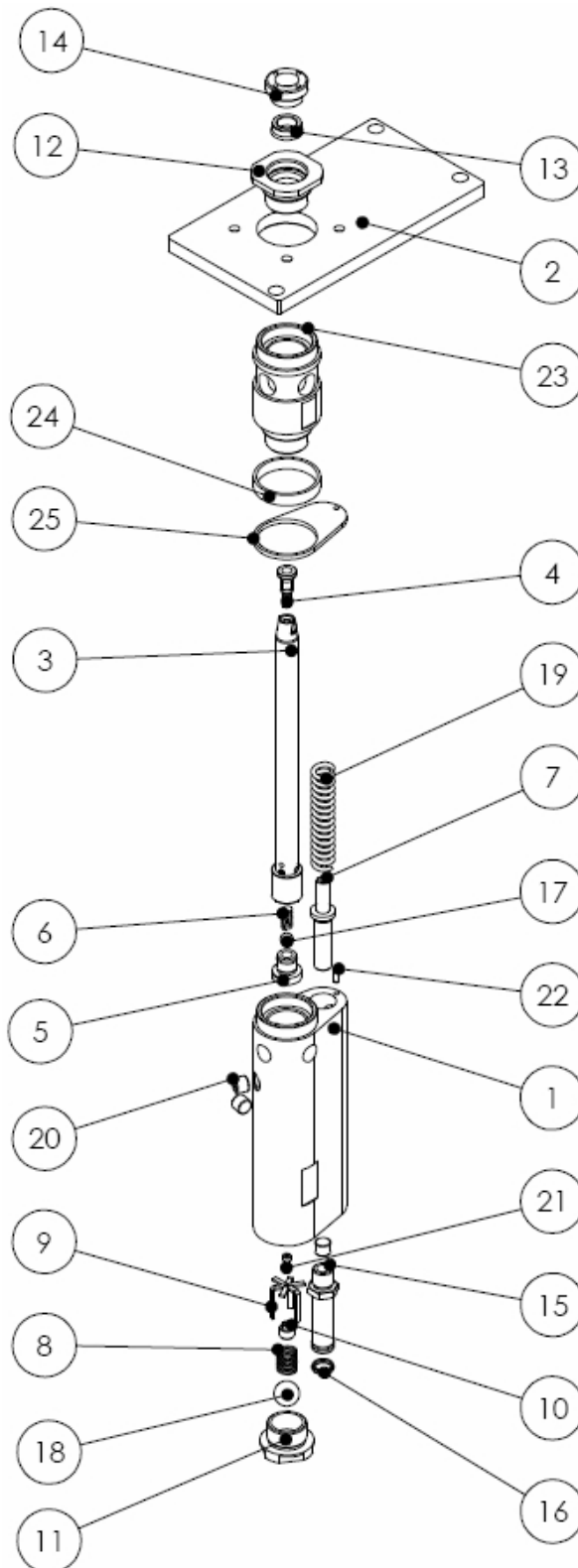
Nº	Descripción	Description	Ref.	Qty
1	Cuerpo válvula	Valve body	914XX097	1
2	Casquillo regulador muelle	Loading screw	910XX209	1
3	Tuerca trasera	Retaining nut	910XX208	1
4	Muelle	Spring	915XX388	1
5	Pivote centraje bola	Spring mount	910XX206	1
6	Bola acero 6	6 steel ball	914XX094	1

5. CONJUNTO BOMBA / PUMP ASSEMBLY: (916XX954)



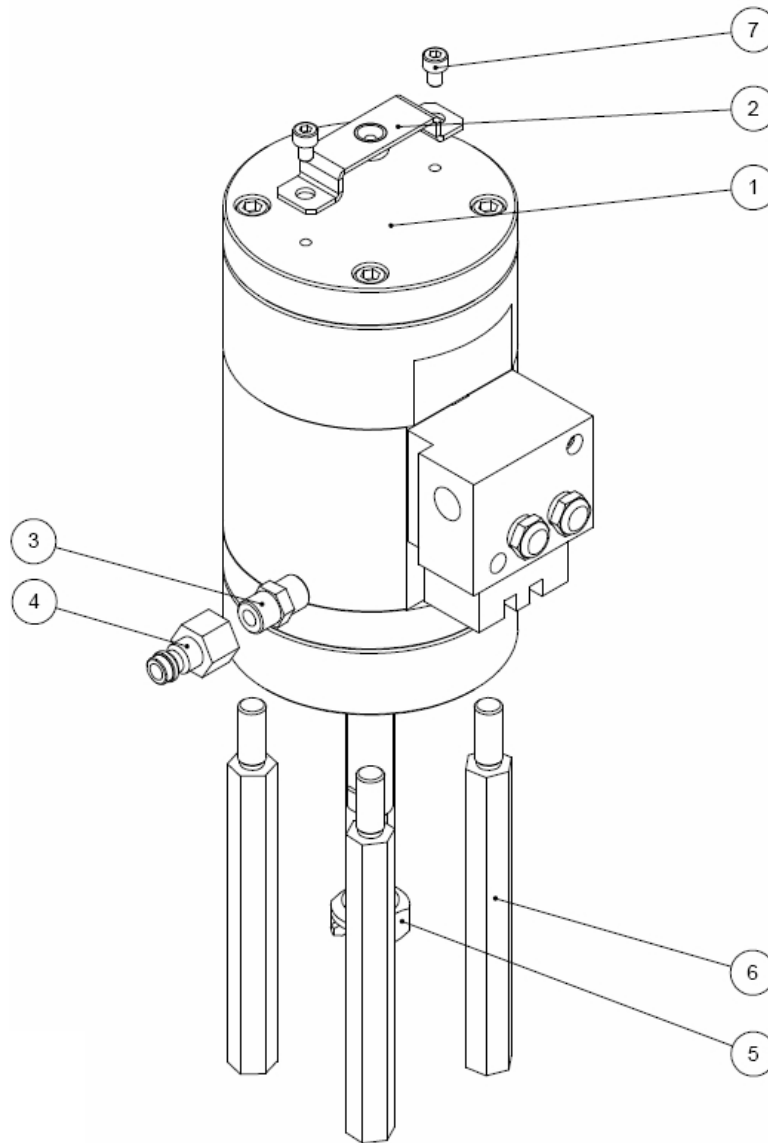
Nº	Descripción	Description	Ref.	Qty
1	Conjunto hidraulico bomba C16-LF	C16-LF Hidraulic pump assembly	916XX674	1
2	Conjunto cilindro P valco	P Valco cylinder assembly	919XX112	1
3	Tornillo allen m6x15	M6x15 allen screw	915XX090	1

5.1. CONJUNTO GRUPO HIDRAULICO / HYDRAULIC GROUP ASSEMBLY:



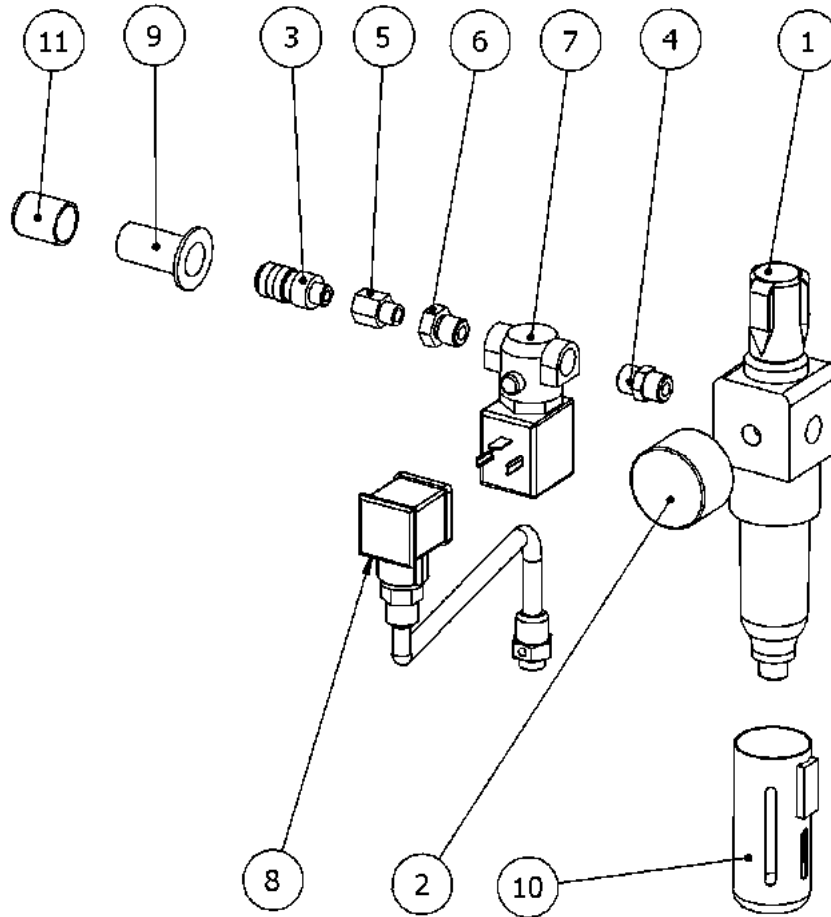
Nº	Descripción	Description	Ref.	Qty
1	Cuerpo Bomba LF – V1	LF – V1 pump body		1
2	Placa base C16P	C16P base plate		1
3	Eje bomba	Pump shaft		1
4	Pivote eje bomba	Pump shaft pin		1
5	Válvula compresión	Compression valve	914XX030	1
6	Muelle válvula compresion	Compression valve spring	914XX028	1
7	Eje guia válvula compensación	Valve guide shaft	914XX022	1
8	Muelle válvula aspiracion	Aspiration valve spring	914XX032	1
9	Guia bola válvula aspiracion	Aspiration valve ball guide	914XX031	1
10	Tope bola válvula aspiracion	Aspiration valve ball stop		1
11	Válvula aspiracion	Aspiration valve	914XX034	1
12	Tornillo portajunta bomba LF	LF pump	915XX468	1
13	Junta portajunta bomba LF	LF pump	915XX467	1
14	Tuerca portajunta bomba LF	LF pump	915XX471	1
15	Tubo impulsión	Piping tube	914XX024	1
16	Junta torica viton 10x2	10x2 viton o'ring	914XX025	1
17	Bola Ø8	Ø8 ball	910XX122	1
18	Bola Ø16	Ø16 ball	910XX119	1
19	Muelle 8x16x76 rojo	8x16x76 red spring	910XX407	1
20	Tapon 1/8" Gas BSP	1/8" Gas BSP plug	910XX001	3
21	Tornillo allen M3x10	M3x10 allen screw		1
22	Pasador cilindrico 3x10	3x10 cylinder pin	910XX581	1
23	Distancial cuerpo bomba	Body pump distancial		1
24	Anillo distancial	Distancial ring	910XX585	1
25	Tapa muelle bomba	Pump spring lid	910XX584	1

5.2. CONJUNTO CILINDRO / CYLINDER ASSEMBLY: (915XX373)



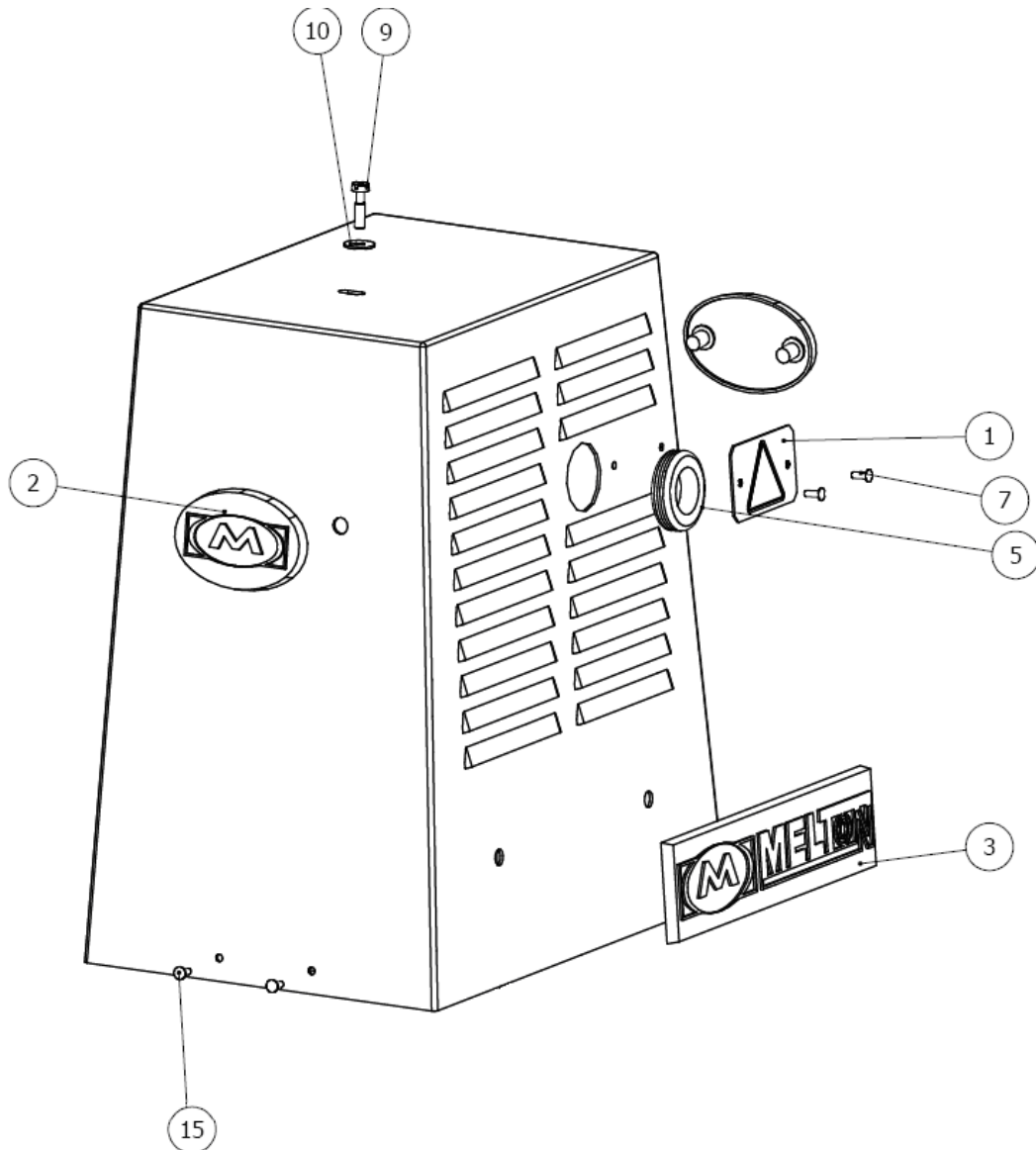
Nº	Descripción	Description	Ref.	Qty
1	Cilindro neumatico valco	Valco Pneumatic cylinder	915XX373	1
2	Brida superior cilindro valco	Valco cylinder Upper yoke	919XX113	1
3	Racor recto 1/8" M-M	1/8" M-M straight connector		1
4	Macho del enchufe rapido	Fast plug		1
5	Rotula cilindro valco	Valco cylinder hinge joint	915XX374	1
6	Distancial cilindro valco	Valco cylinder distancial	915XX375	4
7	Tornillo allen M4x6 Inox.	Stainless M4X6 allen screw	910XX004	2

6. CONJUNTO MANÓMETRO / PRESSURE CONTROL ASSEMBLY: (916XX232)



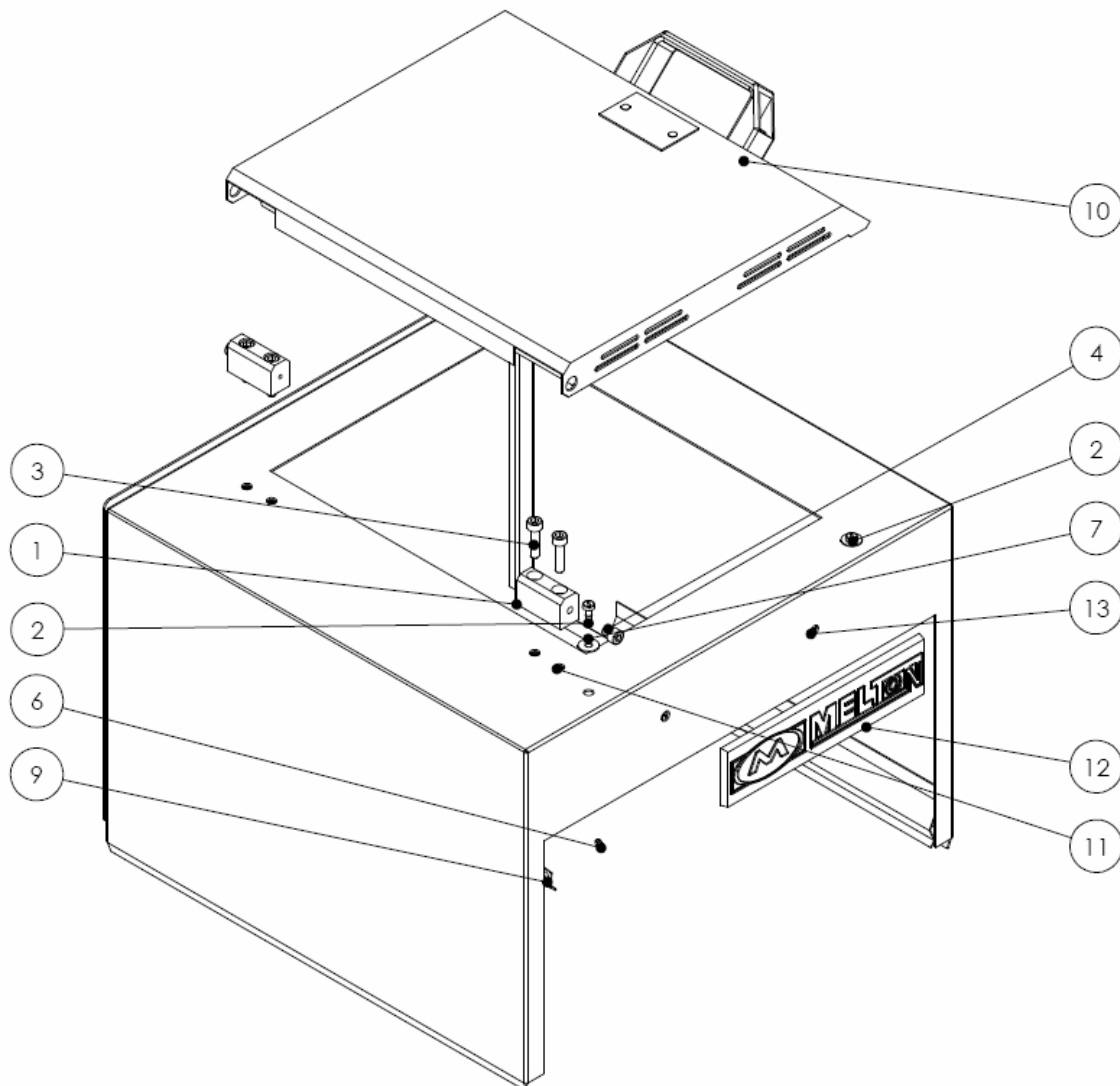
Nº	Descripción	Description	Ref.	Qty
1	Unidad filtro-regulador 1/4"G	1/4"G filter-manifold unit	913XX015	1
2	Manómetro	Manometer	914XX070	1
3	Enchufe rápido conexión	Fast connector	988XX016	1
4	Racor macho-macho 1/4"	1/4" male-male fitting	914XX069	1
5	Adaptador macho - hembra 1/8"	Male - 1/8" female air fitting	914XX262	1
6	Reducción m 1/4"- h 1/8"	1/8" female - 1/4" male reducer	914XX080	1
7	Electroválvula	Electric valve	910XX470	1
8	Mazo electroválvula	Electric valve connection	916XX197	1
9	Casquillo apertura	Opening fitting	914XX261	1
10	Protector de cuba modular	Protector	912XX283	1
11	Capuchón flexible 17,4x25	17.4x25 plug		1

7. CONJUNTO CARCASA BOMBA / PUMP COVER ASSEMBLY: (916XX276)



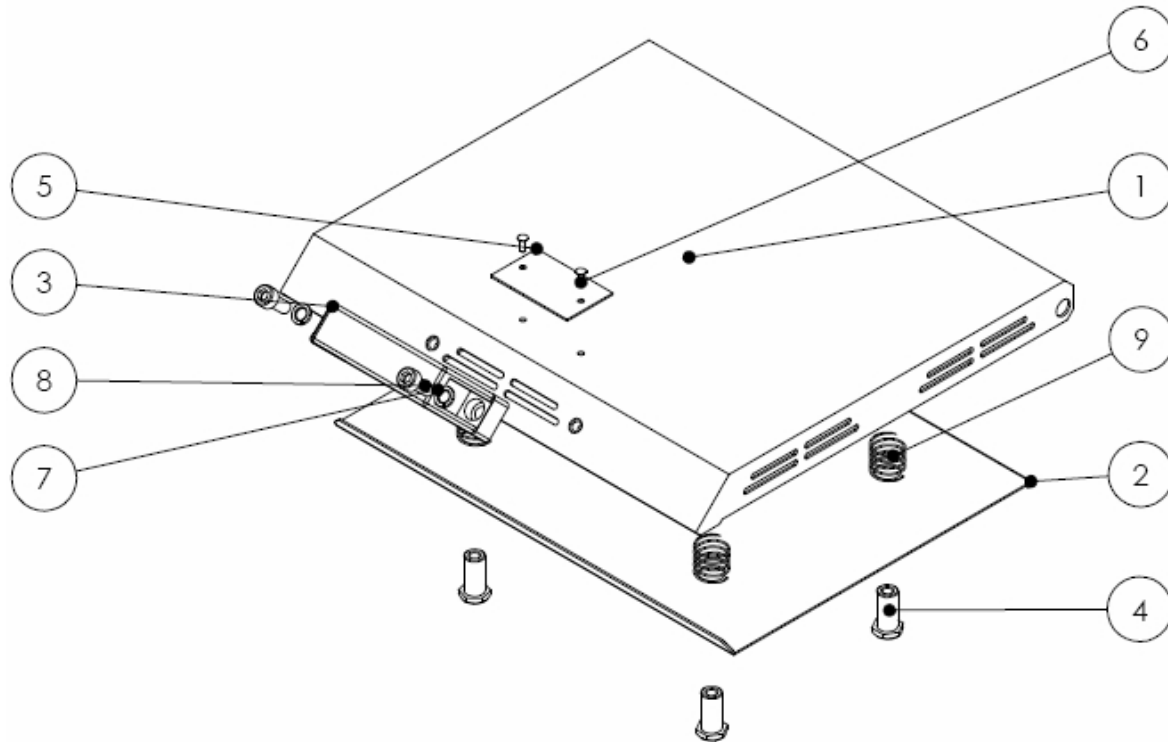
Nº	Descripción	Description	Ref.	Qty
1	Carcasa bomba C8P	C8P pump cover		1
2	Anagrama circular	Circular symbol		2
3	Anagrama rectangular	Rectangular Symbol		1
4	Clip	Clip	911XX430	6
5	Pasatabique goma dim 18.5	Dim 18.5 rubber bulkhead		1
6	Cierre vaiven	Swinging closure	914XX109	2
7	Remache pop 2.4x8	2.4x8 pop rivet	915XX154	2
8	Arandela retencion	Lock washer		1
9	Tornillo amarre carcasa	Moor cover screw	919XX108	1
10	Arandela plana 4.3x12.1 Inox	Stainless 4.3x12.1 plane washer		1
11	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
12	Arandela dentada M3	M3 whaser		1
13	Tuerca hexagonal M3 Inox.	Stainless M3 hex. Nut		2
14	Chapa de presion C	C pressure plate	914XX114	2
15	Remache pop 2.4x6	2.4x6 pop rivet		4

8. CONJUNTO CARCASA CENTRAL / CENTRAL COVER ASSEMBLY:



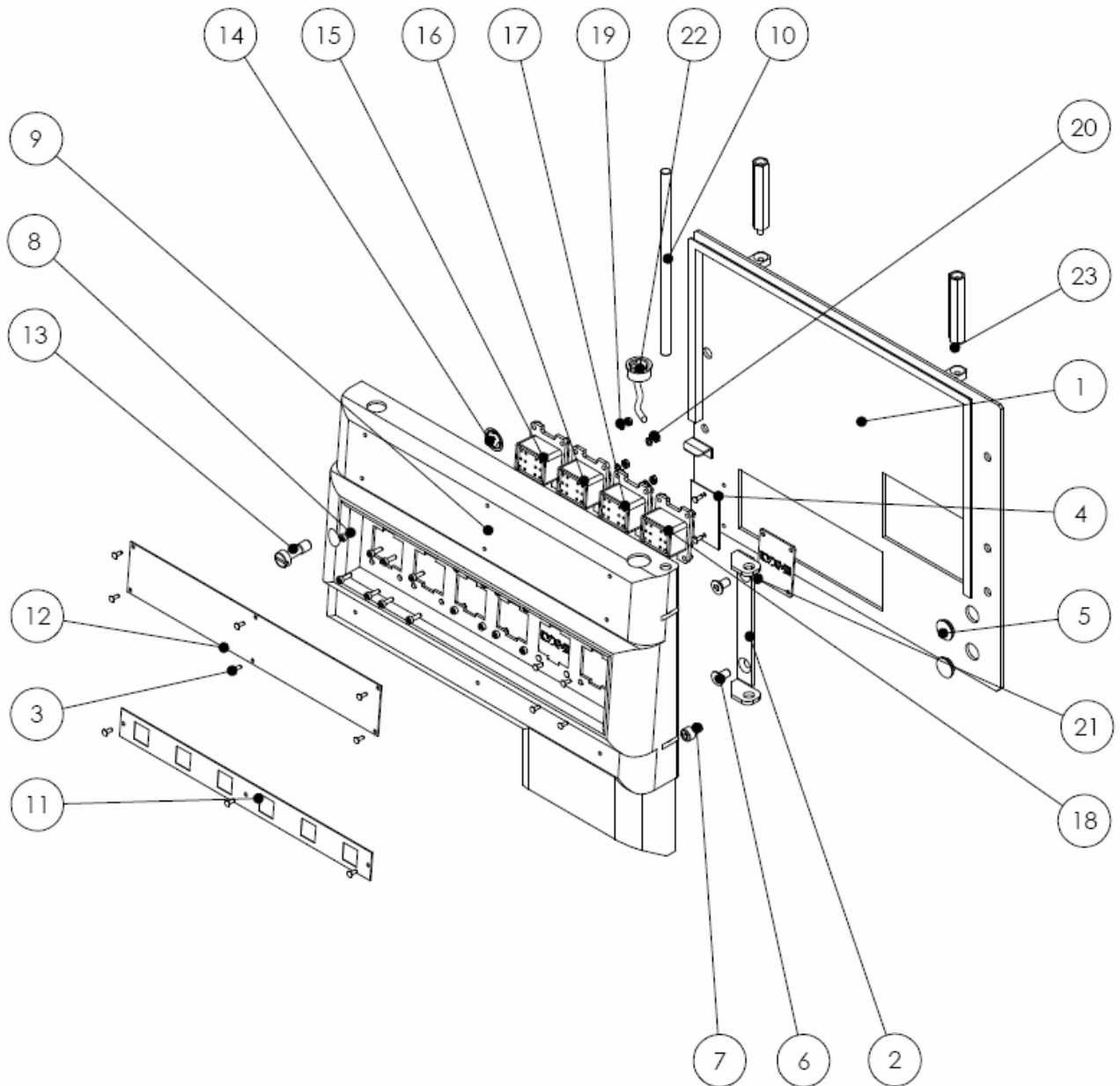
Nº	Descripción	Description	Ref.	Qty
1	Bisagra tapa deposito	Tank lid hinge	914XX147	2
2	Tornillo amarre carcadas	Moor Cover screw	919XX108	2
3	Tornillo allen M5x20 Inox.	Stainless M5x20 allen screw		4
4	Tornillo allen M5x6 Inox.	Stainless M5x6 allen screw		2
5	Tuerca hexagonal M3 Inox.	Stainless M3 hex. Nut		2
6	Arandela dentada M3	M3 washer	910XX397	1
7	Arandela plana 4.3x12.4 Inox.	Stainless 4.3x12.4 straight washer	915XX201	2
8	Arandela retencion VISTOP M4	VISTOP M4 lock washer		2
9	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
10	Conjunto tapa serie C	C series lid assembly		1
11	Carcasa central C16	C16 Central cover	919XX123	1
12	Anagrama rectangular	Rectangular symbol		1
13	Clip	Clip	911XX430	2

8.1. CONJUNTO TAPA / LID ASSEMBLY:



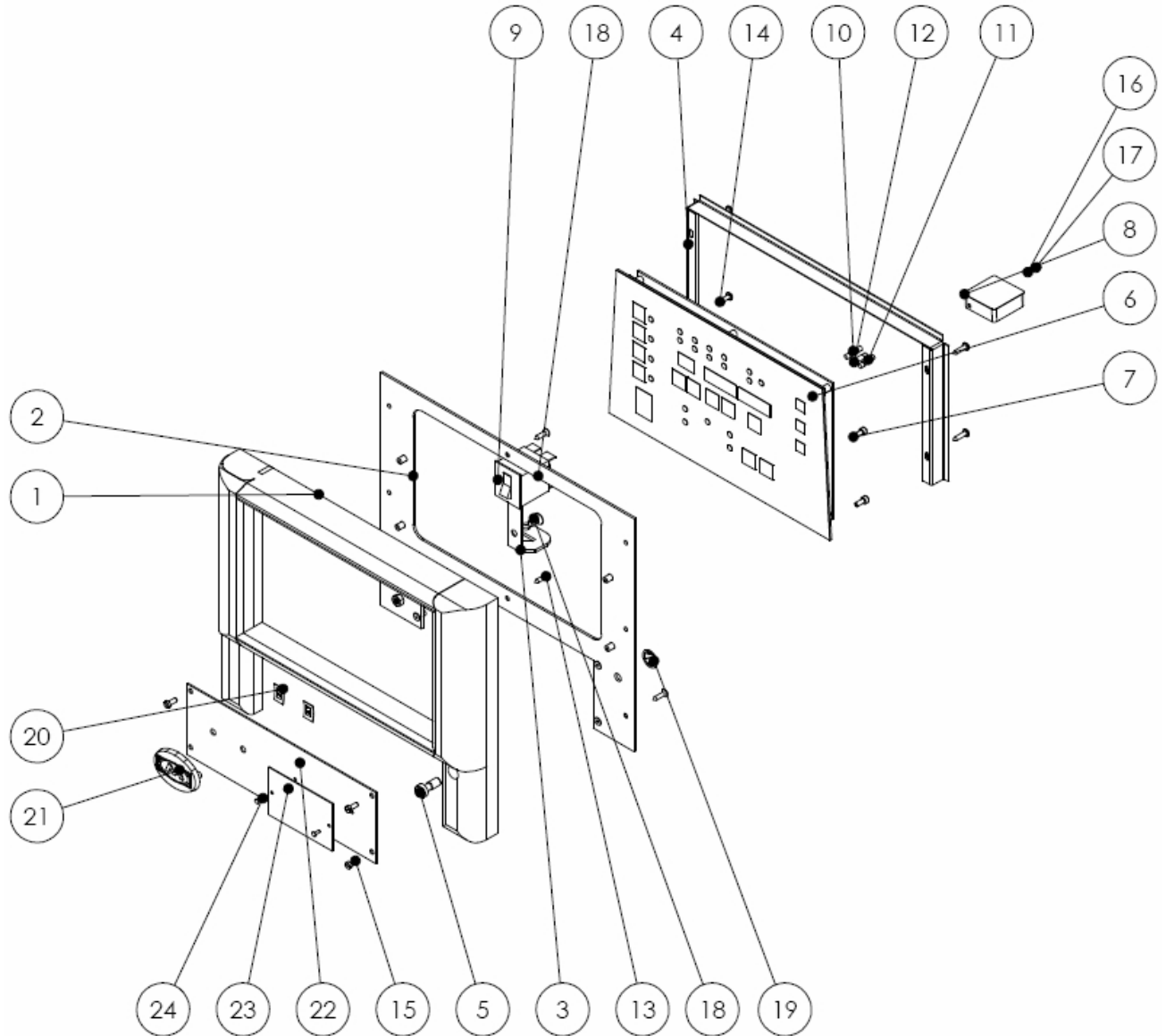
Nº	Descripción	Description	Ref.	Qty
1	Tapa deposito C16	C16 tank lid		1
2	Contratapa deposito C16	C16 tank back lid		1
3	Asa pequeña naranja	Small orange handle		1
4	Tuerca contratapa	Back lid nut	911XX409	4
5	Chapa símbolo quemaduras	Symbol lid		1
6	Remache pop 2.4x8	2.4x8 pop rivet	915XX154	2
7	Arandela grover M6 Inox.	Stainless M6 grover washer	910XX131	2
8	Tornillo allen M6x15 Inox.	Stainless M6x15 allen screw	915XX090	2
9	Muelle tapa deposito	Tank lid spring	911XX429	4

9. CONJUNTO PORTON TRASERO / REAR DOOR ASSEMBLY:



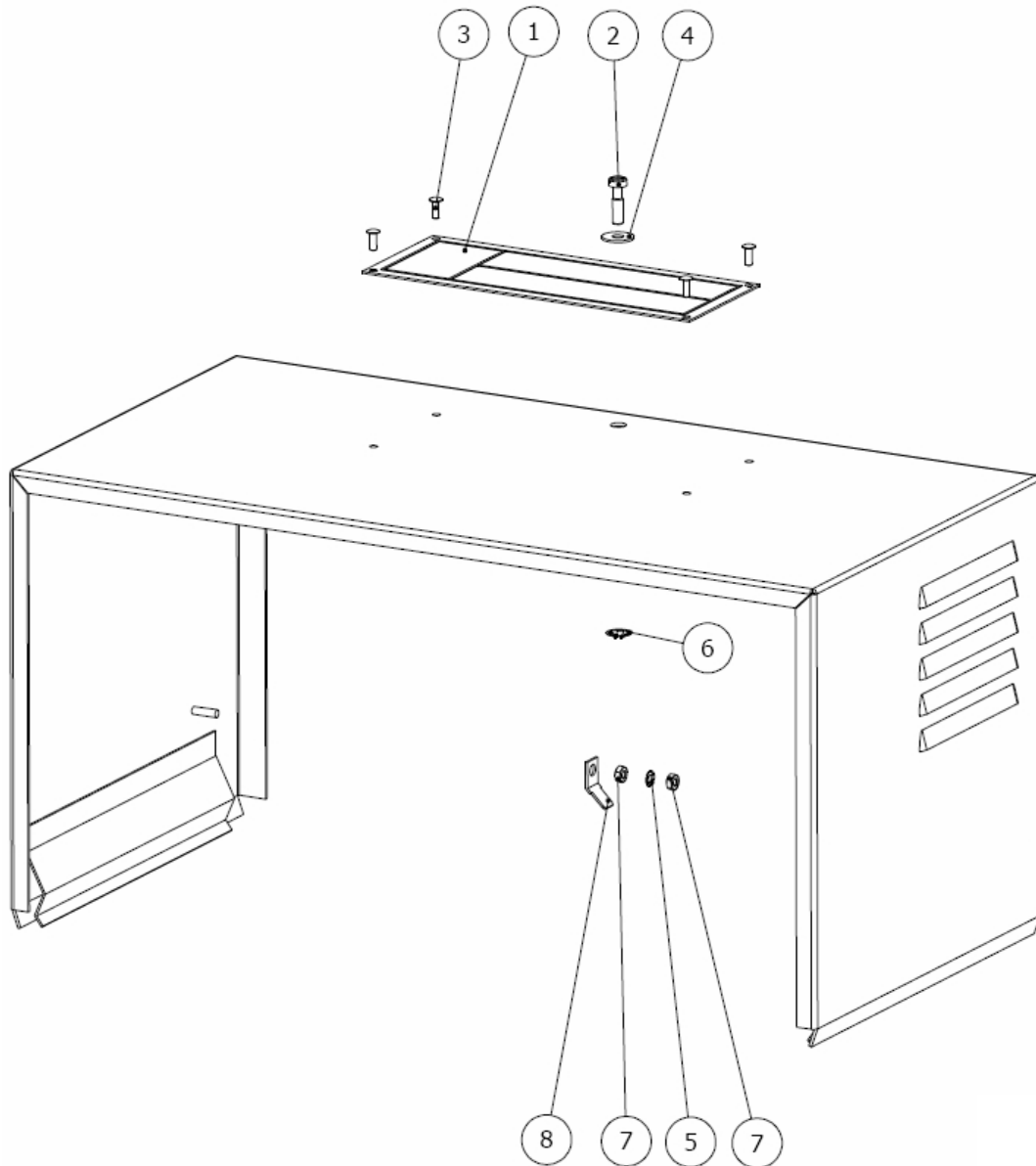
Nº	Descripción	Description	Ref.	Qty
1	Chapa trasera	Rear plate	914XX140	1
2	Horquilla portón trasero	Rear door yoke	914XX102	1
3	Remache pop 2.4x8	2.4x8 pop rivet	915XX154	19
4	Chapa advertencia calor	High temperature symbol		1
5	Tapon goma	Rubber plug	914XX141	2
6	Tornillo avellanado M6x12 Inox.	M6x12 advanced screw	915XX248	2
7	Tornillo allen M6x10 Inox.	Stainless M6x12 allen screw		2
8	Tornillo allen M3x10 Inox.	Stainless M3x10 allen screw	910XX084	16
9	Porton trasero C4	C4 rear door	914XX101	1
10	Eje horquilla porton trasero	Rear door yoke axle	914XX103	1
11	Chapa inferior porton trasero	Rear door lower plate	914XX106	1
12	Chapa superior porton trasero	Rear door upper plate	914XX105	1
13	Tornillo amarre porton trasero	Rear door moor screw	914XX104	1
14	Arandela retencion VISTOP M8	M8 VISTOP retention washer	914XX309	1
15	Mazo potencia control manguera P1	P1 hose connector	988XX155	1
16	Mazo potencia control manguera P2	P2 hose connector	988XX114	1
17	Mazo potencia control manguera P3	P3 hose connector	988XX084	1
18	Mazo potencia control manguera P4	P4 hose connector	988XX085	1
19	Arandela dentada M3	M3 washer	910XX397	16
20	Tuerca hexagonal M3 Inox.	Stainless M3 hex nut		16
21	Chapa sustitución conectores	Connector substitution plate	914XX100	2
22	Mazo electrovalvula interior	Inner valve connector	917XX098	1
23	Distancial carcasa trasera C16	C16 spacer rear door	919XX126	2

10. CONJUNTO PORTON DELANTERO / FRONT DOOR ASSEMBLY:



Nº	Descripción	Description	Ref.	Qty
1	Portón delantero	Front door	914XX117	1
2	Chapa portón delantero N8	Front door plate	914XX336	1
3	Horquilla portón delantero	Front door yoke	914XX120	1
4	Vierteaguas chapa portón delantero	Front door water protector		1
5	Tornillo amarre porton delantero	Front door moor screw	914XX123	1
6	Tarjeta control	Control board	918XX299	1
7	Tornillo allen M4x10 Inox.	Stainless M4x10 allen screw	910XX129	4
8	Caja plastico boquillas 35x12	35x12 Nozzle plastic box		1
9	Interruptor magnetotermico	Magnetothermic switch	912XX266	1
10	Fusible 5x20 6.3 Rapido	5x20 6.3 Fast fuse	910XX270	1
11	Fusible 5x20 0.5A	5x20 0.5A fuse	911XX141	1
12	Fusible 5x20 5.0 Rapido	5x20 5.0 Fast fuse	911XX142	1
13	Tornillo avellanado rosca chapa 3.9x16	3.9x16 advanced screw	915XX213	4
14	Tornillo rosca chapa 3.9x16	3.9x16 screw	910XX299	4
15	Tornillo cilindrico con ranura M4x10	Cylinder screw w/ M4x10 hole	914XX125	4
16	Arandela dentada M3	M3 washer	910XX397	1
17	Tuerca hexagonal M3 Inox.	Stainless M3 hex. Nut		1
18	Tornillo avellanado M6x12	M6x12 advanced screw	915XX248	2
19	Arandela retencion VISTOP M8	M8 VISTOP retention washer	914XX309	1
20	Clip	Clip	911XX430	2
21	Anagrama circular	Circular anagram		1
22	Chapa delantera	Front plate	914XX122	1
23	Chapa símbolo CE	CE symbol plate		1
24	Remache pop 2.4x8	2.4x8 pop rivet	915XX154	2

11. CONJUNTO CARCASA DELANTERA / FRONT COVER ASSEMBLY: (917XX131)



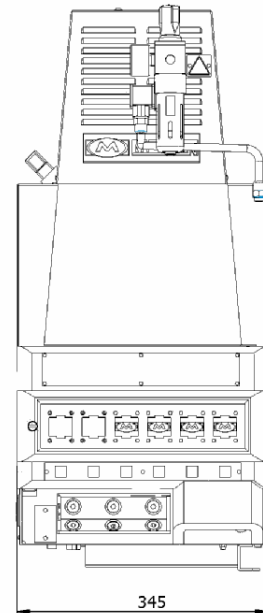
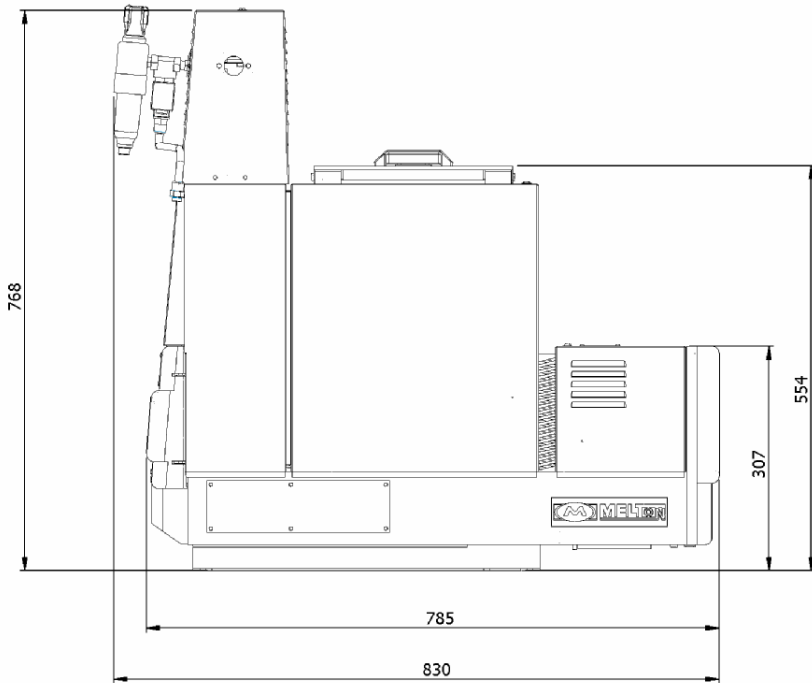
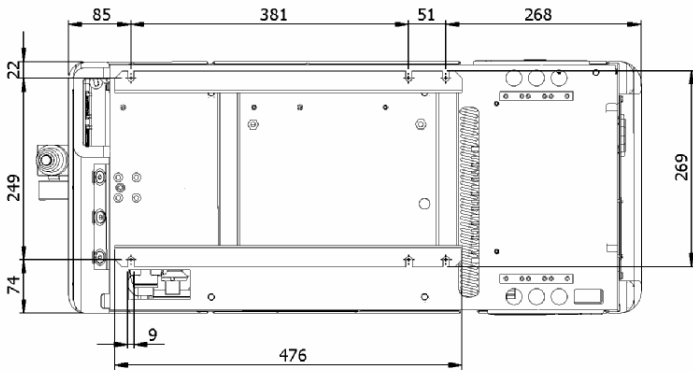
Nº	Descripción	Description	Ref.	Qty
1	Chapa carcasa delantera	Front cover plate	914XX115	1
2	Tornillo amarre carcadas	Cover moor screw	919XX108	1
3	Remache pop 2.4x8	2.4 pop rivet	915XX154	4
4	Arandela plana 4.3x12.4 inox.	Stainless 4,3x12,4 flat washer	915XX201	1
5	Arandela dentada M3	M3 washer	910XX397	1
6	Arandela retención VISTOP M4	M4 VISTOP retention washer		1
7	Tuerca hexagonal M3 Inox.	Stainless M3 hex nut		2
8	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
9	Carcasa delantera	Front plate		1

**DESPIECE / PART LISTING
EQUIPO C30 /
C30 EQUIPMENT**

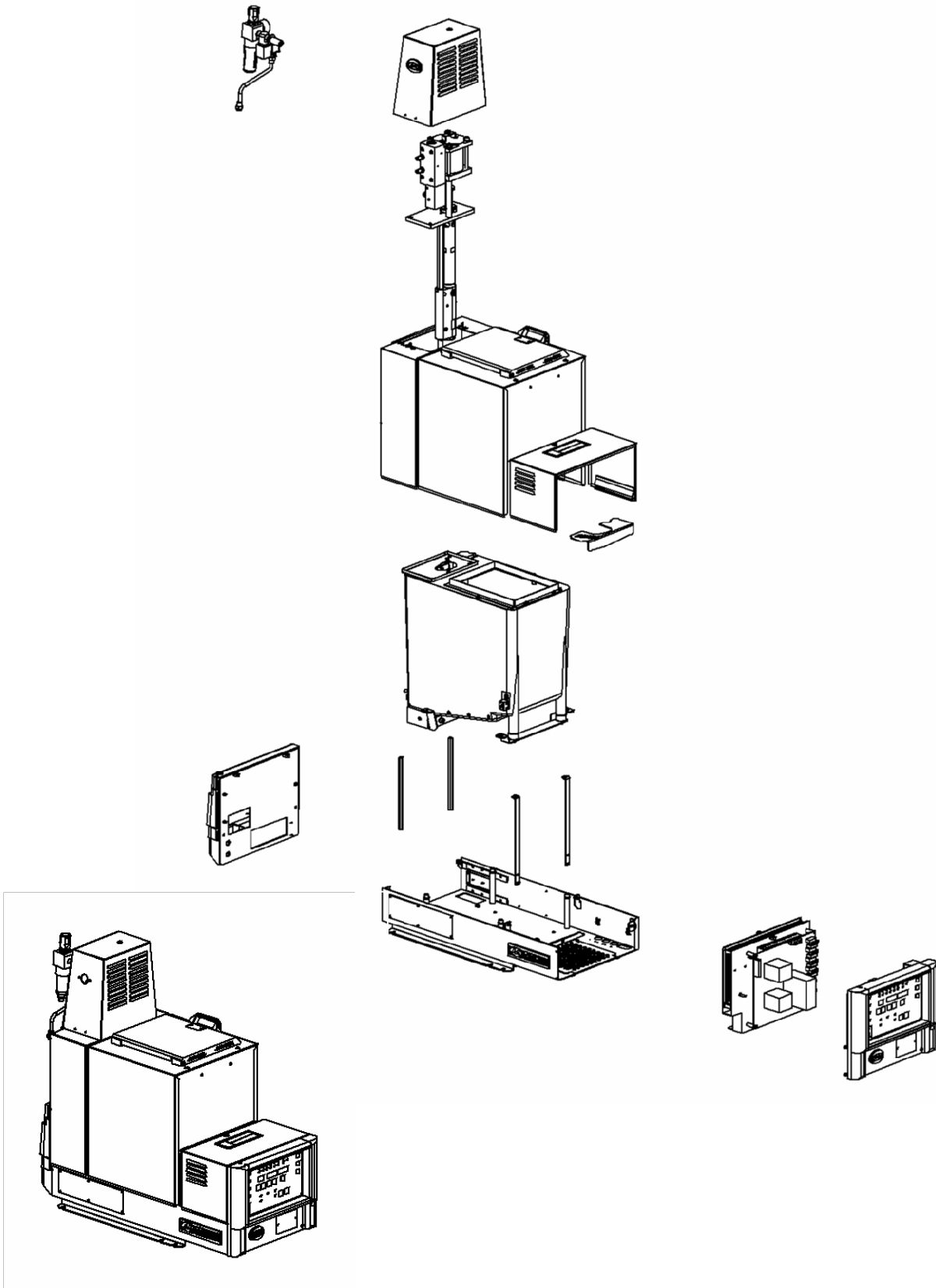
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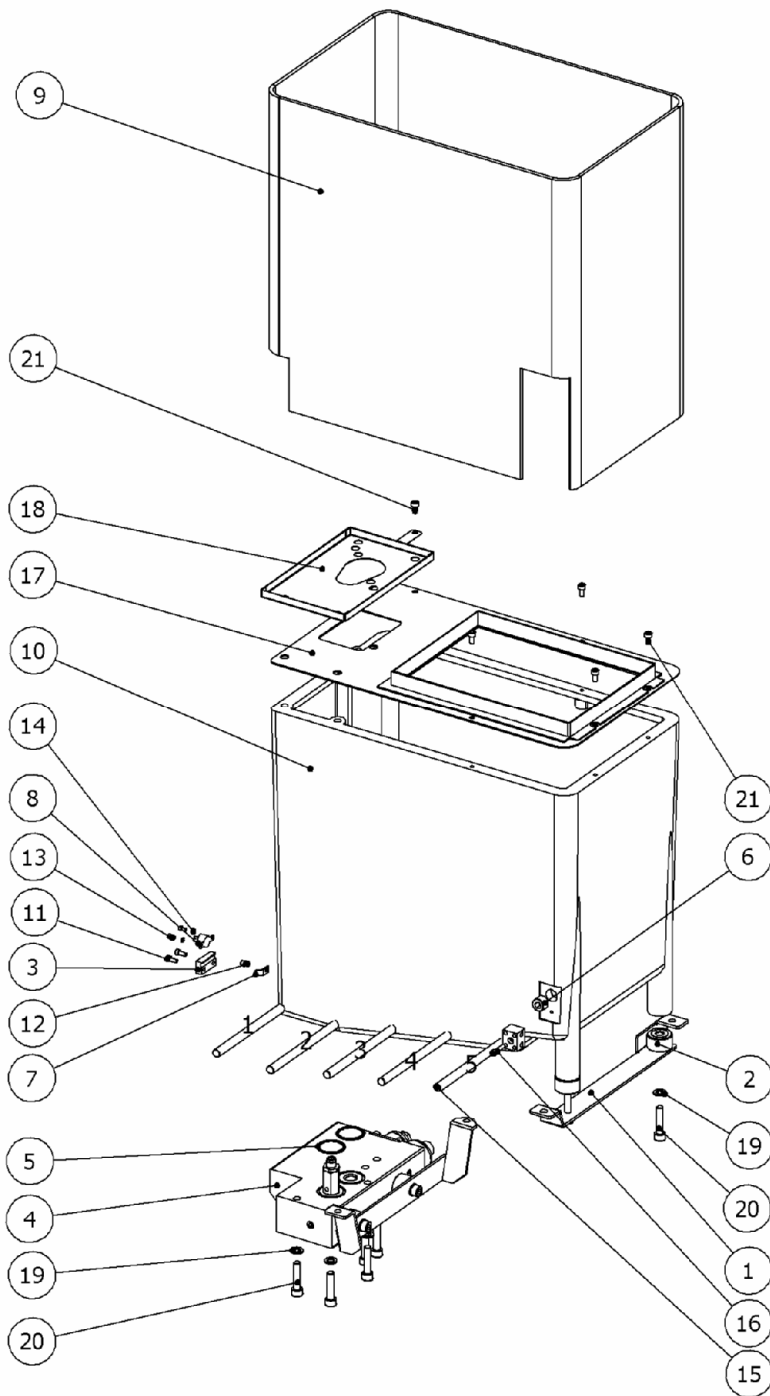
CROQUIS ENCOLADOR C30 / C30-PUMP EQUIPMENT ASSEMBLY:



1. CONJUNTO ENCOLADOR C30 / C30 EQUIPMENT ASSEMBLY:

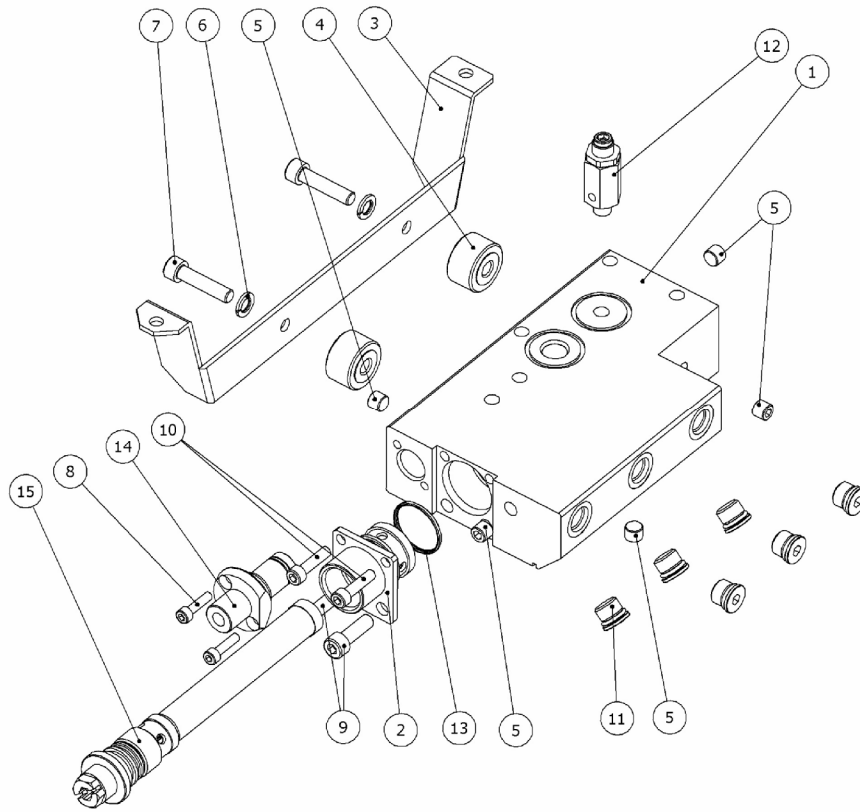


2. CONJUNTO DEPÓSITO / TANK ASSEMBLY:



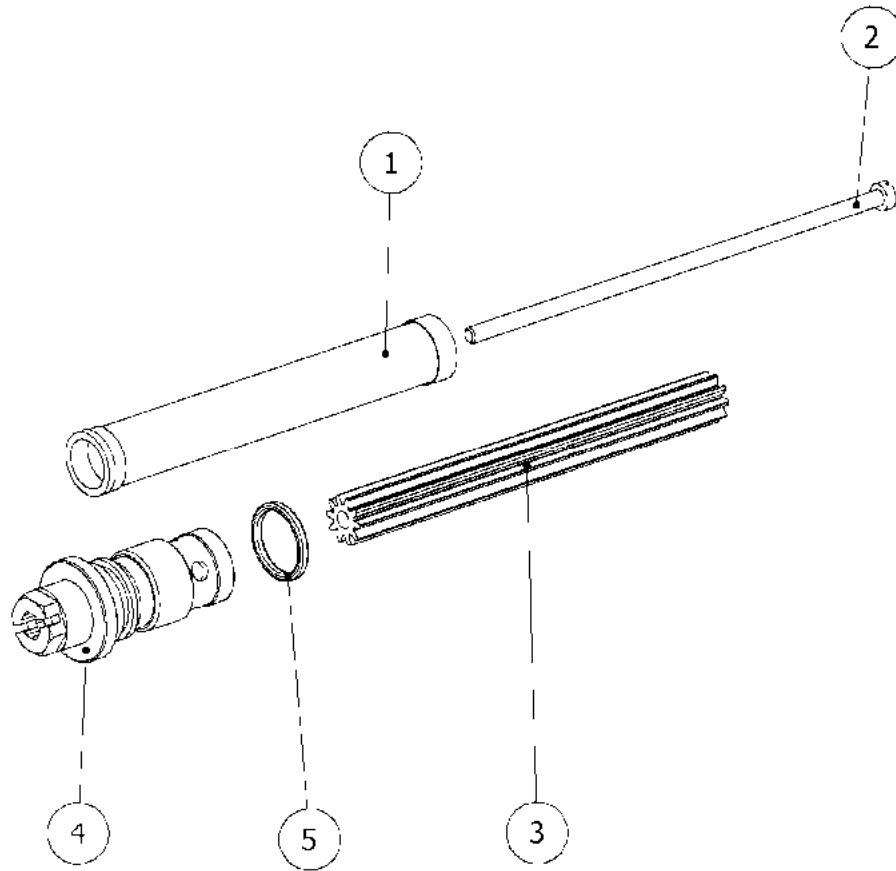
No.	Descripción	Description	Ref.	Qty.
1	Pata delantera depósito	Tank support	916XX333	1
2	Aislante pata depósito	Insulation		1
3	Brida sonda	Supporting flange		1
6	Tapón 3/8"Gas	Plug 3/8" Gas		1
6	Sonda de nivel	Level sensor		1
7	Terminal faston M-panel	Earth terminal		1
9	Manta aislante	Tank insulation		1
10	Depósito 30kg	30kg tank		1
11	Tornillo allen M4x10 inox.	Allen screw M4x10 inox.		2
12	Tornillo allen M4x6 inow	Stainless Allen screw M4x6		1
16	Tornillo allen M4x20 inox.	Allen screw M4x20 inox.		2
17	Chapa boca depósito	Tank mouth frame		1
18	Bandeja bomba	Pump tray		1
21	Tornillo allen M5x10 inox	Stainless Allen screw M5x10		5
4	Distribuidor	Manifold		916XX330
5	Junta tórica viton 30x2	30x2 Viton o-ring	2	
19	Arandela grover 8	Washer grower 8	2	
20	Tornillo allen M8x35 inox	Stainless Allen screw M8x35	7	
8	Termostato 240°C N/A	Thermostat 240°C N/A	910XX189	1
13	Tornillo cilíndrico M3x6 inox	Stainless slotted screw M3x6		2
14	Arandela dentada M3	Washer M3		2
15	Mazo resistencia deposito	Tank heater bar cordset	916XX334	5

3. CONJUNTO DISTRIBUIDOR / MANIFOLD ASSEMBLY: (917XX077)



No.	Descripción	Description	Ref.	Qty.
1	Distribuidor serie c con helicoils	Serie C manifold with helicoils	916XX843	1
2	Brida rosca filtro	Filter screw flange	914XX286	1
3	Pata distribuidor	Support Manifold	914XX087	1
4	Aislante pata depósito	Insulation	910XX072	2
5	Tapón 1/8" Gas	Plug 1/8"	910XX001	5
6	Arandela grover 8 inox	Washer grower 8 stainless		2
7	Tornillo allen M8x35 inox	Allen screw M8x35 stainless		2
8	Tornillo allen M5x20 inox	Allen screw. M5x20 stainless		2
9	Tornillo allen M8x25 inox	Allen screw M8x25 stainless		2
10	Tapón 9/16" con junta	Plug 9/16" with o'ring		6
12	Válvula de seguridad 400	Waste gate 4000	917XX031	1
13	Junta torica viton 30x2	Viton o'ring 30x2	917XX087	1
14	Purgador	Draining valve	914XX090	1
15	Filtro	Filter	Ver 3.1	1

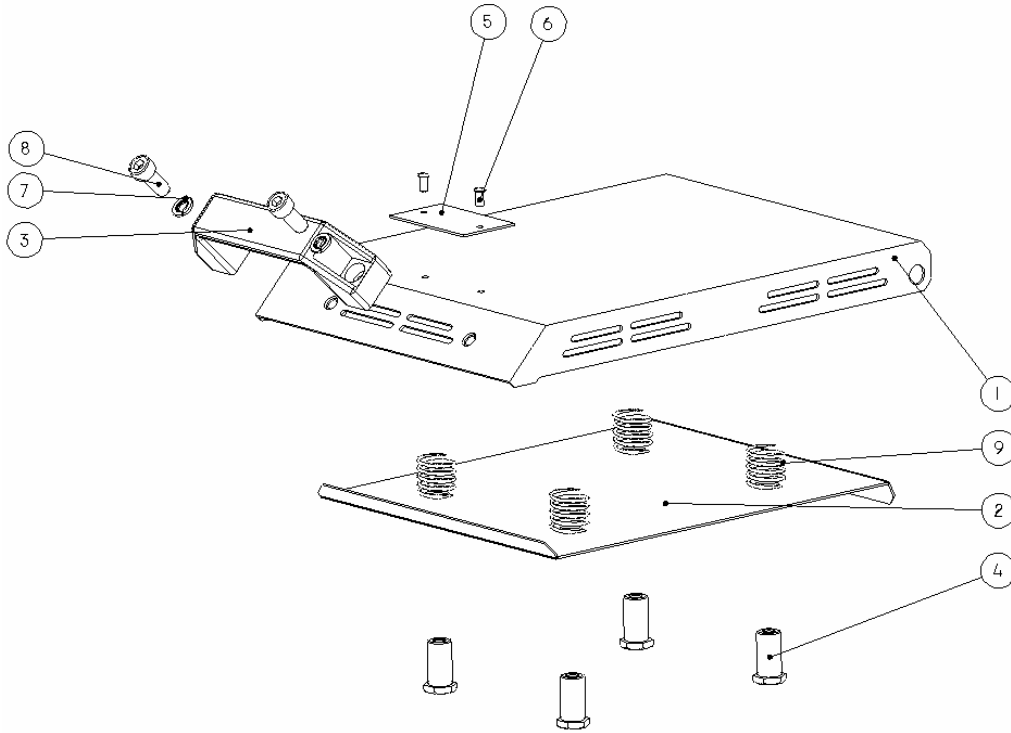
3.1 CONJUNTO FILTRO / FILTER ASSEMBLY:



Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla fino	Thin filter screen	917XX079	916XX256	916XX243	1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring				1
	Junta tórica viton 24x2	24x2 viton o´ring				1
	Junta tórica viton 20x2	20x2 viton o´ring				
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

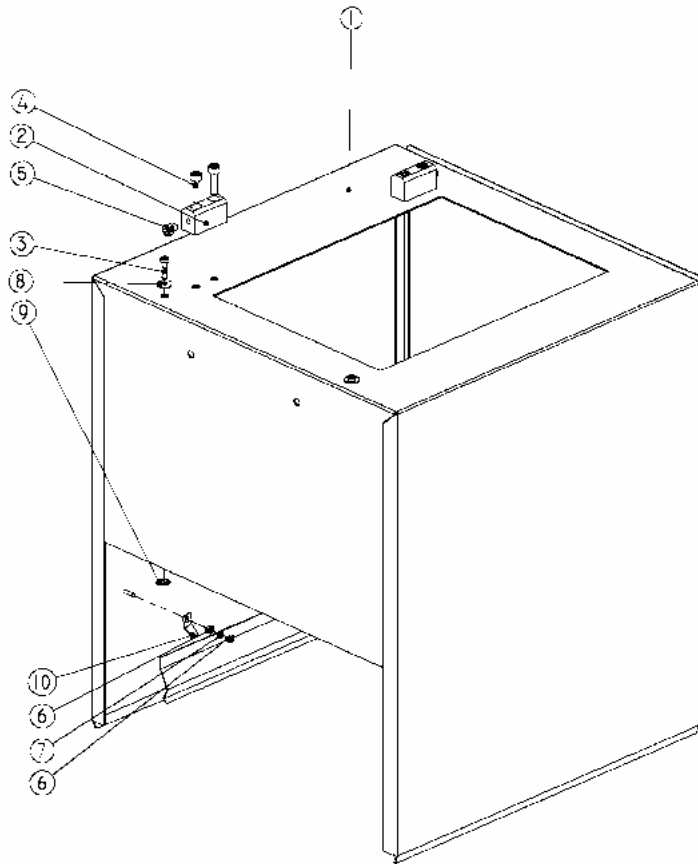
Nº	Descripción	Description	Ref.			Qty
1	Cartucho filtro malla gruesa	Thick filter screen	917XX080	918XX028	916XX242	1
5	Junta tórica viton 20x2.5	20x2,5 viton o´ring				1
	Junta tórica viton 24x2	24x2 viton o´ring				
	Junta tórica viton 20x2	20x2 viton o´ring				
2	Tornillo cartucho filtro	Filter screw				1
3	Distancial interior filtro	Filter mount				1
4	Tornillo filtro N	Filter plug				1

4. CONJUNTO TAPA / LID ASSEMBLY:



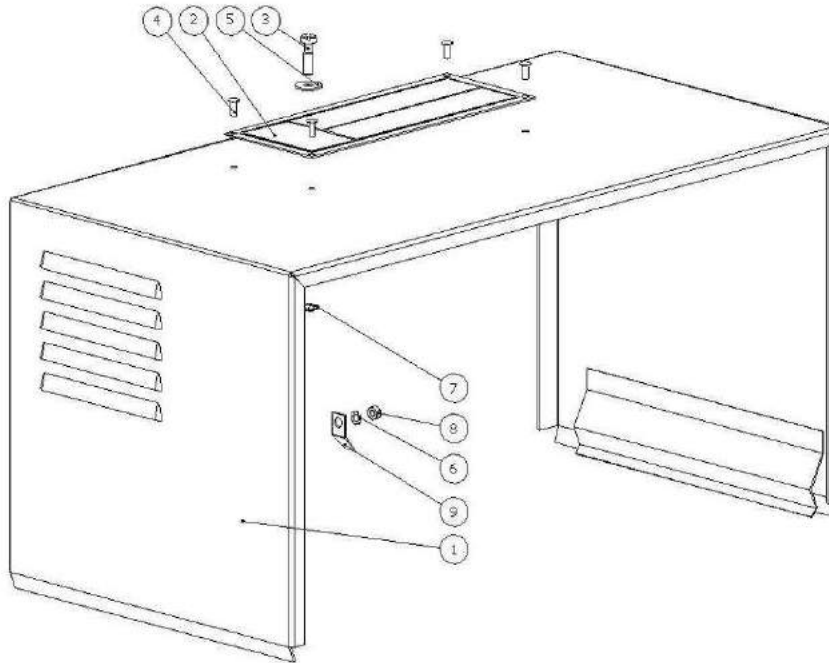
No.	Descripción	Description	Ref.	Qty.
1	Tapa deposito	Tank lid	918XX128	1
2	Contratapa deposito	Tank back lid		1
3	Asa	Handel		1
4	Tuerca contratapa	Nut		4
5	Chapa símbolo quemaduras	Burn symbol plate		1
6	Remache pop 2.4x8	Rivet 2.4x8		2
7	Arandela grover M6	Washer grower M6		2
8	Tornillo allen M6x15	Allen screw M6x15		2
9	Muelle	Spring		4

5. CONJUNTO CARCASA CENTRAL / TANK COVER ASSEMBLY



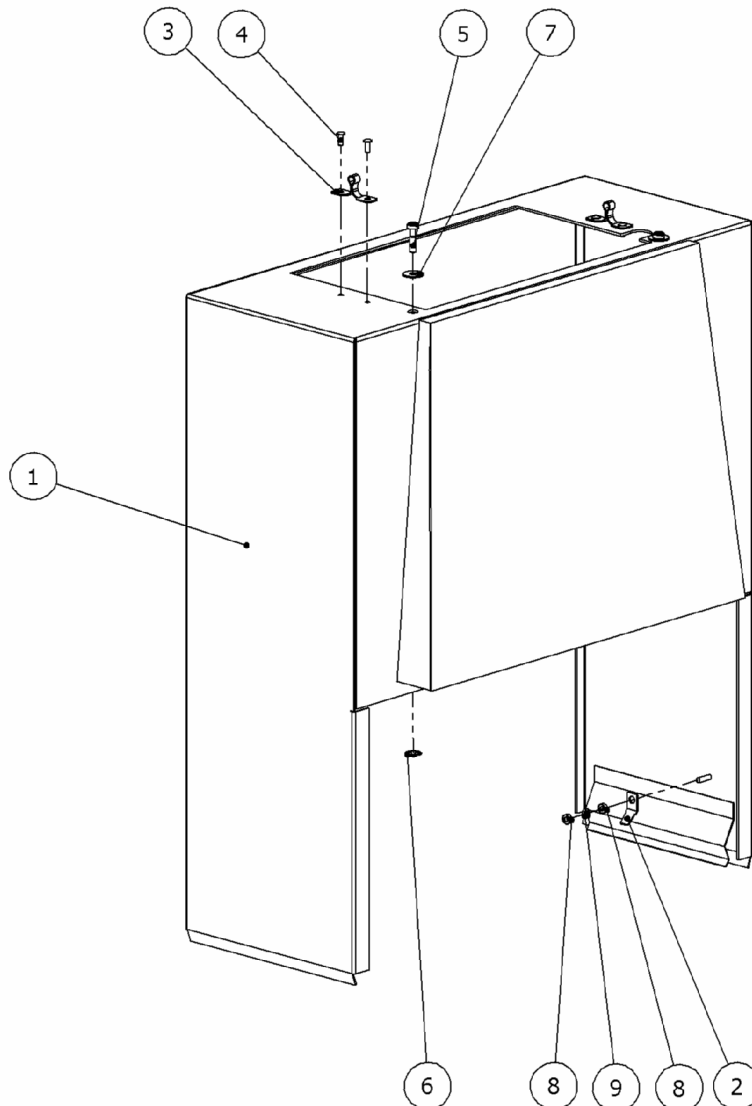
No.	Descripción	Description	Ref.	Qty.
1	Carcasa central	Tank cover	916XX335	1
2	Bisagra tapa depósito	Lid hinge		2
3	Tornillo amarre carcasas	Cover holding screw		2
4	Tornillo allen M5x20	Allen screw M5x20		4
5	Tornillo allen M5x6 inox	Allen screw M5x6 inox.		2
6	Tuerca hexagonal M3 inox.	Nut M3 inox.		1
7	Arandela dentada M3	Washer M3		1
8	Arandela plana M4 inox.	Washer plane M4 inox.		1
9	Arandela retención para M8	Vistop washer M8		1
10	Terminal faston M-panel	Earth terminal		1

6. CONJUNTO CARCASA DELANTERA / FRONT COVER ASSEMBLY:



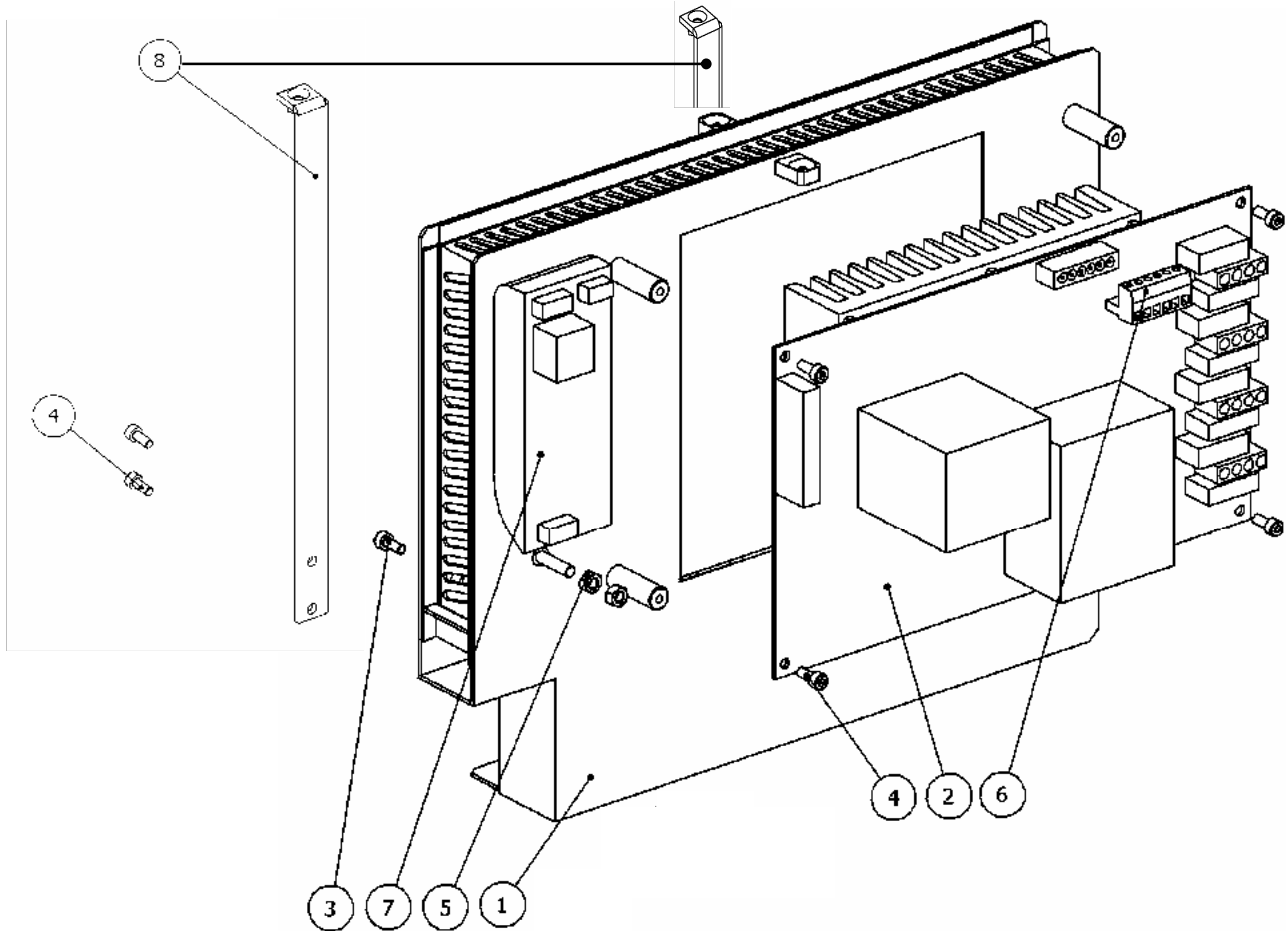
No.	Descripción	Description	Ref.	Qty.
1	Carcasa delantera	Front cover	917XX131	1
2	Chapa carcasa delantera	Front cover plate		1
3	Tornillo amarre carcasas	Cover holding screw		1
4	Remache pop 2.4x8	Rivet 2.4x8		4
5	Arandela plana M4 inox.	Washer plane M4 inox.		1
6	Arandela dentada M3	Washer M3		1
7	Arandela retención para M8	Vistop washer M8		1
8	Tuerca hexagonal M3 inox.	Nut M3 inox.		1
9	Terminal faston M-panel	Earth terminal		1

7. CONJUNTO CARCASA TRASERA / REAR COVER ASSEMBLY



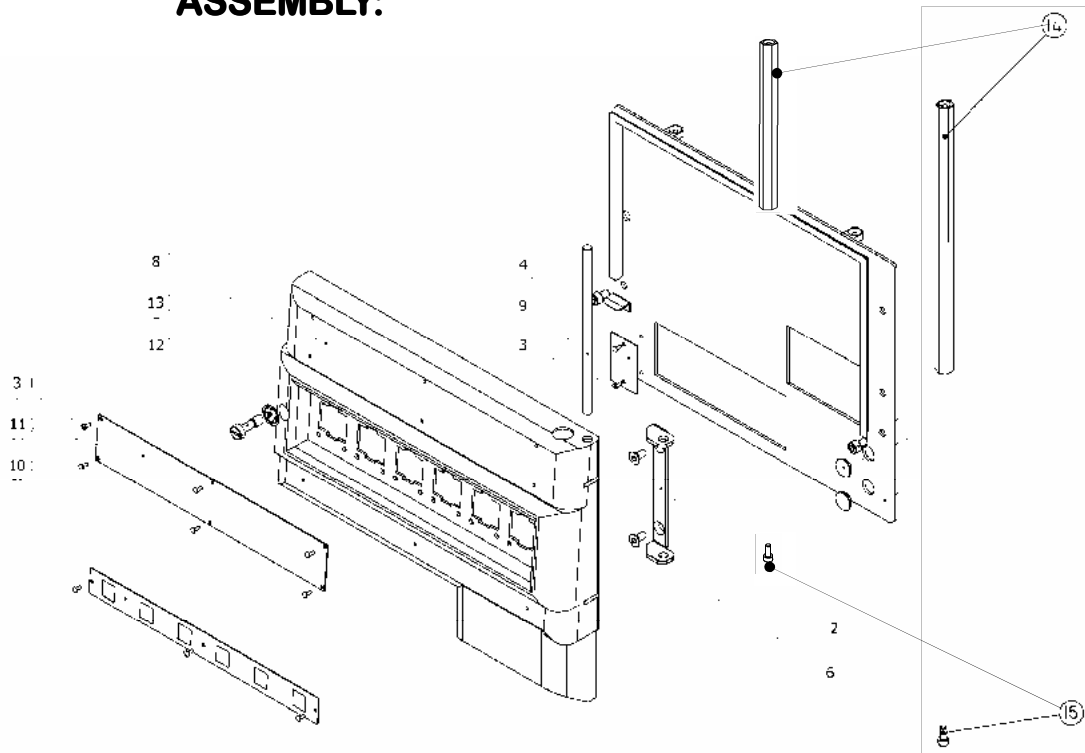
No.	Descripción	Description	Ref.	Qty.
1	Carcasa trasera	Rear cover	916XX336	1
2	Terminal faston M-panel	Earth terminal		1
3	Cierre vaivén parte inferior	Lower closed		1
4	Remache pop 2.4x8	Rivet 2.4x8		4
5	Tornillo amarre carcasis	Cover holding screw		1
6	Arandela retención VISTOP para M4	VISTOP washer M4		2
7	Arandela plana 4.3X12.4 inox	Stainless 4.3X12.4 washer		2
8	Tuerca hexagonal M3	Nut M3		2
9	Arandela dentada M3	Washer M3		1

8. CONJUNTO TABIQUE TERMICO / FRONT FRAME ASSEMBLY:



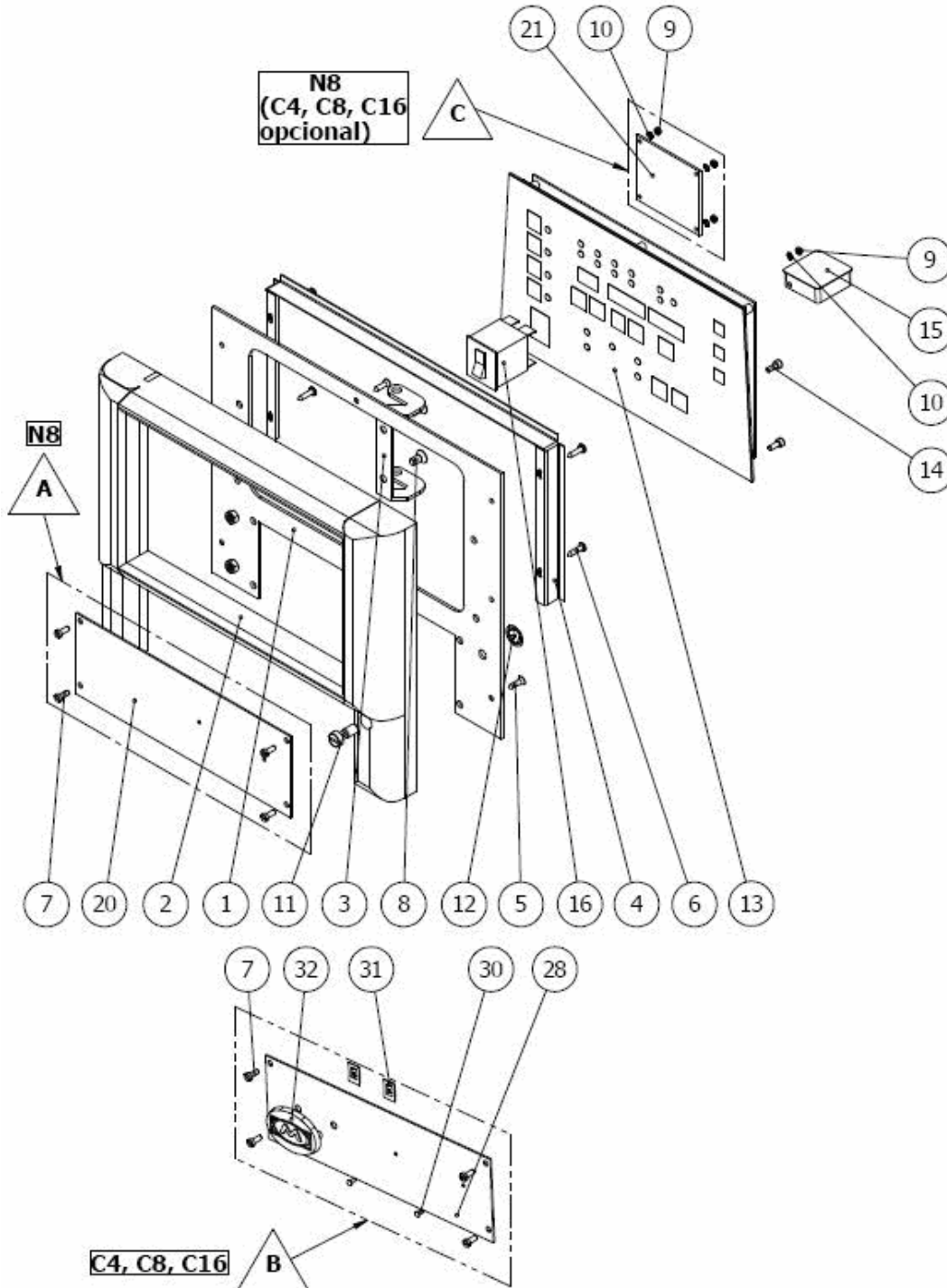
No.	Descripción	Description	Ref.	Qty.
1	Tabique térmico	Front frame		1
3	Tornillo allen M6x10	Allen screw M6x10	919XX107	2
5	Tuerca hexagonal M5	Nut M5		2
2	Tarjeta de potencia 6 salidas	Power board 6 exits		1
4	Tornillo allen M4x10 inox	Stainless Allen screw M4x10	919XX354	4
6	Conector 6 polos	6 poles connector		1
7	Tarjeta nivel	Level board	914XX244	1
4	Tornillo allen M4x10 inox	Stainless Allen screw M4x10		4
8	Distancial carcasa central C30	Tank cover spacer		2

9. CONJUNTO PORTON TRASERO / REAR DOOR ASSEMBLY:



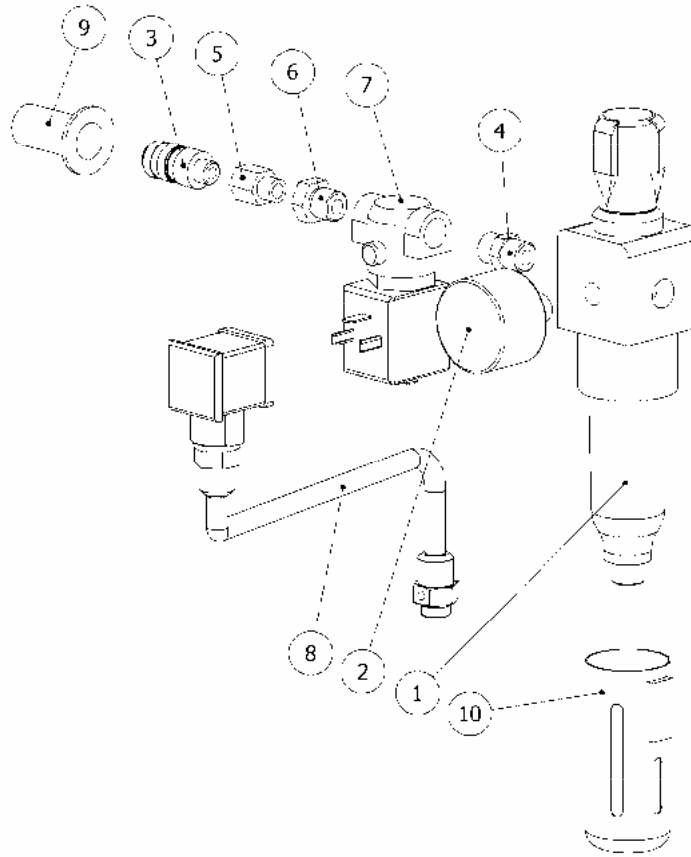
No.	Descripción	Description	Ref.	Qty.
1	Chapa trasera	Rear frame	910XX708	1
2	Horquilla portón trasero	Rear door bracket		1
3	Remache pop 2.4x8	Rivet 2.4x8		11
4	Chapa advertencia calor	Heat warning plate		1
5	Tapón goma	Rubber plug		2
6	Tornillo avellanado M6x12	Allen screw avell. M6x12		2
7	Tornillo allen M6x10	Allen screw M6x10		2
8	Portón trasero	Rear door	910XX730	1
9	Eje horquilla portón trasero	Rear door shaft		1
10	Chapa inferior portón trasero	Rear door lower plate		1
11	Chapa superior portón trasero	Rear door top plate	910XX449	1
12	Tornillo amarre portón trasero	Rear door holding screw		1
13	Arandela retención para M8	Vistop washer M8		1
14	Distacial carcasa central	Tank cover spacer		2
15	Tornillo Allen M4x10 inox	Stainless Allen screw M4x10		2

10. CONJUNTO PORTON DELANTERO / FRONT DOOR ASSEMBLY:



No.	Descripción	Description	Ref.	Ref.	Qty.
1	Chapa portón delantero	Front door frame		919XX095	1
2	Portón delantero	Front door			1
28	Chapa delantera	Front door lid			1
32	Anagrama circular	Melton sign			1
29	Chapa símbolo CE	CE sign plate			1
3	Horquilla portón delantero	Front door bracket			1
4	Vierteaguas portón delantero	Waterway			1
30	Remache pop 2.4x8	Rivet 2.4x8			2
5	Tornillo ave. rosca chapa 3.9x16	Tapping screw 3,9x16			4
6	Tornillo rosca chapa 3.9x16	Tapping screw 3,9x16 zylinder			4
7	Tornillo cili. con ranura M4x10	Zylinder screw M4x10			4
8	Tornillo avellanado M6x12	Allen screw avell. M6x12			2
31	Clip	Clip			2
9	Tuerca hexagonal M3 inox.	Nut M3 inox.			1
10	Arandela dentada M3	M3 indent washer		1	
11	Tornillo amarre portón delantero	Front door holding screw	910XX448	1	
12	Arandela retención para M8	Vistop washer M8		1	
13	Tarjeta control 6 Salidas	Control board 6 exits	918XX301	1	
14	Tornillo allen M4x10	Allen screw M4x10		4	
15	Caja fusibles 6s	6 exit fuse box		988XX397	1
	Caja fusibles 4s	4 exit fuse box		916XX265	1
16	Mazo interruptor general	Switch cordset	917XX101		1
9	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut			4
10	Arandela dentada M3	M3 indent washer			4
21	Tarjeta I/O	I/O card			1

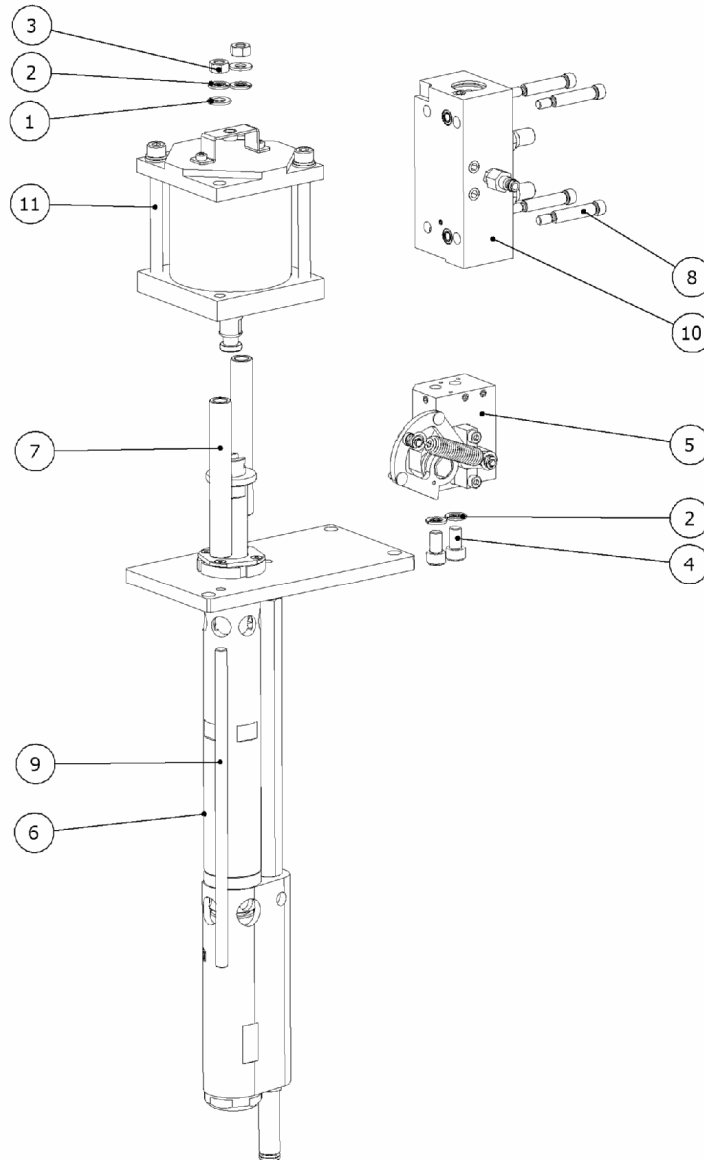
11. CONJUNTO REGULADOR ELECTROVALVULA / ELECTROVALVE CONTROL ASSEMBLY:



No.	Descripción	Description	Ref.	Qty.
1	Unidad filtro-regulador 1/4"G	Manometer controller	914XX071	1
2	Manómetro	Manometer	914XX070	1
3	Enchufe rápido conexión	Fast connection	988XX016	1
4	Racor macho-macho 1/4"	Fitting 1/4" male-male	914XX069	1
5	Adaptador macho - hembra 1/8"	Fitting M-F 1/8"	914XX262	1
6	Reducción m 1/4"- h 1/8"	Air fitting 1/4" male - 1/8" female	914XX080	1
7	Electrovalvula	Valve	910XX470	1
	Bobina de la electrovalvula	Valve solenoid		910XX469
8	Mazo electrovalvula	Electrovalve cable connectio	916XX339	1
9	Casquillo apertura	Opening bushing	914XX261	1
10	Protector de cuba	Protection	912XX283	1

12. A) CONJUNTO BOMBA / PUMP ASSEMBLY:

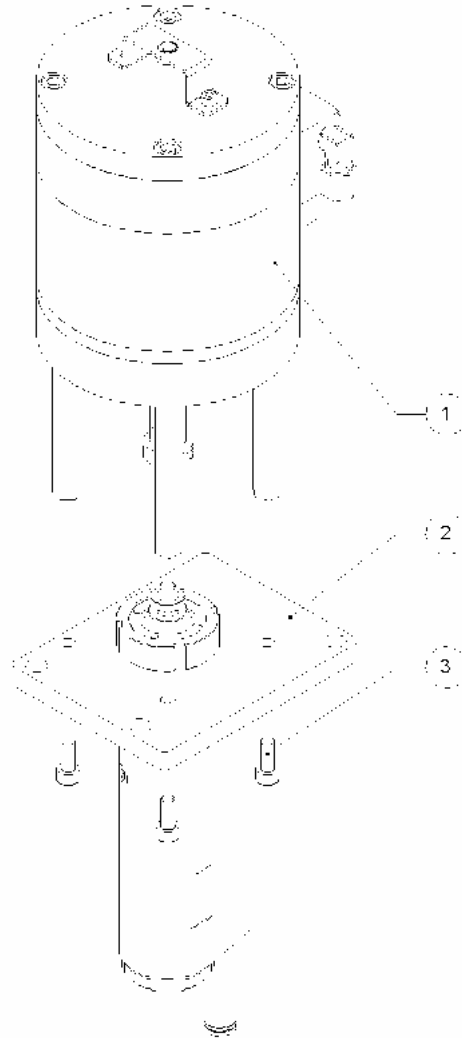
Nota: Valido para equipos hasta numero de serie 10347 / Note: Valid for equipments with serial number up to 10347)



No.	Descripción	Description	Ref.	Qty.
1	Arandela plana M8 inox	Stainless washer plane M8	916XX287	2
2	Arandela grover 8	Washer grower M8		4
3	Tuerca hexagonal M8	Nut M8		2
7	Distancial cilindro	Cylinder Spacer		2
9	Tirante cilindro	Cylinder bolt		2
4	Tornillo Allen M8x15 inox	Stainless Allen screw M8x15		2
5	Subconjunto cambio	Shifter pump assembly		1
6	Subconjunto grupo hidráulico	Hidraulic assembly		1
8	Tornillo cuerpo válvula	Valve body screw		4
10	Subconjunto válvula	Shifting valve assembly		1
11	Subconjunto cilindro	Cylinder assembly		1

12. B) CONJUNTO BOMBA / PUMP ASSEMBLY: (916XX413)

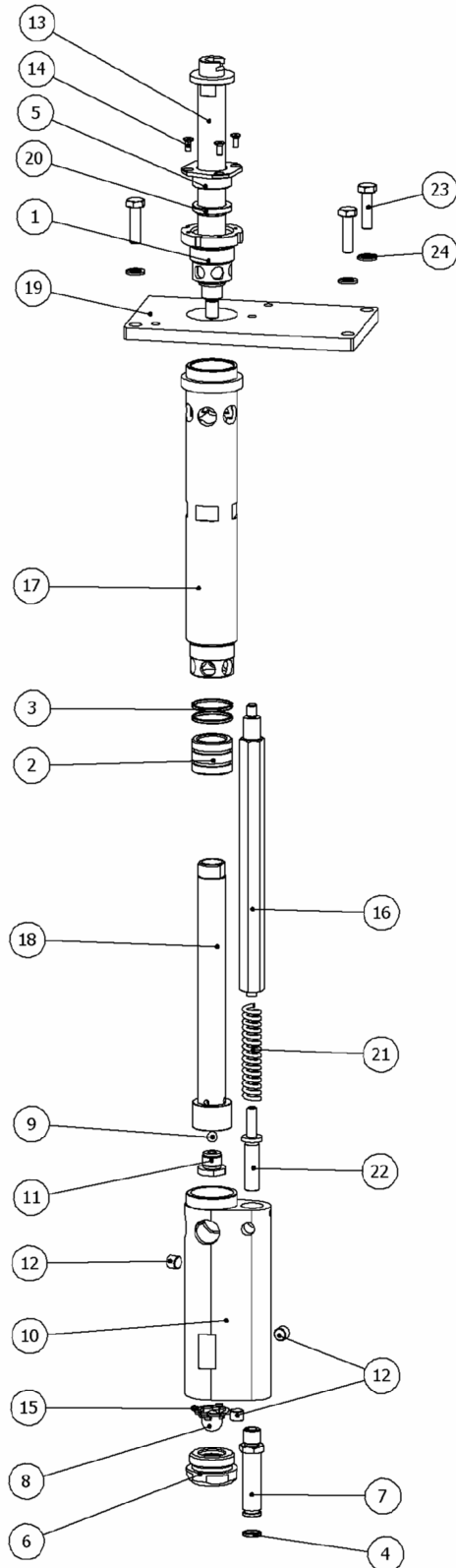
Nota: Valido para equipos con numero de serie desde 10438
 / Note: Valid for equipments with serial number from 10438



Nº	Descripción	Description	Ref.	Qty
1	Conjunto cilindro neumatico	Pneumatic cylinder assembly	PAG.24/26	1
2	Conjunto grupo hidraulico	Hidraulic group assembly	PAG.20/23	1
3	Tornillo allen m6x15	M6x15 allen screw	915XX090	4

12.1 A) CONJUNTO HIDRAULICO / HYDRAULIC ASSEMBLY:

Nota: Valido para equipos hasta numero de serie 10347
 / Note: Valid for equipments with serial number up to 10347)



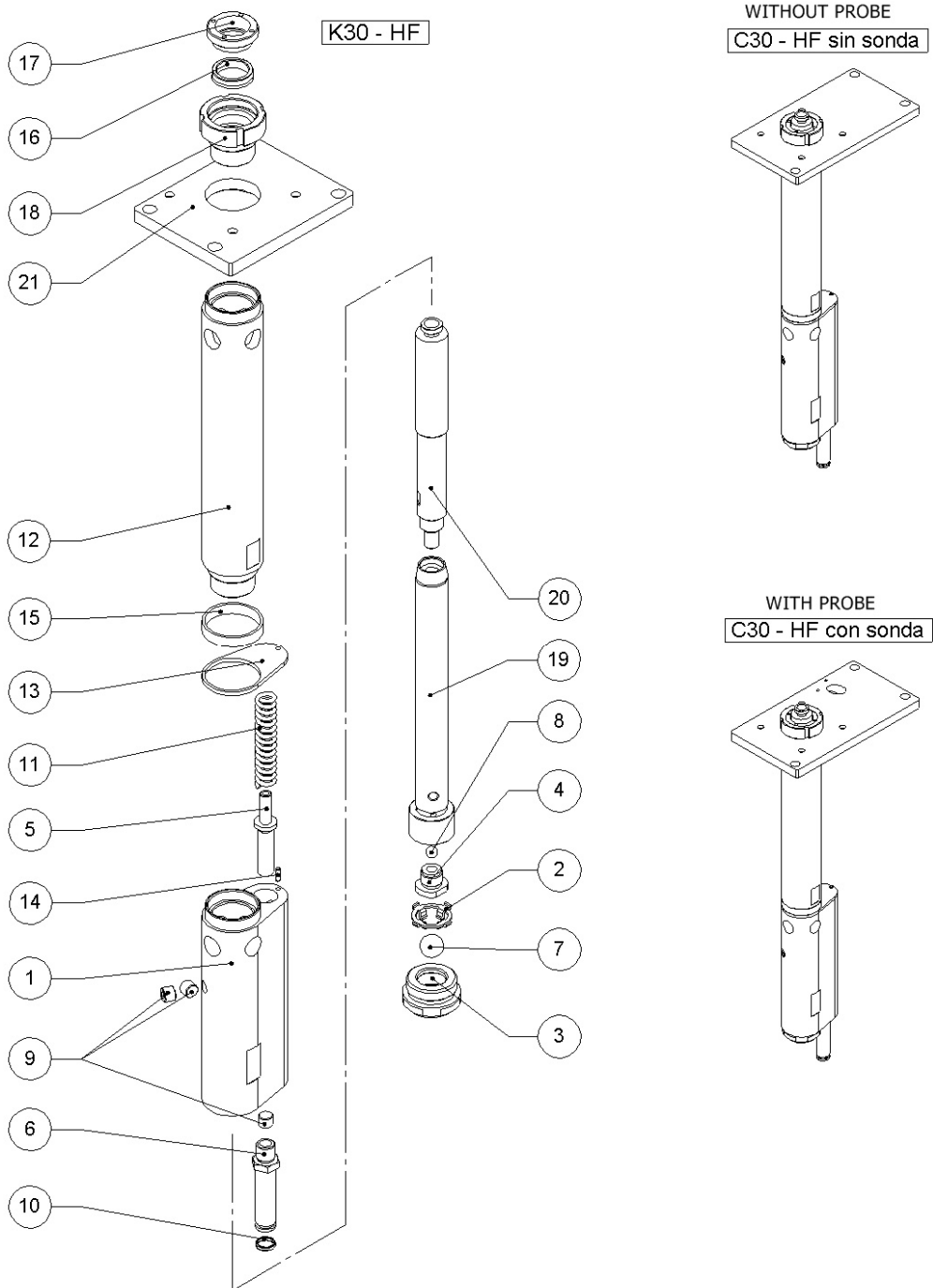
No.	Descripción	Description	Ref.	Ref.	Qty.	
1	Tornillo portajuntas	Seal screw	916XX282	916XX341	1	
2	Cuerpo juntas	Seal body			1	
3	Junta torica viton 27x2	Viton o'ring 27x2			2	
5	Tapa junta	Seal lid			1	
14	Tornillo avellanado allen M4x10 inox	Stainless Allen screw avell. M4x10			4	
20	Junta collarin para eje 22	Shaft 22 seal			1	
4	Junta torica viton 10x2	Viton o'ring 10x2	910XX049		914XX024	1
7	Tubo impulsión	Crossover tube				1
6	Válvula aspiración	Ball valve	916XX281			1
8	Bola 16	Ball 16				1
15	Soporte bola aspiracion	Ball valve bracket				1
9	Bola 8	Ball 8	916XX280			1
10	Cuerpo bomba	Pump body				1
11	Válvula compensación	Compensating valve				1
12	Tapon 1/8"Gas	Plug 1/8"				3
13	Soporte escuadra	Pump shaft connection				1
18	Eje bomba	Pumpshaft				1
21	Muelle 8x16x76	Spring 8x16x76	910XX407		1	
22	Eje guía válvula compensación	Compensating valve guide			1	
19	Placa base bomba	Pumpmounting	914XX026		1	
23	Tornillo hexagonal M8x30	Hexagonal screw M8x30			3	
24	Arandela grover 8 inox	Stainless washer grower M8			3	
16	Distancial muelle compensación	Compensating spring spacer	916XX340		1	
17	Distancial bomba	Pump spacer			1	

12.1 B) CONJUNTO HIDRAULICO / HYDRAULIC ASSEMBLY:

CON SONDA / WITH PROBE: 916XX415

SIN SONDA / WITHOUT PROBE: 916XX413

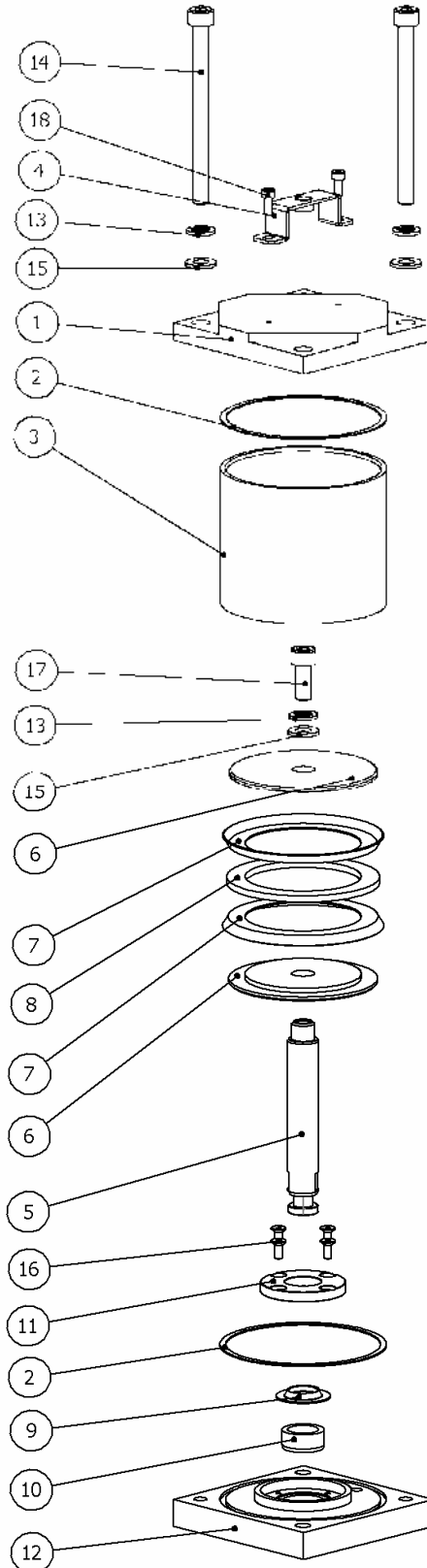
Nota: Valido para equipos con numero de serie desde 10438
 / Note: Valid for equipments with serial number from 10438



No.	Descripción	Description	Ref.	Qty.	
18	Tornillo portajuntas	Seal screw	916XX420	1	
17	Tuerca portajuntas	Seal nut		1	
16	Junta collarin para eje 22	Shaft 22 seal		1	
10	Junta torica viton 10x2	Viton o'ring 10x2	910XX049	914XX024	1
6	Tubo impulsión	Crossover tube			1
3	Válvula aspiración	Ball valve	916XX281	1	
7	Bola 16	Ball 16		1	
2	Soporte bola aspiracion	Ball valve bracket		1	
8	Bola 8	Ball 8			1
1	Cuerpo bomba	Pump body			1
9	Tapon 1/8"Gas	Plug 1/8"	912XX793		3
	Soporte escuadra	Pump shaft connection			1
19	Eje bomba	Pumpshaft	911XX147		1
11	Muelle 8x16x76	Spring 8x16x76	910XX407		1
13	Tapa muelle bomba	Pump spring lid	910XX584		1
14	Pasador cilindrico 3x10	3x10 cylindric rod	910XX581		1
15	Anillo distancial	Spacer ring	910XX585		1
5	Eje guía válvula compensación	Compensating valve guide	914XX022		1
21	Placa base bomba c30 sin sonda	Pump mounting C30 without probe	910XX577		1
21	Placa base bomba C30 con sonda	Puma mounting C30 with probe	910XX578		1
20	Distancial eje	Shaft spacer	910XX587		1
12	Distancial bomba	Pump spacer	910XX586		1
4	Valvula compresion	Compression valve	919XX401		1

12.2 A) CONJUNTO CILINDRO / CYLINDER ASSEMBLY (916XX165):

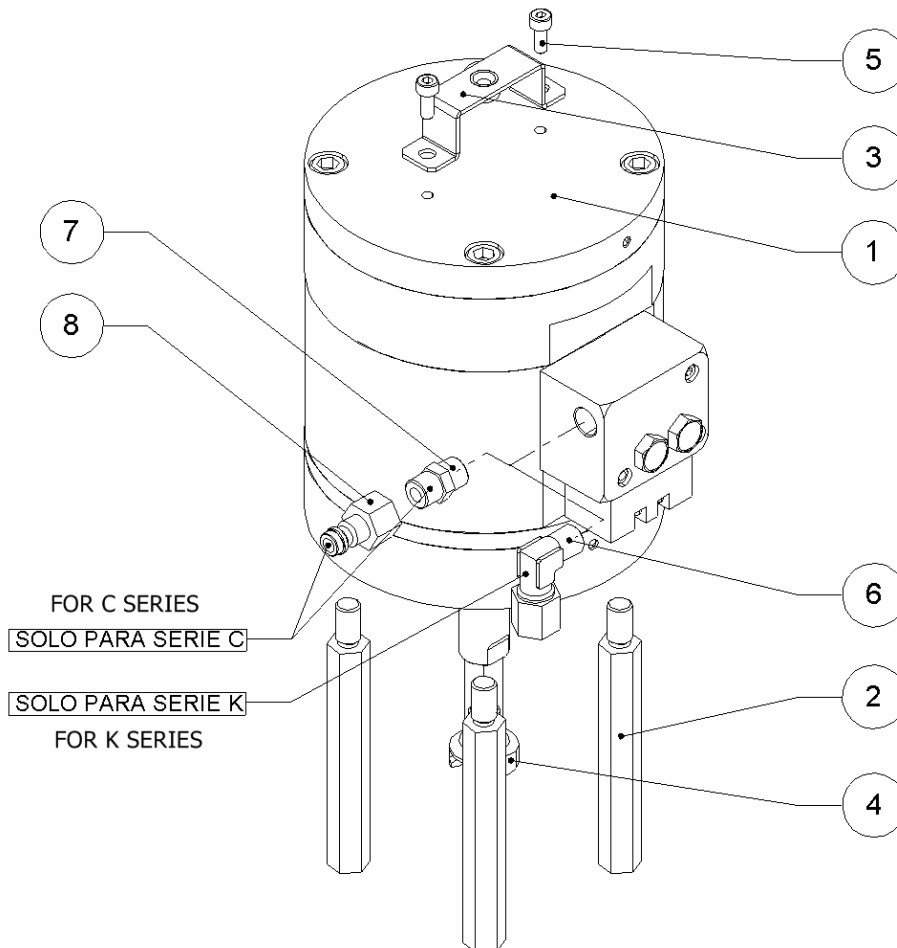
Nota: Valido para equipos hasta numero de serie 10347 /
Note: Valid for equipments with serial number up to 10347)



No.	Descripción	Description	Ref.	Qty.
5	Eje cilindro	Cylinder shaft		1
6	Plato émbolo cilindro	Piston disk		2
7	Junta émbolo cilindro	Piston cup washer		2
8	Anillo émbolo cilindro	Piston cup		1
13	Arandela grover M8 inox	Stainless grover washer M8		1
15	Arandela plana M8 inox	Stainless washer plane M8		1
17	Tomillo Allen M8x20 inox	Stainless Allen screw M8x20		1
2	Junta culata cilindro	Cylinder head seal	916XX168	2
7	Junta émbolo cilindro	Piston cup washer		2
9	Junta embutida eje cilindro	Shaft seal		1
9	Junta embutida eje cilindro	Shaft seal		1
10	Casquillo guía eje cilindro	Shaft guiding bushing		1
11	Brida junta eje cilindro	Shaft seal flange		1
12	Culata inferior cilindro	Pump cylinder base		1
16	Tomillo avellanado allen M4x10 inox	StainlessAllen screw avell. M4x10		4
3	Camisa cilindro	Cylinder		1
1	Culata superior cilindro	Cylinder head		1
4	Horquilla amarre	Cover bracket		1
18	Tomillo allen M4x10 inox	Stainless Allen screw M4x10		2
14	Tomillo allen M8x100 inox	Stainless Allen screw M8x100		2
13	Arandela grover 8	Washer grower M8		3

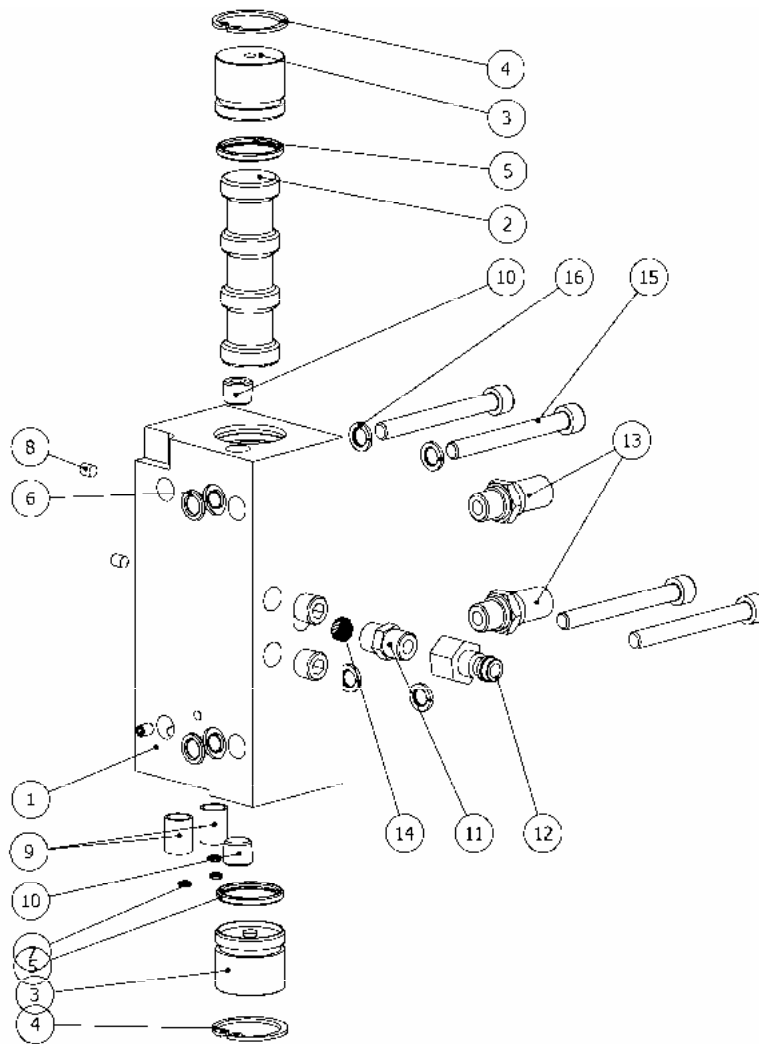
12.2 B) CONJUNTO CILINDRO / CYLINDER ASSEMBLY: (916XX409)

Nota: Valido para equipos con numero de serie desde 10438 /
Note: Valid for equipments with serial number from 10438



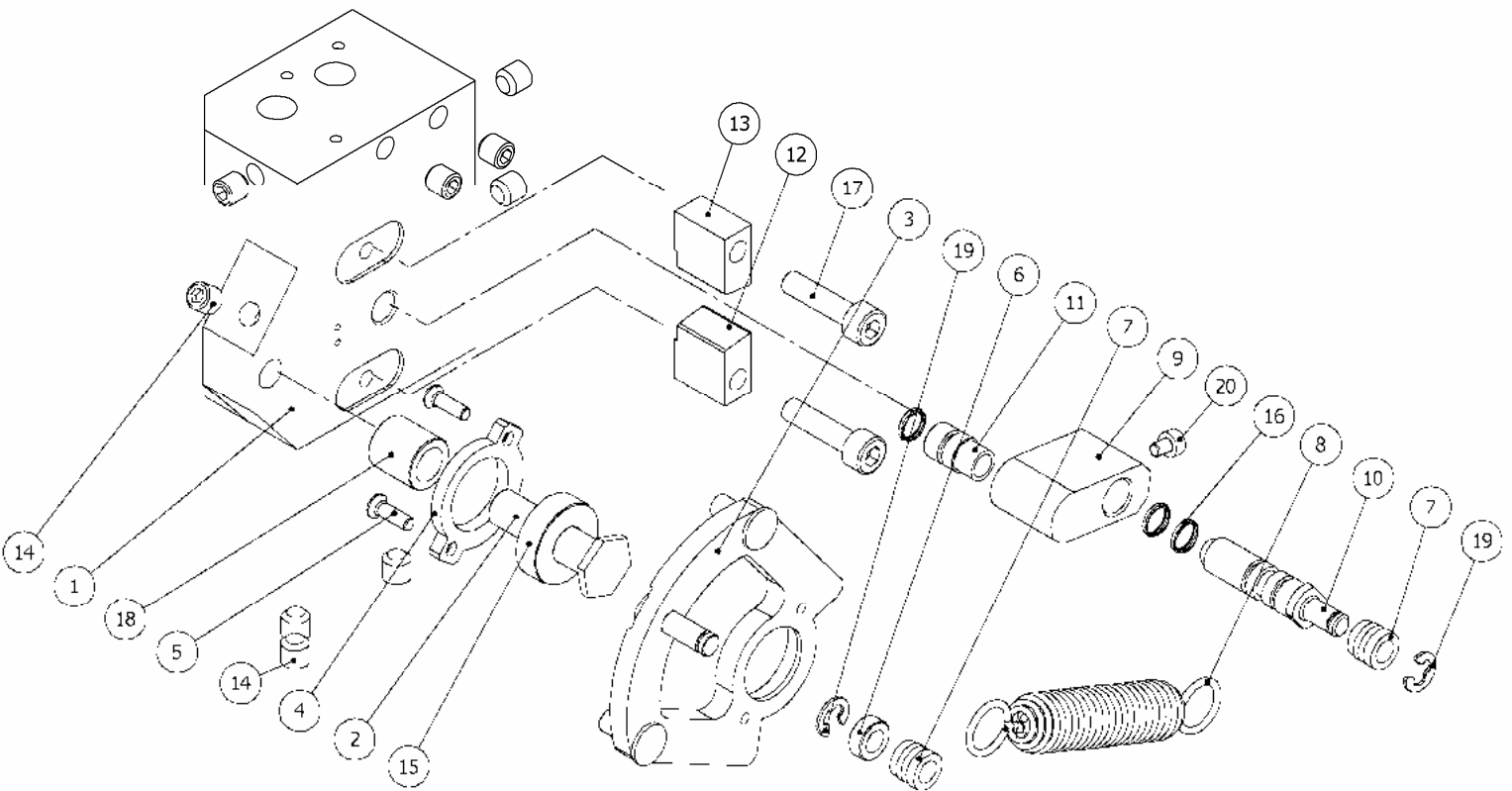
Nº	Descripción	Description	Ref.	Qty
1	Cilindro neumatico Ø 80 valco	Ø 80 valco pneumatic cylinder		1
2	Distancial cilindro G valco	G valco spacer cylinder	910XX144	4
3	Horquilla	Yoke	914XX001	1
4	Rotula cilindro G valco	Swivel G valco cylinder	910XX588	1
5	Tornillo allen M4x10	M4x10 allen screw		2
7	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
8	Macho de enchufe rapido	Fast connector male.	943XX091	1

12.3 CONJUNTO VALVULA / VALVE ASSEMBLY:



No.	Descripción	Description	Ref.	Qty.
1	Cuerpo válvula	Valve body	917XX065	1
2	Corredera	Valve shaft		1
3	Tapa válvula	Valve plug		2
4	Anillo elastico agujero 25	Retaining ring internal 25		2
5	Junta torica viton 20x2	Viton o'ring 20x2		2
6	Junta torica viton 7.65x1.78	Viton o'ring 7,65x1,78		2
7	Junta torica viton 3x1	Viton o'ring 3x1		3
8	Esparrago roscado M4x6	Plug M4x6		3
9	Helicoil M8x12	M8x12 Helicoil		2
10	Tapon 1/8"Gas	Plug 1/8" NPT		4
11	Racor recto 1/8" M-M	Straight fitting		1
12	Macho del enchufe rápido	Fast connector male		1
13	Silenciador 1/8"Gas	Silencer 1/8" Gas		2
14	Filtro tapón válvula 8x3x110	Valve plug filter 8x3x110		1
15	Tornillo cuerpo valvula	Valve body screw		4
16	Arandela M6	M6 washer		4

12.4 CONJUNTO CAMBIO / CHANGE ASSEMBLY: (916XX189)



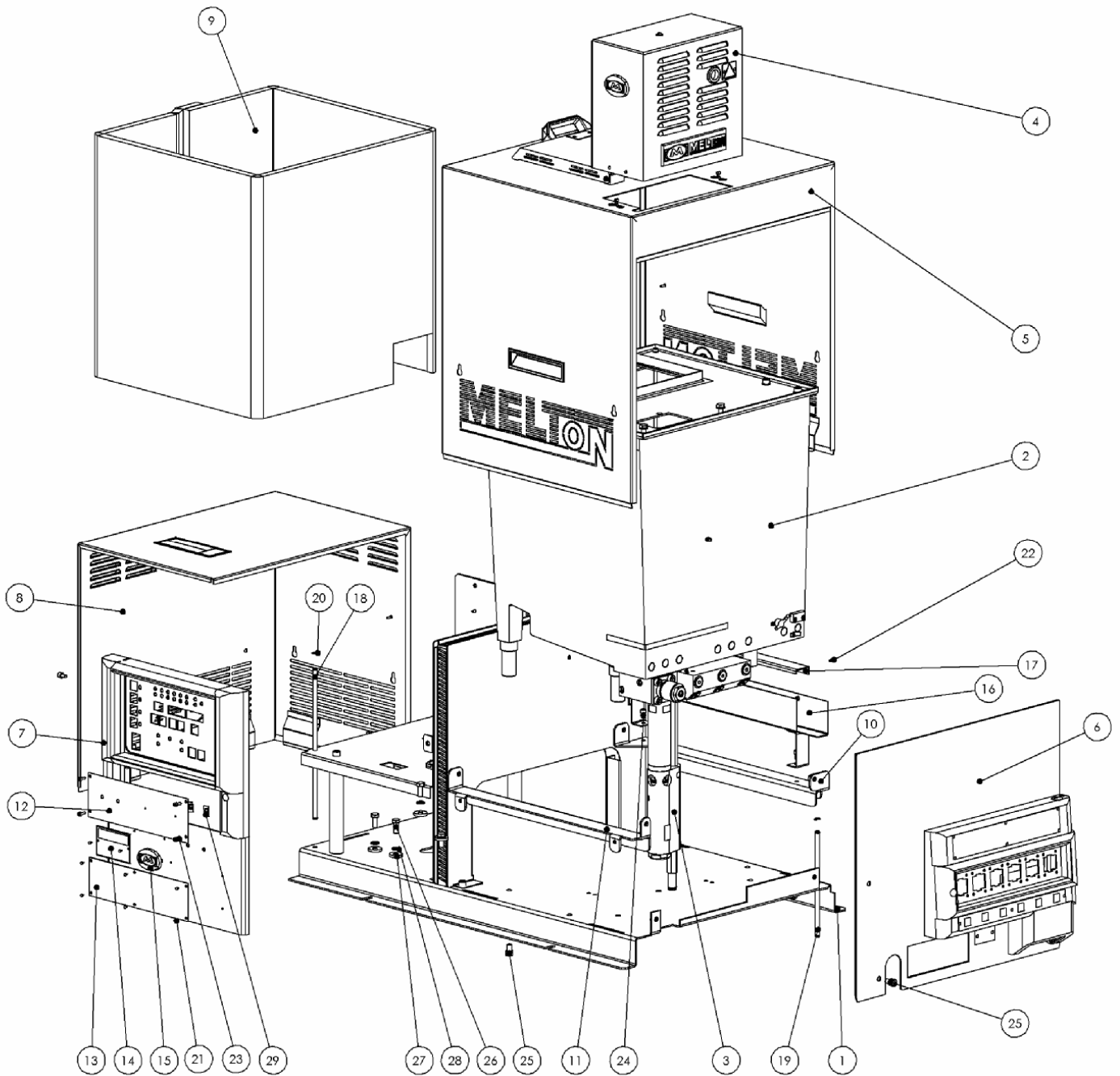
Nº	Descripción	Description	Ref.	Qty
1	Distribuidor cambio C8G	C8G Change manifold	915XX386	1
2	Tornillo amarre anillo	Ring moor screw	914XX352	1
3	Subconjunto anillo	Ring subassembly	914XX048	1
4	Tapa rodamiento	Bearing cap	914XX044	1
5	Tornillo gota sebo ranurado M3x10 inox.	Stainless M3x10 screw	910XX338	2
6	Casquillo amarre muelle 1	Spring moor cap	915XX363	1
7	Casquillo entrada pilotaje	Entering guide cap	914XX255	2
8	Muelle 1	Spring	914XX059	1
9	Cuerpo pilotaje	Guide body	914XX058	1
10	Entrada pilotaje	Guide entering	914XX057	1
11	Salida pilotaje	Guide exit	914XX053	1
12	Tope inferior	Lower stop	914XX050	1
13	Tope superior	Upper stop	914XX051	1
20	Tornillo allen M3x4 inox.	M3x4 stainless allen screw	912XX278	1
16	Junta torica viton 6x1	6x1 viton o'ring	914XX054	3
17	Tornillo allen M5x20 inox.	M5x20 allen screw	910XX065	2
14	Espárrago roscado M6x6 inox.	Stainless M6x6 screwed rod		9
15	Rodamiento 08x19x6 ZZ	08x19x6 ZZ bearing	915XX362	1
18	Distancial anillo	Ring spacer	915XX366	1
19	Anillo retención lateral eje 5	Axle 5 retention ring	914XX254	2

**DESPIECE /PART LISTING
EQUIPO C50 /
C50 EQUIPMENT**

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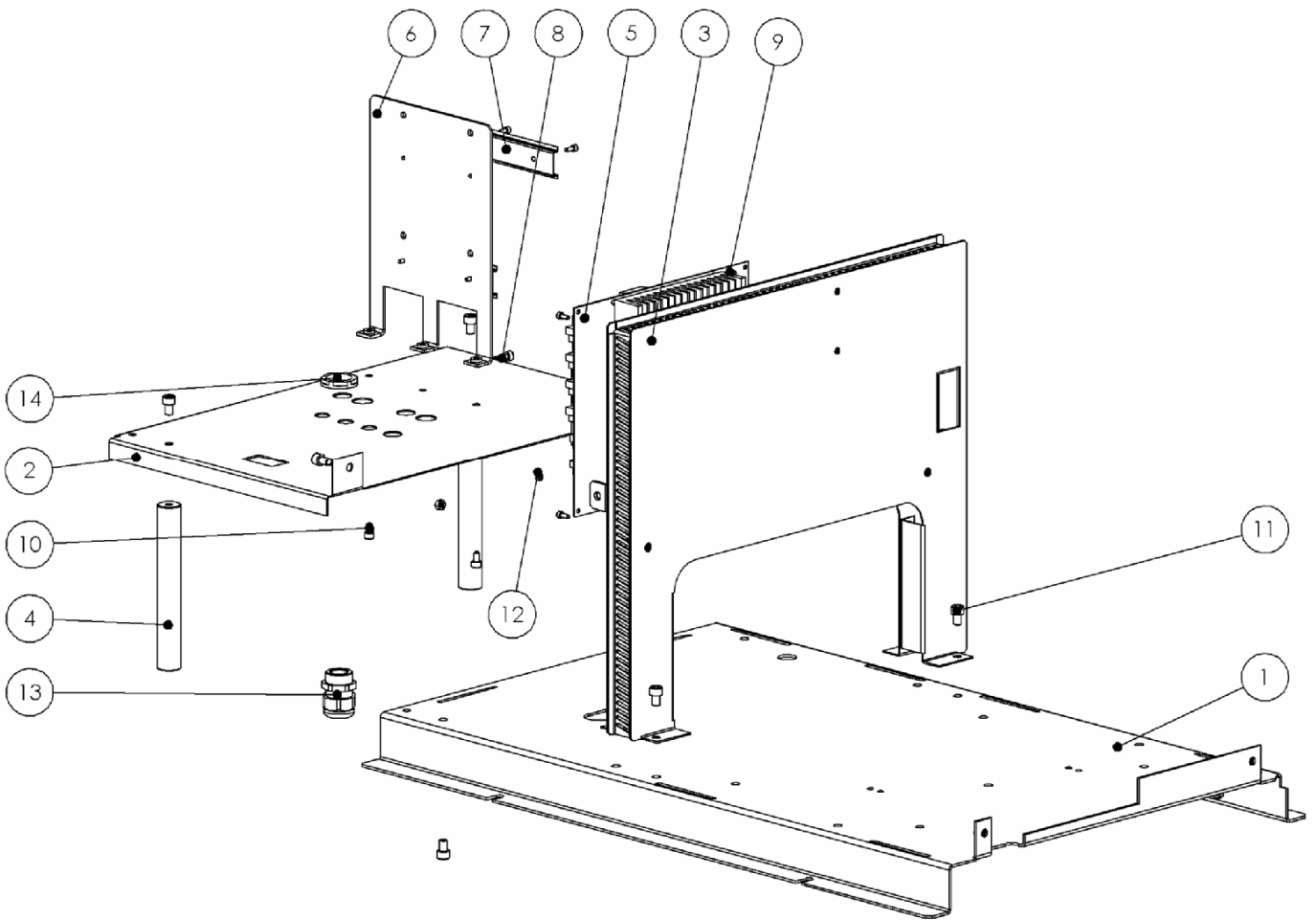
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1. CONJUNTO ENCOLADOR C50 / C50_EQUIPMENT ASSEMBLY:



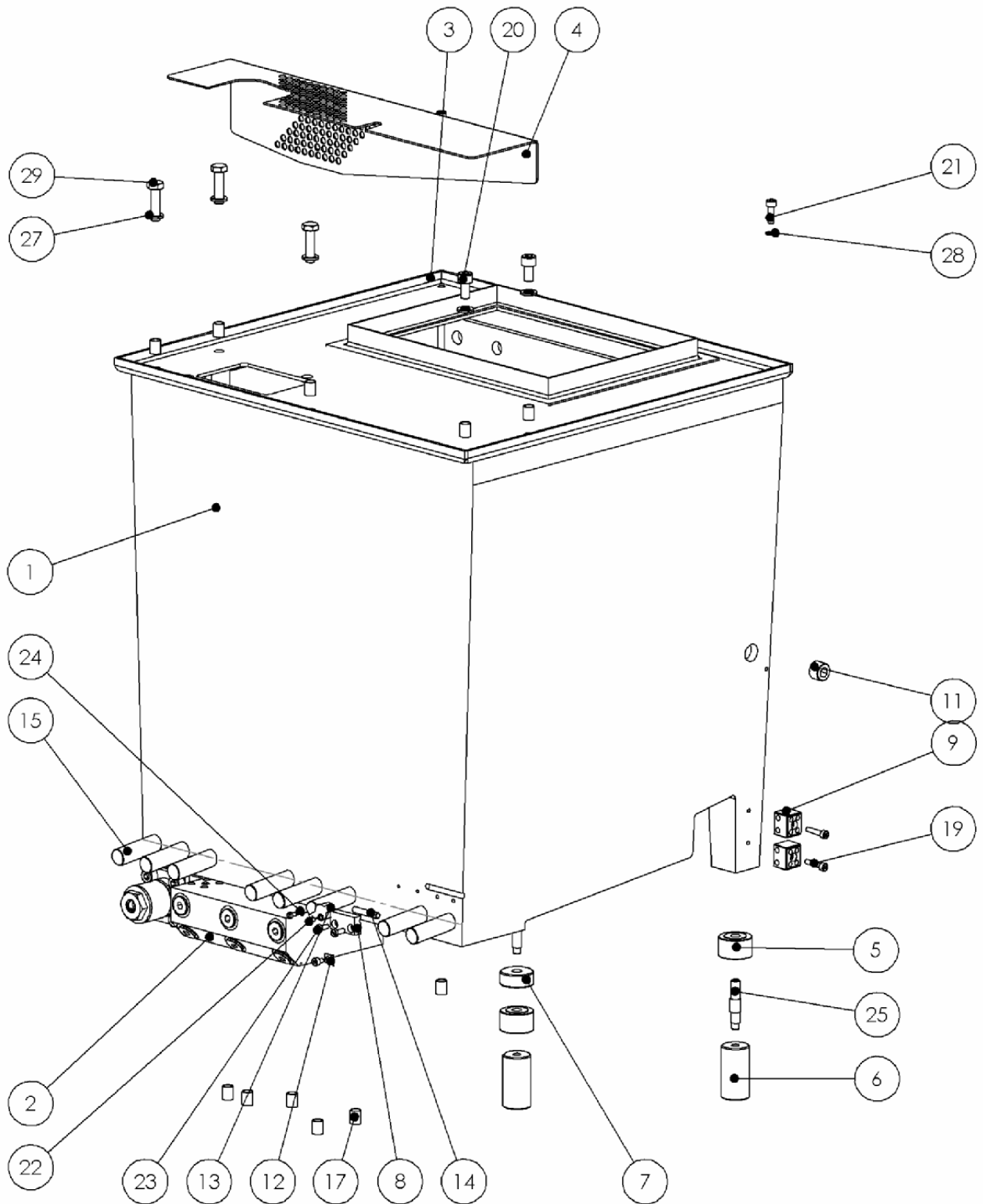
Pos.	Denominación	Denomination	Ref.	Can.
1	Conjunto bancada C50	C50 base assembly		1
2	Conjunto deposito C50	C50 tank assembly		1
3	Conjunto bomba C50	Pump assembly	PAG.11	1
4	Conjunto carcasa bomba C50	C50 pump cover assembly	918XX288	1
5	Conjunto carcasa central C50	C50 central cover assembly	918XX289	1
6	Conjunto portón trasero C50	C50 rear door assembly	918XX286	1
7	Conjunto portón delantero V50	V50 front door assembly	918XX287	1
8	Conjunto carcasa delantera V50	V50 front cover assembly	918XX290	1
9	Manta aislante deposito V50	V50 tank insulating blanket		1
10	Tirante dcho. C50	C50 right trace		1
11	Tirante izdo. C50	C50 left trace		1
12	Chapa delantera	Front plate		1
13	Chapa matricula	License plate		1
14	Chapa frontal	Front plate		1
15	Anagrama circular	Symbol		1
16	Canaleta cableado V50	V50 wiring guide		1
17	Tapa canaleta cableado V50	V50 wiring guide top		1
18	Eje portón delantero	Front door axle		1
19	Eje portón trasero	Rear door axle		1
20	Anillo elástico eje 8	Axle 8 elastic ring		2
21	Remache pop 2.4x5.1	Pop clinch 2.4x5.1		8
22	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw		2
23	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
24	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw		4
25	Tornillo allen M8x12 inox.	Stainless M8x12 allen screw		4
26	Tornillo hexagonal M8x20	Hexagonal M8x20 screw		4
27	Arandela plana reforzada M8	Strengthen M8 flat washer		4
28	Arandela grover 8	8 Grover washer		4
29	Clip	Clip		2

2. CONJUNTO BANCADA C50 / C50 BASE_ASSEMBLY:



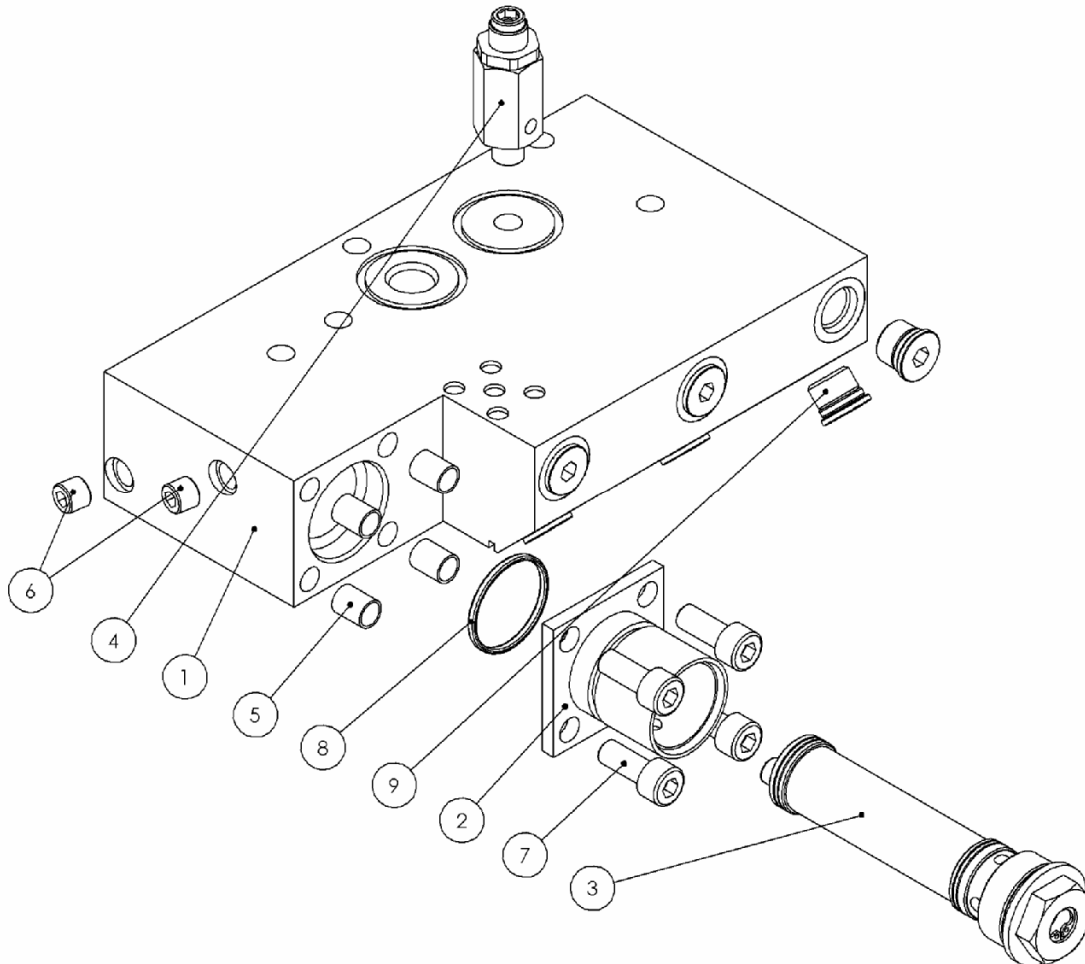
Pos.	Denominación	Denomination	Ref.	Ref.	Can.
1	Base C50	C50 base			1
11	Tornillo allen M8x12 inox.	Stainless M8x12 allen screw		918XX273	4
3	Tabique térmico	Thermal wall			1
4	Pata distancial	Distancial leg			2
5	Tarjeta potencia 6 salidas	6 exits power card		918XX274	1
9	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw			4
6	Soporte variador	Changer support			1
7	Carril elementos eléctricos	Electrical elements guide			2
8	Tornillo cautivo carcasas	Cover captive screw			2
9	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw			4
10	Tornillo allen M6x10 inox.	Stainless M6x10 allen screw			3
2	Chapa soporte delantera	Front support plate			1
12	Anillo de retención lateral para eje nominal 6	Lateral retention ring for nominal axle 6			2
13	Prensa PVC PG21	PVC PG21 gland			1
14	Tuerca PVC PG21	PVC PG21 nut			1
11	Tornillo allen M8x12 inox.	Stainless M8x12 allen screw			6

3. CONJUNTO DEPÓSITO C50 / C50 TANK_ASSEMBLY:



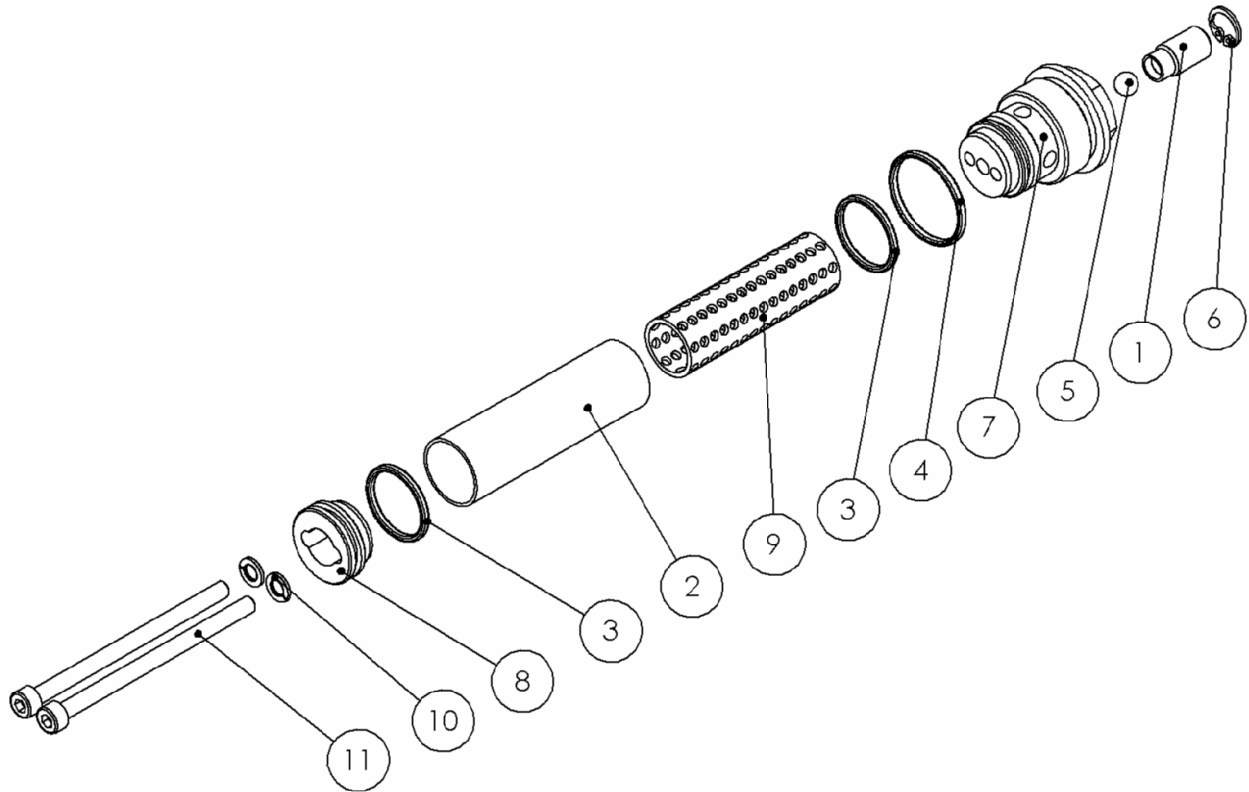
Pos.	Denominación	Denomination	Ref.	Ref.	Can.
2	Subconjunto distribuidor C-PLUS	C-PLUS distributor assembly	918XX275		1
3	Chapa boca deposito C50	C50 tank entrance plate		918XX276	1
20	Tornillo allen M8x15 inox.	Stainless M8x15 allen screw			2
1	Deposito 50 KG. mecanizado C	50 KG mechanized tank		918XX277	1
4	Rejilla deposito C50	C50 tank grid			1
5	Aislante pata deposito	Tank leg isolating			4
6	Pata deposito	Tank leg			4
7	Distancial pata trasera	Rear leg spacer			2
8	Brida sonda	Sensor bridle			1
9	Regleta cerámica 2 polos	2 pole ceramic terminal block			2
10	Tapón 1/2" GAS BSP	1/2" GAS BSP plug			2
11	Tapón 3/8" GAS BSP	3/8" GAS BSP plug			1
12	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158		1
14	Sonda de temperatura	Temperature sensor			1
15	Resistencia 15x280 1000W	15x280 1000W heater	910XX197		4
16	Resistencia 15x280 800W	15x280 800W heater	914XX171		4
17	Helicoil M8x12	M8x12 helicoil			14
18	Tornillo allen M4x6 inox.	Stainless M4x6 allen screw			1
19	Tornillo allen M4x20 inox	Stainless M4x20 allen screw			2
21	Tornillo allen M5x16 inox.	Stainless M4x16 allen screw			2
23	Tornillo cilíndrico con ranura M4x10 inox.	Stainless cylindrical with slot M4x10 screw			2
25	Espárrago roscado M8x45 Inox	Stainless M8x45 screwed rod		2	
26	Espárrago roscado M8x60 Inox.	Stainless M8x60 screwed rod		2	
28	Arandela grover 5	Grover 5 washer		2	
13	Mazo termostato 240°C N/C	240°C N/C thermostat cordset		917XX170	1
22	Tornillo cilíndrico con ranura M3x6 inox.	Stainless cylindrical with slot M3x6 screw			2
24	Arandela dentada M3	M3 indent washer			2

3.1. CONJUNTO DISTRIBUIDOR C-PLUS / C-PLUS MANIFOLD ASSEMBLY:



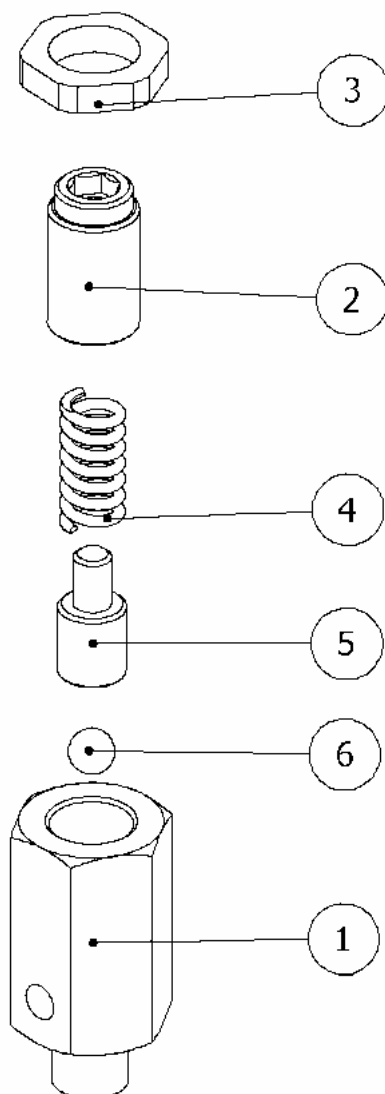
Pos.	Denominación	Denomination	Ref.	Ref.	Can.
1	Cuerpo distribuidor	Distributor body		918XX275	1
2	Brida rosca filtro	Filter screw bridge			1
3	Subconjunto filtro C-PLUS	C-PLUS filter assembly	919XX324		1
4	Conjunto válvula de seguridad 4000	4000 security valve assembly	917XX087		1
5	Helicoil M8x12	M8x12 helicoil			4
6	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	910XX001		2
7	Tornillo allen M8x20 inox.	Stainless M8x20 allen screw			4
8	Junta tórica viton 30x2	Viton 30x2 o'ring	914XX090		1
9	Tapón 9/16" 18h UNF con junta	9/16" 18h UNF with joint plug	917XX031		6

3.1.1. CONJUNTO FILTRO C-PLUS / C-PLUS FILTER ASSEMBLY: (919XX324)



Pos.	Denominación	Denomination	Ref.	Can.
1	Tornillo purgador	Bleeder screw		1
2	Malla filtro deposito 0.23	0.23 deposit filter mesh	910XX226	1
3	Junta tórica viton 20x2	20x2 viton o´ring	918XX279	2
4	Junta tórica viton 26x2	26x2 viton o´ring		1
5	Bola acero 7	7 steel ball	910XX396	1
6	Anillo elástico agujero 12	12 elastic ring		1
7	Tornillo filtro	Filter screw		1
8	Tapa filtro	Filter cap		1
9	Cuerpo filtro deposito	Deposit filter body	910XX224	1
10	Arandela grover 5 inox.	Stainless 5 grover washer		2
11	Tornillo allen M5x80 inox.	Stainless M5x80 allen screw		2

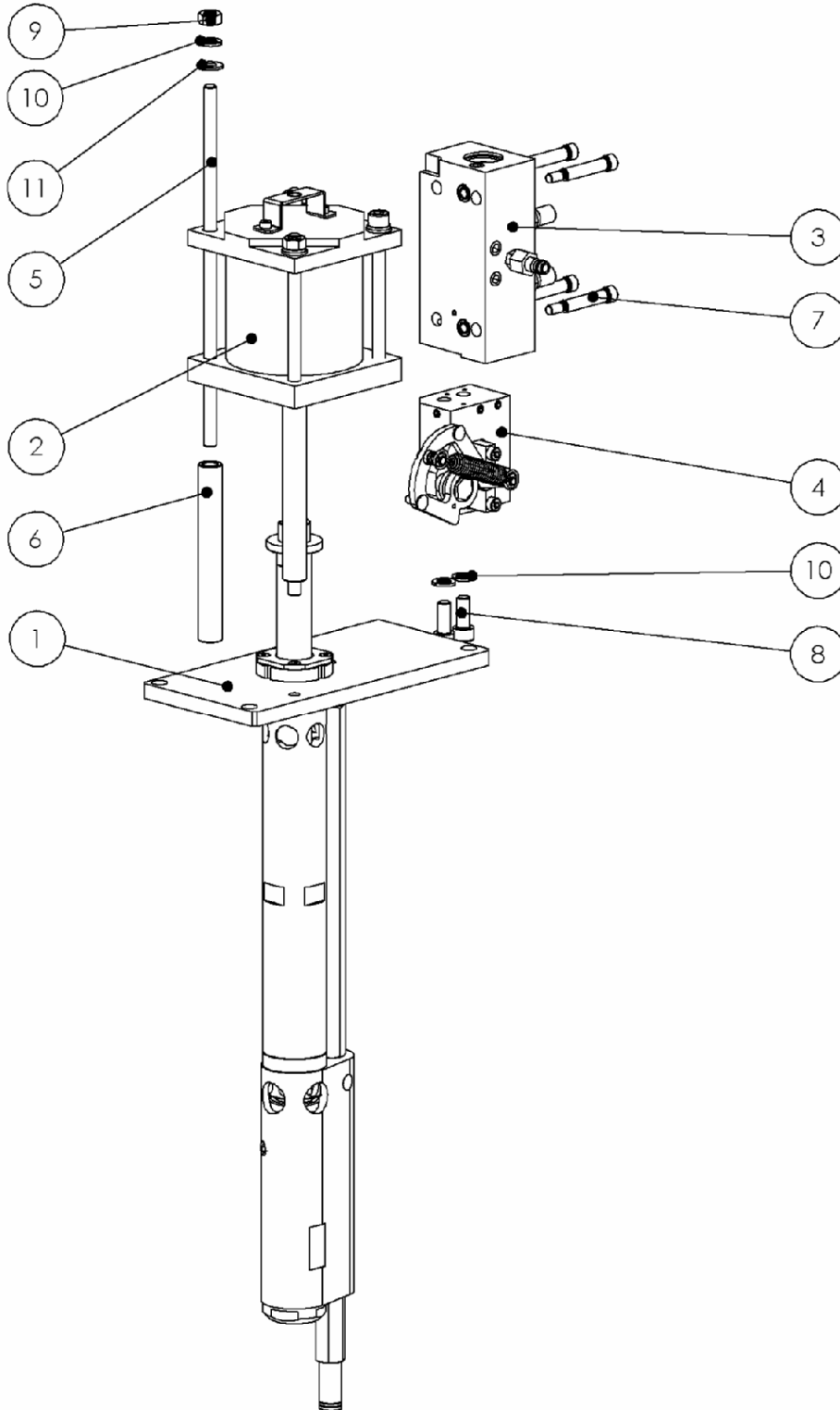
3.1.2. CONJUNTO VALVULA DE SEGURIDAD / SECURITY VALVE ASSEMBLY:



Pos.	Denominación	Denomination	Ref.	Ref.	Can.
1	Cuerpo válvula de seguridad	Security valve body	914XX097	917XX087	1
2	Casquillo regulador muelle	Spring regulator cap	910XX209		1
3	Tuerca trasera	Rear nut	910XX208		1
4	Muelle	Spring	915XX388		1
5	Pivote centraje bola	Centering ball cap	910XX206		1
6	Bola acero 6	6 steel ball			1

4. A) CONJUNTO BOMBA / PUMP ASSEMBLY:

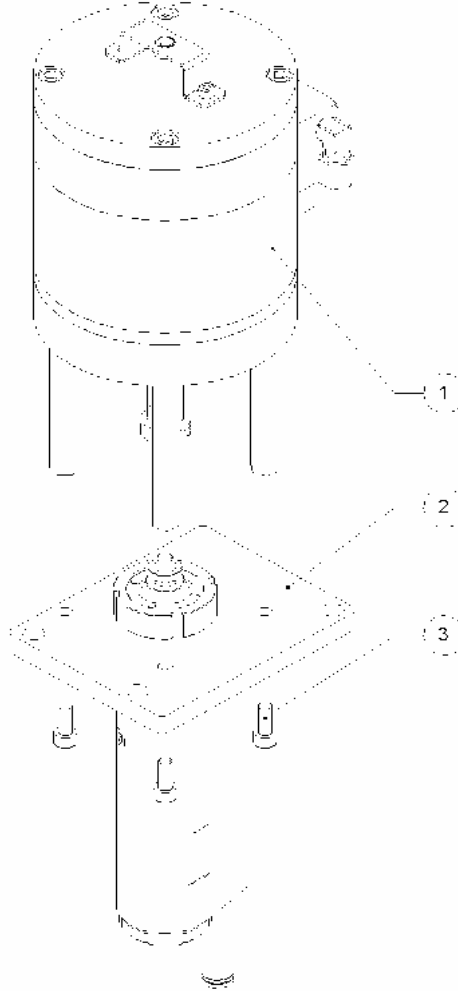
Nota: Valido para equipos hasta numero de serie 10347
/ Note: Valid for equipments with serial number up to 10347)



Pos.	Denominación	Denomination	Ref.	Can.
1	Subconjunto grupo hidráulico C50	C50 hydraulic group assembly	918XX291	1
2	Subconjunto cilindro C8G/C16	C8G/C16 cylinder assembly	916XX165	1
3	Subconjunto válvula	Valve assembly	917XX065	1
4	Subconjunto cambio C8G/C16	C8G/C16 change assembly	916XX189	1
5	Tirante cilindro C8G	C8G cylinder strut	911XX000	3
6	Distancial cilindro C8G	C8G cylinder spacer	911XX001	3
7	Tornillo cuerpo válvula	Valve body screw		4
8	Tornillo allen M8x20 inox.	Stainless M8x20 allen screw		2
9	Tuerca hexagonal M8 inox.	Stainless hexagonal M8 nut		3
10	Arandela grover 8 inox.	Stainless 8 grover washer		5
11	Arandela plana M8 inox.	Stainless M8 flat washer		3
	Tornillo hexagonal M8x30	Hexagonal M8x30 screw		3
	Arandela grover 8	Grover 8 washer		3

4. B) CONJUNTO BOMBA / PUMP ASSEMBLY: (916XX416)

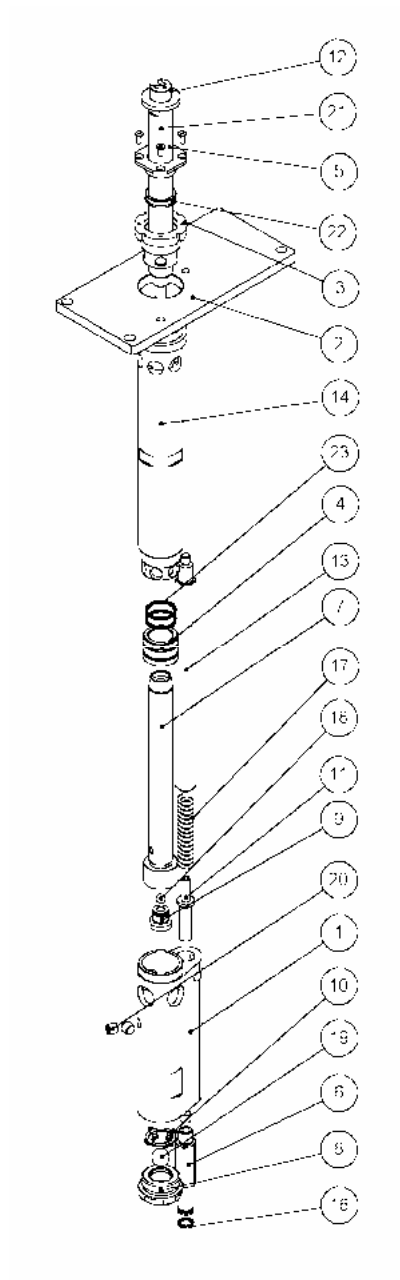
Nota: Valido para equipos con numero de serie desde 10438
 / Note: Valid for equipments with serial number from 10438



Nº	Descripción	Description	Ref.	Qty
1	CONJUNTO CILINDRO NEUMATICO	PNEUMATIC CYLINDER ASSEMBLY	PAG 18.	1
2	CONJUNTO GRUPO HIDRAULICO	HIDRAULIC GROUP ASSEMBLY	PAG. 14/17	1
3	TORNILLO ALLEN M6X15	M6X15 ALLEN SCREW	915XX090	4

4.1.A) CONJUNTO GRUPO HIDRAULICO C50 / C50 HYDRAULIC GROUP ASSEMBLY:

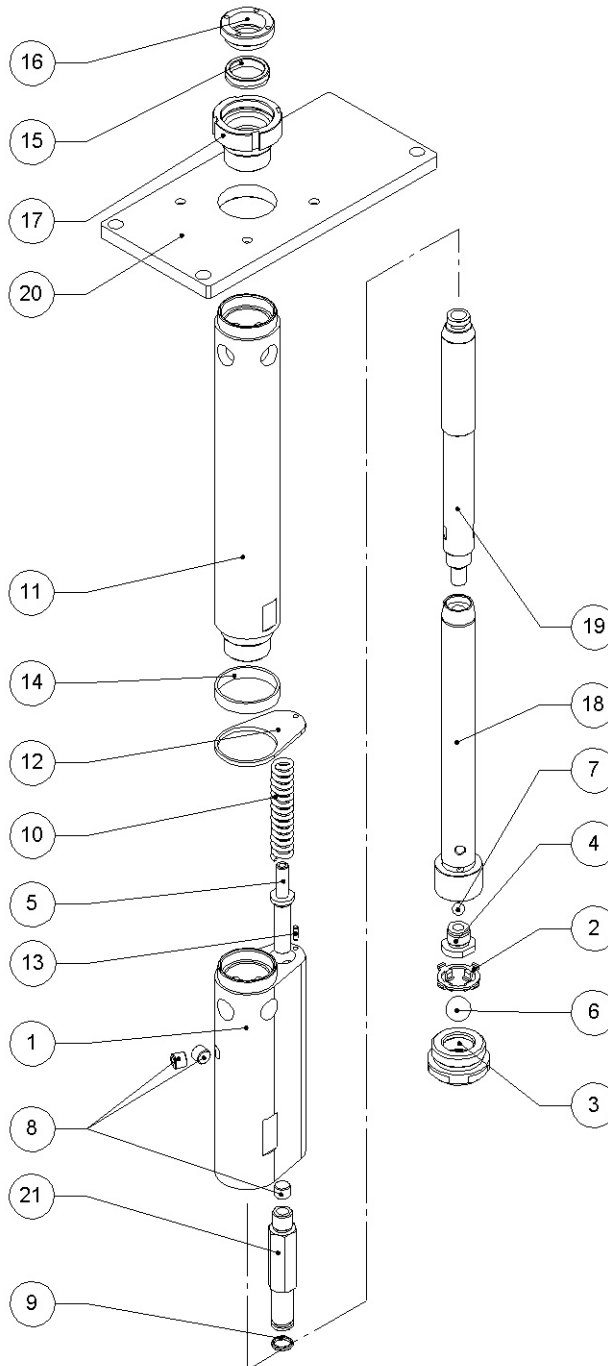
Nota: Valido para equipos hasta numero de serie 10347 / Note: Valid for equipments with serial number up to 10347)



Pos.	Denominación	Denomination	Ref.	Can.	
1	Cuerpo bomba C8G	C8G pump body	918XX280	1	
7	Eje bomba C16	C16 pump axle		1	
9	Válvula compresión	Compression valve		1	
11	Eje guía válvula compensación	Compensation valve axle guide		1	
12	Soporte escuadra C50	C50 square support		1	
17	Muelle DANLY 8x16x76 rojo	8x16x76 DANLY red spring		910XX407	1
18	Bola 8	8 ball		1	
20	Tapón 1/8" GAS NPT	1/8" GAS NPT plug		3	
2	Placa base bomba C50	C50 pump base plate		1	
	Tornillo hexagonal M8x30	Hexagonal M8x30 screw		3	
	Arandela grover 8	Grover 8 washer		3	
3	Tornillo portajuntas C8G V1	C8G V1 joint bearer screw	916XX282	1	
4	Cuerpo juntas	Body joint		1	
5	Tapa junta 00701 V1	00701 V1 joint cover		1	
21	Tornillo avellanado allen M4x10 inox.	Stainless M4x10 allen screw		4	
22	Junta collarín eje bomba Ø22	Ø22 pump axle chain joint		1	
23	Junta tórica viton 25x2	25x2 viton o´ring		2	
6	Tubo impulsión	Impulsion tube		918XX282	1
16	Junta tórica viton 10x2	10x2 viton o´ring	1		
8	Válvula aspiración	Breathing valve	916XX281	1	
10	Soporte bola aspiración	Breathing ball base		1	
19	Bola 16	16 ball		1	
13	Distancial muelle compensación C50	C50 compensation spring spacer	918XX283	1	
14	Distancial bomba C50	C50 pump spacer		1	
23	Junta tórica viton 25x2	25x2 viton o´ring	918XX284	2	
16	Junta tórica viton 10x2	10x2 viton o´ring		1	

4.1.B) CONJUNTO GRUPO HIDRAULICO C50 / C50 HYDRAULIC GROUP ASSEMBLY:(916XX417)

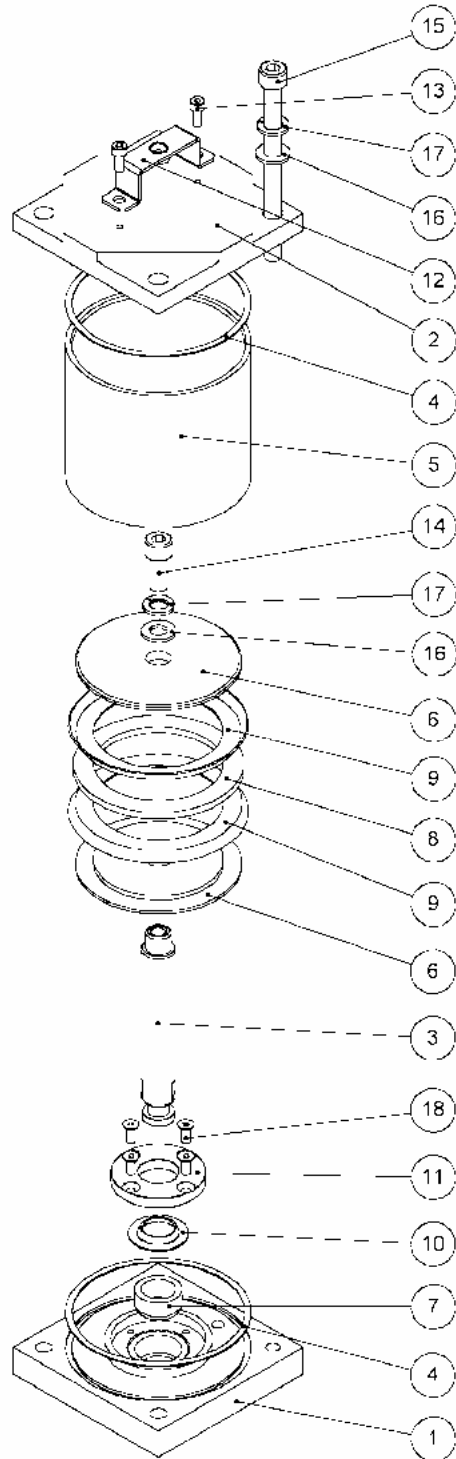
Nota: Valido para equipos con numero de serie desde 10438
 / Note: Valid for equipments with serial number from 10438



Pos.	Denominación	Denomination	Ref.	Can.
1	Cuerpo bomba C8G	C8G pump body	910XX579	1
18	Eje bomba C16	C16 pump axle	911XX147	1
20	Placa base bomba C50/k50 HF	C50/k50 HF pump base plate		1
4	Válvula compresión	Compression valve	910XX121	1
5	Eje guía válvula compensación	Compensation valve axle guide	914XX022	1
10	Muelle DANLY 8x16x76 rojo	8x16x76 DANLY red spring	910XX407	1
7	Bola 8	8 ball	910XX122	1
8	Tapón 1/8" GAS BSP	1/8" GAS BSP plug	912XX793	3
15	Junta collarín eje bomba Ø22	Ø22 pump axle chain joint		1
16	Tuerca portajuntas	Seal bracket nut	916XX420	
17	Tornillo portajuntas C8G V1	C8G seal screw		1
21	Tubo impulsión	Tube		1
3	Válvula aspiración	Breathing valve		1
2	SopORTE bola aspiración	Breathing ball base	916XX281	1
6	Bola 16	16 ball		1
19	Distancial muelle compensación C50	C50 compensation spring spacer		1
11	Distancial bomba C50	C50 pump spacer	916XX422	1
14	Anillo distancial	Spacer ring	910XX585	1
12	Tapa muelle bomba	Pump spring lid	910XX584	1
13	Pasador cilíndrico 3x10	3x10 cylindric rod	910XX581	1
9	Junta tórica viton 10x2	10x2 viton o´ring	914XX025	1

**4.2 A). CONJUNTO CILINDRO C50 / C50 CYLINDER ASSEMBLY:
(916XX165)**

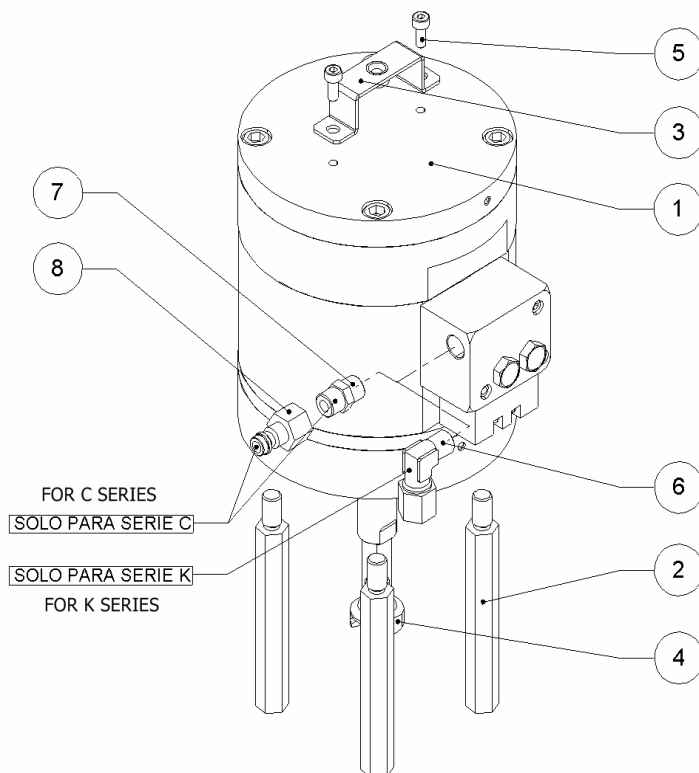
**Nota: Valido para equipos hasta numero de serie 10347 / Note:
Valid for equipments with serial number up to 10347)**



Pos.	Denominación	Denomination	Ref.	Can.
1	Culata inferior cilindro C8G	Lower C8G cylinder head		1
2	Culata superior cilindro C8G	Upper C8G cylinder head		1
3	Eje cilindro C8G	C8G cylinder axle		1
5	Camisa cilindro	Cylinder jacket		1
6	Plato embolo cilindro	Cylinder piston plate		2
7	Casquillo guía eje cilindro	Cylinder axle guide cap		1
8	Anillo embolo cilindro	Cylinder piston ring		1
4	Junta culata cilindro	Cylinder head joint	916XX168	2
9	Junta embolo cilindro	Cylinder piston joint		2
10	Junta embutida eje cilindro	Cylinder axle inlay joint		1
11	Brida junta cierre	Closure bridle joint		1
12	Horquilla amarre	Moore yoke		1
13	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		2
14	Tornillo allen M8x20 inox.	Stainless M8x20 allen screw		1
15	Tornillo allen M8x100 inox.	Stainless M8x100 allen screw		1
16	Arandela plana M8 inox.	Stainless M8 flat washer		2
17	Arandela grover 8 inox.	Stainless 8 grover washer		2
18	Tornillo avellanado allen M4x10 inox.	Stainless M4x10 allen screw		4

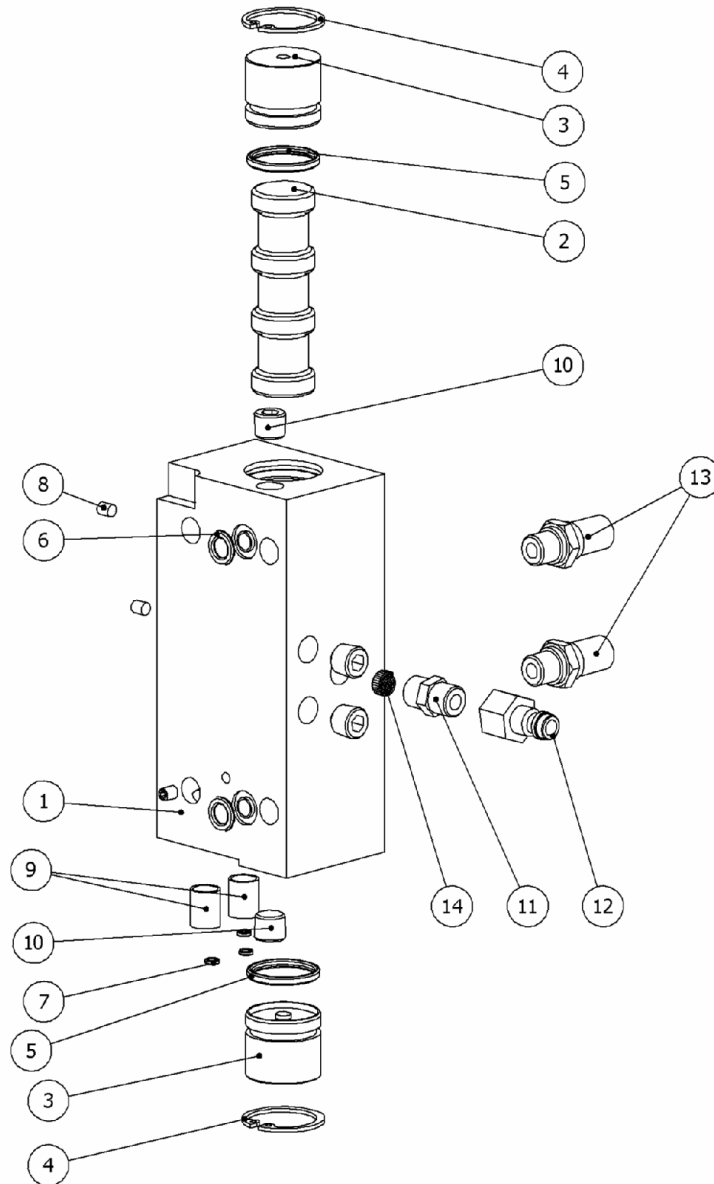
4.2 B). CONJUNTO CILINDRO C50 / c50 CYLINDER ASSEMBLY: (916XX409)

**Nota: Valido para equipos con numero de serie desde 10438
/ Note: Valid for equipments with serial number from 10438**



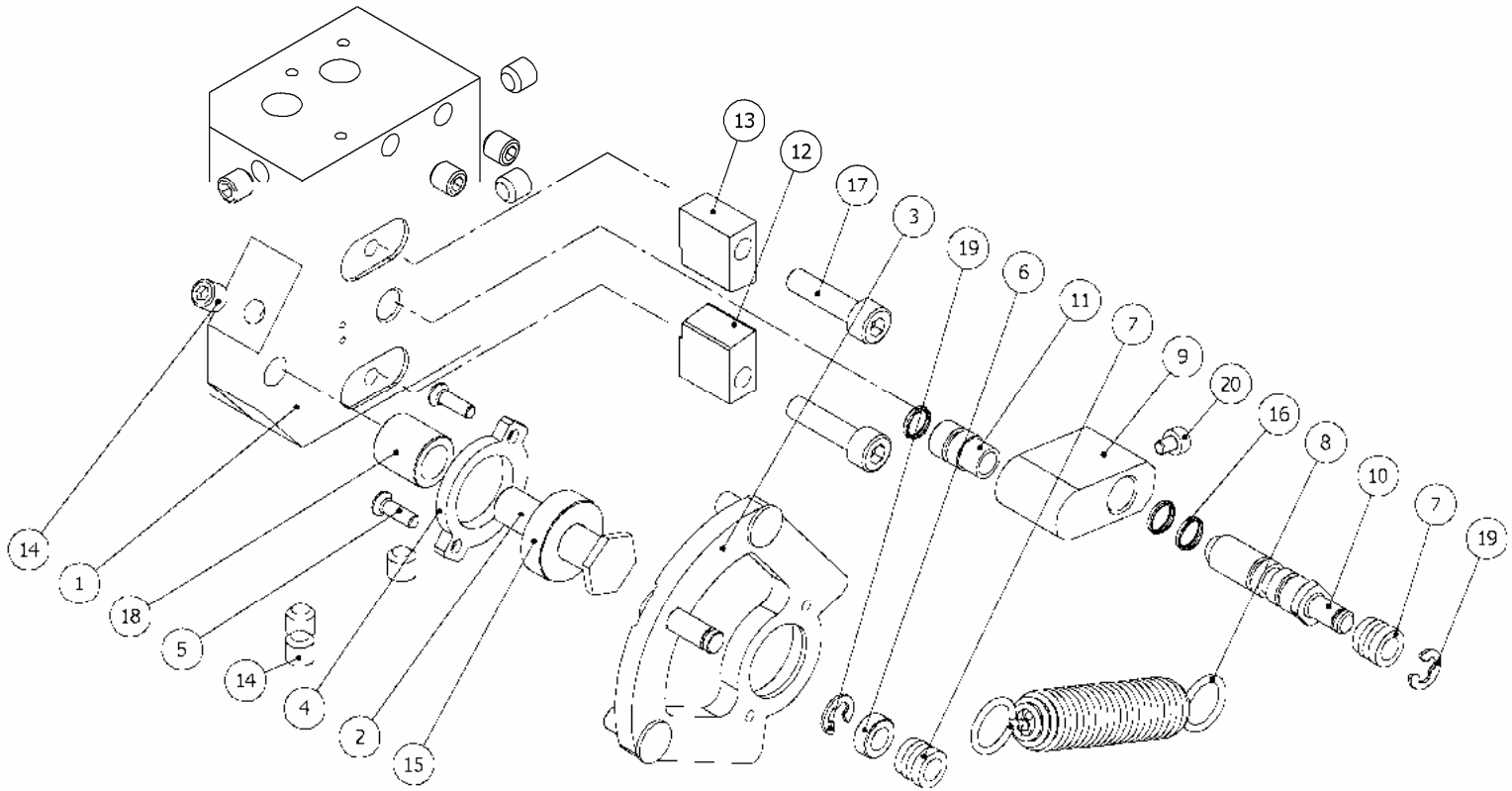
Nº	Descripción	Description	Ref.	Qty
1	Cilindro neumatico Ø 80 valco	Ø 80 valco pneumatic cylinder		1
2	Distancial cilindro G valco	G valco spacer cylinder	910XX144	4
3	Horquilla	Yoke	914XX001	1
4	Rotula cilindro G valco	Swivel G valco cylinder	910XX588	1
5	Tornillo allen M4x10	M4x10 allen screw		2
7	Racor recto 1/8" M-M	1/8" M-M straight fitting	943XX091	1
8	Macho de enchufe rapido	Fast connector male.	943XX091	1

4.3. CONJUNTO VALVULA / VALVE ASSEMBLY:



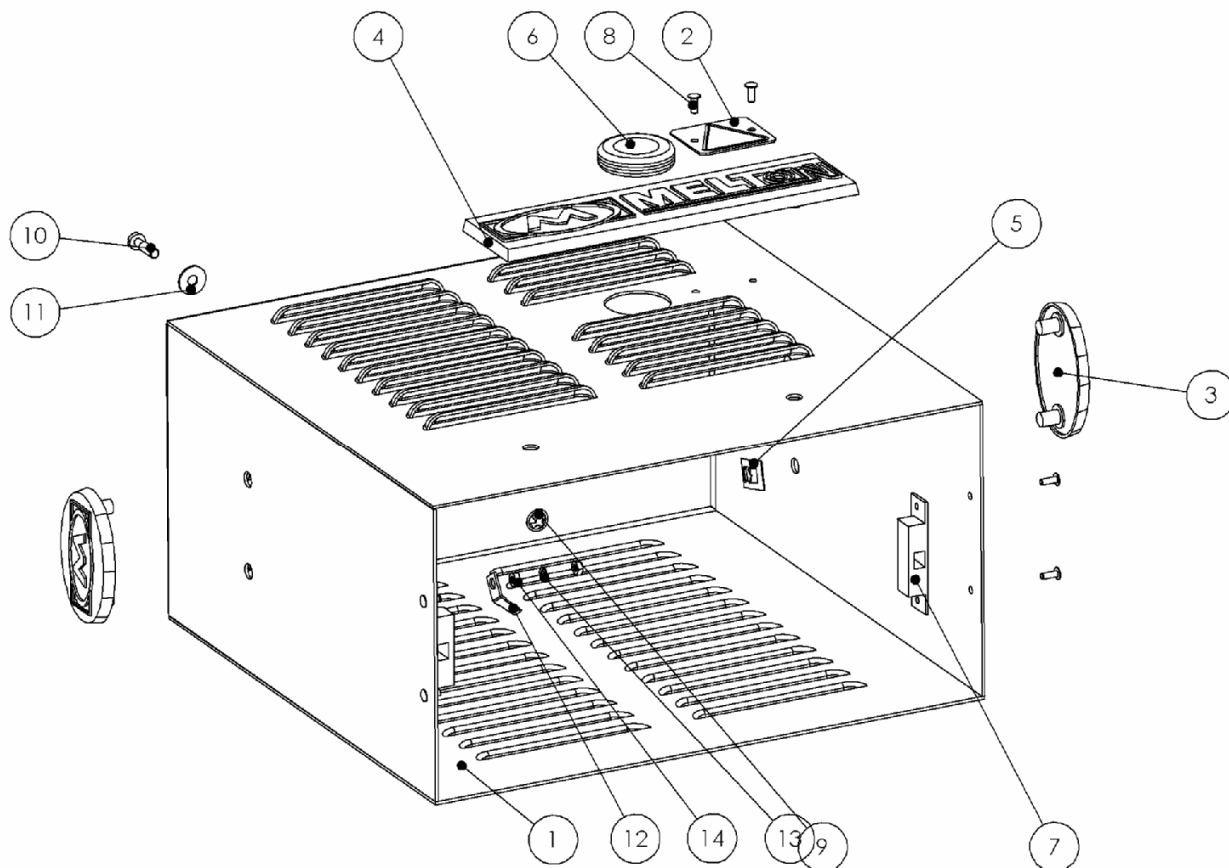
Pos.	Denominación	Denomination	Ref.	Ref.	Can.
1	Cuerpo válvula	Valve body		917XX065	1
2	Corredera	Spool			1
3	Tapa válvula	Valve cap			2
4	Anillo elástico agujero 25	25 hole elastic ring			2
5	Junta tórica viton 20x2	20x2 viton o´ring			2
6	Junta tórica viton 7.65x1.78	7.65x1,78 viton o´ring			2
7	Junta tórica viton 3x1	3x1 viton o´ring			3
8	Espárrago roscado M4x6 c/punta	M4x6 screwed rod			3
9	Helicoil M8x12	M8x12 helicoil			2
10	Tapón 1/8" GAS NPT	1/8" GAS NPT plug			4
11	Racor recto 1/8" M-M	1/8" M-M straight fitting			1
12	Macho del enchufe rápido	Fast connexion male			1
13	Silenciador 1/8"Gas	1/8" gas silencer			2
14	Filtro tapón válvula Ø8X3X110µ	Ø8X3X110µ valve plug filter			1
	Tornillo cuerpo válvula	Valve body screw		4	
5	Junta tórica viton 20x2	20x2 viton o´ring		918XX285	2
7	Junta tórica viton 3x1	3x1 viton o´ring			3
6	Junta tórica viton 7.65x1.78	7.65x1,78 viton o´ring			2

4.4. CONJUNTO CAMBIO / CHANGE ASSEMBLY: (916XX189)



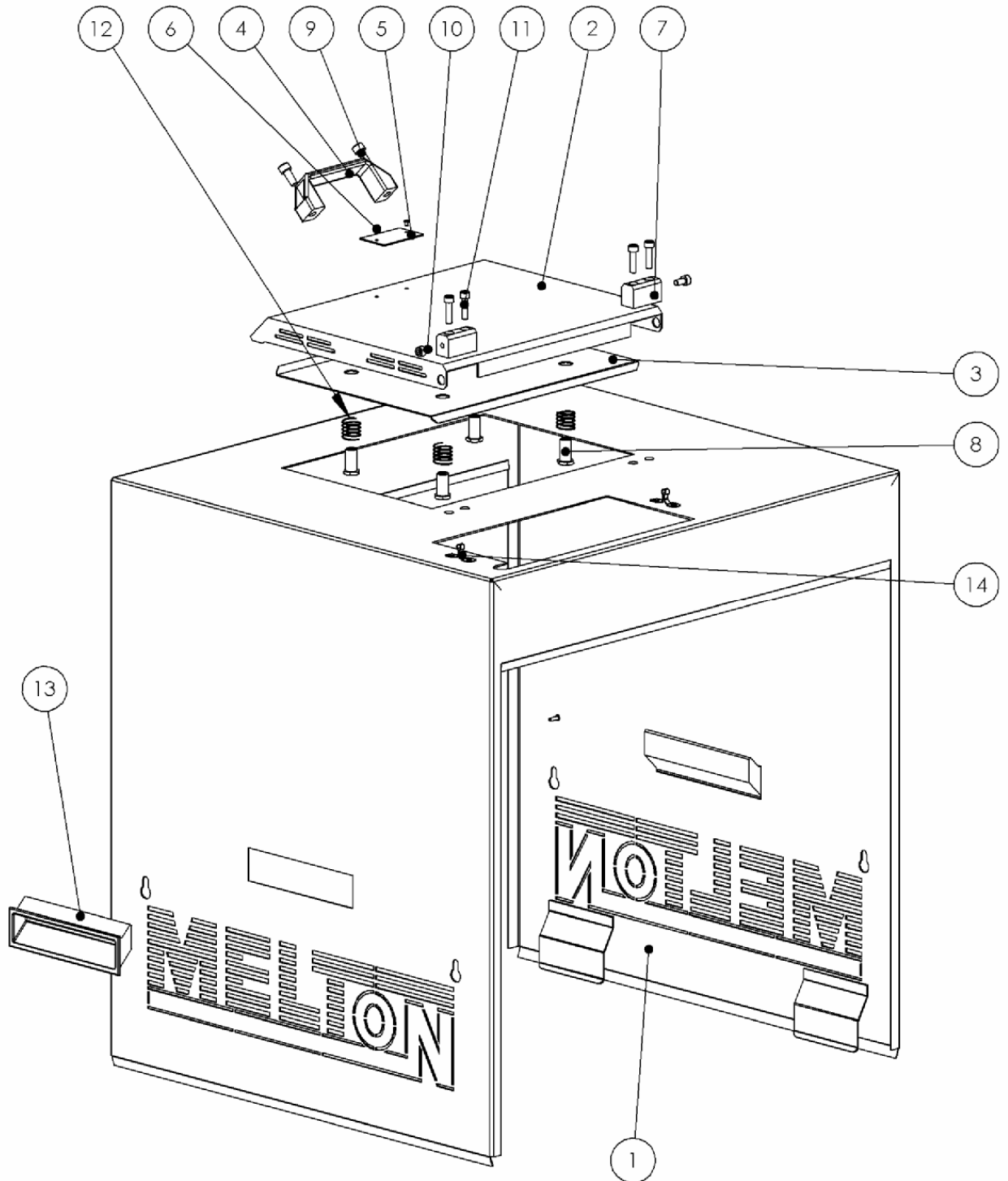
Nº	Descripción	Description	Ref.	Qty
1	Distribuidor cambio C8G	C8G Change manifold	915XX386	1
2	Tornillo amarre anillo	Ring moor screw	914XX352	1
3	Subconjunto anillo	Ring subassembly	914XX048	1
4	Tapa rodamiento	Bearing cap	914XX044	1
5	Tornillo gota sebo ranurado M3x10 inox.	Stainless M3x10 screw	910XX338	2
6	Casquillo amarre muelle 1	Spring moor cap	915XX363	1
7	Casquillo entrada pilotaje	Entering guide cap	914XX255	2
8	Muelle 1	Spring	914XX059	1
9	Cuerpo pilotaje	Guide body	914XX058	1
10	Entrada pilotaje	Guide entering	914XX057	1
11	Salida pilotaje	Guide exit	914XX053	1
12	Tope inferior	Lower stop	914XX050	1
13	Tope superior	Upper stop	914XX051	1
20	Tornillo allen M3x4 inox.	M3x4 stainless allen screw	912XX278	1
16	Junta torica viton 6x1	6x1 viton o'ring	914XX054	3
17	Tornillo allen M5x20 inox.	M5x20 allen screw	914XX052	2
14	Espárrago roscado M6x6 inox.	Stainless M6x6 screwed rod		9
15	Rodamiento 08x19x6 ZZ	08x19x6 ZZ bearing	915XX362	1
18	Distancial anillo	Ring spacer	915XX366	1
19	Anillo retención lateral eje 5	Axle 5 retention ring	914XX254	2

5. CONJUNTO CARCASA BOMBA / PUMP COVER ASSEMBLY (918XX288):



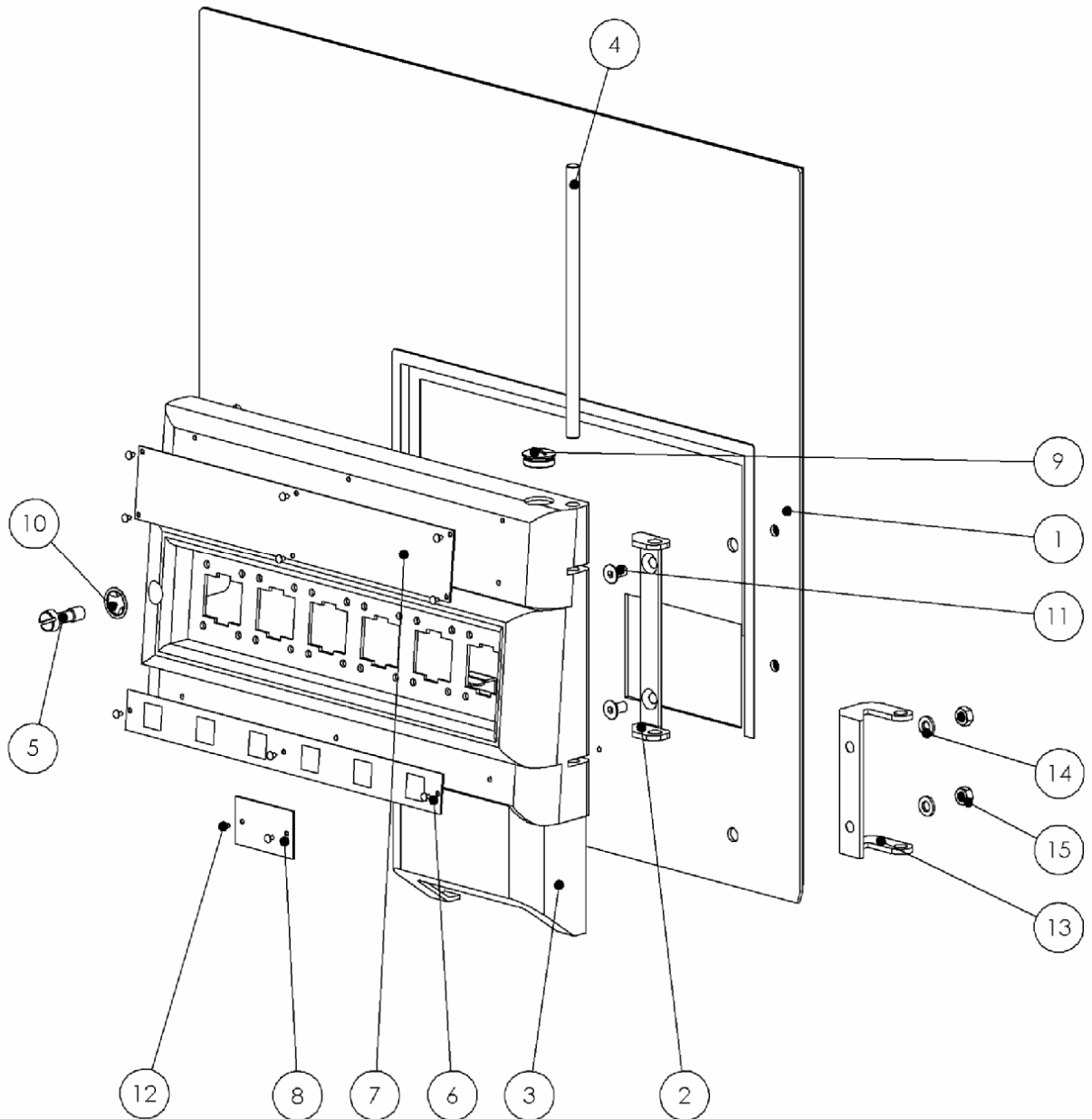
Pos.	Denominación	Description	Ref.	Can.
1	Carcasa bomba C50	C50 pump cover		1
2	Chapa presión recortada	Pressure plate		1
3	Anagrama circular	Symbol		2
4	Anagrama rectangular	Symbol		1
5	Clip	Clip		6
6	Pasatabique goma dim. 18.5	18.5 rubber bulkhead		1
7	Cierre vaivén	Swinging closure	914XX109	2
8	Remache pop 2.4x8	2.4x8 pop clinch		6
9	Arandela retención VISTOP para M4	M4 VISTOP retention washer		1
10	Tornillo amarre carcasa	cover moor screw		1
11	Arandela plana 4.3x12.4 inox.	Stainless 4.3x12.4 flat washer		1
12	Terminal faston M-panel TE938	M-panel TE938 faston terminal	915XX158	1
13	Arandela dentada M3	M3 indent washer		1
14	Tuerca hexagonal M3 inox.	Stainless M3 hexagonal nut		2

**6. CONJUNTO CARCASA CENTRAL C50 / C50 CENTRAL
COVER ASSEMBLY (918XX289):**



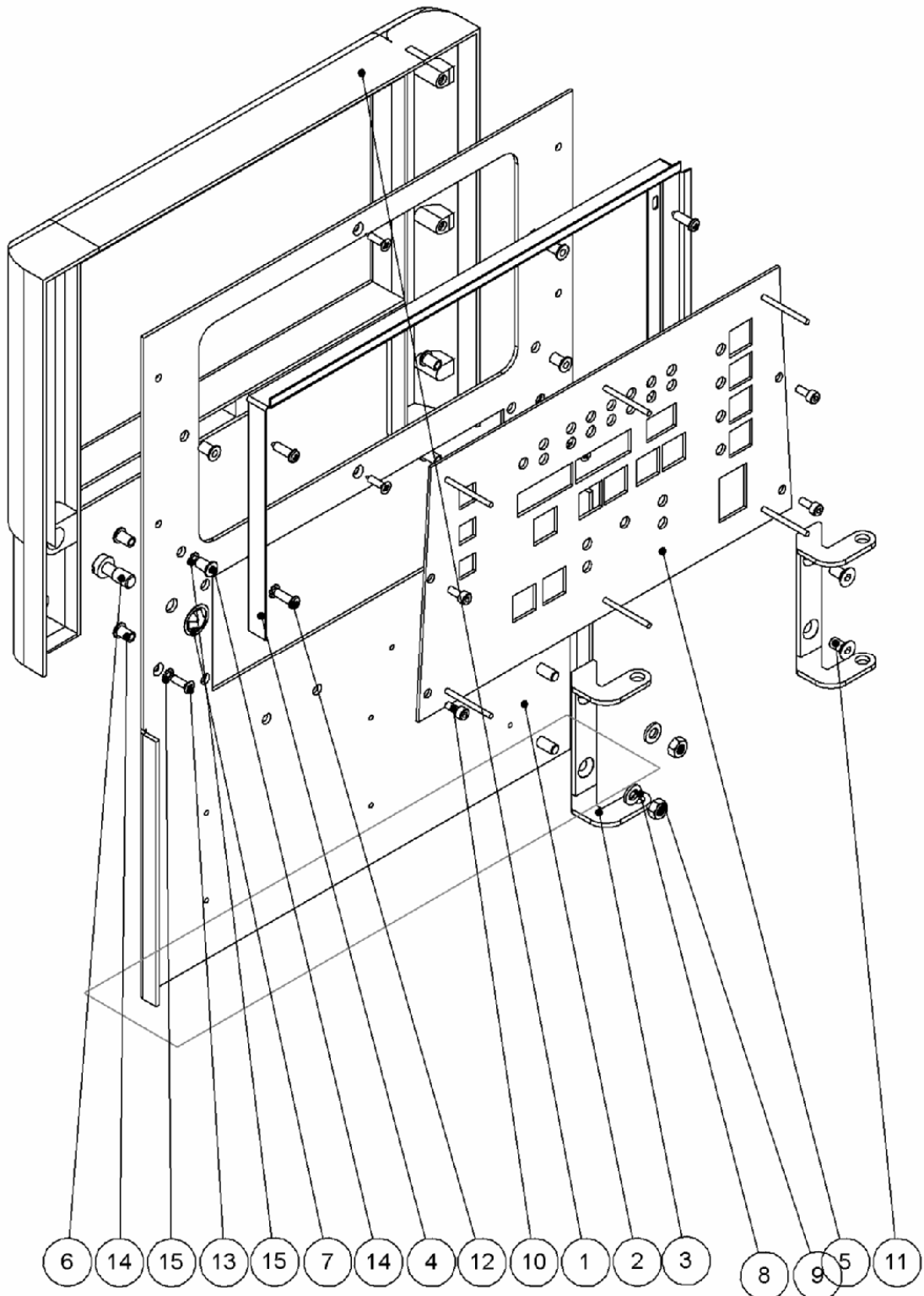
Pos.	Denominación	Denomination	Ref.	Can.
1	Carcasa central C50	C50 central cover		1
2	Tapa deposito C16	C16 tank cover		1
3	Contratapa deposito C16	C16 tank undercover		1
4	Asa pequeña	Handle		1
5	Chapa símbolo quemaduras	Symbol		1
6	Remache pop 2.4x5.1	2.4x5.1 pop clinch		6
7	Bisagra tapa depósito	Tank cover hinge		2
8	Tuerca contratapa	Undercover nut		4
9	Tornillo allen M6x15 inox.	Stainless M6x15 allen screw		2
10	Tornillo allen M5x10 inox.	Stainless M5x10 allen screw		2
11	Tornillo allen M5x20 inox.	Stainless M5x20 allen screw		4
12	Muelle tapa deposito	Tank cover spring		4
13	Tirador	Handle		2
14	Cierre vaivén parte inferior	Swinging closure		2

7. CONJUNTO PORTON TRASERO C50 / C50 REAR DOOR ASSEMBLY (918XX286):



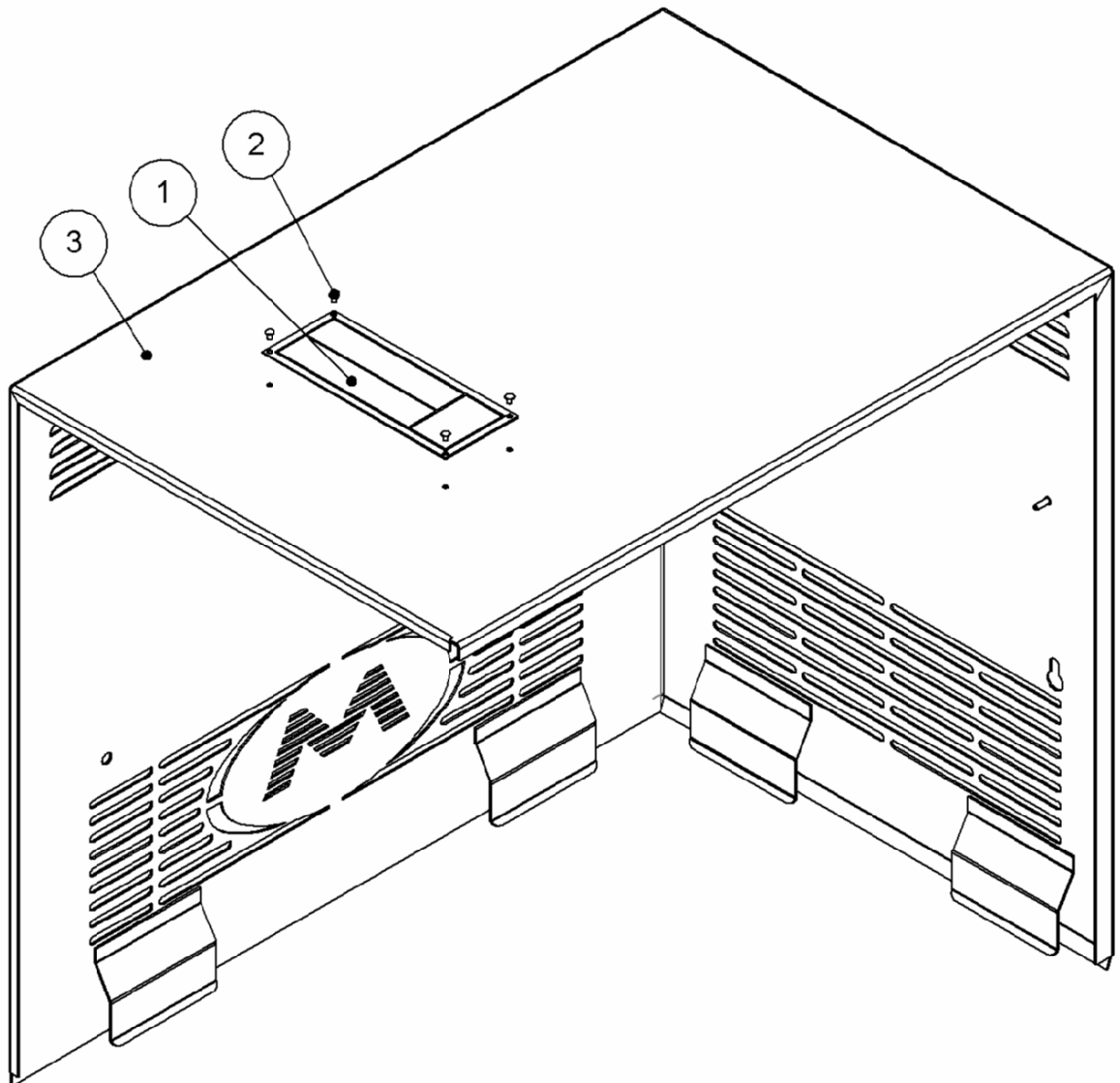
Pos.	Denominación	Denomination	Ref.	Can.
1	Chapa portón trasero C50	C50 rear door plate		1
2	Horquilla portón trasero	Rear door yoke		1
3	Portón trasero C4	C4 rear door		1
4	Eje horquilla portón trasero	Rear door yoke axle		1
5	Tornillo amarre portón trasero	Rear door moor screw		1
6	Chapa inferior portón trasero	Rear door lower plate		1
7	Chapa superior portón trasero	Rear door upper plate		1
8	Chapa símbolo quemaduras	Symbol		1
9	Tapón PG-11	PG-11 plug		1
10	Arandela retención VISTOP para M8	M8 VISTOP retention washer		1
11	Tornillo avellanado M6x12 Inox	Stainless M6x12 screw		2
12	Remache pop 2.4x5.1	2.4x5.1 pop clinch		11
13	Horquilla portón delantero	Rear door yoke		1
14	Arandela plana 6	6 flat washer		2
15	Tuerca hexagonal M6 inox	Stainless M6 hexagonal nut		2

8. CONJUNTO PORTON DELANTERO V50 / V50 FRONT DOOR ASSEMBLY (918XX287):



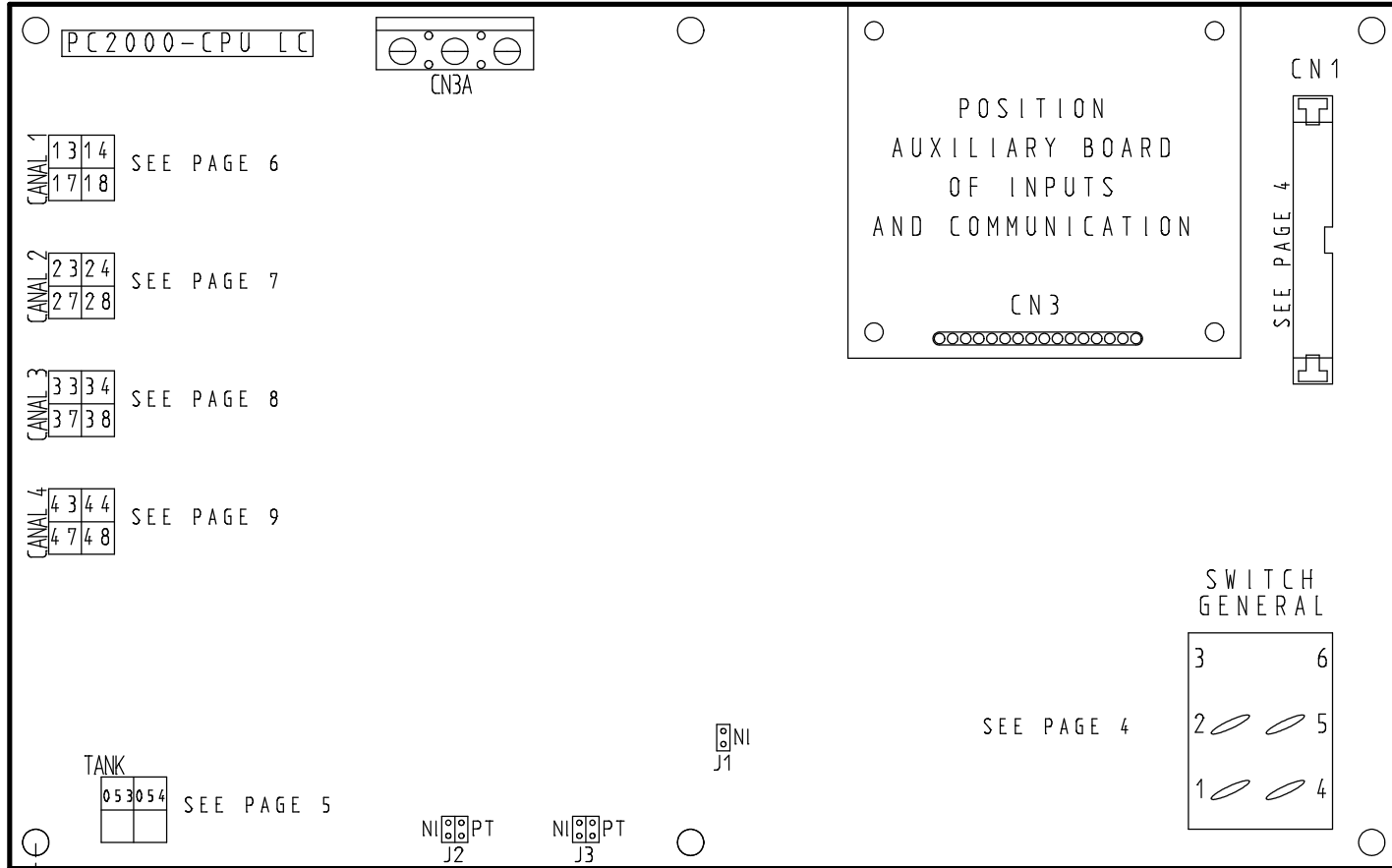
Pos.	Denominación	Denomination.	Ref.	Can.
1	Portón delantero	Front door		1
2	Chapa portón delantero	Front door plate		1
3	Horquilla portón delantero	Front door yoke		2
4	Vierteaguas chapa portón delantero	Front door water protector		1
5	Tarjeta de control 6 salidas	6 exit control card	918XX301	1
10	Tornillo allen M4x10 inox.	Stainless M4x10 allen screw		4
6	Tornillo amarre portón delantero	Front door moor screw		1
7	Arandela retención VISTOP para M8	M8 VISTOP retention screw		1
8	Arandela plana 6	6 flat washer		2
9	Tuerca hexagonal M6 inox	Stainless M6 hexagonal nut		2
11	Tornillo avellanado M6x12 Inox	Stainless M6x12 screw		2
12	Tornillo rosca chapa 3,9x16	3.9x16 screw		4
13	Tornillo avellanado rosca chapa 3.9x16	3.9x16 screw		4
14	Casquillo roscado M4	M4 screwed cap		8
15	Arandela dentada M4	M4 indent washer		3

9. CONJUNTO CARCASA DELANTERA V50 / V50 FRONT COVER ASSEMBLY (918XX290)



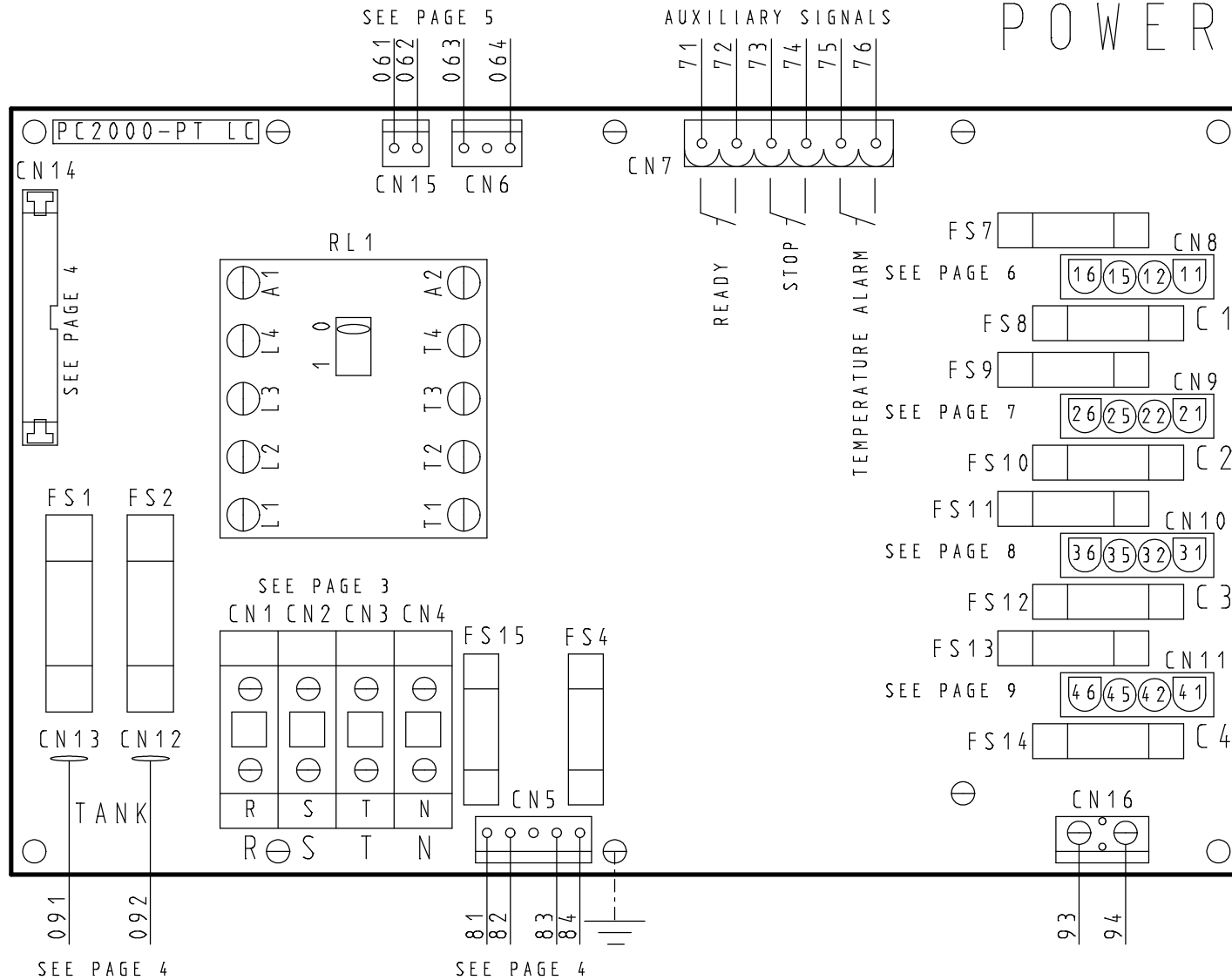
Pos.	Denominación	Denomination	Ref.	Can.
1	Chapa carcasa delantera	Front cover plate		1
2	Remache pop 2.4x5.1	2.4x5.1 clinch		4
3	Carcasa delantera	Front cover		1

CONTROL BOARD



USED ON:	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHANGED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.	VALGO CINCINNATI		<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>	
MTL: "C" SERIES		TOLERANCES - EXCEPT AS NOTED		TITLE BOARD CONTROL "C" SERIES	
FINISH:		ALL DIMENSIONS IN MILLIMETERS		DRAWING NUMBER S030320202	
REV:	BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR		
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 11/03/2008	
	CHECKED F. CASEDAS	DECIMAL X.X		SCALE S/E	
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POWER BOARD

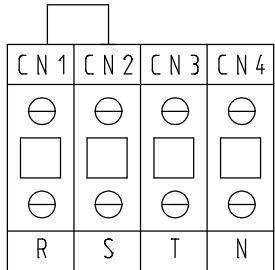
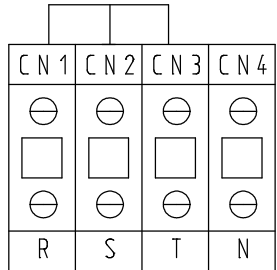
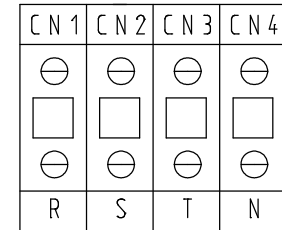
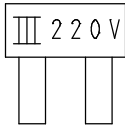
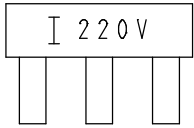


USED ON:	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHANGED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.			PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.	
MTL: "C" SERIES					
FINISH:		TOLERANCES - EXCEPT AS NOTED		TITLE	
REV:	BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	ALL DIMENSIONS IN MILLIMETERS		BOARD POWER "C" SERIES	
		MACHINED SURFACES	ANGULAR		
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	APPROVED F. CASEDAS	DECIMAL X.XX		SHEET 2 OF	SUPERSEDES
					SUPERSEDED BY

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F

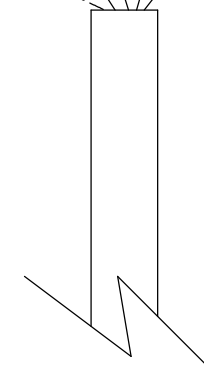
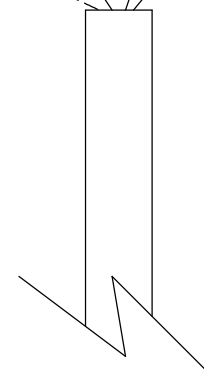
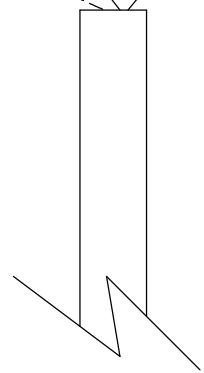
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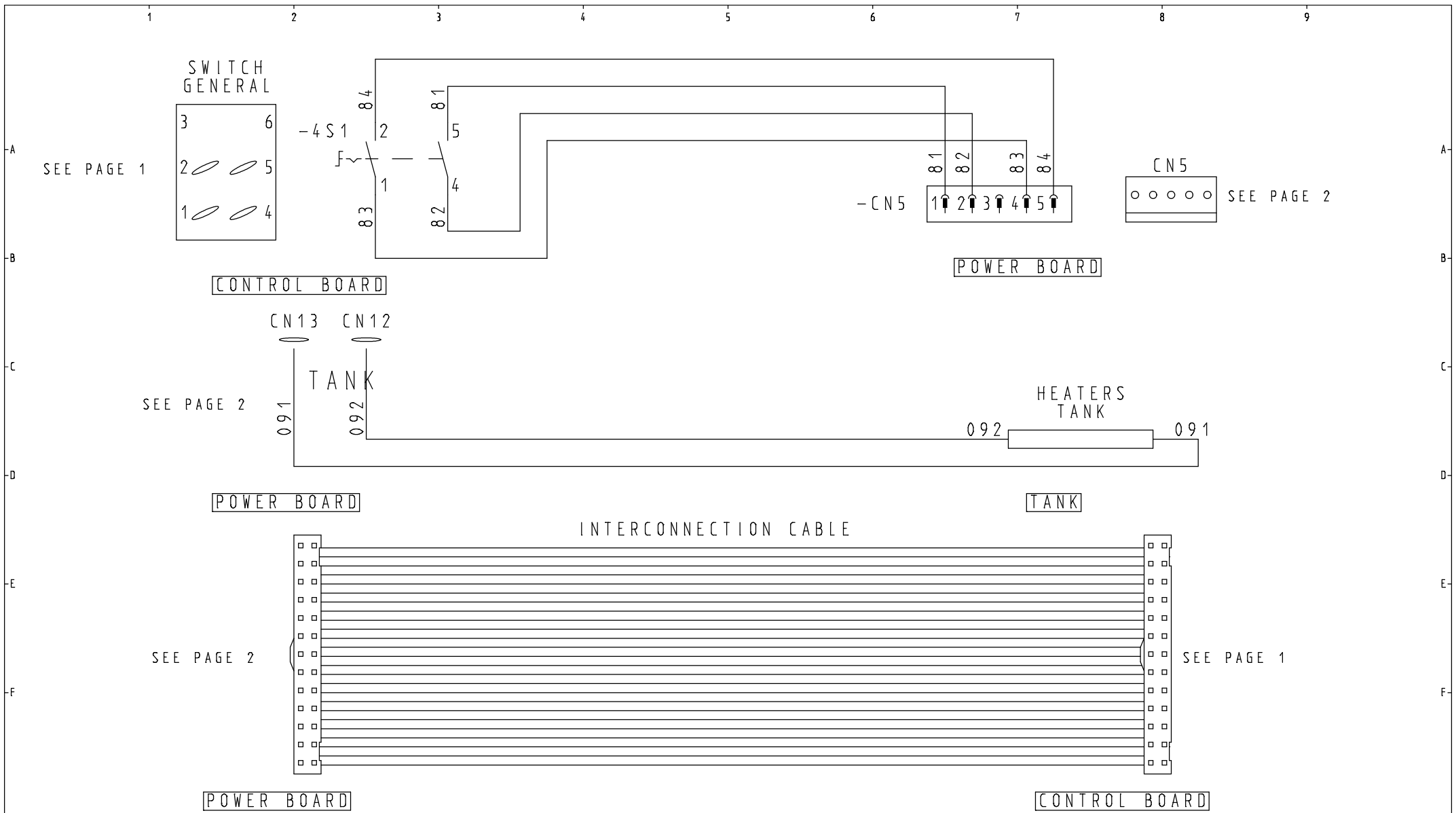


I 220V ONE-PHASE CONNECTION

III 220V THREE-PHASE CONNECTION

III 380V THREE-PHASE + NEUTRAL CONNECTION

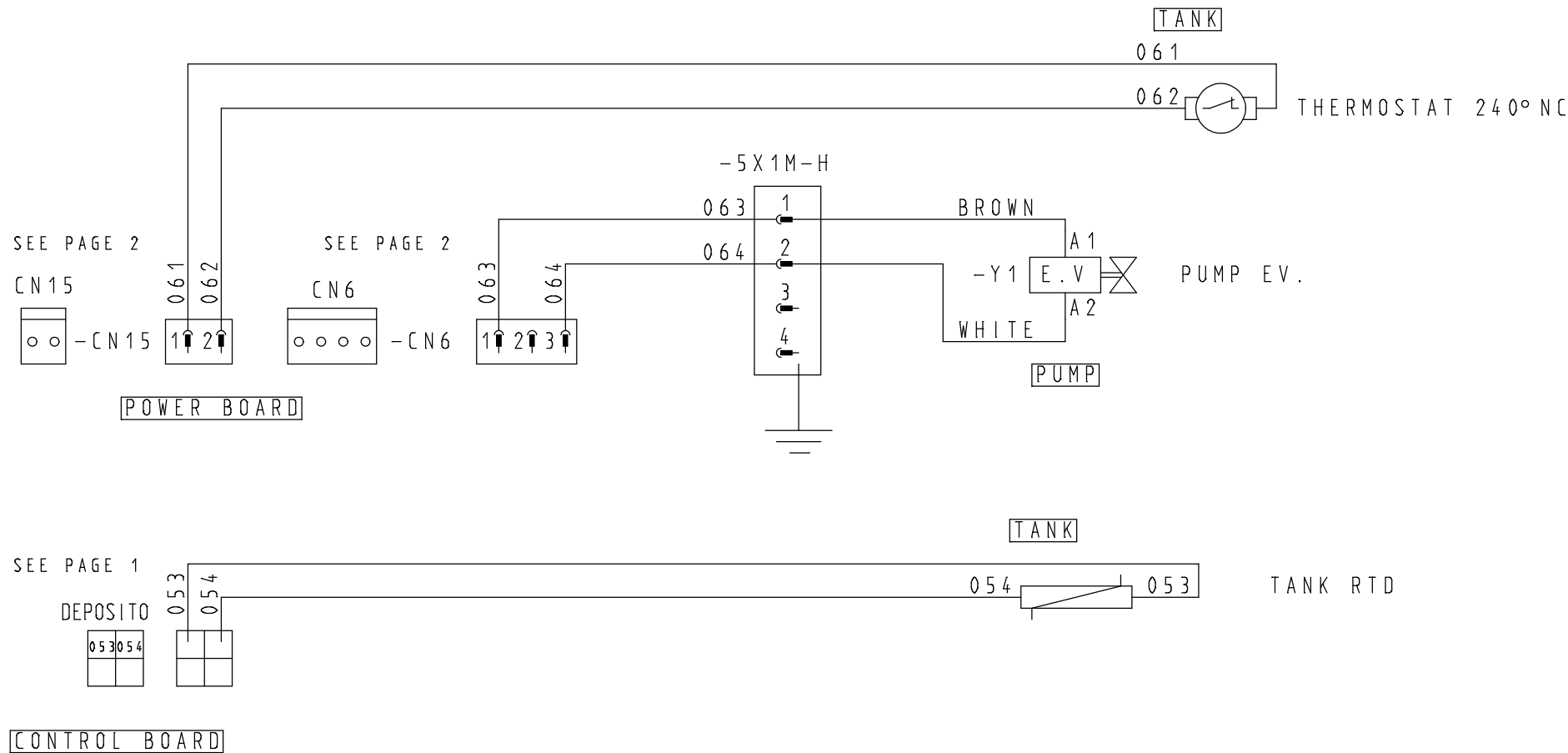
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MTL: "C" SERIES						
FINISH:		TOLERANCES - EXCEPT AS NOTED		TITLE		
REV:	BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	ALL DIMENSIONS IN MILLIMETERS		MAIN SUPPLY CONNECTION		
		MACHINED SURFACES	ANGULAR			
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	CHECKED F. CASEDAS	DECIMAL X.X		SCALE	S/E	S030320202
	APPROVED F. CASEDAS	DECIMAL X.XX		SHEET	3 OF	SUPERSEDES
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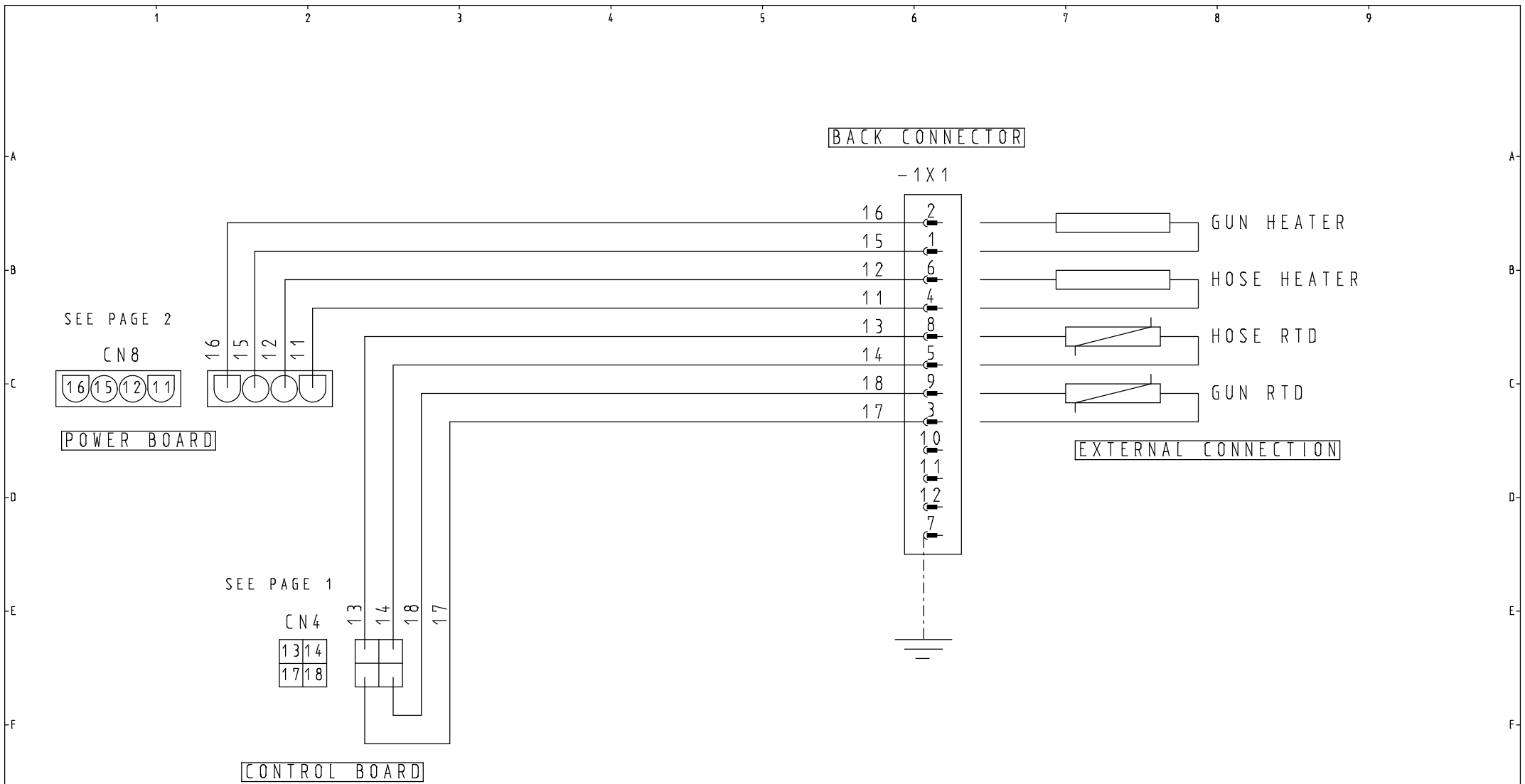
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MTL: "C" SERIES			TOLERANCES - EXCEPT AS NOTED	TITLE	
FINISH:		ALL DIMENSIONS IN MILLIMETERS		MAIN SWITCH TANK HEATERS INTERCONNECTION CABLE	
REV:	BREAK ALL SHARP EDGES & CORNERS DEBURRY UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR		
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	CHECKED F. CASEDAS	DECIMAL X.X	SCALE S/E	S030320202	
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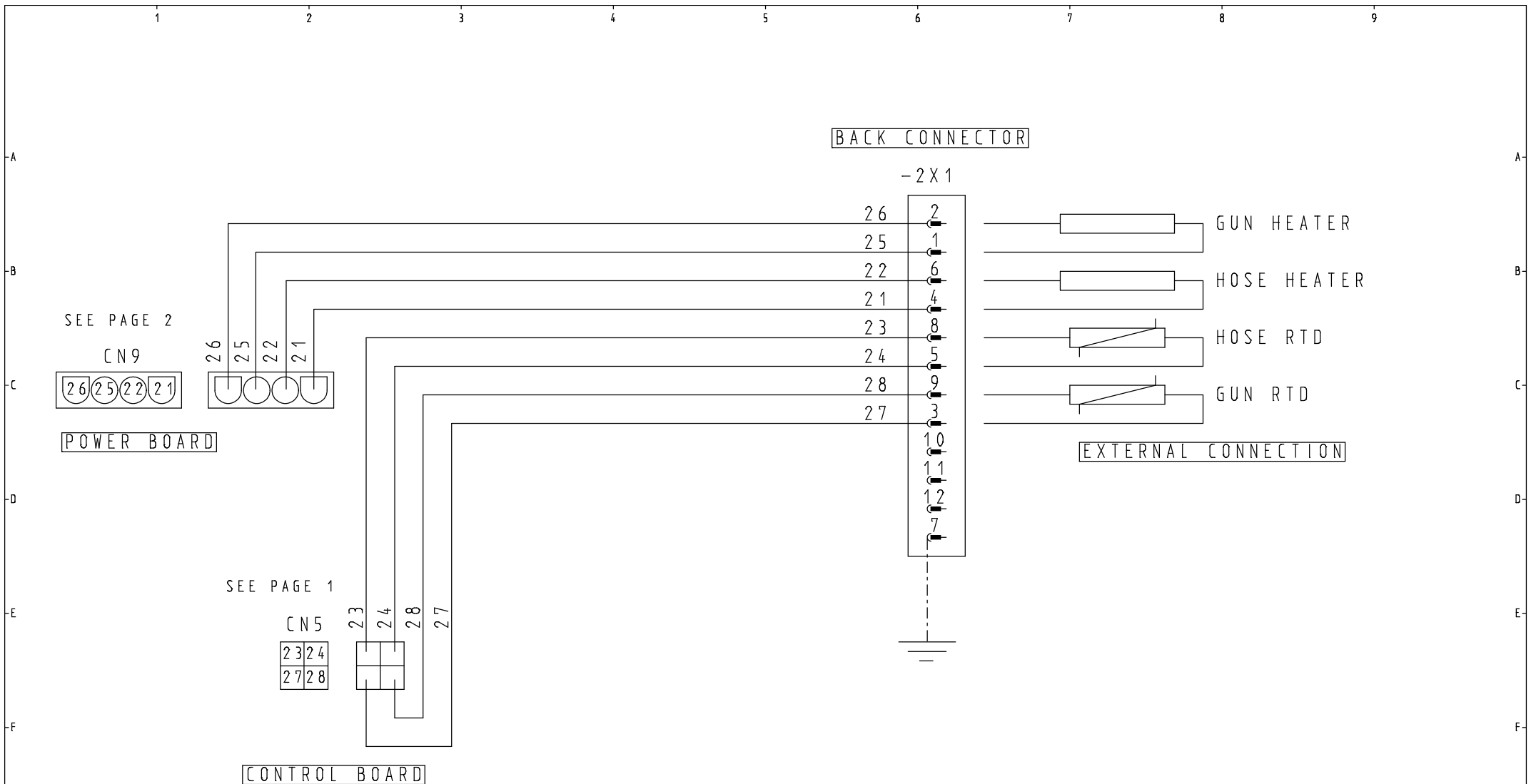
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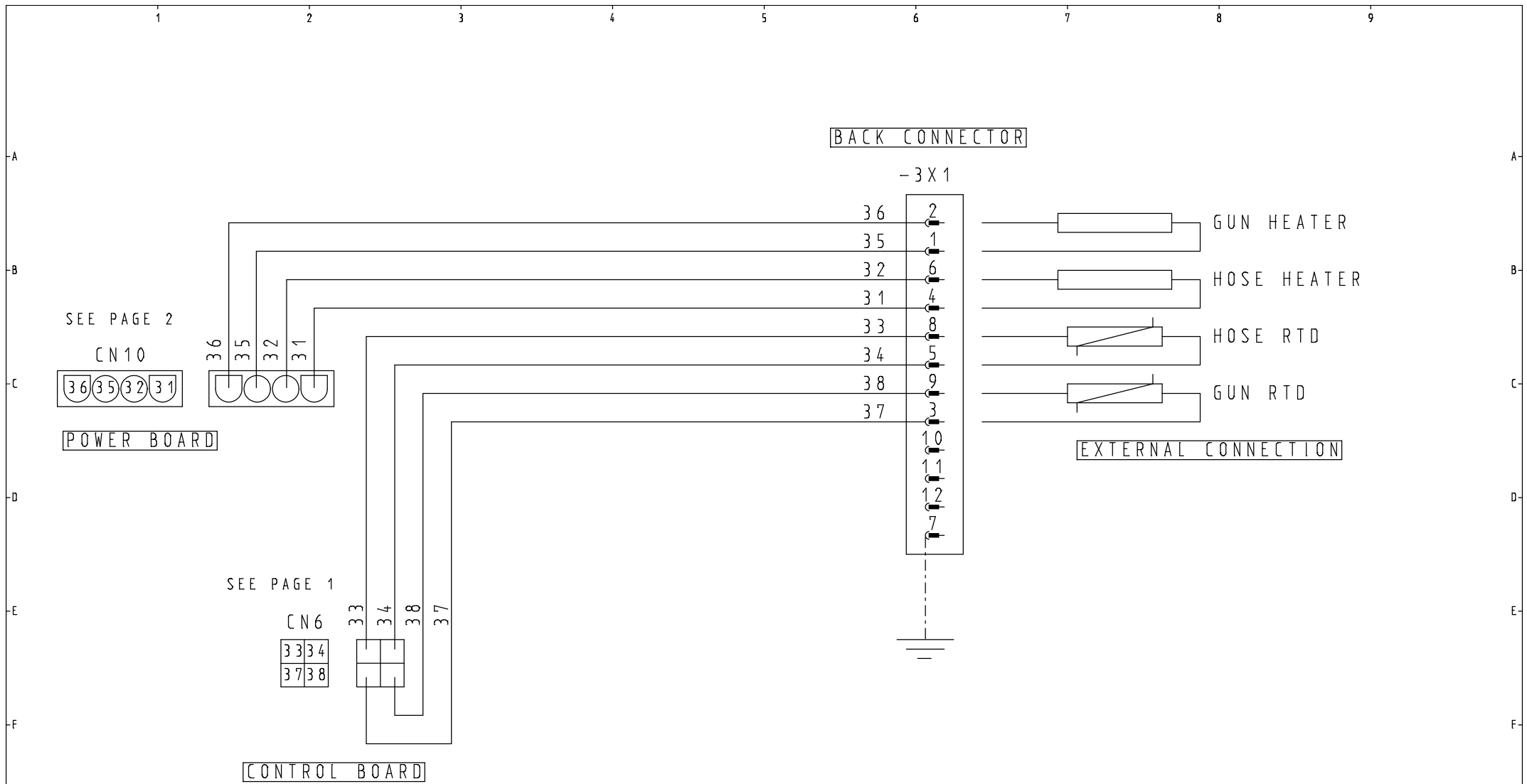
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MTL: "C" SERIES		TOLERANCES - EXCEPT AS NOTED		TITLE	
FINISH:		ALL DIMENSIONS IN MILLIMETERS		THERMOSTAT ELECTRIC VALVE RTD	
REV:	BREAK ALL SHARP EDGES & CORNERS TO DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR		
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					SUPERSEDED BY



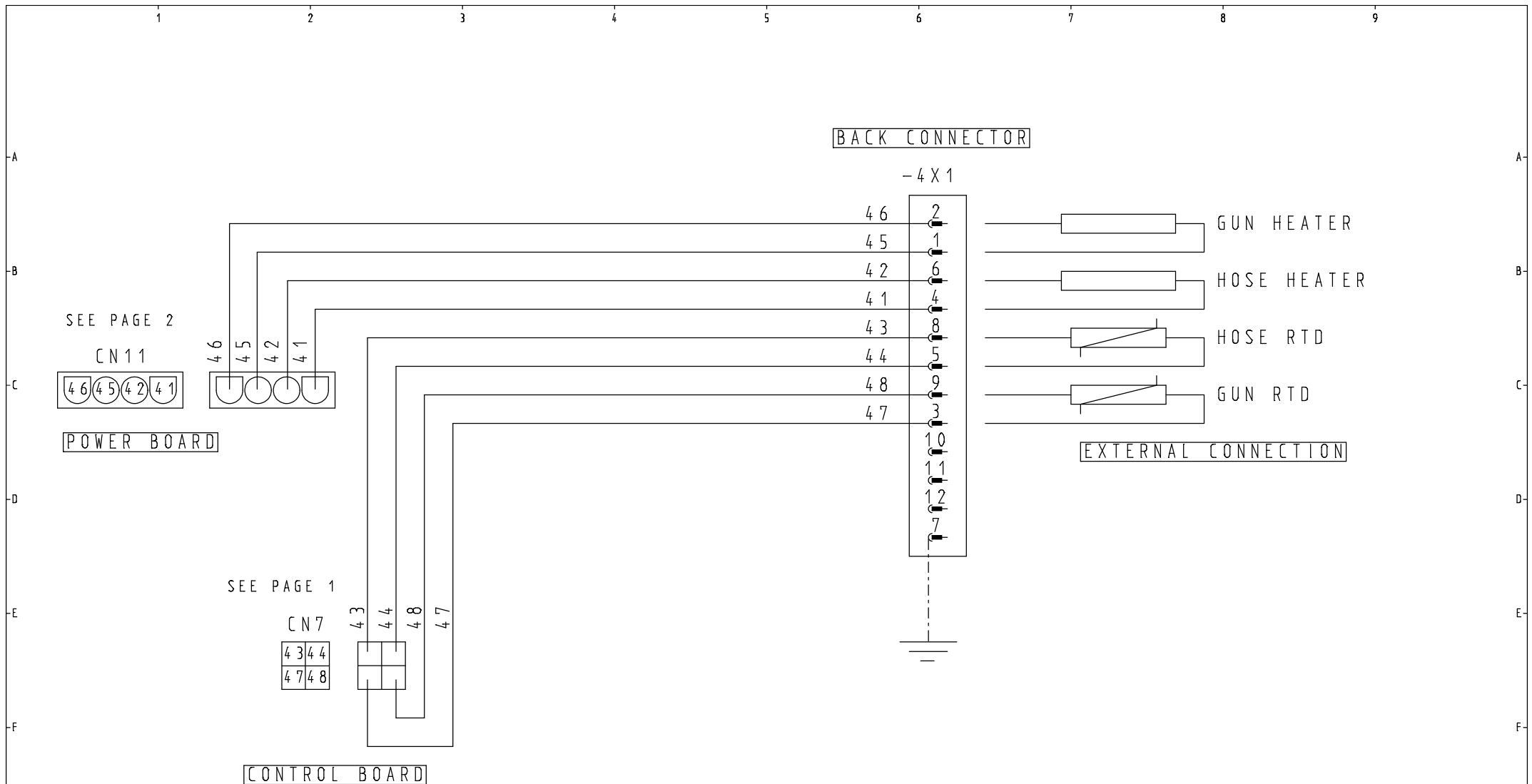
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MTL: "C" SERIES						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	TOLERANCES - EXCEPT AS NOTED		TITLE		
REV:		<small>ALL DIMENSIONS IN MILLIMETERS</small> MACHINED SURFACES <input checked="" type="checkbox"/> ANGULAR		HOSE-GUN 1 NI120 "C" SERIES		
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2007	DRAWING NUMBER S030320202		
	CHECKED F. CASEDAS	DECIMAL X.X	SCALE S/E			
	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 6 OF	SUPERSEDES		SUPERSEDED BY



USED ON:	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHANGED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTL: "C" SERIES						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	TOLERANCES - EXCEPT AS NOTED		TITLE HOSE-GUN 2 NI120 "C" SERIES		
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	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 7 OF	SUPERSEDED BY		

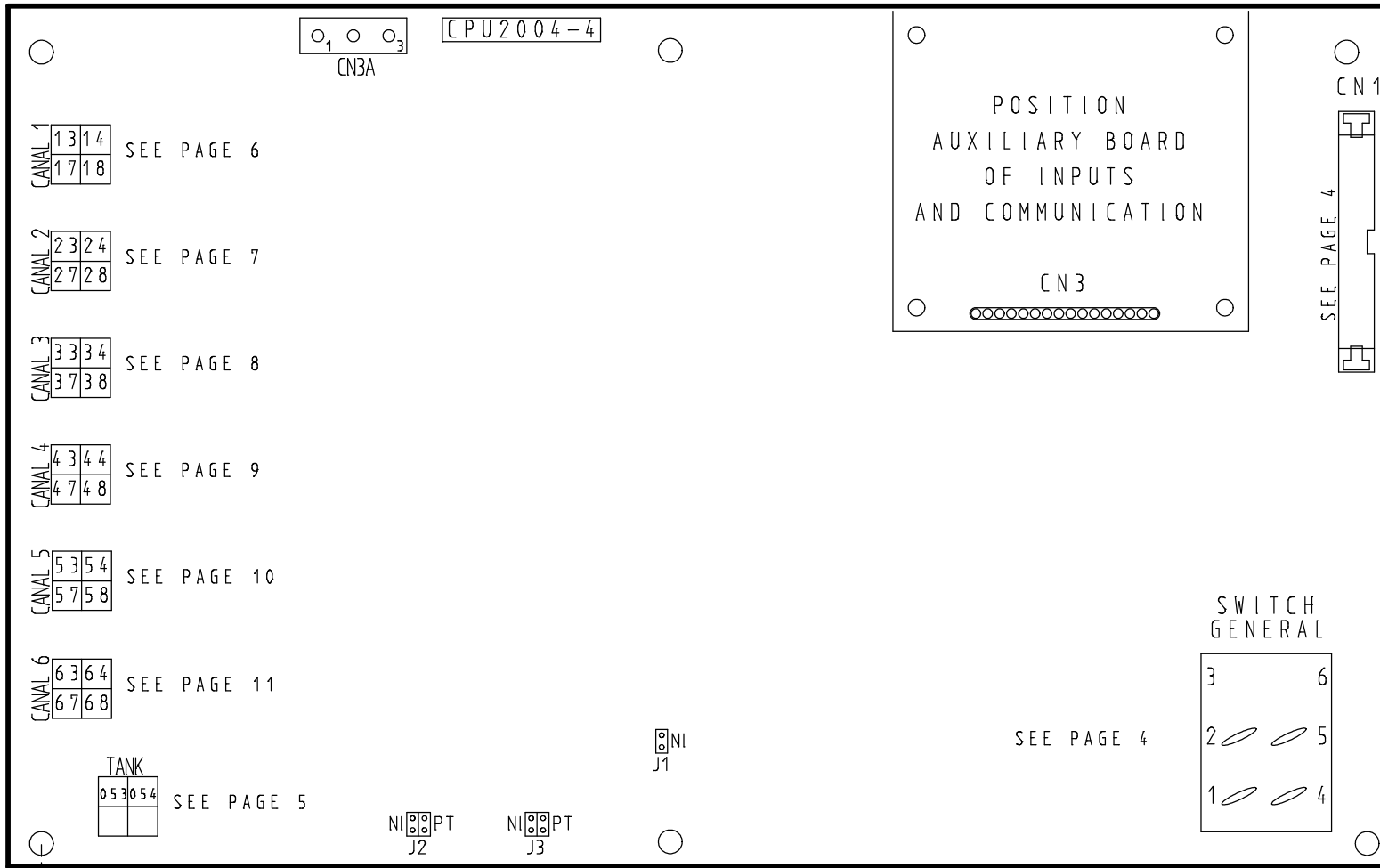


USED ON:	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHANGED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.		PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.		
MTL: "C" SERIES			TOLERANCES - EXCEPT AS NOTED	TITLE	
FINISH:		ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 3	
REV:	BREAK ALL SHARP EDGES & CORNERS DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR	N1120	
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 11/03/2008	DRAWING NUMBER
	CHECKED F. CASEDAS	DECIMAL X.X		SCALE S/E	S030320202
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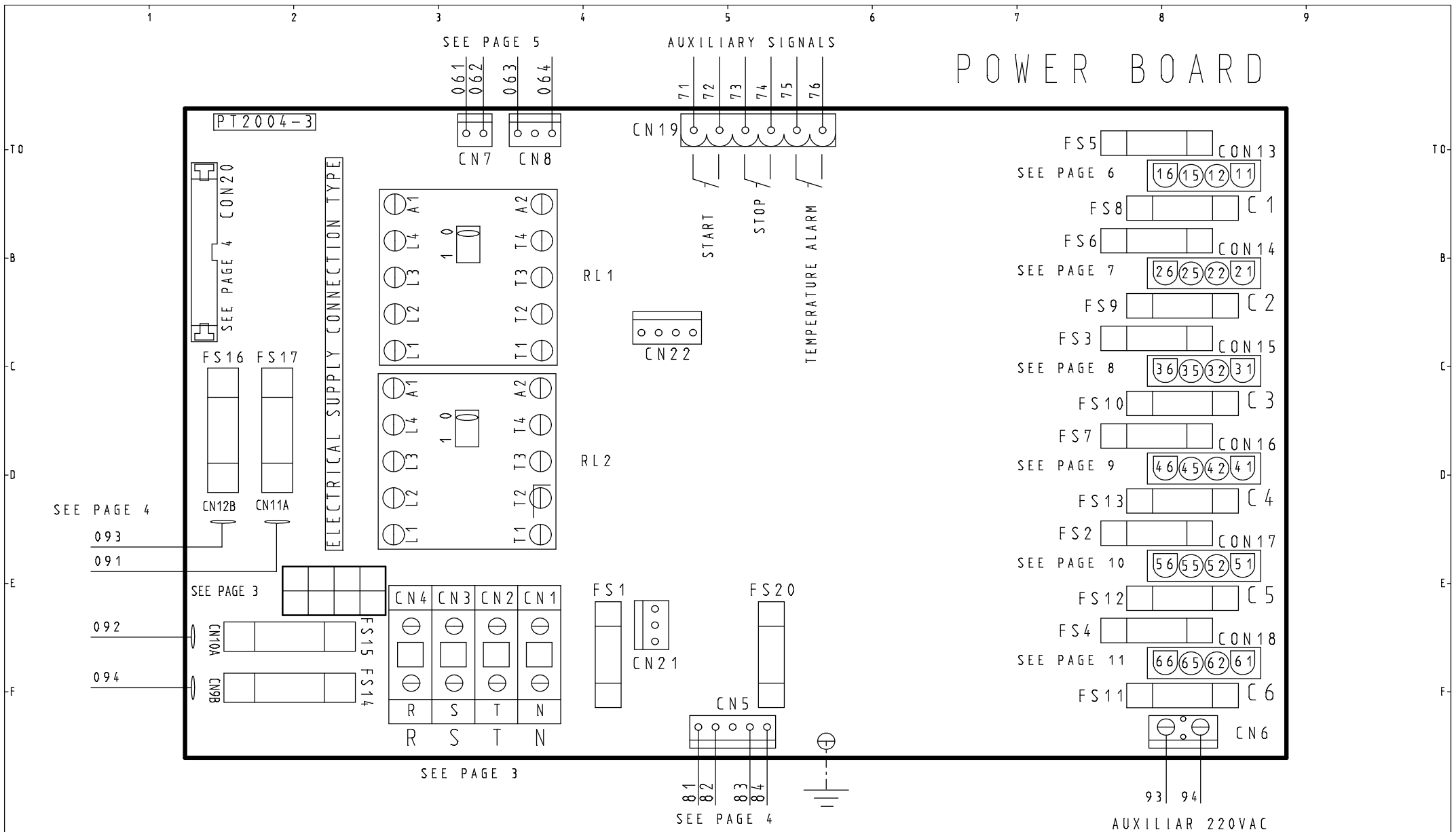


USED ON:	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHANGED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.		PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.		
MTL: "C" SERIES			TOLERANCES - EXCEPT AS NOTED		
FINISH:		ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 4 N1120 "C" SERIES	DRAWING NUMBER S030320202
REV:	BREAK ALL SHARP EDGES & CORNERS TO DEBURR UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES	ANGULAR		
	DRAWN BY F. CASEDAS	DECIMAL X.		SCALE S/E	SHEET 9 OF
	CHECKED F. CASEDAS	DECIMAL X.X			SUPERSEDES
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CONTROL BOARD

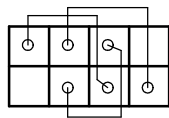


USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>	
MTI: CONTROL BOARD		<small>TOLERANCES - EXCEPT AS NOTED</small> <small>ALL DIMENSIONS IN MILLIMETERS</small>			
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/> <small>ANGULAR</small>		<small>DRAWING NUMBER</small> S030350202	
REV:		<small>DRAWN BY</small> F. CASEDAS <small>DECIMAL</small> X. <small>CHECKED</small> <small>DECIMAL</small> X.X <small>APPROVED</small> F. CASEDAS <small>DECIMAL</small> X.XX			



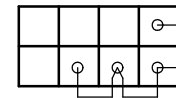
USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: POWER BOARD						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		BOARD POWER COMPATIBLE DRAWING NUMBER S030350202		
REV:		MACHINED SURFACES	ANGULAR			
		DRAWN BY F. CASEDAS	DECIMAL X.			
	CHECKED	DECIMAL X.X	SCALE S/E	SUPERSEDES		
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SEE PAGE 2

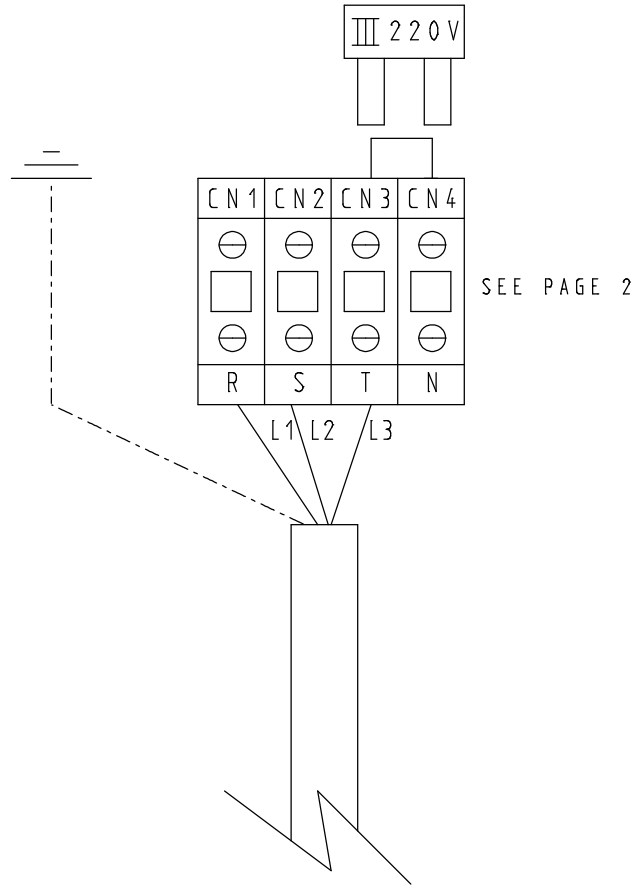


III 220V THREE-PHASE CONNECTION

SEE PAGE 2

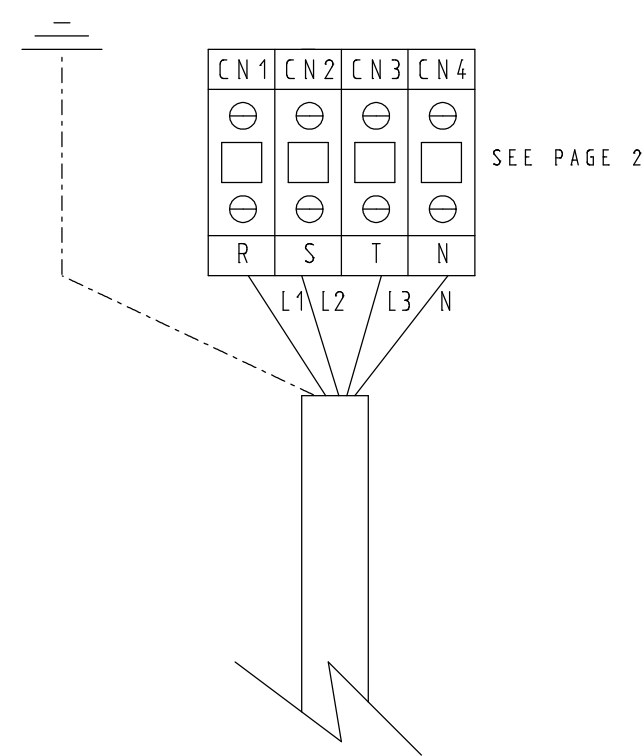


III 380V THREE-PHASE + NEUTRAL CONNECTION



SEE PAGE 2

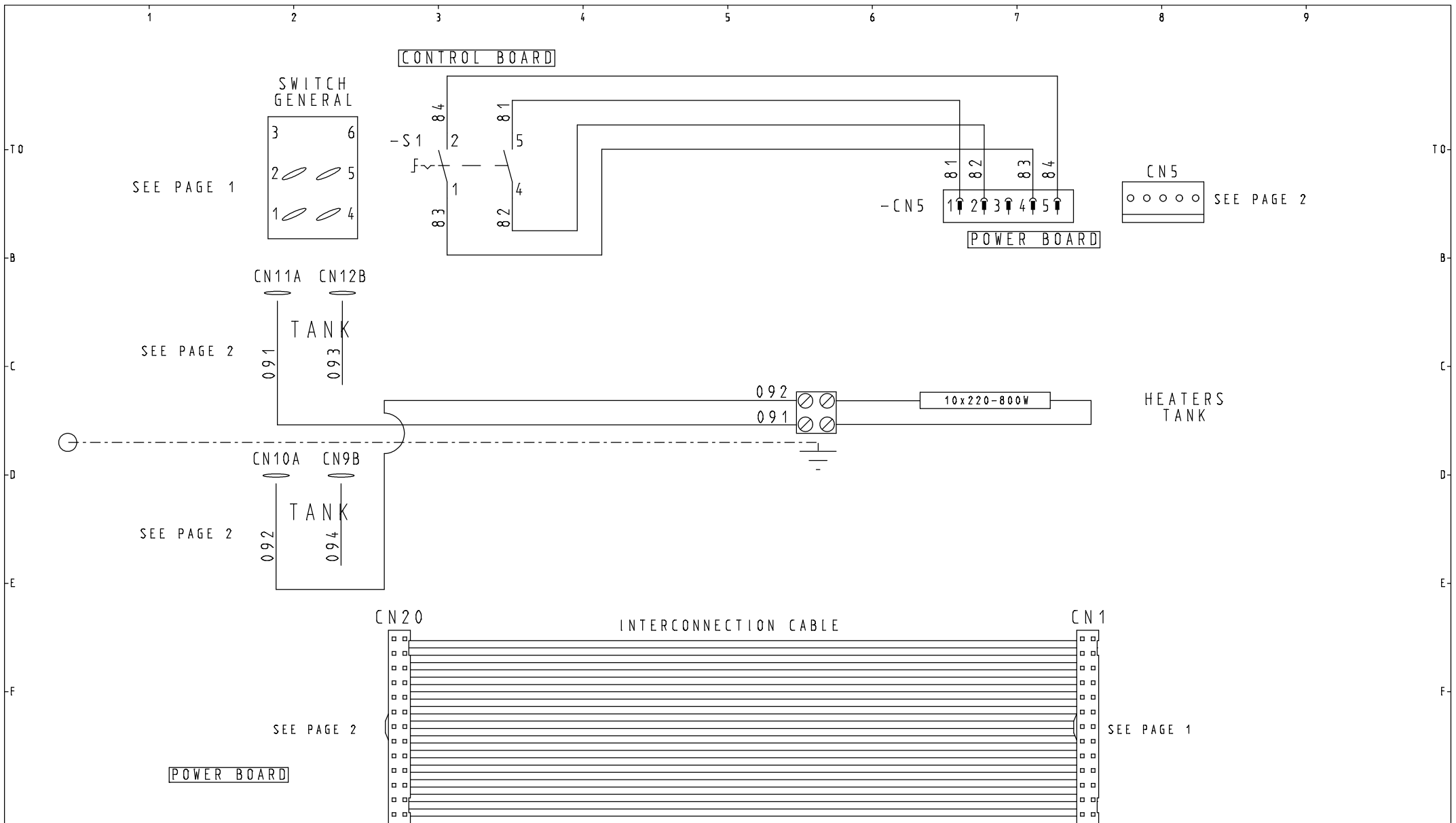
III 220V THREE-PHASE CONNECTION



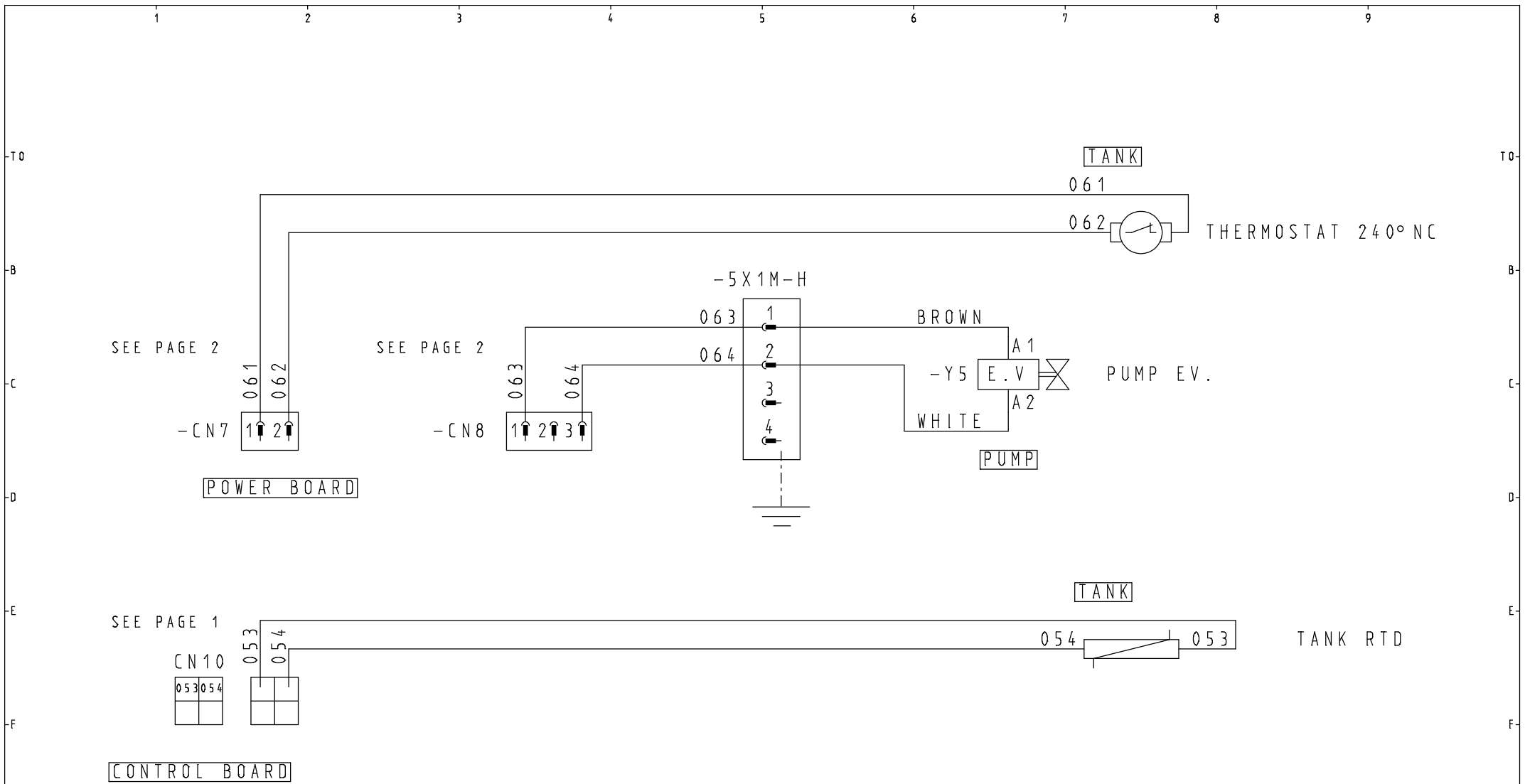
SEE PAGE 2

III 380V THREE-PHASE + NEUTRAL CONNECTION

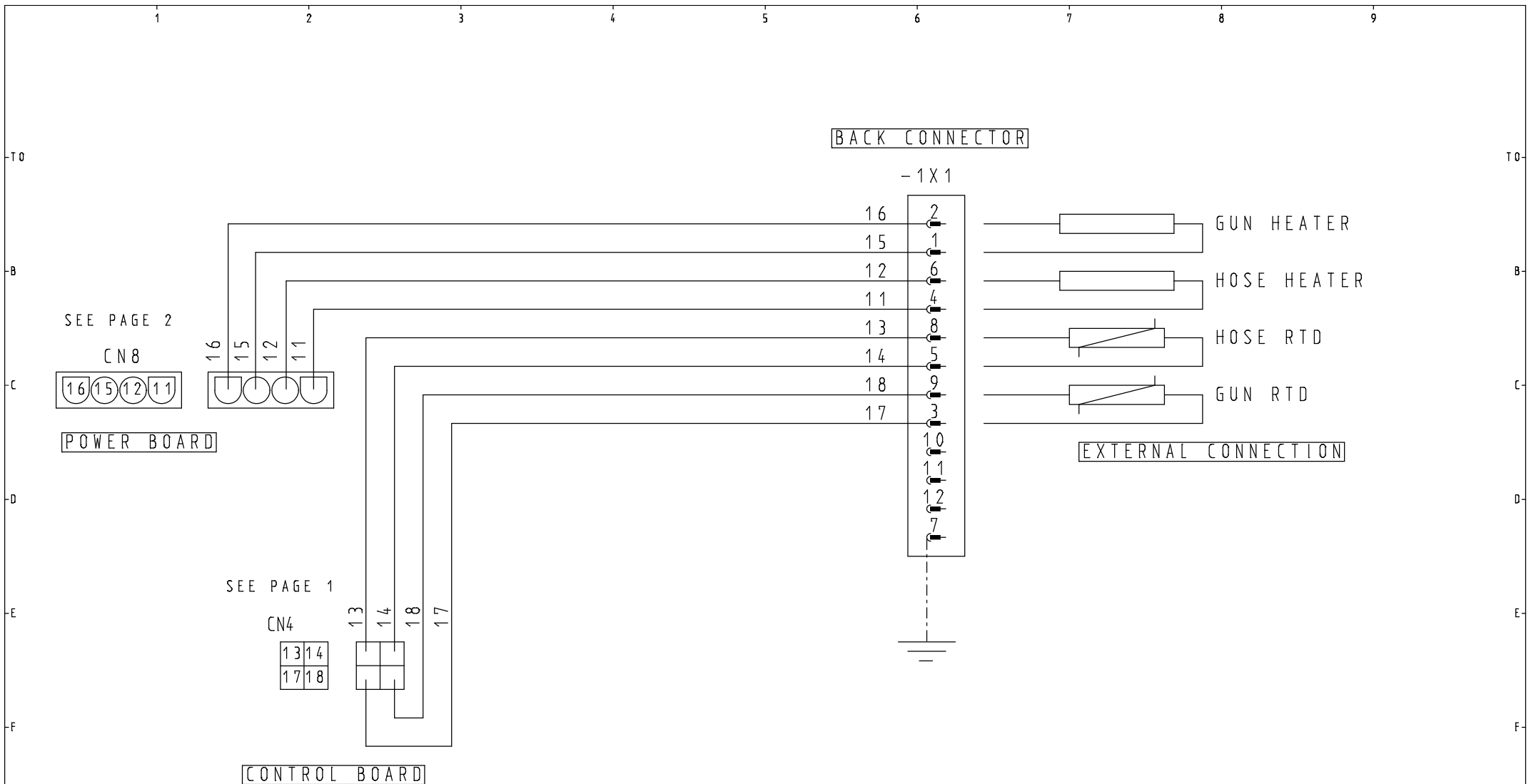
USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>	
MTI: SERVICE WIRES					
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	TOLERANCES - EXCEPT AS NOTED		TITLE	
REV:		<small>ALL DIMENSIONS IN MILLIMETERS</small> MACHINED SURFACES <input checked="" type="checkbox"/> ANGULAR		SERVICE WIRES THREE-PHASES III 380V - III 400V / III 480V	
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030350202	
	CHECKED	DECIMAL X.X	SCALE S/E		
	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 3 OF 12	SUPERSEDES	SUPERSEDED BY



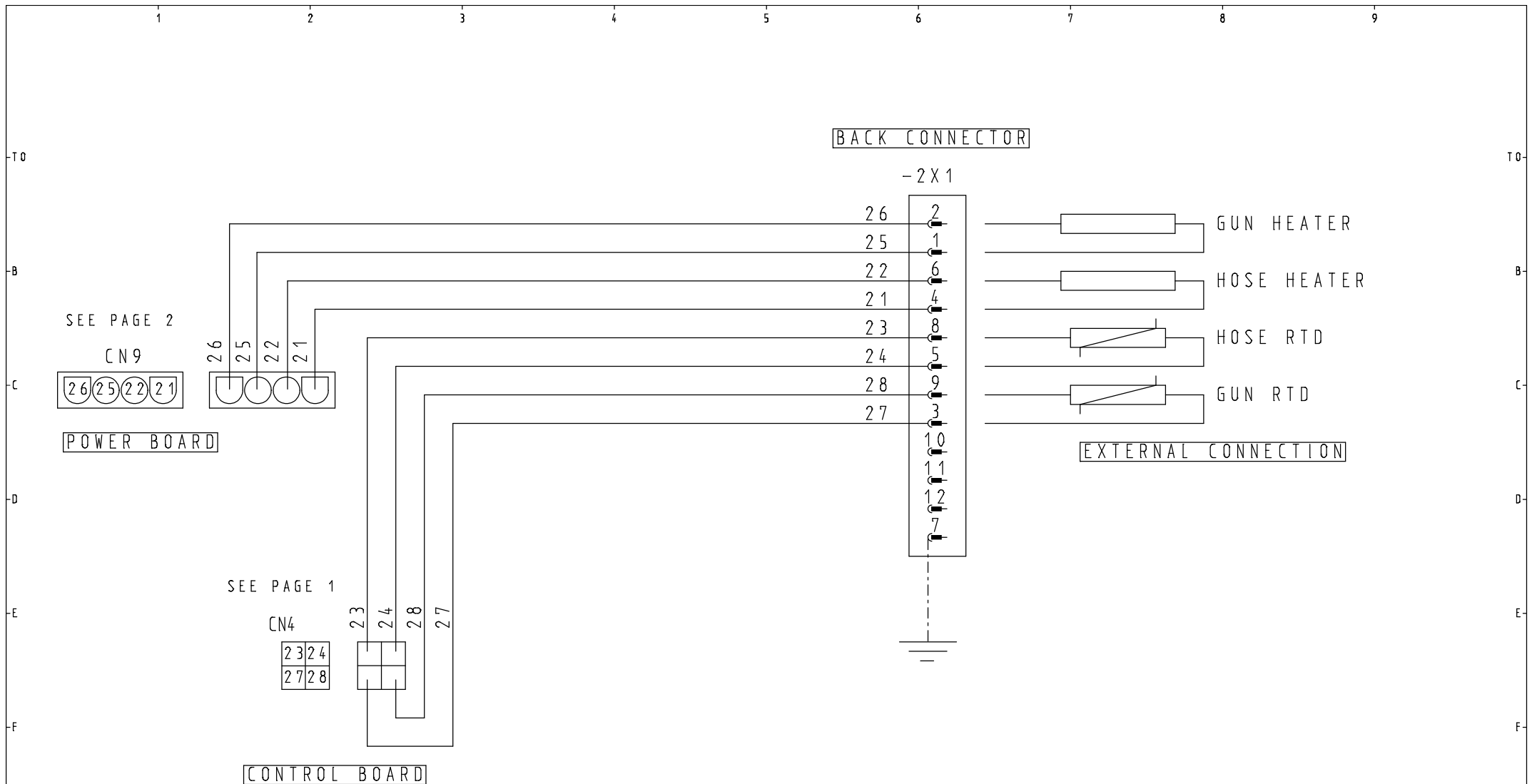
USED ON: "C" SERIES			PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.	
MTI: INTERCONNECTION				
FINISH:		TOLERANCES - EXCEPT AS NOTED		
REV:		ALL DIMENSIONS IN MILLIMETERS		TITLE MAIN SWITCH TANK HEATERS INTERCONNECTION CABLE
		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR	
DRAWN BY F. CASEDAS		DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030350202
CHECKED		DECIMAL X.X	SCALE S/E	
APPROVED F. CASEDAS		DECIMAL X.XX	SHEET 4 OF 12	SUPERSEDES
				SUPERSEDED BY



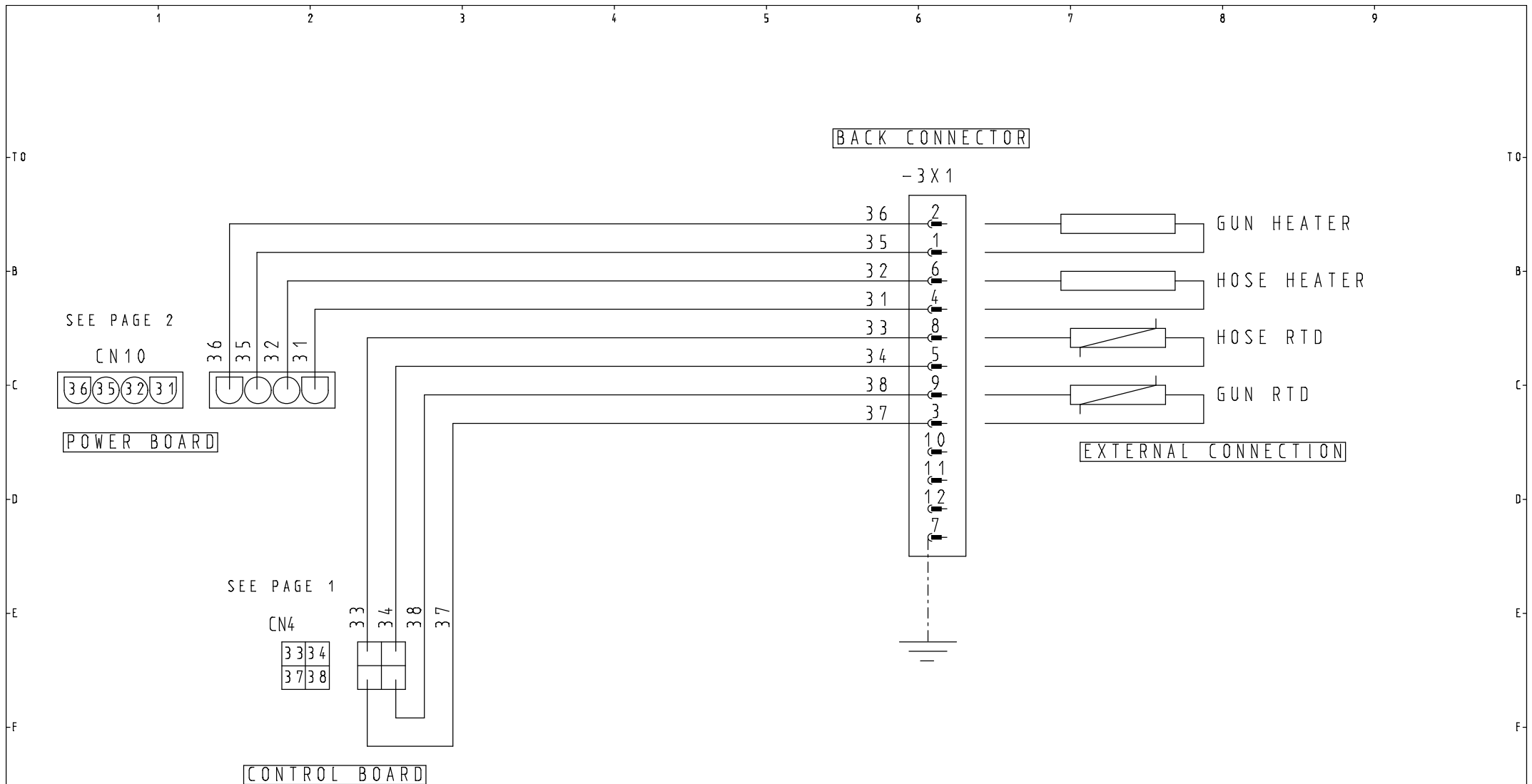
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MTI: ELECTRICVALVE SONDE		TOLERANCES - EXCEPT AS NOTED		TITLE THERMOSTAT ELECTRICVALVE RTD	
FINISH:		ALL DIMENSIONS IN MILLIMETERS			
REV:	BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)	MACHINED SURFACES	ANGULAR		
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 11/03/2008	DRAWING NUMBER S030350202
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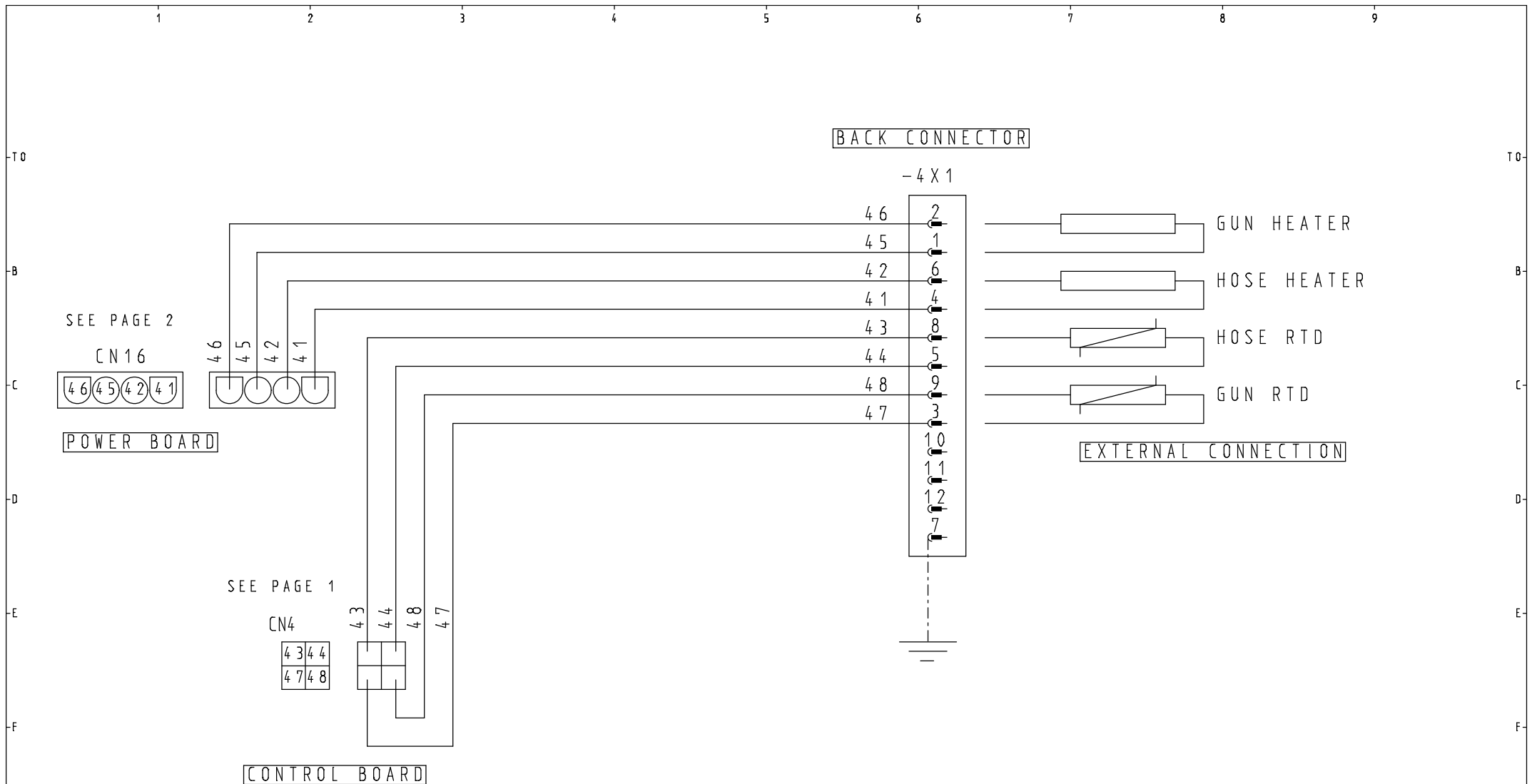
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MTI: CHANNEL 1N1						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 1 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030350202		
	CHECKED	DECIMAL X.X	SCALE S/E			
	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 6 OF 12	SUPERSEDES		SUPERSEDED BY



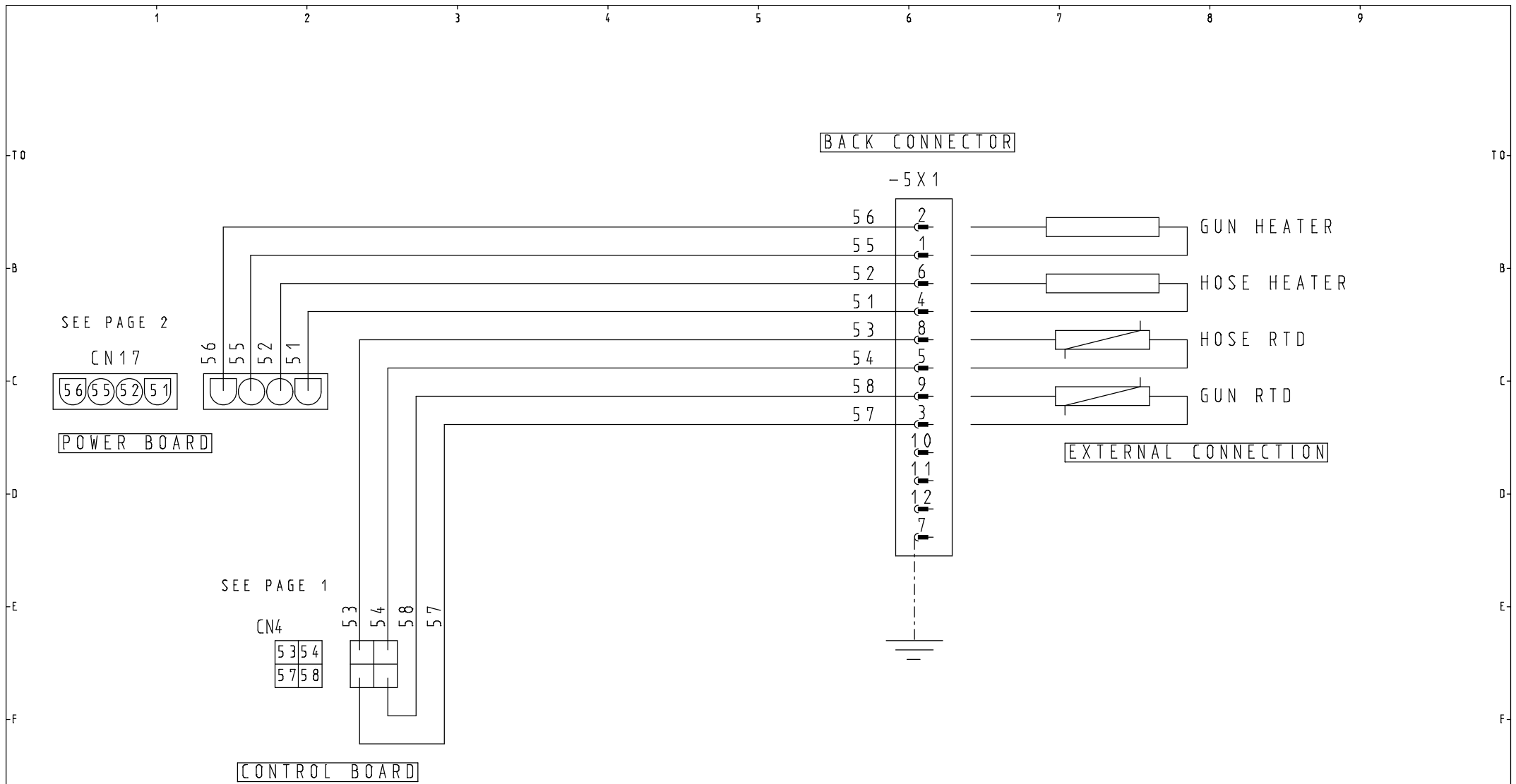
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MTI: CHANNEL2NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 2 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030350202		
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	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 7 OF 12	SUPERSEDES		SUPERSEDED BY



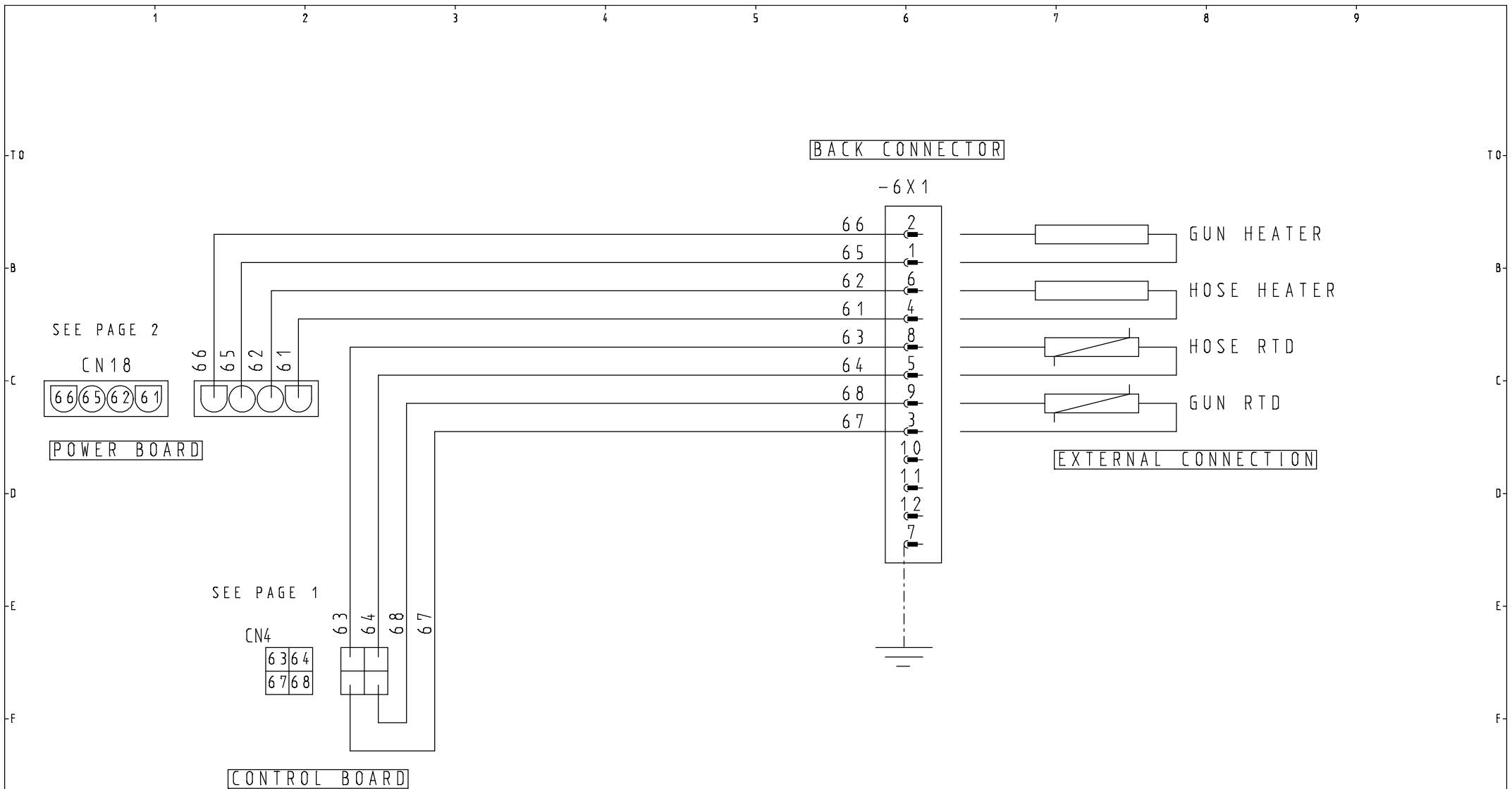
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MTI: CHANNEL 3NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS DEBURRI UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 3 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
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	CHECKED	DECIMAL X.X	SCALE S/E	SHEET 8 OF 12		
	APPROVED F. CASEDAS	DECIMAL X.XX		SUPERSEDES		SUPERSEDED BY



USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD UNLESS TO BE CHANGED OR ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNEL4NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 4 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030350202		
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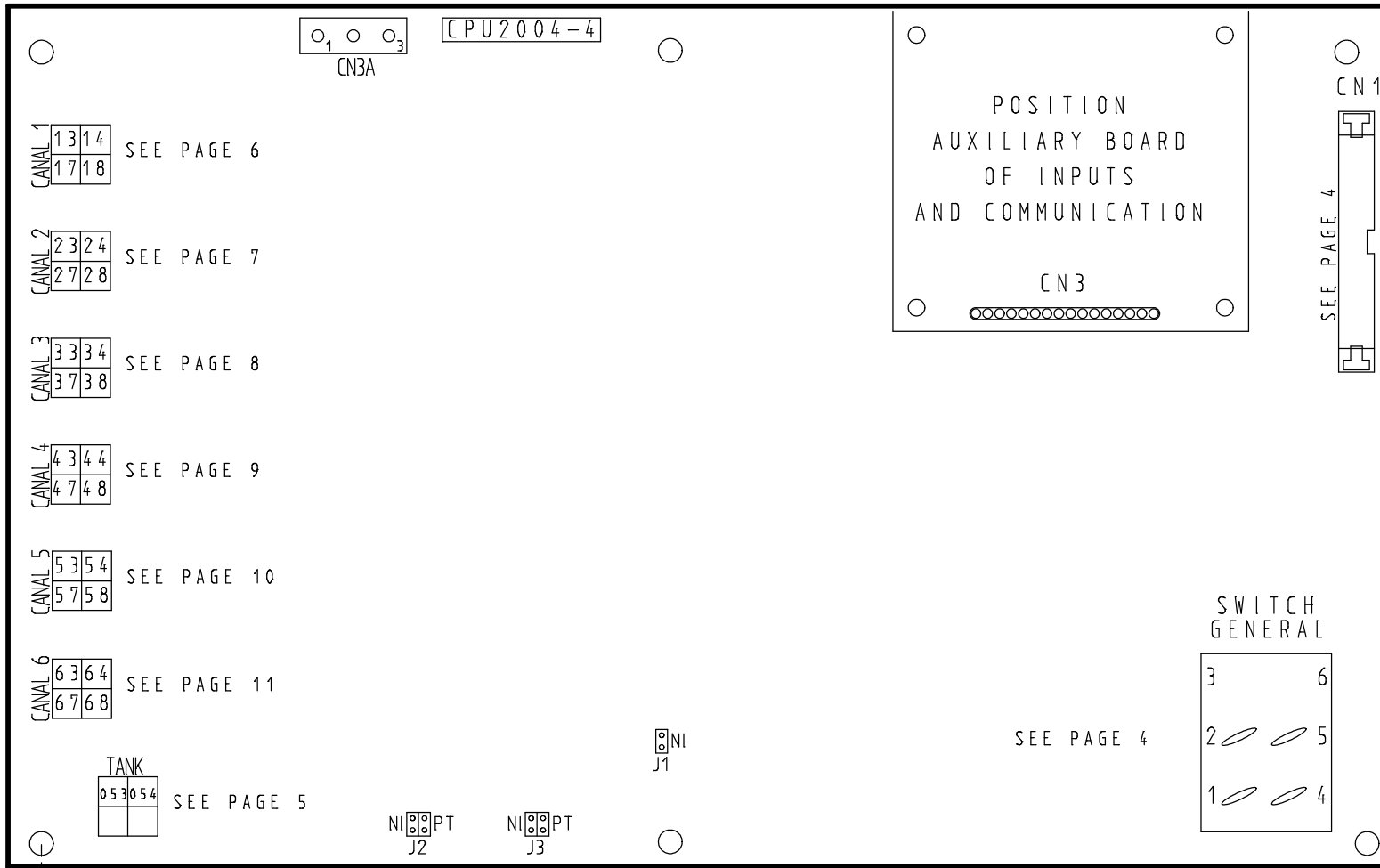


USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD UNLESS TO BE CHAMFERED OR THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNELSNI		<small>TOLERANCES - EXCEPT AS NOTED</small>		<small>TITLE</small> HOSE-GUN 5 NI120 COMPATIBLE EQUIP		
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	<small>ALL DIMENSIONS IN MILLIMETERS</small>		<small>DRAWING NUMBER</small> S030350202		
REV:		<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/>	<small>ANGULAR</small>			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 13/03/2008	<small>SCALE</small> S/E		
	CHECKED	DECIMAL X.X	SHEET 10 OF 12			
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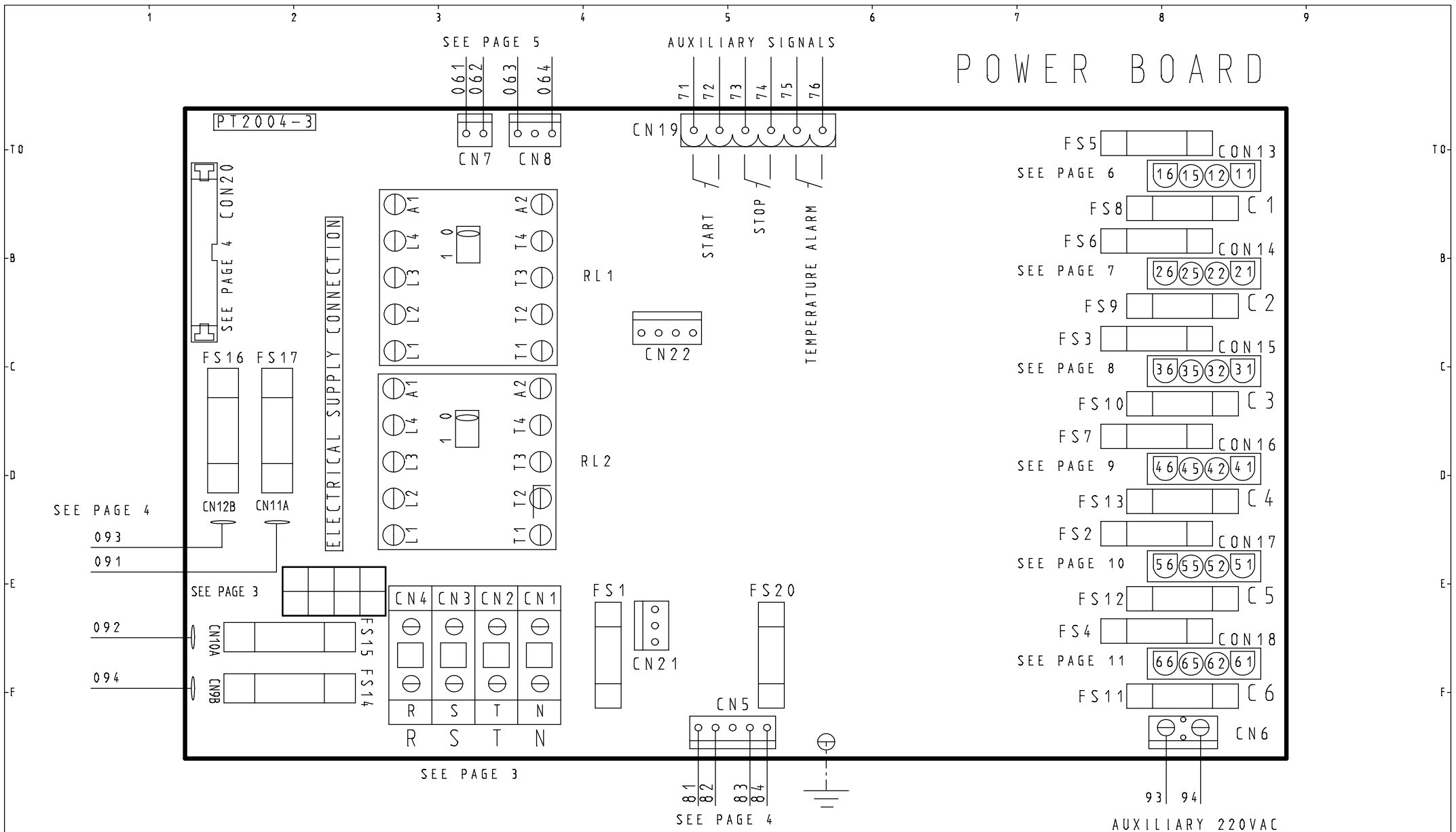


USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNEL6NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 6 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
DRAWN BY	F. CASEDAS	DECIMAL	X.	DATE	11/03/2008	DRAWING NUMBER
CHECKED		DECIMAL	X.X	SCALE	S/E	S030350202
APPROVED	F. CASEDAS	DECIMAL	X.XX	SHEET	11 OF 12	SUPERSEDES
						SUPERSEDED BY

CONTROL BOARD

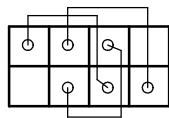


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MTI: CONTROL BOARD					
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	<small>ALL DIMENSIONS IN MILLIMETERS</small>		<small>BOARD CONTROL COMPATIBLE</small>	
REV:		<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/>	<small>ANGULAR</small>	<small>DRAWING NUMBER</small>	
	<small>DRAWN BY</small> F. CASEDAS	<small>DECIMAL</small> X.	<small>DATE</small> 11/03/2008	<small>S030400202</small>	
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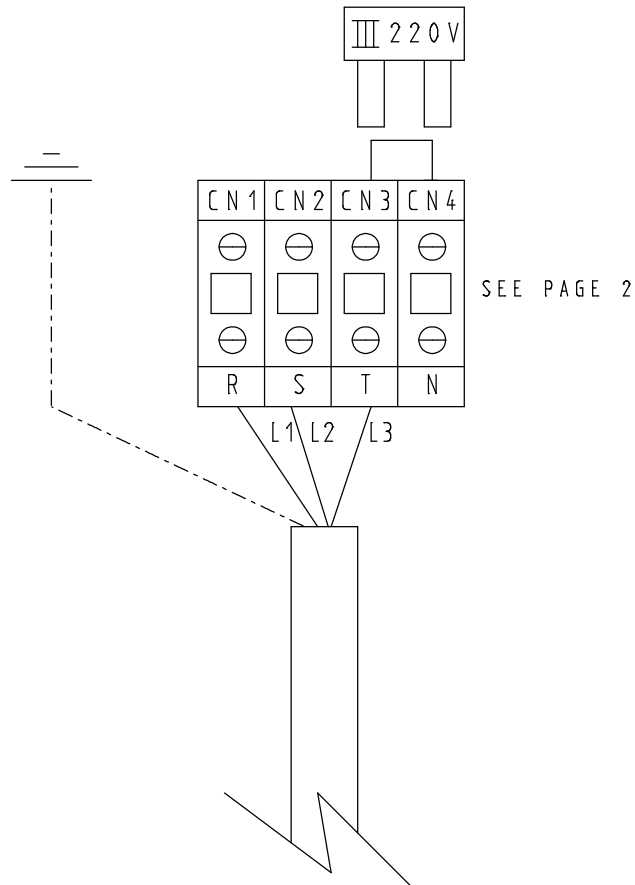


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MTI: POWER BOARD		TOLERANCES - EXCEPT AS NOTED			
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		BOARD POWER COMPATIBLE	DRAWING NUMBER S030400202
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR		
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 11/03/2008	SHEET 2 OF 12
	CHECKED	DECIMAL X.X		SCALE S/E	SUPERSEDES
	APPROVED F. CASEDAS	DECIMAL X.XX		SHEET 2 OF 12	SUPERSEDED BY

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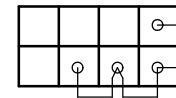


III 220V THREE-PHASE CONNECTION

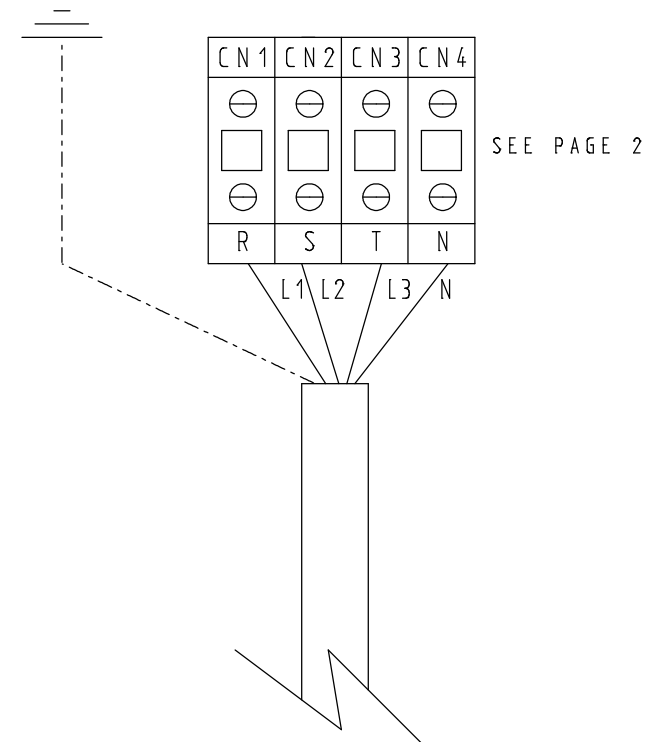


III 220V THREE-PHASE CONNECTION

SEE PAGE 2

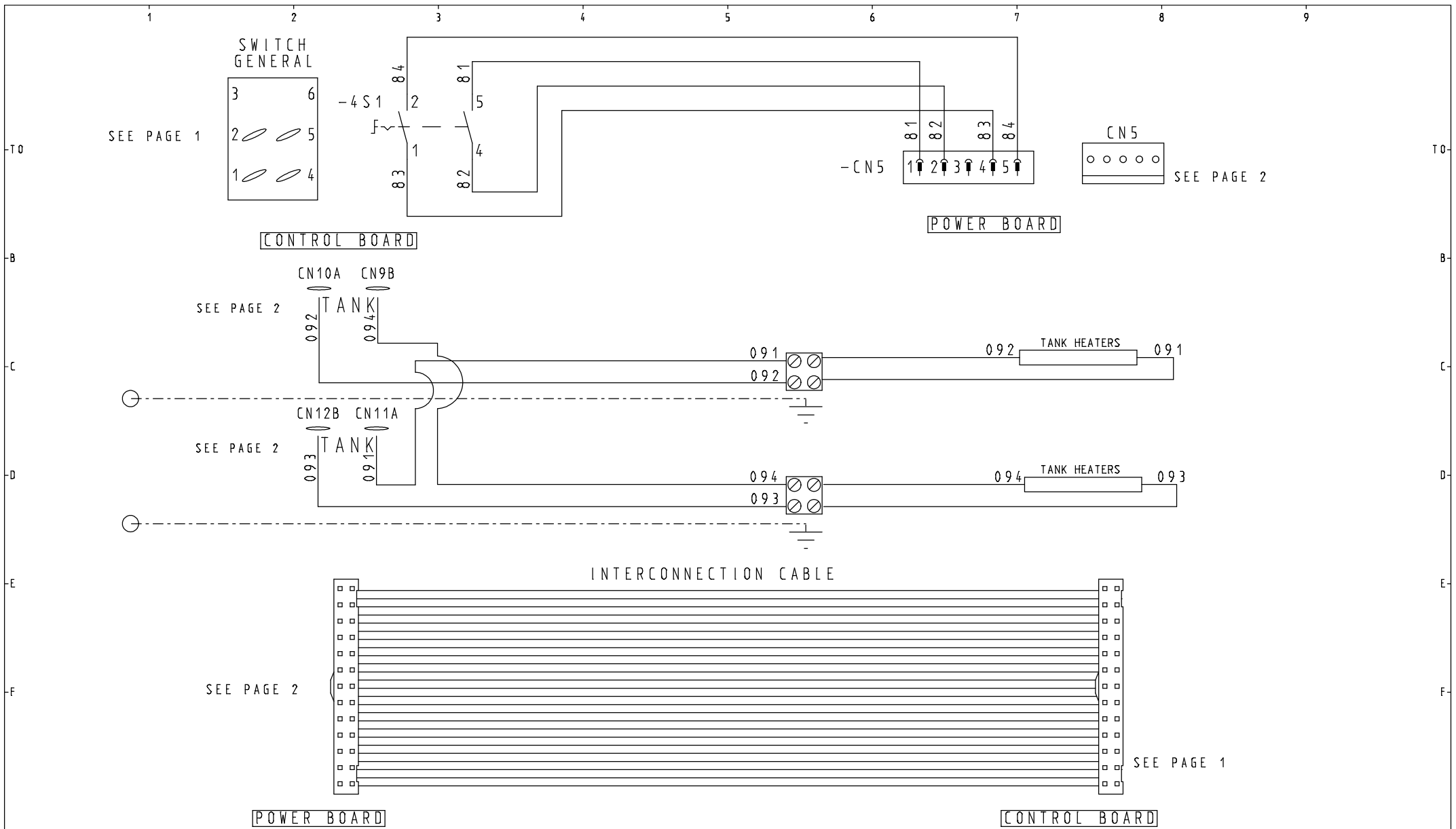


III 380V THREE-PHASE + NEUTRAL CONNECTION

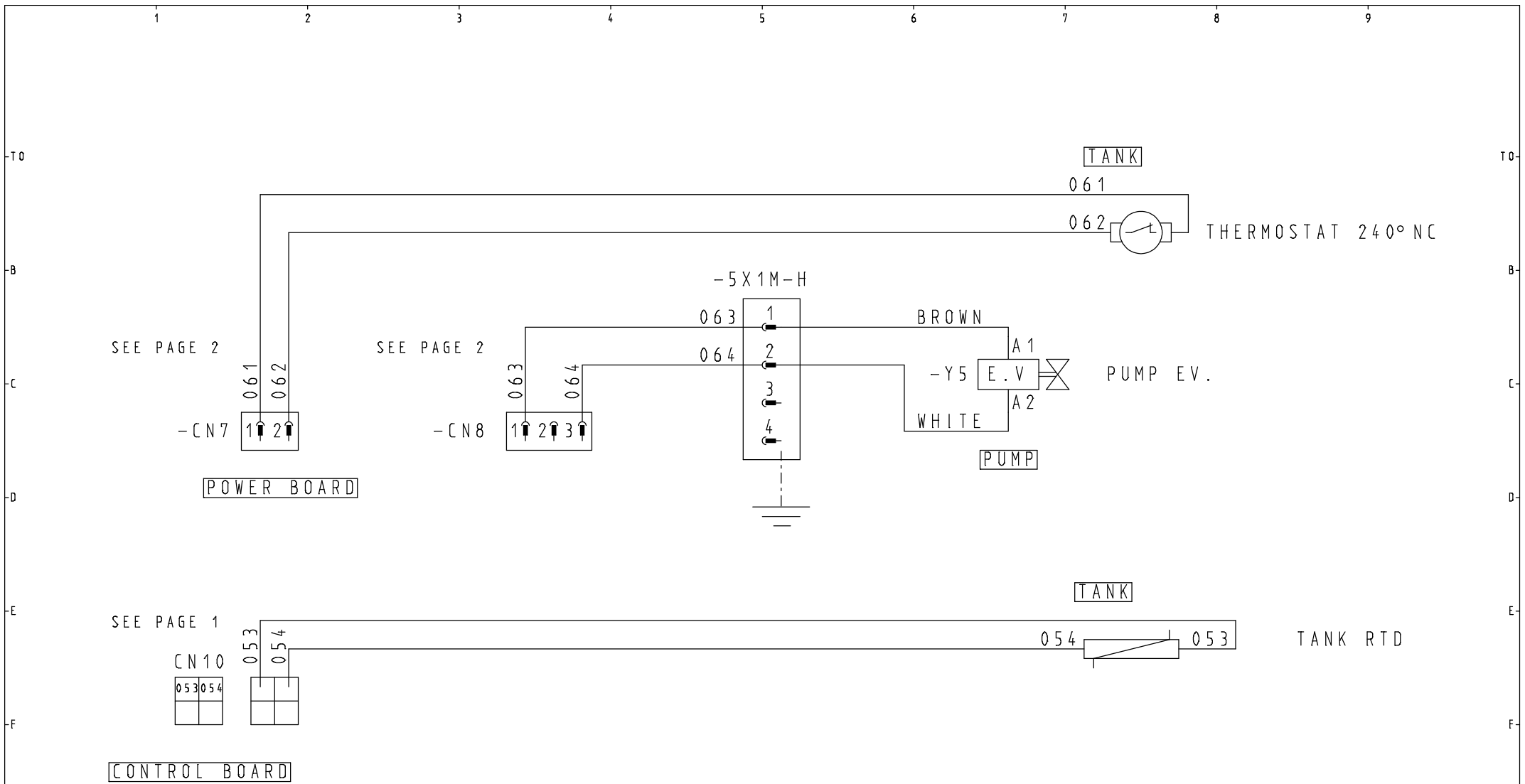


III 380V THREE-PHASE + NEUTRAL CONNECTION

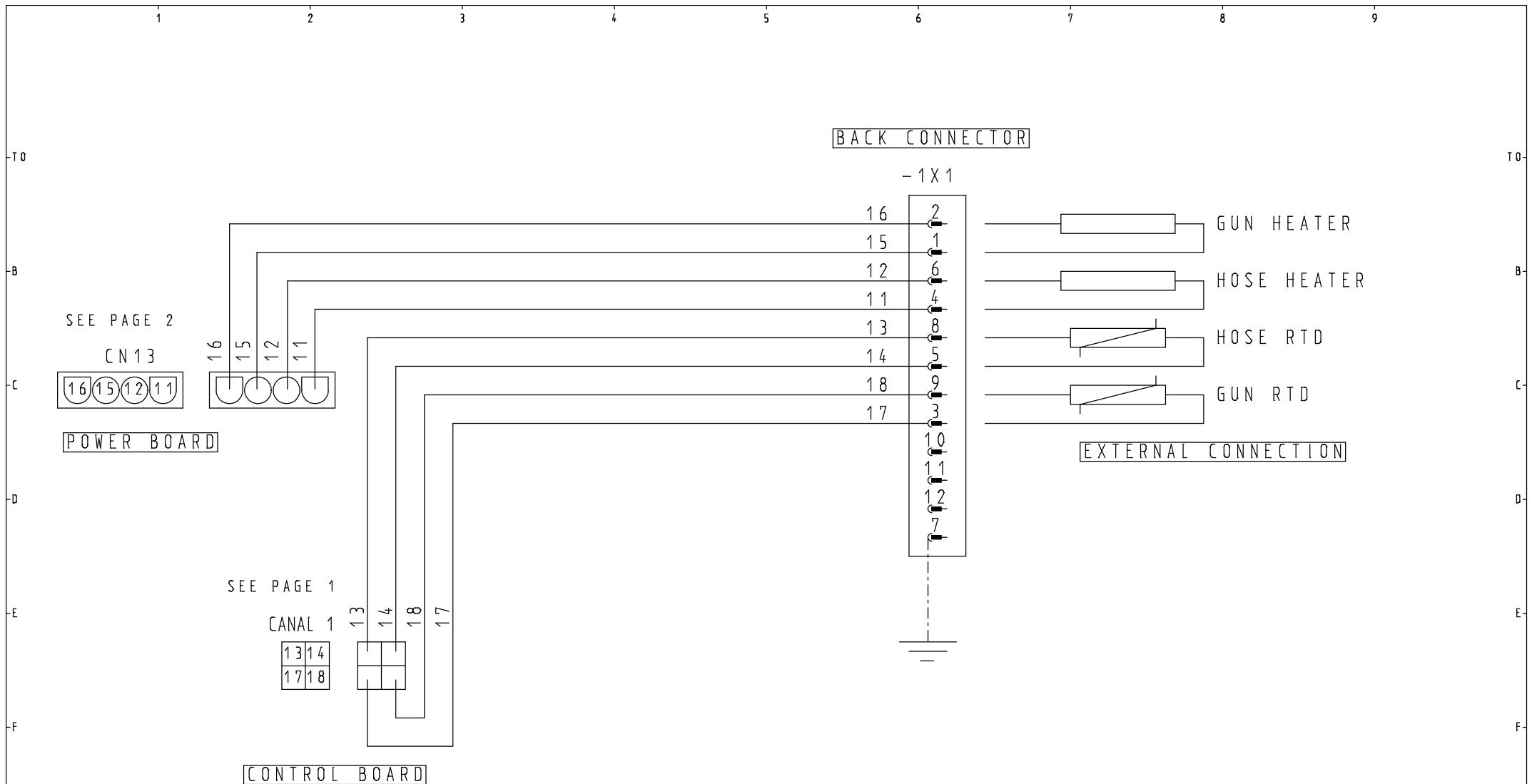
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MTI: SERVICE WIRES					
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	TOLERANCES - EXCEPT AS NOTED		TITLE	
REV:		<small>ALL DIMENSIONS IN MILLIMETERS</small> MACHINED SURFACES <input checked="" type="checkbox"/> ANGULAR		SERVICE WIRES THREE-PHASES III 380V - III 400V / III 480V	
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030400202	
	CHECKED	DECIMAL X.X	SCALE S/E		
	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 3 OF 12	SUPERSEDES	SUPERSEDED BY



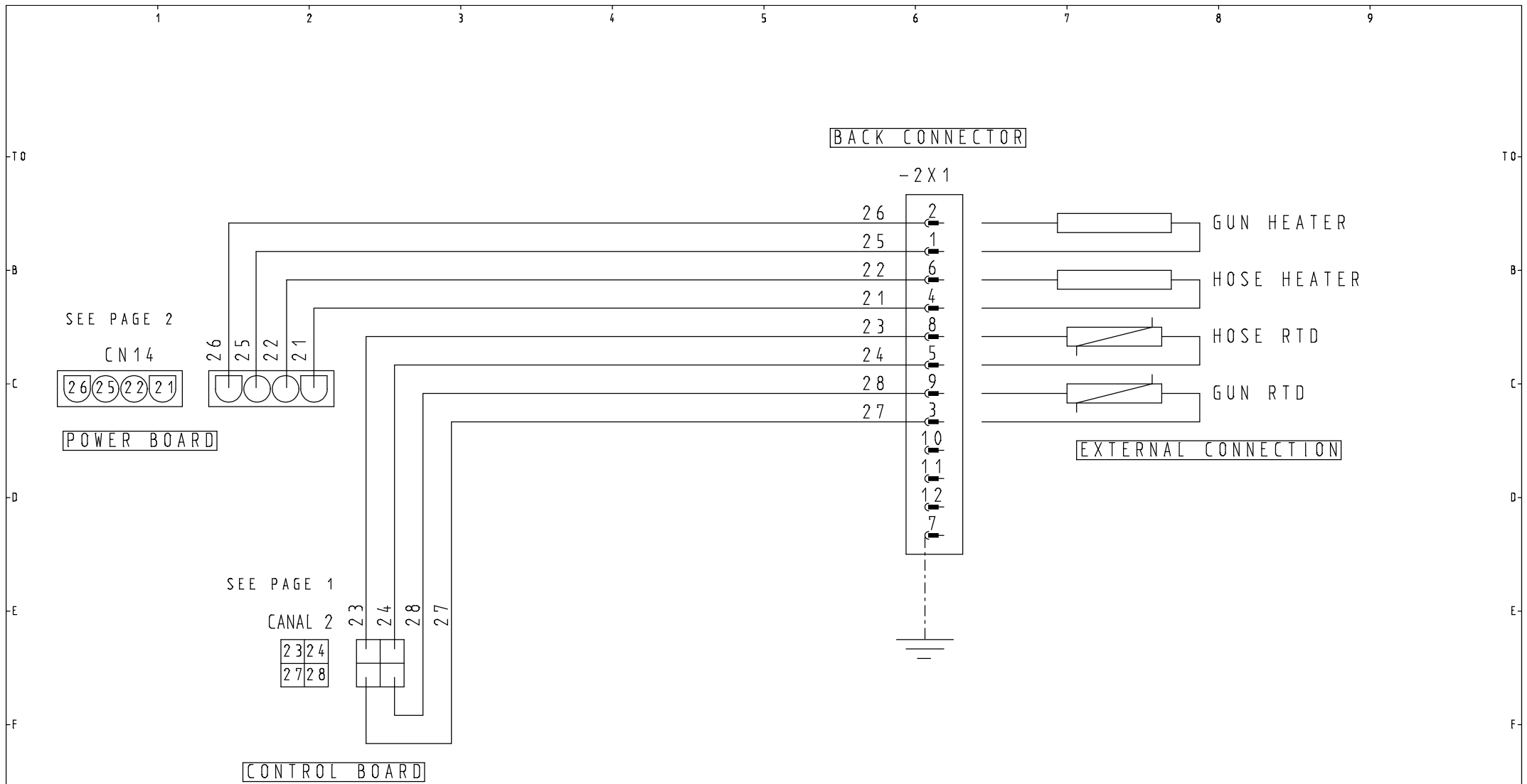
USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>	
MTI: INTERCONNECTION					
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	<small>ALL DIMENSIONS IN MILLIMETERS</small>		<small>TITLE</small> MAIN SWITCH TANK HEATERS INTERCONNECTION CABLE	
REV:		<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/>	<small>ANGULAR</small>	<small>DATE</small> 11/03/2008	<small>DRAWING NUMBER</small> S030400202
		<small>DRAWN BY</small> F. CASEDAS	<small>DECIMAL</small> X.	<small>SCALE</small> S/E	<small>SHEET</small> 4 <small>OF</small> 12
	<small>CHECKED</small>	<small>DECIMAL</small> X.X	<small>SUPERSEDES</small>	<small>SUPERSEDED BY</small>	
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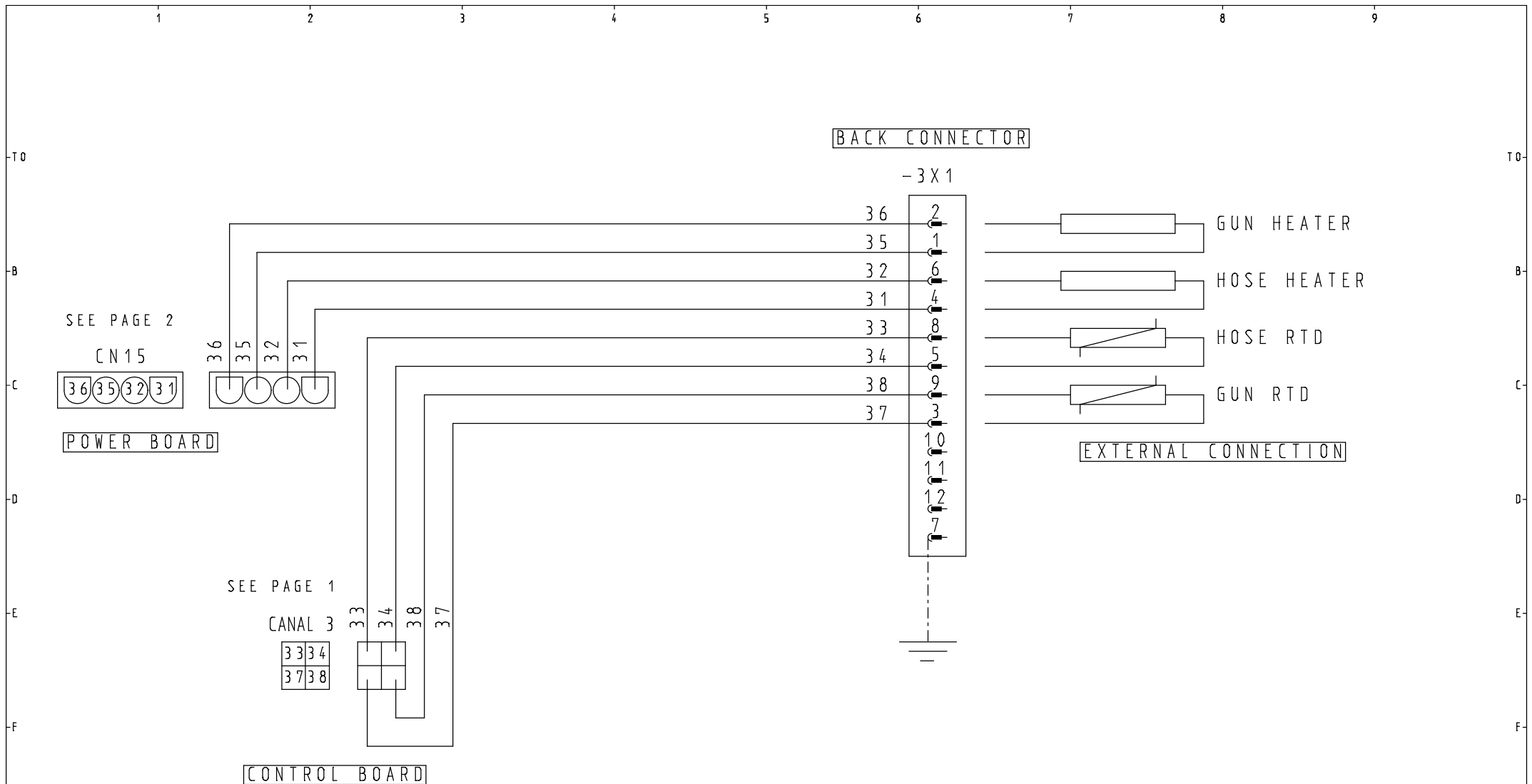
USED ON: "C" SERIES			PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.		
MTI: ELECTRICVALVE SONDE					
FINISH:		TOLERANCES - EXCEPT AS NOTED			TITLE THERMOSTAT ELECTRICVALVE RTD
REV:		ALL DIMENSIONS IN MILLIMETERS			
BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR	DATE 11/03/2008	DRAWING NUMBER S030400202
DRAWN BY F. CASEDAS		DECIMAL X.		SCALE S/E	
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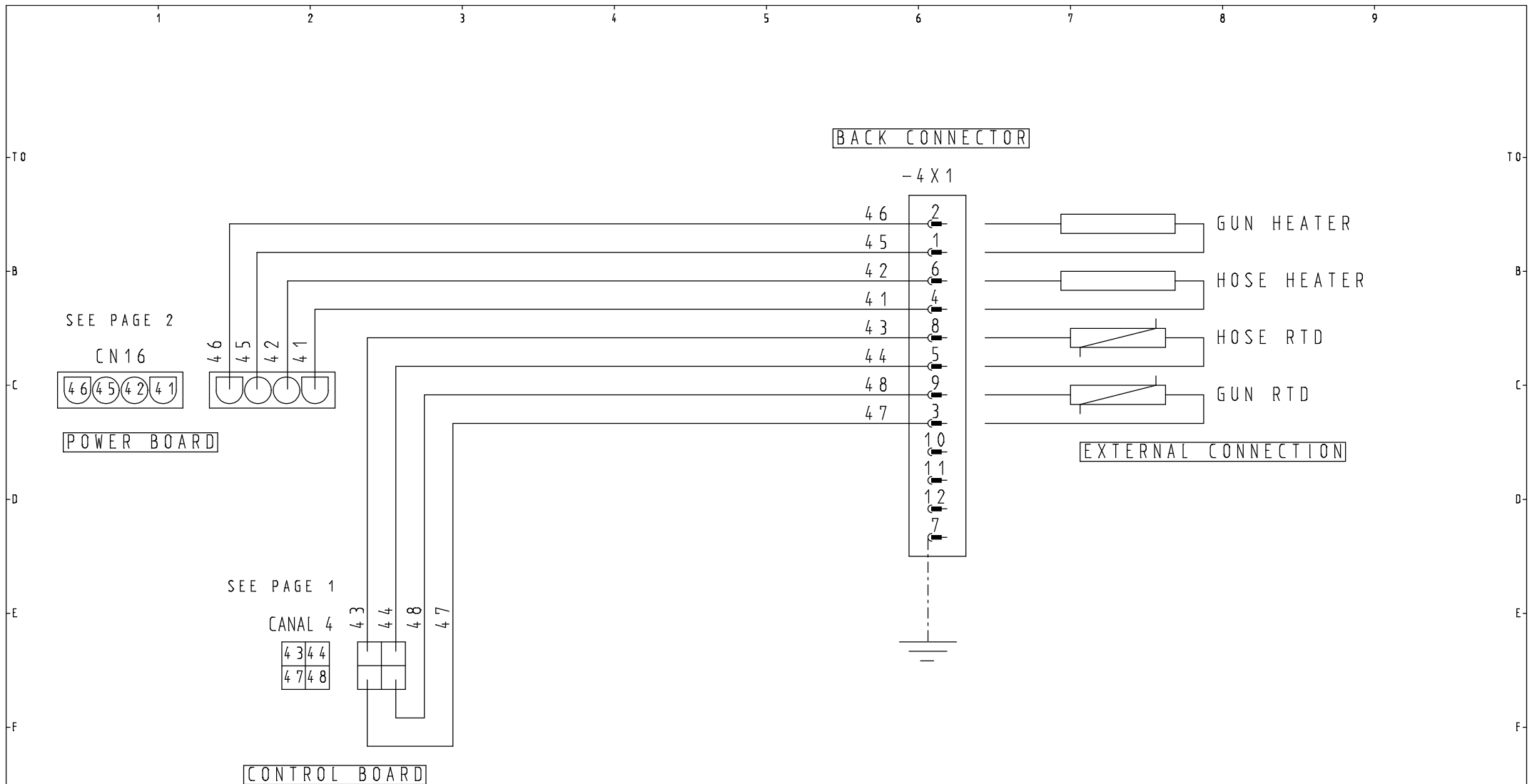
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MTI: CHANNEL 1NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 1 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
DRAWN BY F. CASEDAS	DECIMAL X.	DATE	11/03/2008	DRAWING NUMBER	S030400202	
CHECKED	DECIMAL X.X	SCALE	S/E			
APPROVED F. CASEDAS	DECIMAL X.XX	SHEET	6 OF 12	SUPERSEDES	SUPERSEDED BY	



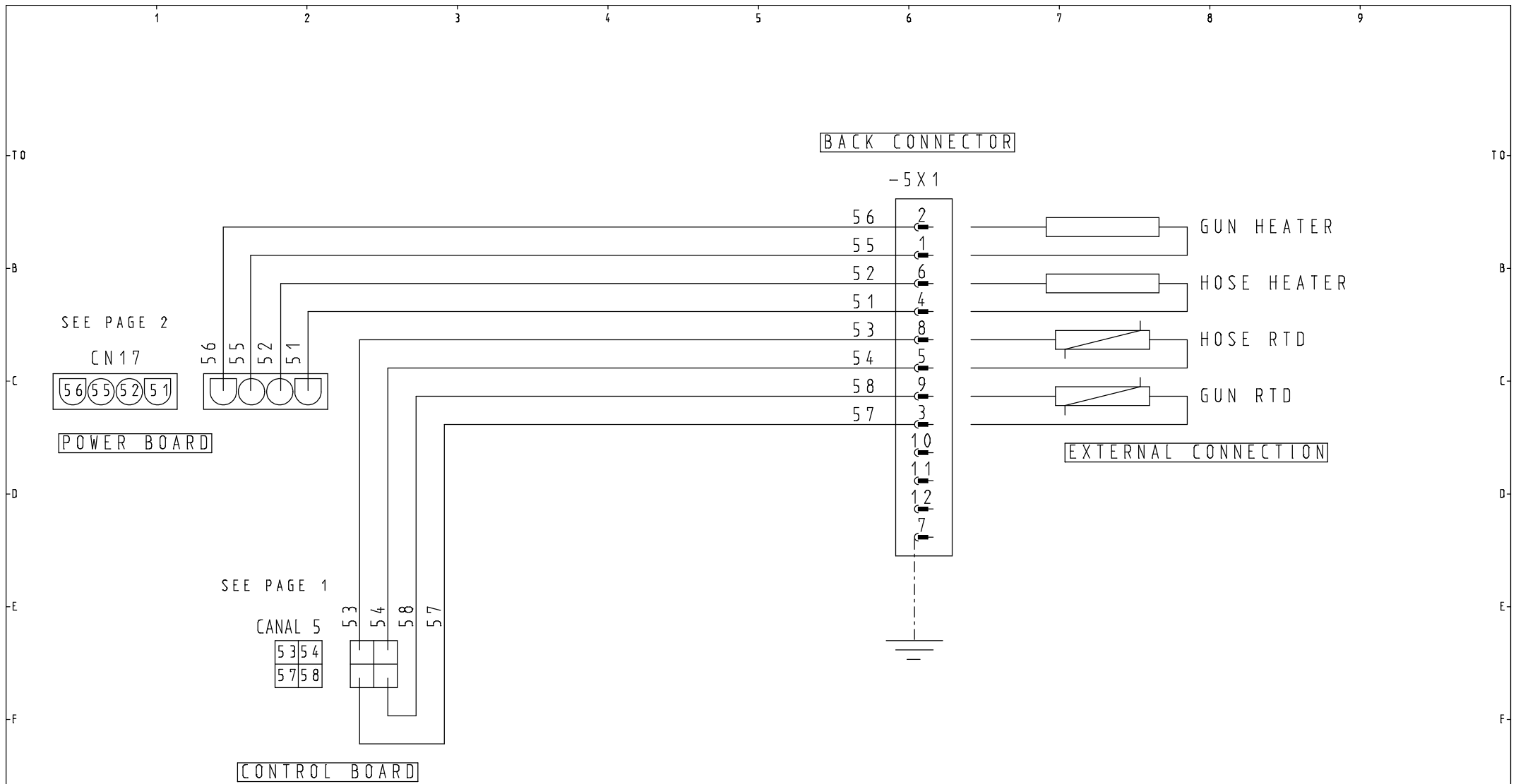
USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNEL 2NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 2 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
DRAWN BY	F. CASEDAS	DECIMAL X.	DATE	11/03/2008	DRAWING NUMBER	
CHECKED		DECIMAL X.X	SCALE	S/E	S030400202	
APPROVED	F. CASEDAS	DECIMAL X.XX	SHEET	7 OF 12	SUPERSEDES	SUPERSEDED BY



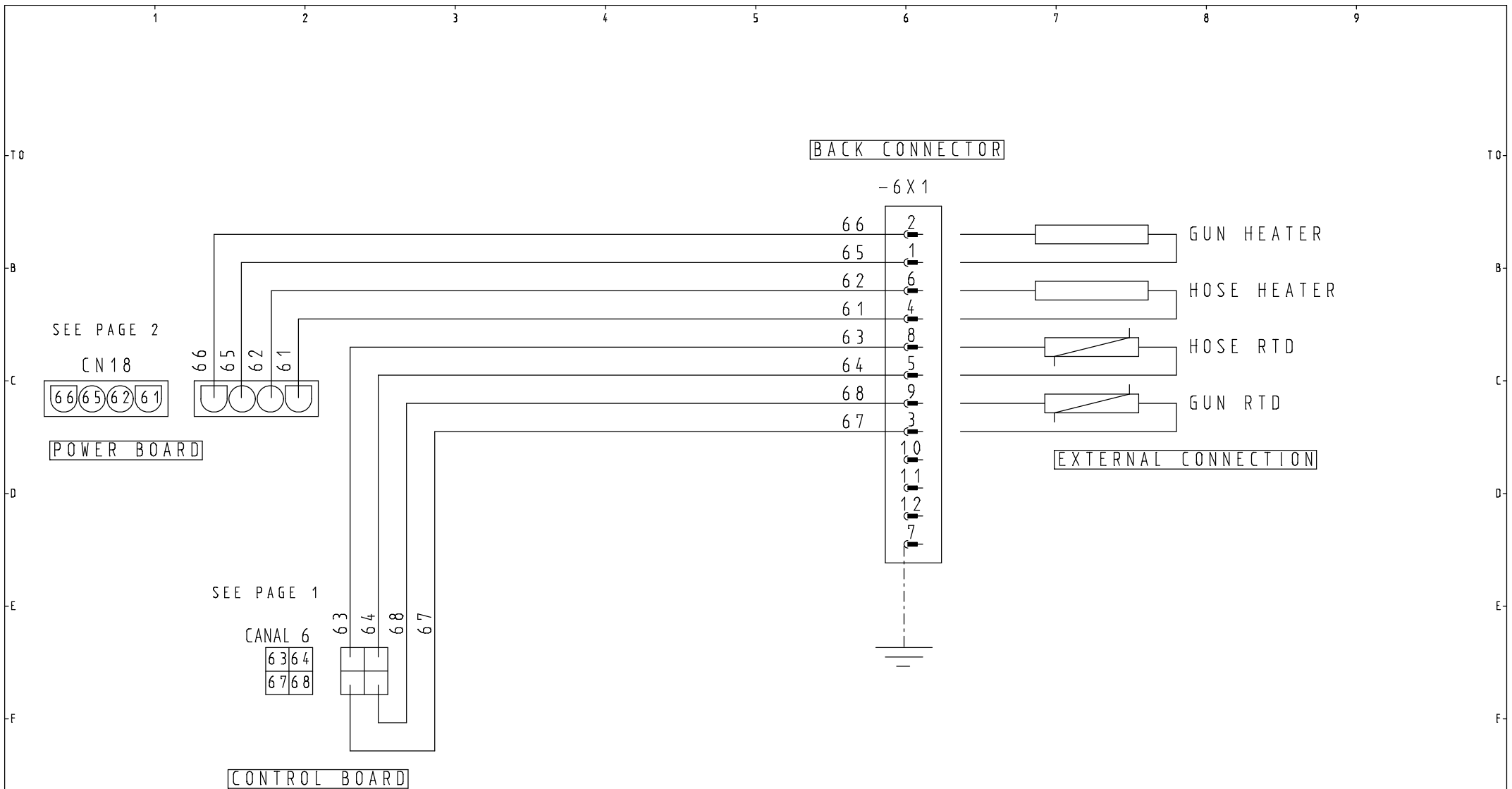
USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>	
MTI: CHANNEL 3NI		<small>TOLERANCES - EXCEPT AS NOTED</small>			
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	<small>ALL DIMENSIONS IN MILLIMETERS</small>		<small>DATE</small> 11/03/2008	<small>DRAWING NUMBER</small> S030400202
REV:		<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/>	<small>ANGULAR</small>		
	<small>DRAWN BY</small> F. CASEDAS	<small>DECIMAL</small> X.		<small>SHEET</small> 8 <small>OF</small> 12	<small>SUPERSEDES</small>
	<small>CHECKED</small>	<small>DECIMAL</small> X.X		<small>SUPERSEDED BY</small>	
	<small>APPROVED</small> F. CASEDAS	<small>DECIMAL</small> X.XX			



USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNEL4NI						
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 MM MAX)</small>	ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 4 NI120 COMPATIBLE EQUIP		
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	DRAWING NUMBER S030400202		
	CHECKED	DECIMAL X.X	SCALE S/E			
	APPROVED F. CASEDAS	DECIMAL X.XX	SHEET 9 OF 12	SUPERSEDES		SUPERSEDED BY



USED ON: "C" SERIES	THREAD LENGTH DIMENSIONS ARE FULL THREAD HOLES TO BE CHAMFERED UNLESS OTHERWISE SPECIFIED.		PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.		
MTI: CHANNELSNI	BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)		TOLERANCES - EXCEPT AS NOTED		
FINISH:		ALL DIMENSIONS IN MILLIMETERS		HOSE-GUN 5	
REV:		MACHINED SURFACES <input checked="" type="checkbox"/>	ANGULAR	NI120	
	DRAWN BY F. CASEDAS	DECIMAL X.		DATE 13/03/2008	DRAWING NUMBER
	CHECKED	DECIMAL X.X		SCALE S/E	S030400202
	APPROVED F. CASEDAS	DECIMAL X.XX		SHEET 10 OF 12	SUPERSEDES
					SUPERSEDED BY



USED ON: "C" SERIES	<small>THREAD LENGTH DIMENSIONS ARE FULL THREAD UNLESS TO BE CHANGED TO ONE THREAD DEPTH MAX UNLESS OTHERWISE SPECIFIED.</small>			<small>PROPERTY CONTAINING PROPRIETARY INFORMATION WHICH MUST NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN PERMISSION AND MUST BE RETURNED UPON DEMAND.</small>		
MTI: CHANNEL6NI		<small>TOLERANCES - EXCEPT AS NOTED</small>		<small>TITLE</small> HOSE-GUN 6 NI120 COMPATIBLE EQUIP		
FINISH:	<small>BREAK ALL SHARP EDGES & CORNERS (DEBURR) UNLESS OTHERWISE SPECIFIED (0.4 mm MAX)</small>	<small>ALL DIMENSIONS IN MILLIMETERS</small>		<small>DRAWING NUMBER</small> S030400202		
REV:		<small>MACHINED SURFACES</small> <input checked="" type="checkbox"/>	<small>ANGULAR</small>			
	DRAWN BY F. CASEDAS	DECIMAL X.	DATE 11/03/2008	<small>SCALE</small> S/E		
	CHECKED	DECIMAL X.X	SHEET 11 OF 12			
	APPROVED F. CASEDAS	DECIMAL X.XX	<small>SUPERSEDES</small>		<small>SUPERSEDED BY</small>	