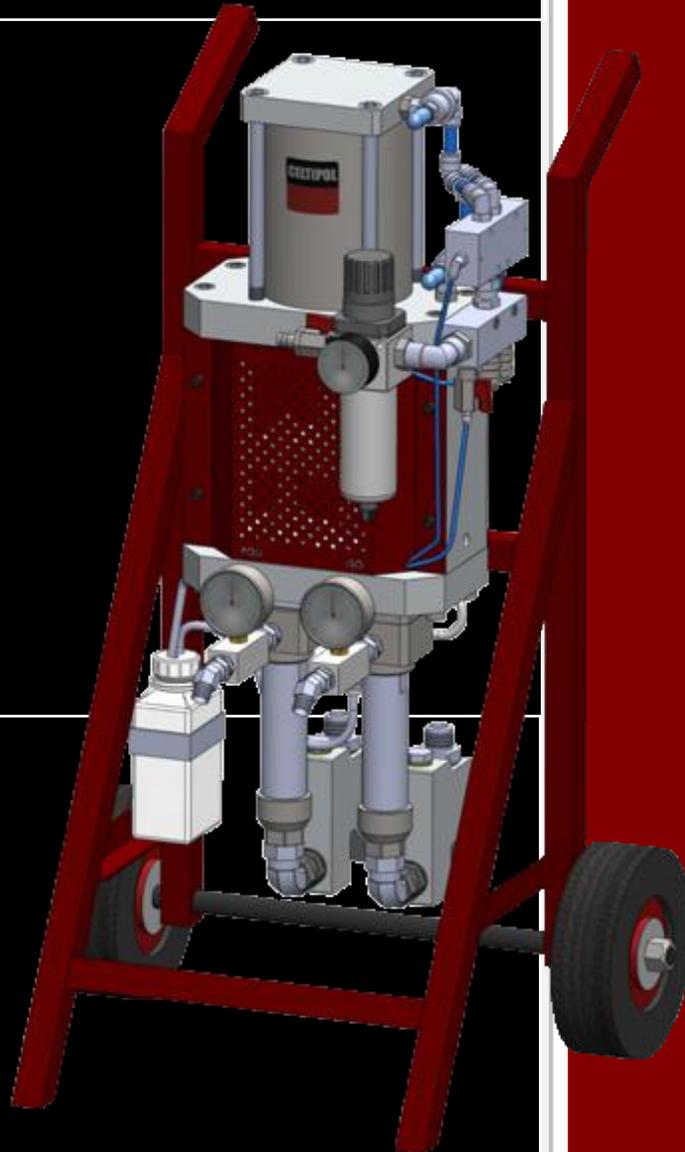


# TECHNICAL MANUAL 2021



## CN-4

PNEUMATIC EQUIPMENT FOR POLYURETHANE PROJECTION

**CELTIPOL**



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## 1. GENERAL CONDITIONS.



Before installing and starting up the Machine, read all the technical and safety documentation included in this manual carefully. It is important to pay particular attention to the information included here in order to become acquainted with handling and operating conditions of the Unit. All information is focused on bolstering User Safety and avoiding any possible breakdown arising from the incorrect use of the Unit.

Careful reading of this Technical Manual will give you a better knowledge of the system and procedures. Following the instructions and recommendations included here will reduce the potential risk of accident during installation, use or maintenance of the Machine, and will make it possible to have an incident-free operation for a longer period of time, better performance and the possibility to detect and solve problems in a swift and simple manner.

Keep this Technical Manual. You will be able to make consultations in the future, with access to useful information at all times. In the event of misplacing the manual, please request a copy from Celtipol.



The design of the Machine does not allow for it to be used in potentially explosive environments. Nor should the pressure and temperature limits stipulated in the technical specifications in this manual be surpassed.



## 2. SAFETY CONDITIONS

The first consideration to take into account is that during the design and project stage of the CN-4 machine, the regulations in force regarding machine Safety and Prevention of Risk in the Work Place have been scrupulously respected. Therefore, we can firmly state that the machine is intrinsically safe.

Nevertheless, in common with any machine or tool, incorrect use of the same may cause more or less hazardous situations. These recommendations have been drafted to avoid such situations to ensure safe use and handling of the system.

Leading on from the above, clearly, all personnel that have anything to do with the spraying and handling operations of the machine must have an in-depth knowledge of these recommendations as well as all other recommendations that may be provided by the manufacturers of chemical products.

Throughout these operations, the intention is to provide a non-exhaustive list of the possible risks that may arise from spraying operations. For this reason, and depending on each particular application, it must be the user of the system who should carefully study the risks arising from the same, in line with the Regulation in force on the Prevention of Risks in the Work Place.

Another aspect for consideration is the prevention of possible risks arising from the use of different chemical products, some of which may be hazardous if used incorrectly. Special attention should be paid to any fumes issued during use of polyurethane foam and polyurea systems since isocyanate compounds are used in spraying operations.

In short, to ensure that the handling and use of the spraying equipment is as safe as possible, the user must strictly follow the following aspects indicated in this manual.

### 3. APPLICATION SAFETY.

- It is advisable for personnel with a history of respiratory complaints to avoid exposure to all isocyanates.
- Chemical products must be handled safely in accordance with manufacturer's recommendations. The manufacturer should provide information on the toxicity of the products used as well as actions to take in the event of accident (wounds, irritation, etc.).
- It should be taken into account that solvents that may be used in cleaning operations may also entail additional risk during handling.
- Do not apply until adequate ventilation is ensured, either naturally or forced, if required. Suppliers of chemical products must be applied to in order to determine the values at which the concentrations of fumes may be hazardous.
- The appropriate procedures and systems must be applied to detect hazardous concentrations of fumes.
- In the event of not being able to ensure appropriate ventilation, both the personnel applying substances and those working in the area influenced by fumes must, without fail, use certified breathing apparatus.

At all times, users must use the appropriate personal protection equipment (gloves, breathing masks, goggles, protective clothing, etc.).

- Users must be completely familiar with the chemical products and with the use of the equipment.



- In order to prevent any possible bodily harm caused by incorrect handling of raw materials and solvents used in the process, please read carefully the safety information provided by the supplier.
- Treat waste according to the regulations in force.
- Electrical maintenance of the machine must only be conducted by a qualified electrician.
- In order to avoid damage caused by the impact of pressurized fluids, do not open any connection or carry out any maintenance work on components under pressure until the pressure has been completely eliminated.
- Use appropriate protection for operating, maintenance work or whenever present in the working area of the Machine. This includes but is not limited to the use of a face mask, goggles, gloves, footwear and safety clothing.
- Certain components of the Machine reach temperatures that can cause burns. Do not handle or touch the hot parts in the Machine until they have cooled down.
- In order to prevent any serious harm due to crushing or amputations, do not work with the Machine without safety protection from duly installed moving parts. Make sure that all safety protection is correctly fitted when completing repairs or maintenance work.

#### **4. SAFE HANDLING OF CHEMICAL PRODUCTS.**

Products such as polyisocyanates, organic solvents and diamines should be stored in a place exclusively for and adapted to such a purpose, with restricted access. Maximum temperatures must be strictly adhered to, both in the application and in storage of chemical products, at all times following the manufacturer's recommendations.

- Also, chemical products are to be stored at all times in suitable containers, following the manufacturer's recommendations.
- Containers must not be opened until immediately before being used in order to avoid contamination by damp. Any leftover product after being applied should be put back into the original container and be stored in a dry, ventilated place.
- During cleaning tasks of spilt components, it will be essential to use eye protection, gloves and wearing breathing apparatus. Spilt isocyanate can be collected with any absorbent inert product, such as sawdust. In any case, it is important to avoid skin contact. The absorbent product is to be immediately collected and dumped into an open container through the upper part.
- Throughout the entire operation explained above, the area must be correctly ventilated.

#### **Safety personnel equipment:**

**Celtipol recommends the following personnel safety equipment for operations with foaming (see table):**

- **Protective mask for airways.**
- **Goggles to protect the eyes.**
- **Headset to protect against noise.**
- **Gloves to protect hands.**
- **Protective clothing for the body.**



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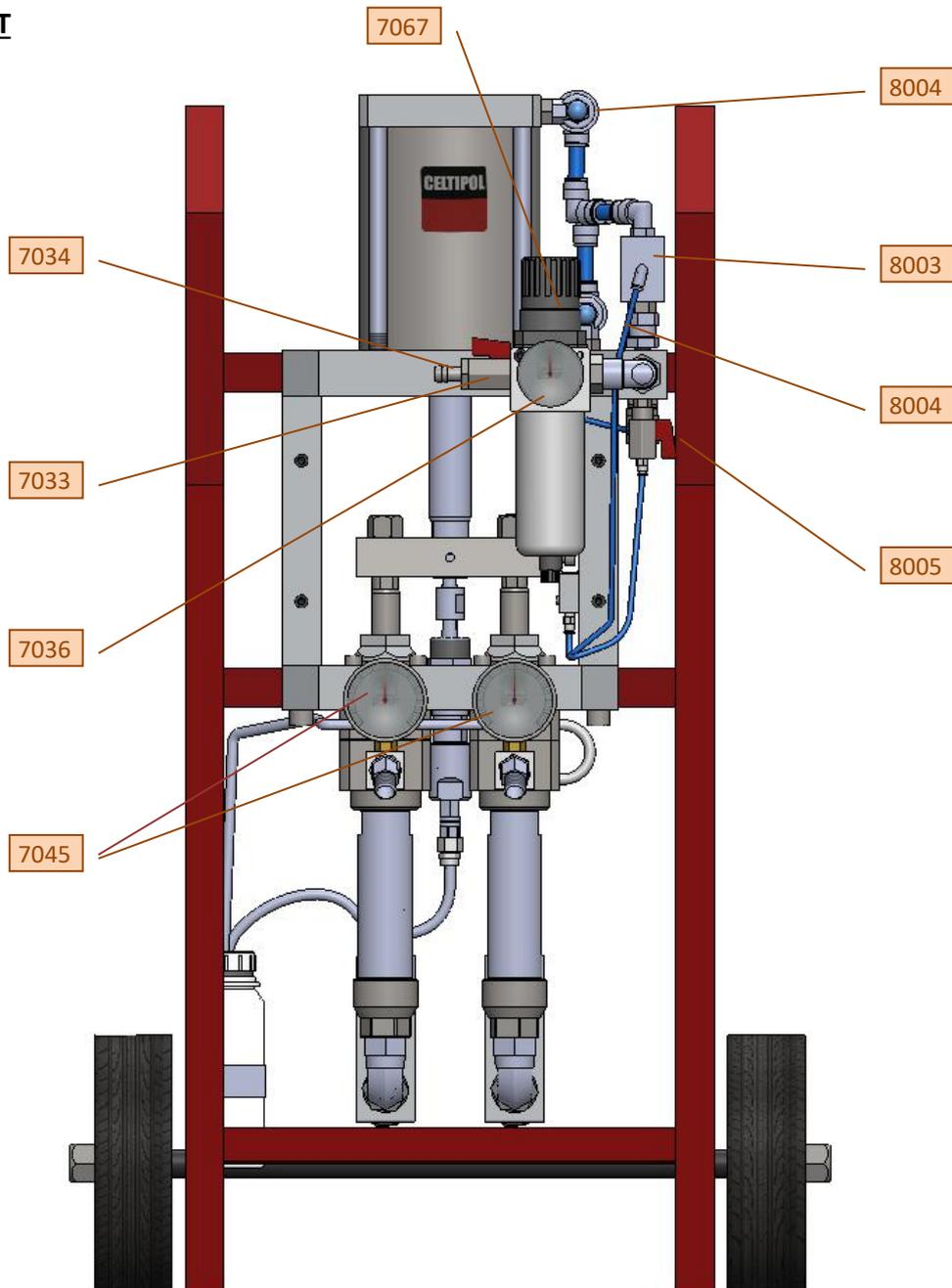
Translation of the original manual

## 5. EQUIPMENT TECHNICAL SHEET.

CN 4 PNEUMATIC EQUIPMENT	
<b><u>1. TECHNICAL CHARACTERISTICS:</u></b>	
WORK PRESSURE	100 bar
ADMISSIBLE HOSE LENGTH	60 meter
MAXIMUM PRODUCTION	8,5 l/min 10,6 kg/min
MACHINE WEIGHT	45 Kg
MACHINE DIMENSIONS	925x590x510 mm (Height x Width x Depth)
<b><u>2. SYSTEMS:</u></b>	
➤ Protection filters for incoming products	
➤ In an emergency situation, it can operate with transfer pump.	
➤ Air pressure regulator with filter.	
➤ Air pressure gauge.	
➤ Products pressure manometers.	
➤ Pneumatic muffler.	
➤ Pneumatic end of stroke.	
➤ Transportation wheels	

## 6. OVERVIEW

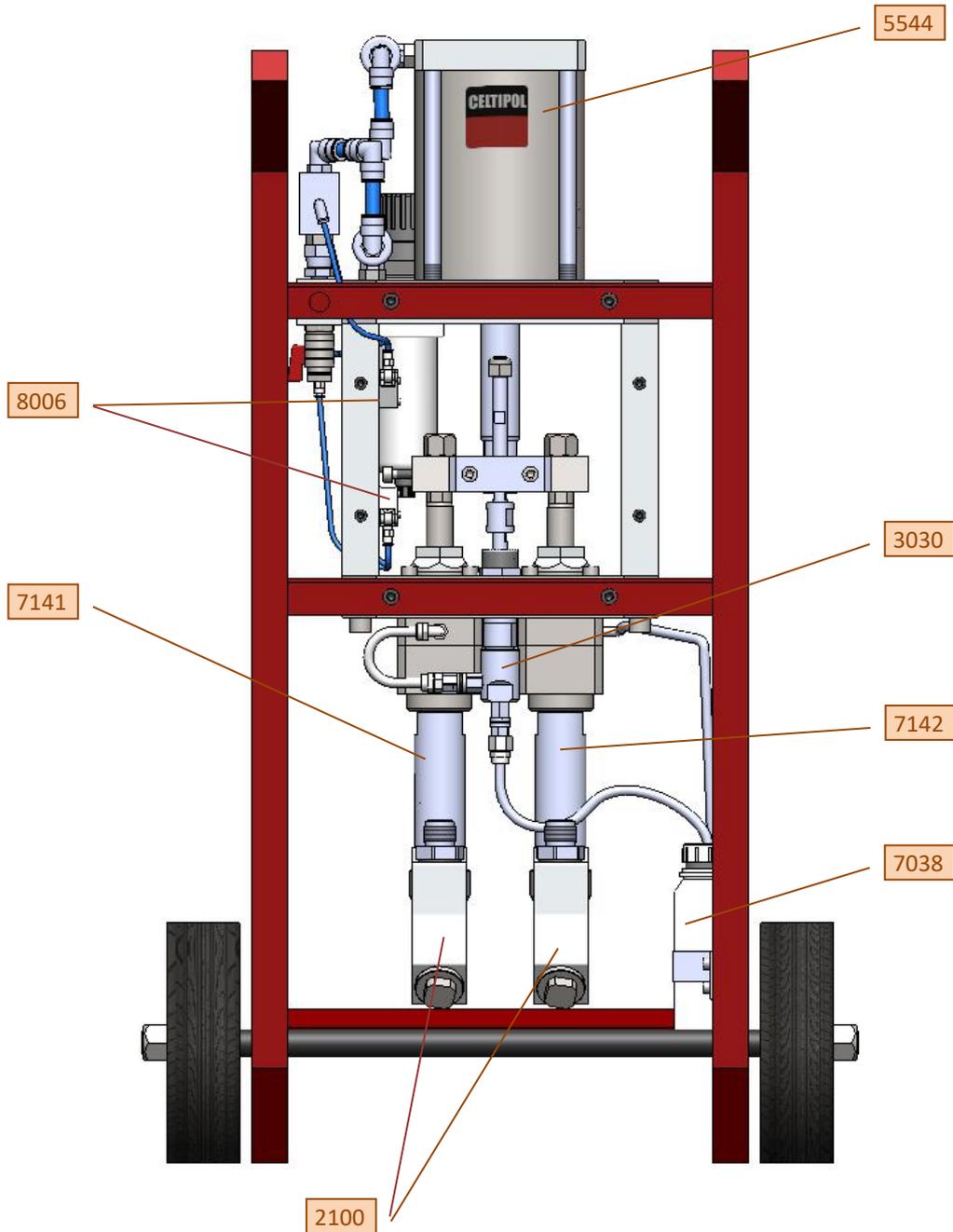
- FRONT



7033. Stopcock 1/2".  
 7034. Hose adapter 1/2".  
 7036. Air pressure gauge.  
 7045. ISO and POLY pressure gauges.

7067. Air filter and pressure regulator.  
 8003. Pneumatic directional valve.  
 8004. Pneumatic muffler.  
 8005. Stopcock (START/END)

- REAR.



2100. Liquid filters unit.

3030. Lubrication pump.

5544. Pneumatic cilinder Ø130.

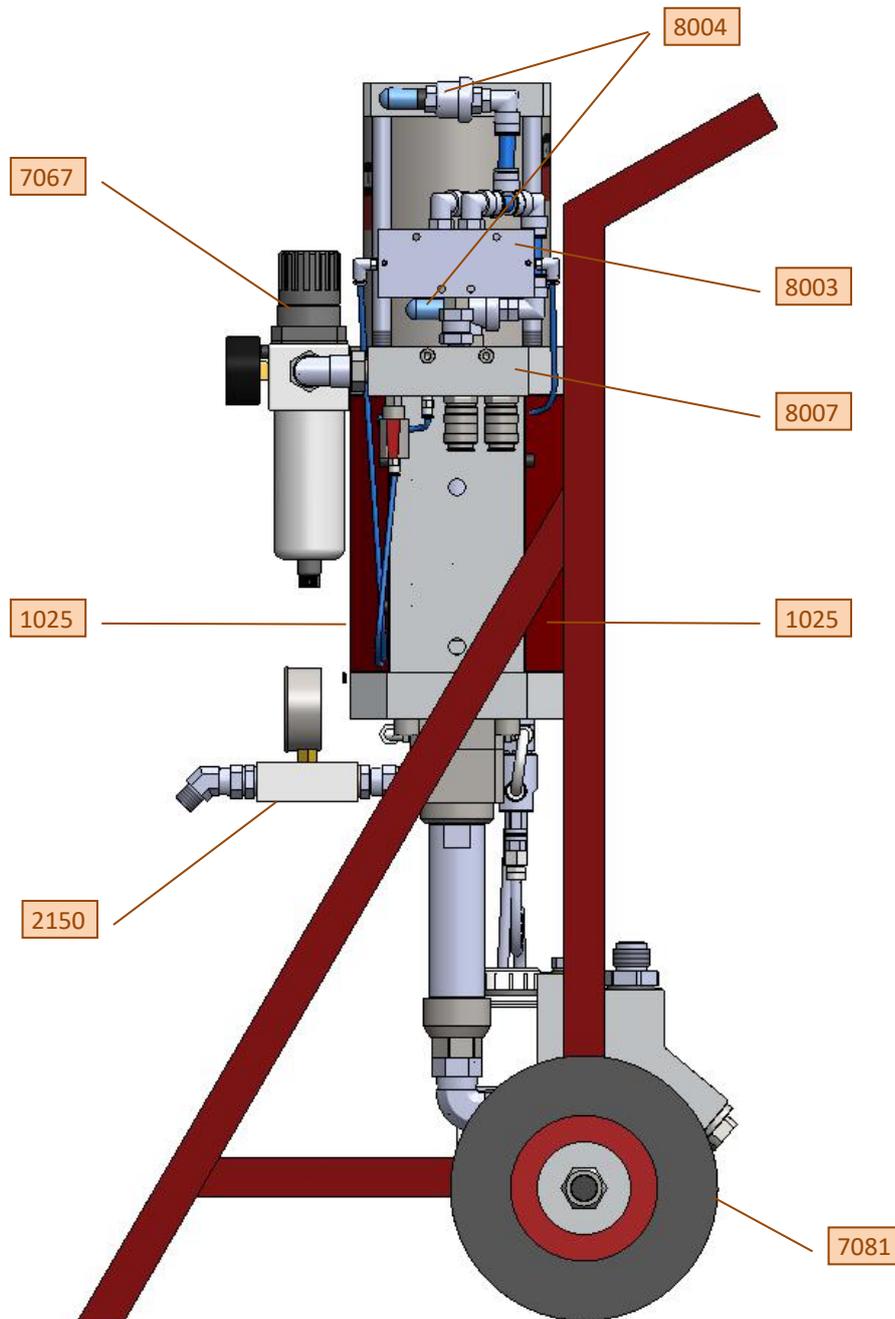
7038. Lubrication tank.

7141. Isocyanate pump unit.

7142. Polyol pump unit.

8006. Ends of stroke.

- LEFT SIDE.

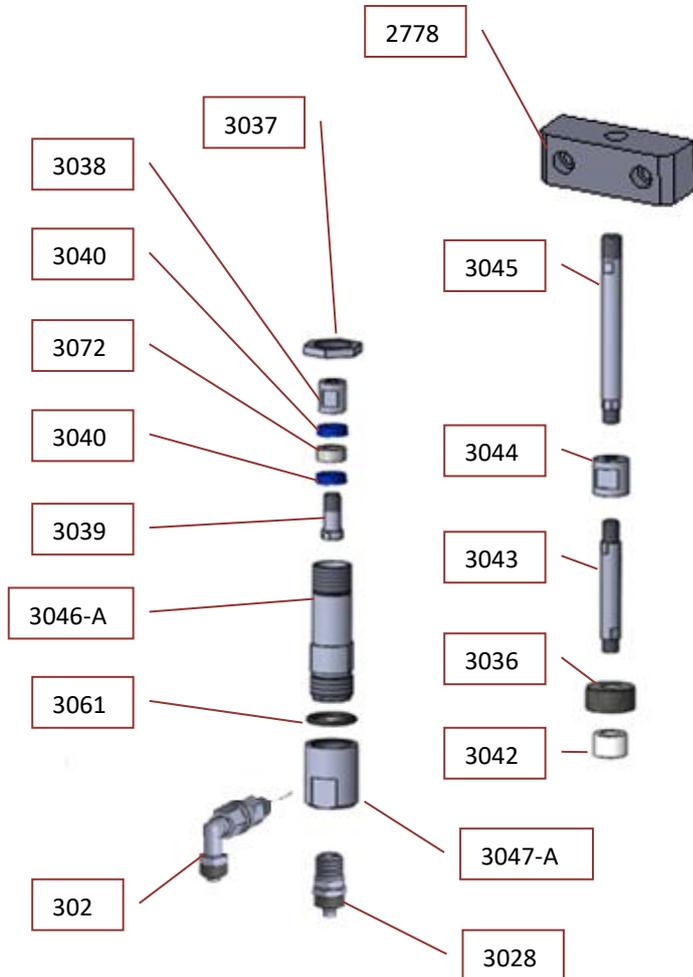


1025 Cylinder cover.  
 2150. Liquid Outlet Set.  
 7067. 1/2" Air regulator with filter.  
 7081. Wheel Ø200mm.

8003. Pneumatic directional valve.  
 8004. Pneumatic muffler.  
 8007. Air distributor.

## 7. LUBRICATION PUMP.

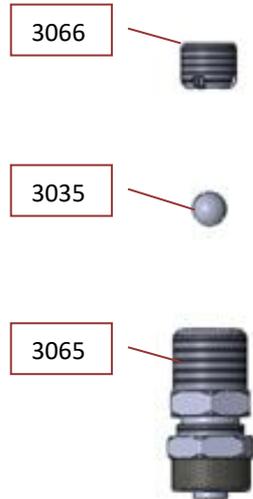
### - 3030 LUBRICATION PUMP:



Nº	DESCRIPCIÓN
2778	Pump release
3028	Inlet non-return valve
3029	Outlet non-return valve
3036	Upper cover
3037	Retaining nut
3038	Piston rod-piston joint
3039	Piston bracket
3040	Piston seal
3042	Stop guide
3043	Lower Piston rod
3044	Piston rod joint
3045	Upper Piston rod
3046-A	Cylinder body
3047-A	Pump base
3061	O-ring
3072	Piston guide

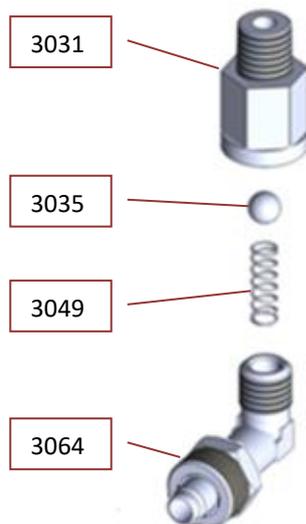
SPARE PARTS KIT (2204)	
3040	Piston seal (x2)
3042	Stop guide
3061	O-ring
3072	Piston guide

- **3028 Inlet non-return valve:**



Nº	DESCRIPTION
3035	Sphere Ø6
3065	Fitting 1/4"
3066	Stop 1/8"

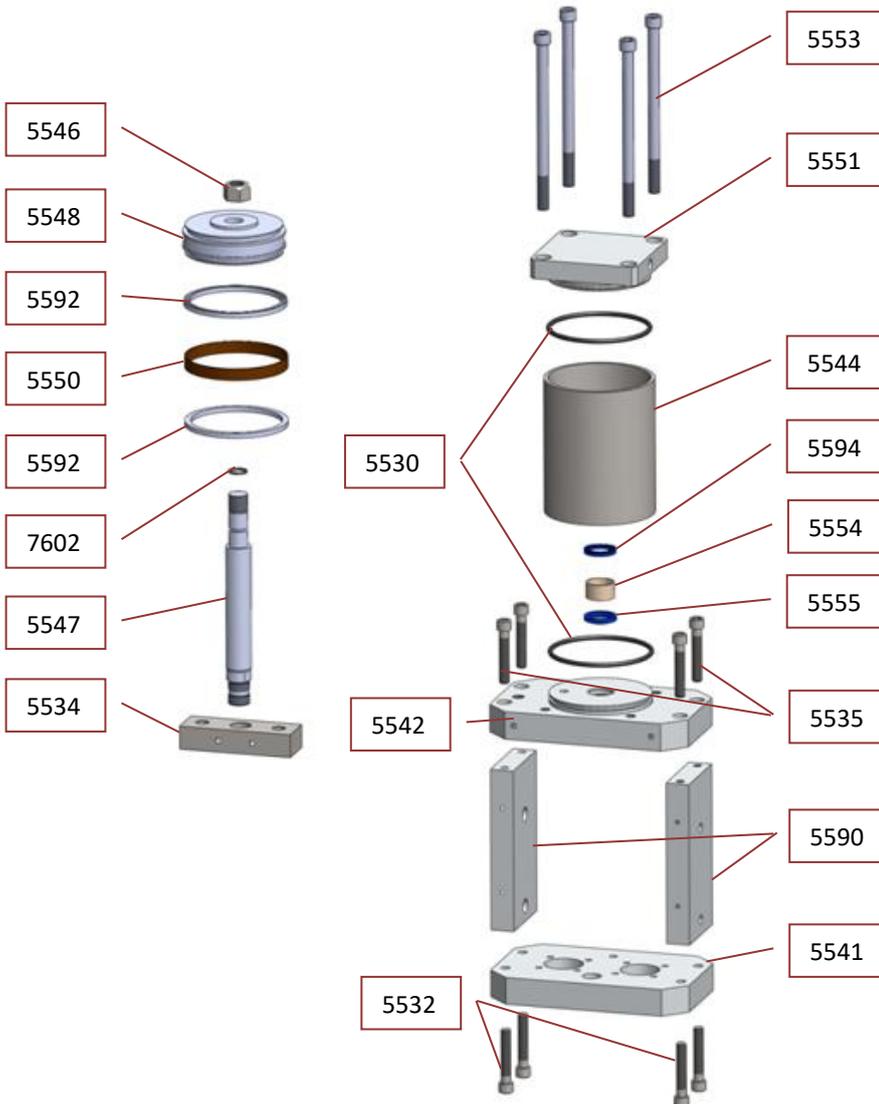
- **3029 Outlet non-return valve:**



Nº	DESCRIPTION
3031	Stop 1/8"
3034	Spring Ø5
3035	Sphere Ø6
3064	Lubrication elbow

## 8. EXPLODED VIEW CILINDER.

### 7140 Pneumatic cilinder.

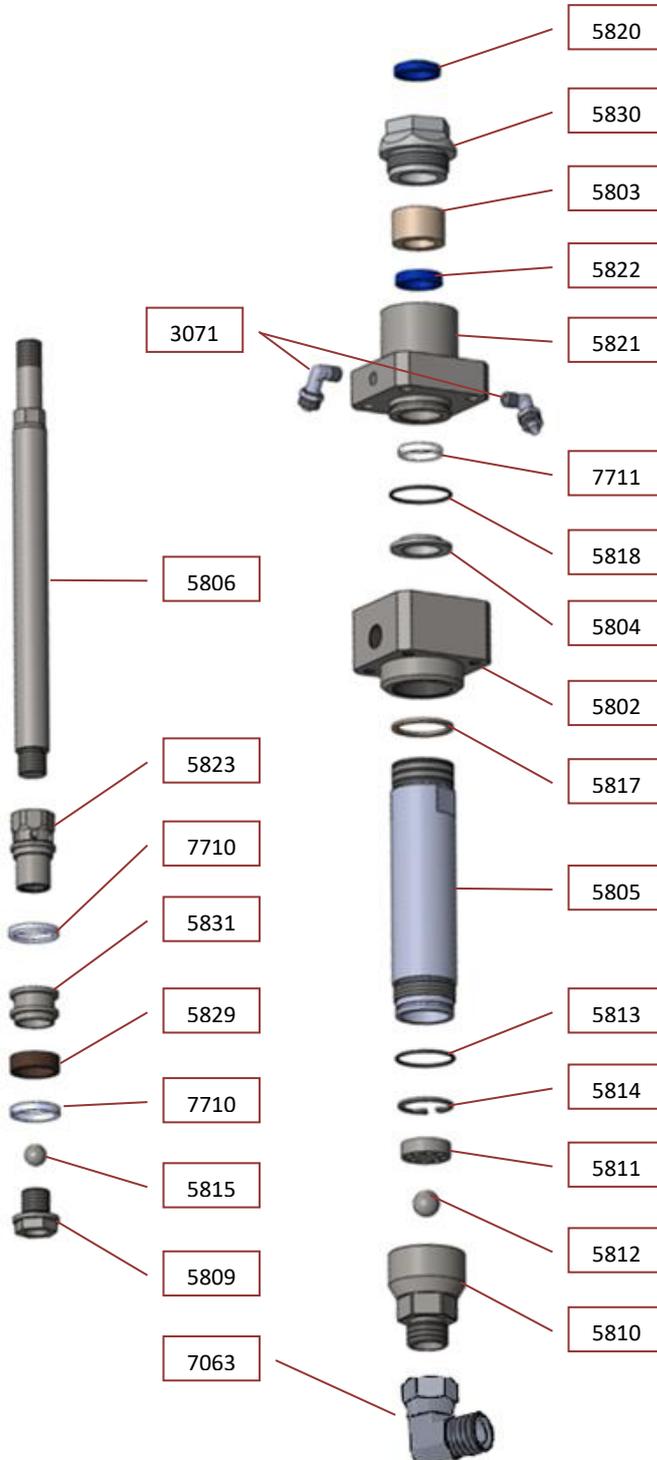


Nº	DESCRIPTION
5530	O-ring
5532	Screw M12x70
5534	Pump release
5535	Screw M12x60 (x4)
5541	Bottom base plate
5542	Bottom cylinder head
5544	Cylinder body
5546	Piston nut M20
5547	Piston rod
5548	Piston
5550	Piston seal
5551	Cylinder head
5553	Screw M14x200 (x4)
5554	Rod guide ring
5555	Wiper seal
5590	Plate supports (l/r) (x2)
5592	Piston rings
5594	Rod seal
7602	O-ring Ø18int.x3

SPARE KIT (2205)	
5530	O-ring Ø122intx5,3 (x2)
5550	Piston seal
5554	Rod guide ring
5555	Wiper seal
5592	Piston rings (x2)
5594	Rod seal
7602	O-ring Ø18intx3

## 9. EXPLODED VIEW PUMPS.

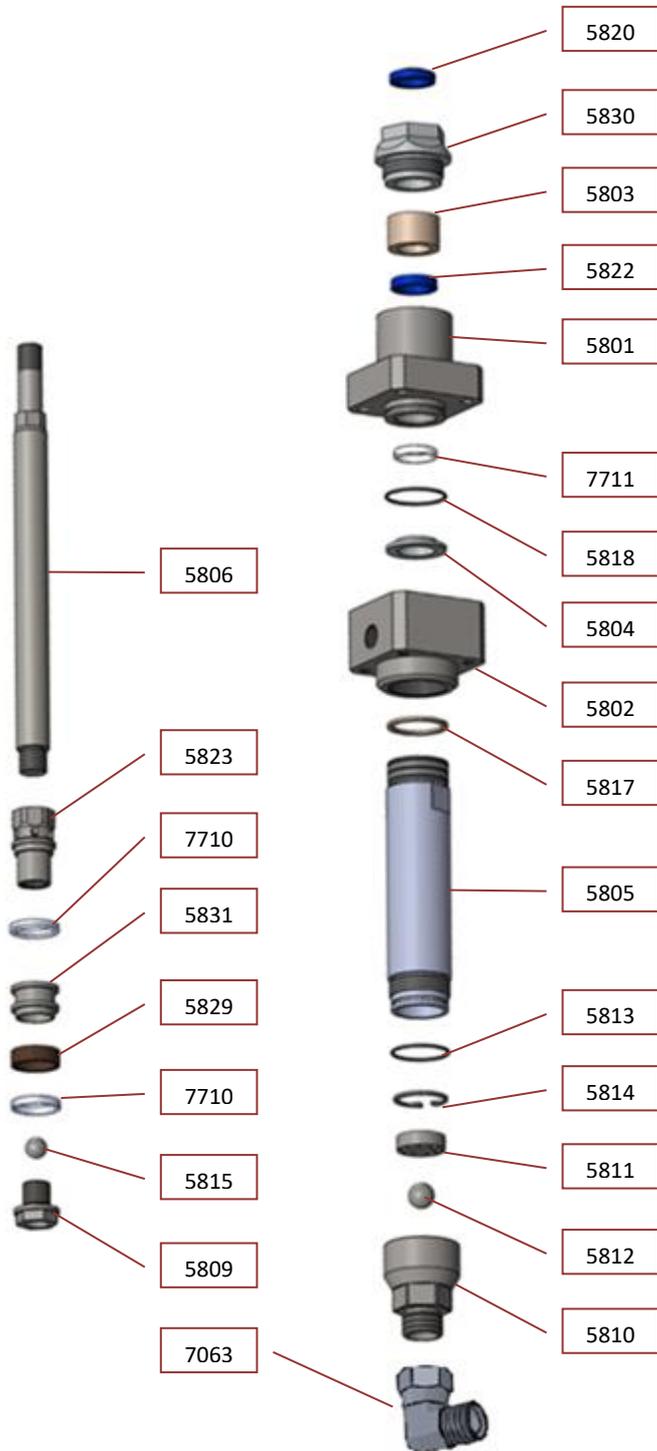
### 7141 ISO pump (Ø32).



Nº	DESCRIPTION
3071	Elbow with racor 1/8" NPT (x2)
5802	Upper base
5803	Nylon guide
5804	Seal stop ring
5805	Cylinder body
5806	Piston rod
5809	Piston head
5810	Lower base
5811	Sphere stop
5812	Sphere Ø17
5813	O-ring Ø35int.x2
5814	Safety ring Ø34x1,75
5815	Sphere Ø15
5817	Nylon cylinder joint stop
5818	O-ring Ø34int.x2
5820	Wiper seal
5821	ISO packer bracket
5822	Rod seal
5823	Double collar piston
5829	Piston guide
5830	Seal and housing wiper seal
5831	Guide and buffer seal housing
7063	Elbow 90° M-F 3/4"
7710	VARISEL buffer seal (x2)
7711	VARISEL buffer seal

SPARE KIT (2206)	
5803	Nylon guide
5813	O-ring Ø35int.x2
5817	Nylon cylinder joint stop
5818	O-ring Ø34int.x2
5820	Wiper seal
5822	Rod seal
5829	Piston guide
7710	VARISEL buffer seal (x2)
7711	VARISEL buffer seal

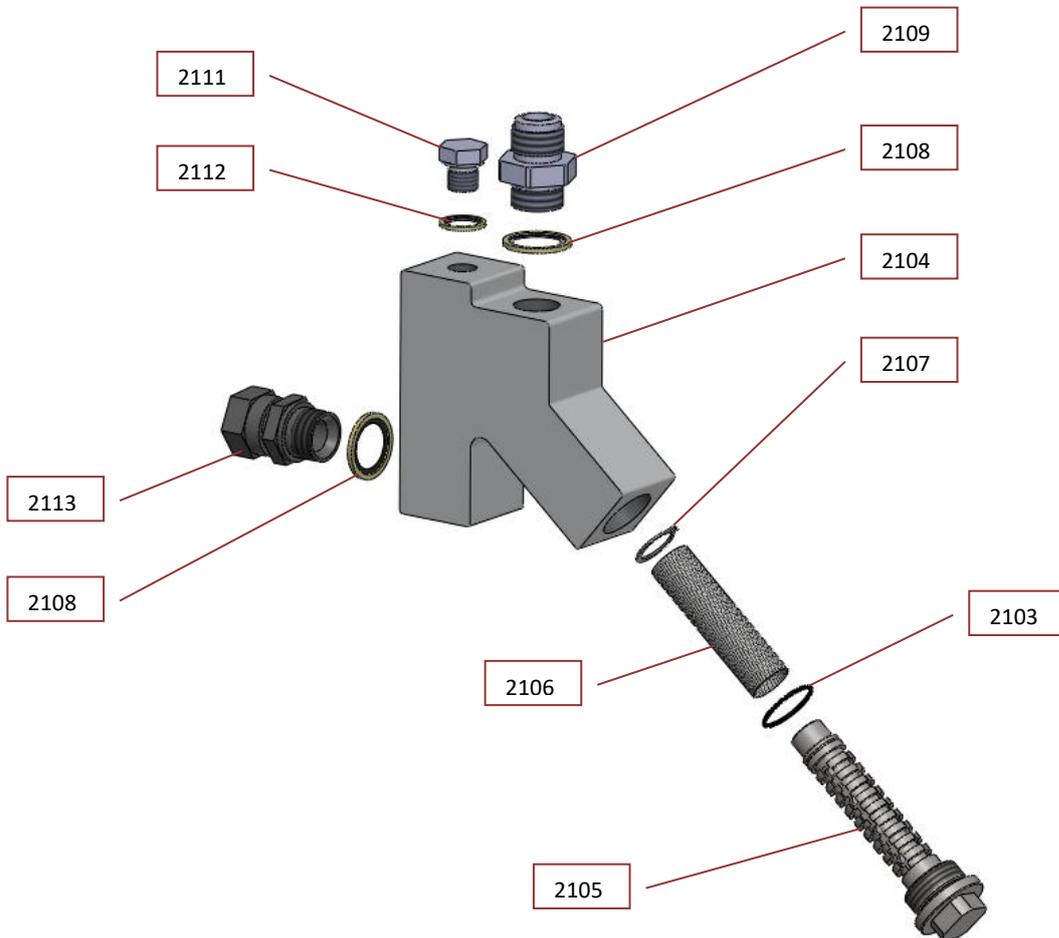
## 7142 POLY pump (Ø32).



Nº	DESCRIPTION
5801	POLI packer bracket
5802	Upper base
5803	Nylon guide
5804	Seal stop ring
5805	Cylinder body
5806	Piston rod
5809	Piston head
5810	Lower base
5811	Sphere stop
5812	Sphere Ø 17
5813	O-ring Ø35 int. x 2
5814	Safety ring Ø34x1.75
5815	Sphere d15
5817	Nylon cylinder joint stop
5818	O-ring Ø34 int. x 2
5820	Wiper seal
5823	Double collar piston
5829	Piston guide
5830	Seal and housing wiper seal
5831	Guide and buffer seal housing
7063	Elbow 90° M-F 3/4"
7710	VARISEL buffer seal (x2)
7711	VARISEL buffer seal

SPARE KIT (2207)	
5803	Nylon guide
5813	O-ring Ø35 int. x 2
5817	Nylon cylinder joint stop
5818	O-ring Ø34 int. x 2
5820	Wiper seal
5829	Piston guide
7710	VARISEL buffer seal (x2)
7711	VARISEL buffer seal

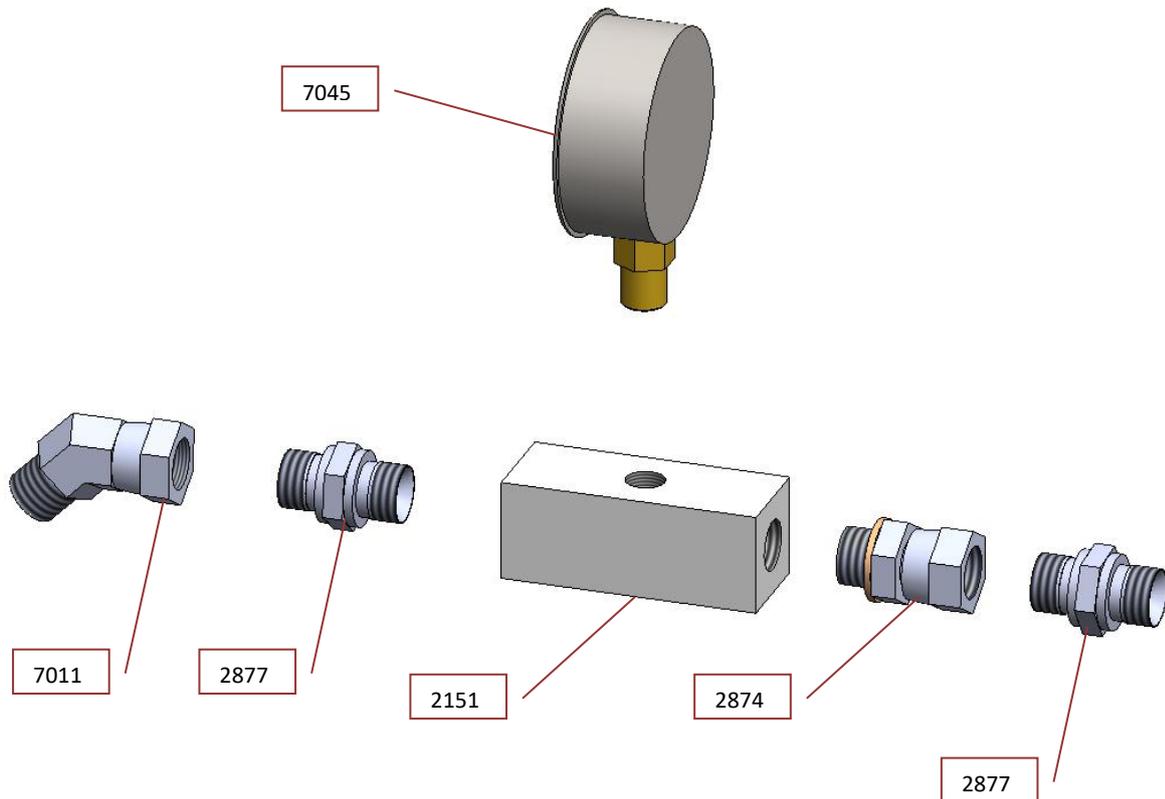
## 10. 2100 LIQUID FILTERS UNIT



Nº	DESCRIPTION
2103	O-ring Øin. 30x2
2104	Filter body
2105	Filter holder
2106	Filter
2107	Safety ring
2108	Watertight washer 3/4"
2109	M-M 3/4"-1" 1/16 Joint
2111	Plug 3/8"
2112	Watertight washer 3/8"
2113	Joint M 3/4" - F 3/4"

SPARE PARTS KIT (2208)	
2103	O-ring Øin. 30x2
2106	Filter

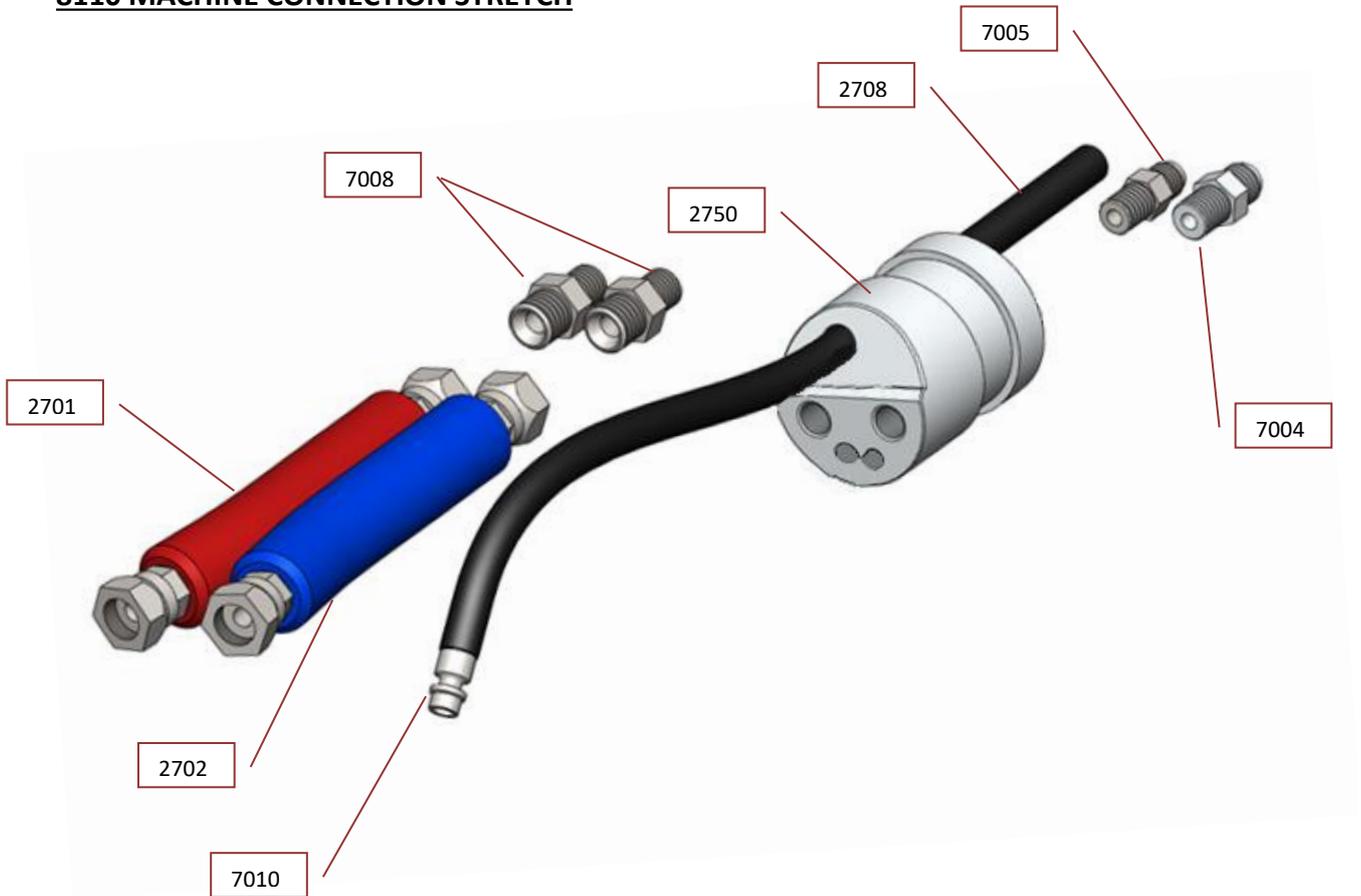
## 11. 2150 LIQUID OUTLET EXPLODED VIEW



Nº	DESCRIPTION
2151	Gauge-outlet coupling
2874	Joint G3/8" F - G3/8" M
2877	Joint G3/8" M
7011	45° joint G3/8" F – G3/8" M
7045	High pressure gauge product

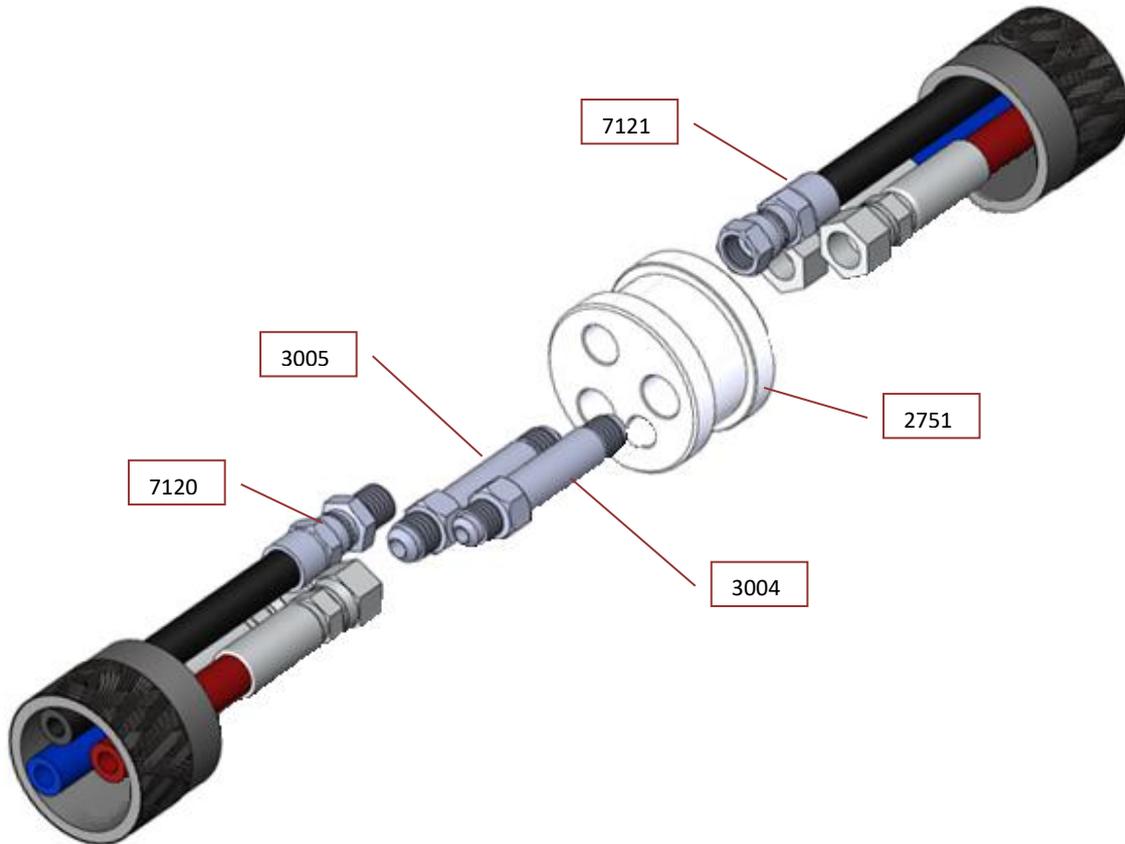
## 12. HOSE.

### 8110 MACHINE CONNECTION STRETCH



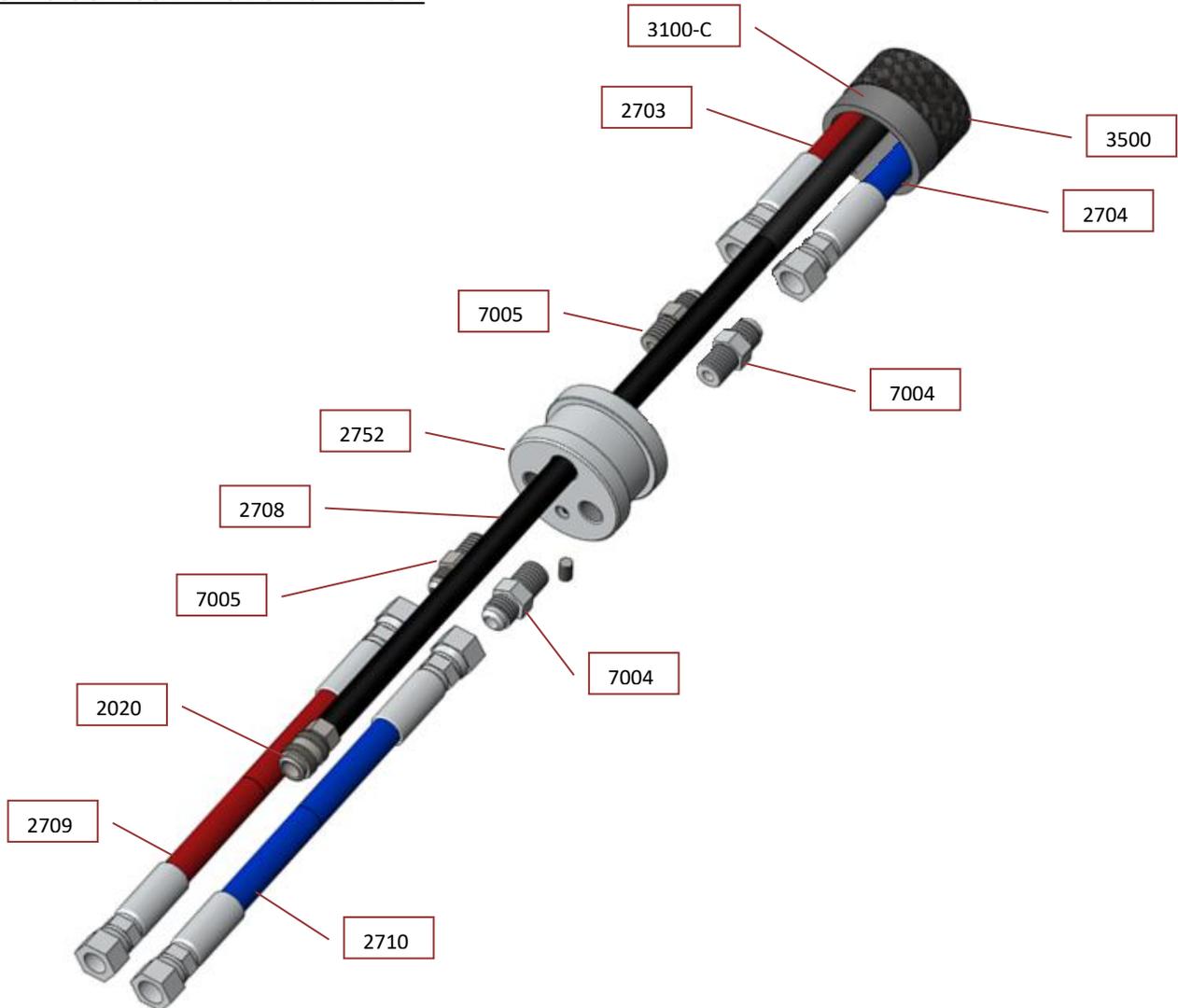
Ref.	DESCRIPTION
2701	ISO line
2702	POLI line
2708	Hose air conduit
2750	Anterior connecting block
7004	Joint NPT1/4" M - SAE 1/2" M
7005	Joint NPT1/4" M - SAE 9/16" M
7008	Joint NPT 1/4" M- G 3/8" M
7010	Swift air connector male

## 8130 HOSE FITTING.



Ref.	DESCRIPTION
2751	Insulator separator
3004	ISO hose fitting
3005	POLI hose fitting
7120	Male air connector
7121	Female air connector

## 8120 GUN CONNECTION STRETCH.



Ref.	DESCRIPTION
2020	Swift connector air gun
2703	ISO hose
2704	POLI hose
2708	Hose air conduit
2709	ISO gun line
2710	POLI gun line
2752	End connecting block
3100-C	Armaflex thermal coating
3500	Bicolor anti-abrasion covering
7004	Joint M 1/4" NPT- M1/2" SAE
7005	Joint M 1/4" NPT - M 9/16" SAE

## 13. START-UP SEQUENCE.

1. Install the machine completely fixed and stable.
2. Unroll the hoses.
3. Connect product tanks to the machine by transfer pumps (they can be directly connected to the machine)<sup>1</sup>.
4. Connection of compressed air (external supply).
5. Open the main air valve located in the air inlet
6. Adjust the pressure regulator to between 6 and 8 bars.
7. Insert the end of each hose into their respective tanks (this task of recirculating liquids must be carried out before using the machine for bleeding the air inside).<sup>2</sup>
8. Supply air to the cylinder to fill the pumps with liquid (to do this open the START/STOP valve).
9. Once the air is purged, the machine is ready to use.<sup>3</sup>
10. Use the appropriate means of personal protection.<sup>4</sup>

**1.** Do not start up the system without material in the tanks.

**2.** Do not carry out this operation with the machine running (Stopcock closed)

**3.** Do not place any part of the body in the direction of the projection nor project towards other people.

**4.** It is advisable to use protective goggles, air mask, protective clothing and other safety equipment. Manufacturers' recommendations and the instructions for the products used should be followed.

## 14. SYSTEM MAINTENANCE.

- ✓ Lubricate the Piston rods when stopping the machine with D.O.P. (daily).
- ✓ Clean filters on the product input with ethyl-glycol (weekly).
- ✓ Regularly empty the bleed water from the compressed air input regulator.
- ✓ Regularly check the status of the machine's pneumatic lines.
- ✓ Regularly check the status of the hoses (for abrasions or cuts).

## **15. GENERAL BREAKDOWNS.**

Another way of avoiding incorrect handling of the equipment and to avoid any possible situation of risk is to know how to detect the source of the more frequent breakdowns, as well as to know how to solve them. To achieve this, essentially, the operator/user should be acquainted with:

- The normal working order of the equipment, with its corresponding sequences of start-up and stop.
- The flow diagram of the materials going through the equipment.
- The appearance of the product perfectly applied and its possible variables.

Since the ultimate aim of the equipment is the correct application and finish of the foam, it should be the final appearance of this that we should, in the first place, examine to locate any possible breakdown or anomalies in the application process and, in this way, identify the material that is missing (isocyanate or Polyol).

Therefore, the most appropriate procedure to locate breakdowns is as follows:

1. Identify the product missing.
2. Check the pressure gauge corresponding to the material that is missing in such a manner that if the reading is higher than normal, there is an obstruction problem between the pressure gauge and the point in the chamber where the gun makes the mix. Conversely, if the reading is lower than normal, there is an obstruction problem between the pressure gauge and the transfer pumps.
3. In the event that the hydraulic pressure in the material that is deficient is higher than normal, we should start to check for possible causes for the obstruction from the furthest point away from the unit (gun) and move upstream.
4. In the event that the hydraulic pressure in the material that is deficient is lower than normal, we should start to check for possible causes for the obstruction in the furthest point away from the machine (product feed) and move downstream, starting with the products tanks.

In any case, repair works should be carried out as soon as possible. The unit should be open and in contact with the air as brief a time as possible in order to avoid other problems such as incoming humidity in the system or crystallization of the isocyanate.

In the event of the unit being exposed to the atmosphere, it will be vital to make it work for enough time to shift the material that there was in the unit when opened.



## 16. LOCATING INCIDENTS.

The CN-4 machine has been designed and built to withstand severe work conditions with a high degree of reliability, on the condition that it is used and maintained in the appropriate manner. See below for information on possible incidents that may cause problems preventing continuing to operate with the Machine. The information provided should be use as a guide to be able to detect and solve most of the problems before resorting to the Celtipol technical assistance service. In any case, feel free to contact the technical assistance service where a team of qualified technicians will attend to you and will assess you wherever you may require.

***Repairs conducted by non-qualified personnel or the use of spare parts that are not the originals may be hazardous for the operator.***

### Possible incidents:

1. Failure of the pneumatic supply:
  - Check that there is pressure in the air inlet pressure gauge.
  - Check that the air stopcocks are in the open position.
  
2. Unbalanced pressures:

LDcompensation of pressures occurs when an obstruction in the hose or in the gun prevents one of the components to be freely released through the gun chamber when projected or when a problem in the pumping system prevents one of the components from being able to reach the gun in the required amount.

To determine whether decompensation occurs as a result of an obstruction or as a result of a problem in the pumping system, project with the gun, observe the pressure indicated on the pressure on the pressure gauge in the other component: if the pressure of the missing component is higher, decompensation is the result of an obstruction. If the pressure is lower, decompensation is the result of a problem in the pumping system.
  
3. Failure in the ends of stroke in change of direction.

The dosing pump system has two limit switches to change the direction of the pumping unit.

If one of them fails, the pump unit will lock in position near where the end of stroke has failed.

Check:

  - a. That there are no foreign bodies preventing the contact with the end of stroke.
  - b. Manually activate the directional valve to rule out any failure in the same.



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#### 4. Obstruction in the product inlet filters.

An obstruction in the inlet filter of any of the products causes the pressure gauge to show a pressure below normal or even show a value of zero, while the pressure of the other product will be increased.

Proceed to clean both filters.



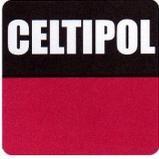
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## 17. COMPONENTS LIST:

<b>1025</b> Cylinder cover.....	p-10	<b>3045</b> Upper Piston rod.....	p-11
<b>2020</b> Swift connector air gun.....	p-20	<b>3046-A</b> Cylinder body.....	p-11
<b>2100</b> LIQUID FILTERS UNIT.....	p-9, 16	<b>3047-A</b> Pump base.....	p-11
<b>2103</b> O-ring Øin. 30x2.....	p-16	<b>3061</b> O-ring.....	p-11
<b>2104</b> Filter body.....	p-16	<b>3064</b> Lubrication elbow.....	p-12
<b>2105</b> Filter holder.....	P-16	<b>3065</b> Fitting 1/4".....	p-12
<b>2106</b> Filter .....	p-16	<b>3066</b> Stop 1/8".....	p-12
<b>2107</b> Safety ring.....	p-16	<b>3071</b> Elbow with racor 1/8"NPT.....	p-14
<b>2108</b> Watertight washer 3/4".....	p-16	<b>3072</b> Piston guide.....	p-11
<b>2109</b> M-M 3/4"-1"1/16 Joint.....	p-16	<b>3100-C</b> Armaflex thermal coating.....	p-20
<b>2111</b> Plug 3/8".....	p-16	<b>3500</b> Bicolor anti-abrasion covering.....	p-20
<b>2112</b> Watertight washer 3/8".....	p-16	<b>5530</b> O-ring Ø122intx5,3.....	p-13
<b>2113</b> Joint M 3/4" - F 3/4" .....	p-16	<b>5532</b> Screw M12x70.....	p-13
<b>2150</b> Liquid outlet.....	p-10, 17	<b>5534</b> Pump release.....	p-13
<b>2151</b> Gauge-outlet coupling.....	p-17	<b>5535</b> Screw M12x60.....	p-13
<b>2204</b> Lubrication pump spare parts Kit .....	p-16	<b>5541</b> Bottom base plate.....	p-13
<b>2205</b> Piston Ø130 spare parts Kit.....	p-13	<b>5542</b> Bottom cylinder head.....	p-13
<b>2206</b> ISO pump Ø32 spare parts Kit.....	p-14	<b>5544</b> Cylinder body.....	p-9, 13
<b>2207</b> POLY pump Ø32 spare parts Kit.....	p-15	<b>5546</b> Piston nut M20.....	p-13
<b>2208</b> Liquid filter spare parts Kit.....	p-16	<b>5547</b> Piston rod.....	p-13
<b>2701</b> Isocyanathe line.....	p-18	<b>5548</b> Piston.....	p-13
<b>2702</b> Polyol line.....	p-18	<b>5550</b> Piston seal.....	p-13
<b>2703</b> Isocyanathe hose.....	p-20	<b>5551</b> Cylinder head.....	p-13
<b>2704</b> Polyol hose.....	p-20	<b>5553</b> Screw M14x200.....	p-13
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## 18. COMMERCIAL GUARANTEE.

Dear customer,

We thank you for your deference in purchasing this CELTIPOL product and hope you are satisfied with your purchase. In the event that this CELTIPOL product requires any service during the guarantee period, our technical service will assist you at the following address:

**Faustino Santalices, Nº 35 - Bande - (Ourense) España**  
**Telf.: +34 988 443 105 - Fax: +34 988 444 410**  
**E-mail: info@celtipol.com**

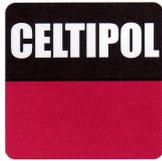
### YOUR GUARANTEE:

Through this consumer guarantee, CELTIPOL warrants the product against faults in material and workmanship for a period of 2 years from the original date of purchase.

If during this guarantee period the product has faults in materials or workmanship, CELTIPOL will repair or replace (at CELTIPOL's discretion) the product or its faulty parts, under the conditions specified below and without any charge for workmanship or parts. CELTIPOL reserves the right (at its sole discretion) to replace components of faulty products or to replace low-cost products with new or recycled products, in accordance with the laws of each country.

### Conditions:

- 1. This guarantee is valid only when presented with the original invoice or sales receipt (indicating the date of sale and model purchased) along with the faulty product. CELTIPOL reserves the right not to offer the free guarantee service if these documents are not presented or if the information they contain is incomplete or illegible.**
- 2. This guarantee does not cover or pay for damages resulting from changes or adjustments that may be made to the product, without the prior written consent of CELTIPOL in order to comply with safety or technical standards, national or local, in countries other than those for which the product has been designed and manufactured.**
- 3. This guarantee shall not apply if the serial number of the product has been altered, deleted, has disappeared or is illegible.**
- 4. This guarantee does not cover any of the following:**
  - a. Regular maintenance and repair or replacement of parts resulting from normal wear and tear.**
  - b. Damage resulting from misuse, Including:**



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- Failure to use the product for purposes other than those for which it is designed or failure to comply with CELTIPOL's instructions for use and maintenance.
- Installation or use of the product in a manner that does not comply with the technical or safety regulations of the country where used.
- Repairs carried out by a non-authorized technical service or by the consumer.
- Accidents, lightning, water, fire, inadequate ventilation or any cause beyond the control of CELTIPOL.
- Electronic components (inside the control panel) affected by bad connections or sudden voltage changes (electrical fluid deficiencies).
- Faults of the system to which this product is incorporated.
- This guarantee has no influence whatsoever on the legal rights of the consumer granted by the applicable national legislation, nor on the rights of the consumer vis-à-vis the distributor deriving from the purchase/sale contract established between the two.



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## 19. CE DECLARATION



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Ec declaration of conformity

### Ec declaration of conformity

According to Appendix II, No.1 A of the Machinery Directive 2006/42/CE

The company:

**CELTIPOL S.L.**

**C/ Faustino Santalices, 35**

**32840 Bande – Ourense-Galicia**

**SPAIN**

Declares that the equipments types:

**CN-4**

With Serial-No.:

Are in conformance with the provisions of the above-mentioned directive.

Bande, 09.03.2021

Place, Date

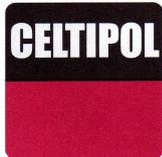


José Torres Ambrosio

Manager

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**Fabricado en España  
Made in Spain**