

PACIFIC E35
PACIFIC EG35

**HIGH PRESSURE BREATHING
AIR COMPRESSOR**



User's and Maintenance Manual

This User's and Maintenance Manual contains general information and instructions for the operation and maintenance of high pressure breathing air compressor **PACIFIC E35 – EG35**. All users must read this manual carefully and understand it in its entirety before operating the machine.

WARNING. The operation of this machine is to take place only after having read this manual in all its parts.

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1**BASIC INFORMATION**

1.01 WARNING SYMBOL EXPLAINED:

This manual contains special messages to bring your attention to important information regarding safety and proper operation of the machine. The symbol below is placed in different parts of the manual next to paragraphs that all users must be fully familiar with. Make sure you read all the information carefully to avoid injury and/or machine damage.

**1.02 PRECAUTIONS:**

The compressors are manufactured in accordance with the EC Machinery Directive 2006/42/EC, in accordance with the Law on General Product Safety dated 01/05/2004 on noise emissions and in accordance with the Machinery Directive, Annex I, Section 1.7.4. and following. The machine is constructed in a workmanlike manner and in accordance with technical and operational aspects of safety management.

NARDi COMPRESSORI also declares that the compressor has been subjected to a compliance pressure test, certifying with our 'DECLARATION OF CONFORMITY' that the product complies with Pressure Equipment Directive 2006/42/EC.

Before using the compressor we recommend reading carefully the following indications:

1. Read carefully the manual for the proper operation of the compressor.
2. Do not allow the air that comes out from the compressor to be directed to people or animals.
3. Do not operate the compressor in damp places and/or places without good air ventilation.
4. Make sure the compressor is placed in a stable position.
5. The maximum pressure of the compressor is clearly indicated on the compressor itself.
6. When using the compressor place it in a fresh, well ventilated location and away from heat sources.
7. The compressor can reach high temperatures during operation.
8. Do not to allow children to handle the compressor even when it is turned off.
9. Do not use the compressor to suck/compress gases other than ambient air or air with an oxygen content higher than 21%.

1.03 BRIEF INTRODUCTION:

PACIFIC E35 - EG35 is a high pressure compressor used to compress air for breathing in scuba diving, fire fighting and military applications, among others. The maximum compression pressure can arrive at 420 bar and the exercise pressure can be 225 bar or 330 bar.

Main parts of the compressor:

- Pump Unit
- Electric Motor
- Series of separators and filter
- Filling hoses and connectors for cylinders
- Protection and anti-vibration system
- Automatic condensate drain*
- Electronic control system*
- Automatic start and stop system*

(*) These features can be optional based on the model and can be requested when ordering the compressor.

1.04 DESCRIPTION OF THE COMPRESSOR BLOCK :

The compressor block **PACIFIC 35** has a range of use for high pressure air up to a maximum of 330 bar (4700 psi). The compressor consists of four stages put into operation by three pistons. The first and second stages are in the center, the third is on the right (fig.1) and the fourth is on the opposite side.

The compressor block is a single body unit including several intermediate separators that are placed between the cooling serpentine (inter-cooler) of the various stages. The flywheel of the compressor does not require balancing because it is made of ultra-light alloy materials while the compressor has a crankshaft complete with counterweights that eliminate vibration due to dead times or non-compression times.

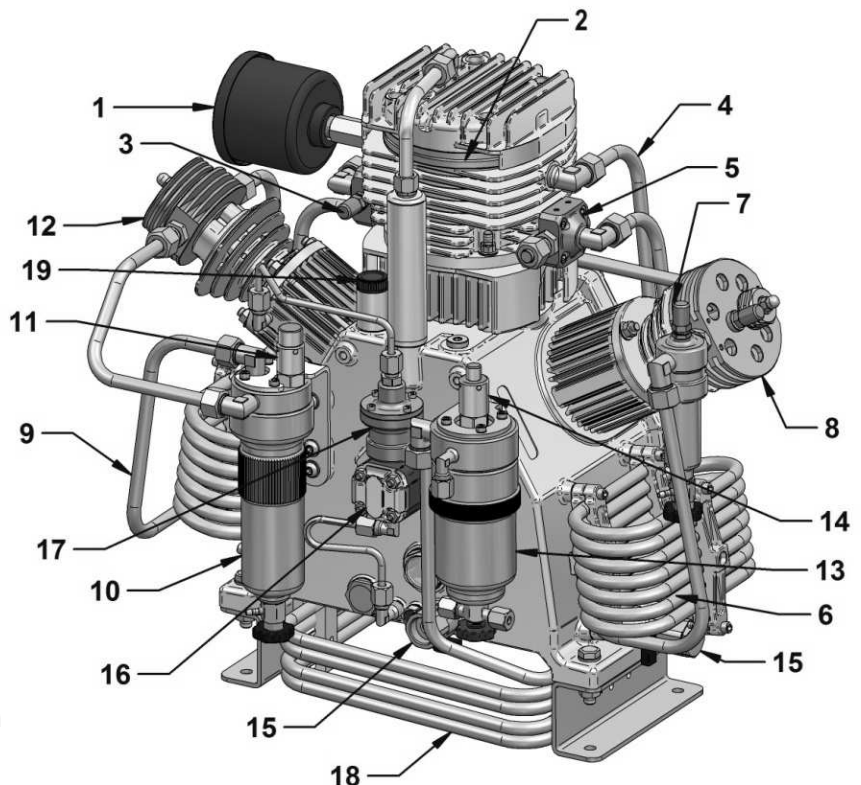
The movement of pistons is transmitted through the connecting rods using roller bearings. The roller bearings have a high workload and as a result the mechanism is very strong. Cylinders are made in aluminum with a barrel in cast iron inside.

This allows the machine to be the most technologically advanced product available in the market. The main advantage is that the cooling fins dissipate heat much faster and is more resistant to corrosion, compared to cast-iron.

The machine has a large capacity oil storage sump of 3,5 liters, a gear oil pump for forced-feed lubrication followed by an oil filter and a magnet that holds back all the iron particles inside the sump. This way the oil will remain clean which in turn makes the machine more reliable.

COMPRESSOR BLOCK COMPONENTS:

1. Intake filter 1st stage
2. Compression valve 1st stage
3. Safety valve 1st stage
4. Intercooler 1st stage
5. Compression valve drain 2nd stage
6. Intercooler 2nd stage
7. Safety Valve 2nd stage
8. Head 3rd stage
9. Intercooler 3rd stage
10. Intermediate separator 3rd stage
11. Safety valve 3rd stage
12. Head 4th stage
13. Intermediate separator 4th stage
14. Safety valve 4th stage and relief valve
15. Oil sump drain plug and tap
16. Gear oil pump for forced-feed lubrication
17. Oil filter
18. Intercooler 4th stage
19. Oil refill plug



1.05 DESCRIPTION OF PACIFIC E35 - EG35 :

The structure of the **PACIFIC E35 - EG35** is very robust, designed to suppress vibration discharging it on the ground. All the elements, the internal structure and the walls around the internal structure are painted with epoxy coatings which grant an extraordinary resistance to corrosion. This ensures longer lasting of the equipment and as a consequence it extends the life of the compressor block inside.

The air filtering system is placed in the front part of the compressor, in the outside, in order to simplify and expedite the replacement of the filter cartridge. It is possible to add a second filtering system (optional accessory) that can be placed next to the filtering system present in the compressor.

In the front, we also find the electric control panel and the final pressure gauge. Up to four filling valves can be used to connect filling hoses and connectors. The condensate drain valve is placed in the back of the compressor.

COMPRESSOR COMPONENTS:

1. Electronic control panel
2. Final pressure gauge
3. Filling valves and hoses
4. Filtering System PAC FILTER 1
(PAC FILTER 2 or 3 is optional)

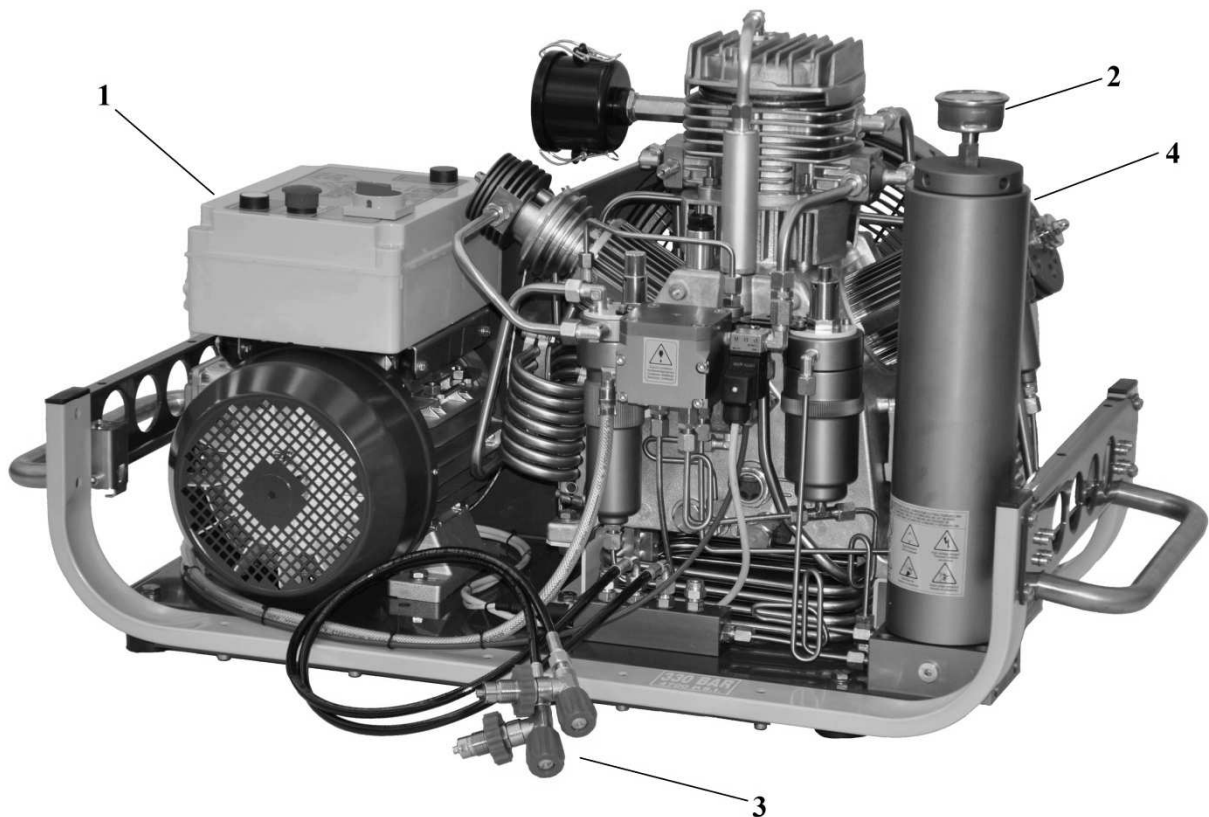
**1.06 TECHNICAL DATASHEET PACIFIC E35 - EG35 :**

TABELLA CARATTERISTICHE TECNICHE - TECHNICAL DATA

Description	Descrizione	Unità - Unit	PACIFIC E35		PACIFIC EG35	
Working Pressure	Pressione di esercizio	PN	200	300	200	300
Charging rate	Aria Resa	L/min. – m ³ /h – cfm	350 – 20,5 – 12		350 – 20,5 – 12	
Safety Valve Pressure	Pressione di esercizio	Bar – Psi	225-3200	330-4700	225-3200	330-4700
Compressor block	Gruppo pompante	Name – Nome	PACIFIC 35		PACIFIC 35	
Number of stages	Numero di stadi	N°	4		4	
Number of connecting rods	Numero di bielle	N°	3		3	
Pressure 1st Stage	Pressione 1° stadio	Bar / Psi	3 – 43		3 – 43	
Pressure 2nd Stage	Pressione 2° stadio	Bar / Psi	16 – 230		16 – 230	
Pressure 3th Stage	Pressione 3° stadio	Bar / Psi	80-1160		80-1160	
Pressure 4th Stage	Pressione 4° stadio	Bar / Psi	225 - 3200	330 - 4700	225 - 3200	330 - 4700
Compressor Block Oil capacity	Capacità coppa dell'olio	Liter – gal(US)	3,5 – 0,924		3,5 – 0,924	
Speed Compressor	Giri Compressore	r.p.m.	1550		1550	
Oil Type	Tipo di Olio	Name – Nome	NARDI OIL 750 PLUS			
Environment working temperature	Temperatura ambiente di lavoro	°C / °F	From +5°C to +45°C / From +41°F to +113°F			
Max inclination of compressor	Max inclinazione del compressore	Grade – Gradi	5°		5°	
Max operating height	Max altezza dal livello del mare	Meter / Feet	2000 / 6500		2000 / 6500	
Power pump weight	Peso gruppo pompante	Kg. / lb	51 / 112		51 / 112	
Dry and oil intermediate separator	Separatori acqua olio	N°	3		3	
Filtration	Sistema Filtrante	Name – Nome	PAC 1 **		PAC 1 **	
Interstage coolers and after coolers	Tubi di raffreddamento	Material – Materiale	Acciaio Inox – Stainless Steel			
Breathing air	Aria respirabile	Directives - Direttive	UNI EN 12021:2000 – ANSI/CGA E – Z180			
Filling time single cylinder 10 L. 0-200 Bar	Tempo ricarica bombola 10 L. 0-200 Bar	Min.	05': 47"		05': 47"	
Motor	Motore	Type	Three		SUBARU	
Operating power	Tipo di energia	Volt / Hz – Fuel	230 → 690		PETROL / GASOLINE	
Power	Potenza Motore	Kw	7,5		10	
Noise level	Pressione Sonora	dB	82		88	
Type of enclosure	Protezione	IP	55		54	
Current Rating	Assorbimento	Ampere	25,8 (230) - 15(400)		-	
Weight	Peso	Kg. / lb (US)	123 / 271		123 / 271	

** Standard filtration system - ** Sistema filtrante standard

2

SAFETY REGULATIONS FOR THE USE OF THE COMPRESSOR

2.01 IDENTIFICATION OF SAFETY REGULATIONS FOR THE OPERATOR:



It is very important to check and be familiar with the potentially dangerous parts of the machine before putting it into operation. In order to facilitate this, warning labels have been placed to identify the following: High pressure, pressure valve, rotating fans, hot surfaces, etc.

Additionally, some components are mounted on the machine for accident prevention and global security that in the event of malfunction or breakdown intervene so as not to cause danger to the life of the operators.

These components should always be present and cannot be removed or modified. In case of need contact our technicians. The operator should make sure that the equipment and the safety components are in good working condition at all times.

The compressor needs to be checked regularly by the operator and by technicians who will replace any worn or damaged components.

2.02 SAFETY REGULATIONS FOR THE OPERATOR AND FOR THE PROPER USE OF THE COMPRESSOR:



The operators of the compressor must have technical knowledge about breathing air, be aware of current regulations and be familiar with the operation of the machine perfectly. In the case of delegation of work, the operator of the compressor should take all necessary measures to inform the next operator of all the maintenance operations required.

The compressor is designed to produce compressed breathing air in accordance with regulation DIN EN 12021.

It draws air from the surrounding environment (the operator must make sure intake air is devoid of fumes and / or harmful gases) and passing through an air intake filter it begins the cycle of compression / filtering until the air arrives at the cylinder in high pressure.

2.03 SAFETY ESSENTIALS:



- **Fill only inspected and tested cylinders and never exceed their working pressure.**
- **The compressor must not take in fumes, frost or polluted air, it should not be placed in areas where there is dust, danger of explosion, corrosion or fire.**
- **If the compressor is driven by a combustion engine, its use is prohibited in closed environments. In any case, make sure that air intake is opposite to the direction of the fumes coming from the engine. Refueling must be done only when the machine is shut off.**
- **Make sure that when you service the machine or replace any spare parts on the compressor, it is not pressurized and the power cable is disconnected from the power line.**
- **Regularly replace air filter cartridges only with genuine products from Nardi Compressori (tested material).**
- **Drain the condensate regularly if the compressor has a manual drain. In the case of automatic condensate drain check that this happens in periods not exceeding 10 minutes. Check daily the operation by manually draining the condensate.**
- **When the compressor is not in use turn the power off, do not tug at the wire but use the plug to unplug it. Make sure the power cable does not go against any sharp edges or bend at an angle (in this case, it is recommended to use an extension).**
- **Periodically check the condition of the filling hoses (hoses for high pressure), especially near the joints and if minor defects are present replace them. In any case, hoses must be replaced every 12 months.**

- Check regularly the condition of the fittings.
- Do not repair damaged parts if you do not have original parts from Nardi Compressori.
- Do not modify the machine except with express written authorization from Nardi Compressori.
- In case of visible wear and tear of any components of the compressor, do not use the machine until the worn parts are replaced with original parts. Check if there is additional damage to other parts of the compressor.
- Before starting the machine, make sure no one is in contact with it.
- Be careful about any moving parts and do not get in contact with them.
- Do not change the ventilation system of the compressor and make sure it is positioned so as to ensure the proper circulation of air.
- When starting the compressor, make sure that the sense of rotation of the compressor is equal to that indicated by the arrow on the fan wheel cover.

2.04 GENERAL SAFETY CONSIDERATIONS:

1. The operator qualified to use the compressor, shall be aware of all the provisions and devices to control the machine, tools, indicators and all the information on the various stickers/labels attached to the machine.
2. Always have first aid supplies, and a CO2 fire extinguisher. Make sure the extinguisher is fully charged and ready to work at all times.
3. When operating the compressor, use appropriate protective clothing such as safety shoes, goggles, gloves and so on.
4. Always disconnect the power cable when performing operations within the compressor, never perform any operations on it with the power on while the compressor is in operation.



3

WARRANTY AND ASSISTANCE

3.01 WARRANTY OF THE COMPRESSOR:

NARDI COMPRESSORI warrants the **PACIFIC E35 - EG35** for a period of twelve months from the date of purchase, indicated on the label fixed on the compressor.

During the time of production and testing a label is fixed on the machine showing that it is **in conformity with the standards of the European Union** showing the **CE** marking. The warranty is voided if this label is by any reason removed or altered in any way.

For the warranty to be valid, it is necessary that the own complies with the provisions of the contract and that the compressor is used as specified by Nardi Compressori and is not been altered or modified in any way without the agreement and authorization of **NARDI COMPRESSORI**

The warranty is not applicable when:

- The machine has not been used properly (as indicated in this manual).
- Non-guaranteed consumable materials and materials of periodic maintenance are used, particularly if used improperly.
- Non original **NARDI COMPRESSORI** spare parts and replacements are used.
- Gases other than air are sucked/compressed or air with oxygen content higher than 21%.

The replacement of defective parts under warranty will be performed free of charge at Nardi Compressori's location in Montecchio Maggiore or at the location of our authorized dealers.

Repairs and replacements made by **NARDI COMPRESSORI** or from an authorized dealer during the warranty period, do not prolong the duration of the warranty thereof.

If the repair takes place outside Nardi Compressori, the cost of shipping of replacement parts is for account of the buyer (replacement of defective parts must be performed only by technically trained personnel that **NARDI COMPRESSORI**'s trained staff has assessed/trained and approved before the repair job is done).

If the replacement of the part requires a technician from **NARDI COMPRESSORI**, travel expenses will be borne by the buyer.

3.02 MAINTENANCE AND ASSISTANCE:

To order spare parts please contact or visit our dealers in your area. In case of difficulty in finding a spare part, contact directly **NARDI COMPRESSORI**. We are available for any queries or further information and we will put you in contact with skillful technical staff to help you. If you need service or assistance, please contact us directly at:

NARDI COMPRESSORI

info@nardicompressori.com or by fax Nr. +39.0444.151922

4

INSTALLATION

4.01 UNPACKING AND HANDLING:

The compressor is shipped on pallets and is covered by a box and finally fastened with strapping. After unpacking it is important to check if the compressor has suffered any damage during transit. If any damage is present, it is important to inform the carrier and the seller as soon as possible but no later than 7 days after delivery.

The compressor PACIFIC E35 – EG35 is designed to facilitate handling. In fact, if you look at the bottom, you will notice it has an opening which allows it to be picked up using a forklift.

The compressor is mounted on anti-vibration mounts to avoid transmitting vibration to other things nearby. At any rate, it must be positioned in a stable location. The pump unit is not resistant to the permanent exposure to marine corrosion. In the event it comes into contact with corrosive agents it is recommended to clean the surface and protect it with anti-corrosive spray. Be careful of any electrical parts at all times.

4.02 PLACEMENT IN OPEN AIR:

In order to obtain good quality breathing air it is very important to position the compressor in open places. The compressor must not suck the exhaust fumes of any internal combustion engine.

If the situation makes this impossible, it is necessary to use an extension for the aspiration of fresh air to be set higher and as distant as possible from harmful gases/fumes and away from flammable agents.

Check continuously wind direction and fumes coming from the engine.

The compressors must be positioned in a cool place protected from the weather.

Check Chapter 4.03 for the proximity of walls and roof.

4.03 PLACEMENT IN A CLOSED ROOM AND MINIMUM REQUIREMENTS OF THE ROOM:

The compressor placed in a room, requires a continuous recirculation of fresh air.

Inside the room there should be no liquid that can evaporate (solvents, additives, etc.). **The compressor room must be an absolutely “no smoking” area.**

The compressor must draw unpolluted air and it is preferable to place it in the vicinity of open windows during its operation so as to ensure recirculation of air both to ensure the quality of the air during the compression phase as for the cooling of the compressor.

The minimum requirements of the room are the following:

- The temperature of the room must not be lower than 5° C and should not be higher than 45° C with proper ventilation (see Table A).
- The room should be dry and clean, there should be no dust that can be sucked by the compressor.
- If in the same room two or more machines were placed make sure that the size is adequate (see Table C).
- Place the compressor preferably in the coldest area of the room. In the case of natural ventilation make sure that the compressor is as close as possible to the fresh air intake and that it has the appropriate dimensions. In addition to this there must be an opening in the upper part of the room that gives the possibility to dispose of hot air, and also that it has the appropriate size (see Table A and Fig. 2). The two openings should not be on the same wall, otherwise make sure to direct hot air upwards.

Table A : Minimum room size with natural ventilation.

Volume and Height of the Room					
Volume >50 m ³ - Height >2,3 m		Volume >100 m ³ - Height >3 m		Volume >200 m ³ - Height >4 m	
Intake (A)	Outlet (B)	Intake (A)	Outlet (B)	Intake (A)	Outlet (B)
0,95 m ²	0,78 m ²	0,63 m ²	0,52 m ²	0,25 m ²	0,21 m ²

Tab. A

Table B

Minimum Distance from the Walls	
C	0,10 m
D	0,50 m
E	1,00 m

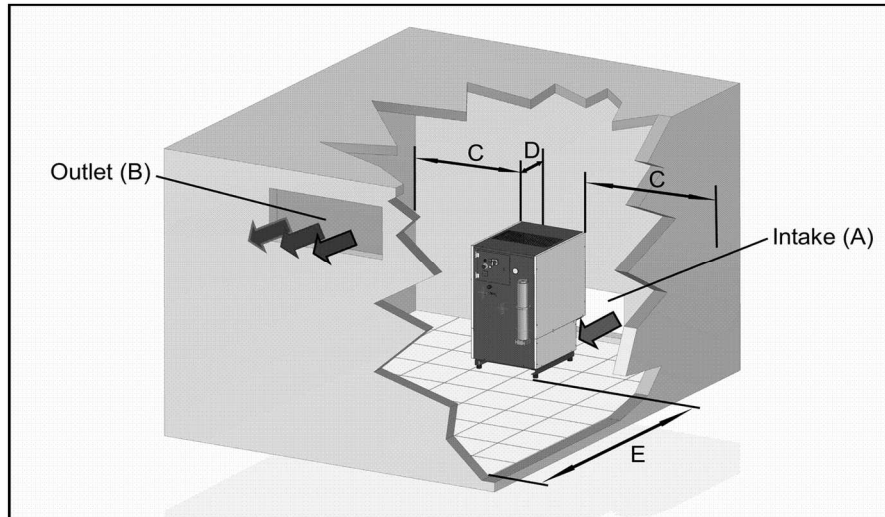


Fig. 2



CAUTION: The size of the openings depend on the heat sources and machinery placed in the room. The dimensions indicated in Table A are for a compressor PACIFIC E35 – EG35 and vary depending on the volume and height of the room. The height of the room should not be lower than 2.3 meters and the minimum distance from the top panel of the compressor to the roof must be 1 meter.

If in the same room two or more machines are placed you have to calculate the ventilation adequate for both machines to work properly. Use the formula on Table C for your calculation.

$$\text{Volume of Air Intake (m}^2 \text{)} = \text{Number of Compressors} \times \text{Volume of Air Required for the Room (m}^2 \text{)} \times 1,6$$

Tab. C



If the room volume is lower than indicated, and vents for air circulation less than those indicated, it is mandatory to insert artificial ventilation (see section 4.04)

4.04 ROOM WITH ARTIFICIAL VENTILATION:

In the case of artificial ventilation it is important to check that the fresh air inlet is positioned at the bottom and the outlet is positioned at the top in two different walls. In the case of extractor fan make sure that the flow rate is equal to or greater than that indicated by calculation (see Table D).

$$\text{Minimum air circulation (m}^3\text{/h)} = \text{Capacity of the compressor (l/min)} \times 7,5$$

Tab. D

To ensure that there is sufficient ventilation and that the fan flow rate is adequate simply measure the speed of the outgoing air (m / sec) and the section of the exhaust duct where the measurement is made (m²) and then calculate it using the formula in Table E.

$$\text{Air circulation (m}^3\text{/h)} = \text{Cross Sectional Area of the Duct (m}^2\text{)} \times \text{Air Speed (m/sec)} \times 3600$$

Tab. E

To calculate the dimensions of the intake duct, it is recommended that the speed of the incoming air is not less than 5 m / sec and should not be more than 10 m / sec. We suggest using the formula in Table F to calculate the cross sectional area of the duct with an air speed of 5 m / sec.

$$\text{Cross Sectional Area of the Duct (m}^2\text{)} = \text{Minimum air circulation (m}^3\text{/h)} / 5 \text{ (Air Speed m/sec)} \times 3600$$

Tab. F

4.05 INTAKE PIPE :

If you decide to place the intake of the compressor in a different location of that of the compressor itself, you can connect a pipe to the intake of the compressor. It is important that this pipe has a diameter of 40 mm or more. Make sure it is not plugged or bent so as to create a bottleneck. At its end it is recommended to put a filter.

Once connected check the time to refill cylinders to make sure that the compressor has not decreased the air delivery.

If this situation is present, check the pipe because the compressor may be going into depression and the causes can be:

- Pipe chokes
- Pipe is too long (In this case the cross sectional area of the pipe should be increased).

4.06 ELECTRIC LINE CONNECTION:

For the electrical installation you must follow these steps:

- In this manual you will find a diagram of the electrical control panel of the compressor that indicates how to connect the compressor to the mains.
- Have an electrician check that the system is compliant and that it can support the maximum power draw of the compressor shown under the CE label by NARDI COMPRESSORI.
- We recommend installing a circuit breaker or fuse adapted to the power consumption of the motor.
 - Check that the current reaches the voltage required by the compressor and that the plug that is used is not undersized.
 - **CAUTION:** When connecting the plug make sure that the fan of the compressor spins in the exact direction of the arrow on the fan wheel cover. To reverse the rotation, just reverse two of the three phases of the plug. Your compressor may have phase sequence problems (wrong sequence on phase connection), in this case it will not turn on until the threads of the phase are inverted as indicated above.
 - Ensure that the ground wire is connected correctly to the plug and to the electrical system.
 - If you change the mains cable make sure it is of the right size.



5

QUICK STARTING GUIDE



WARNING: This QUICK STARTING GUIDE does not replace the Operator's and Maintenance Manual, but is intended to help the operator start the compressor, with quick and practical advice, which should be followed with extreme caution and only after having read this manual in its entirety. We remind you to perform periodic maintenance of the compressor, to avoid unwanted problems.

Getting Started:

- Place the compressor in the desired location
- Connect the condensate drain hose at the back of the compressor
- Check the oil level
- Check that the cartridge is inserted inside the filter housing
- Plug the power cable into the electrical outlet
- Turn the line switch on the electronic panel to the position I - ON
- Pay attention to the direction of rotation of the electric motor. If the plug was connected the wrong way the electronic panel will show "SEQUENCE OR PHASE FAILURE". In this case, invert two of the three wires on the plug of the mains cable.
- To check if it is rotating in the correct direction: If the air comes out from the top of the compressor then it is rotating in the right direction while if the air comes out from the bottom of the compressor then it is rotating in the wrong direction.

SEQUENCE
OR
PHASE FAILURE



Preparation for compressor with petrol engine:

- Place the compressor in the desired location
- Connect the condensate drain hose at the back of the compressor
- Check the oil level
- Check that the cartridge is inserted inside the filter housing
- Check that there is fuel in the tank (never refuel when the engine is hot)
- Turn the selector I - ON
- Pull the starter rope if the compressor has manual start or turn the key if the engine has an electric starter.
- You can see the correct direction of rotation in the picture above. Make sure that air comes out from the top of the compressor, and not from the bottom.

6

OPERATION AND USE

6.01 PREPARING TO START THE COMPRESSOR:

This compressor has been designed to compress ambient air. It is forbidden to modify the intake to compress air other than ambient air. The compressor is constructed to compress air with a percentage of oxygen content which must not exceed 21%. The use of the compressor to draw/compress air with a higher content of oxygen or using other gases, can lead to breakage or to EXPLOSION of the compressor.

All compressors are tested by NARDI COMPRESSORI before delivery, but for powering it on you need to follow these safety steps:

- Before turning on the machine, all the operators of the compressor must read carefully the User's and Maintenance Manual.
- If the compressor has not been in operation for a period longer than twelve months we recommended changing the oil, changing the intake filter and doing a checkup of the compressor by a technician.
- Test the condensate drain valve by pressing the button PURGE and test the emergency button on the electronic control panel.
- Check that the oil level be at MAX (full). If the compressor is driven by a fuel engine also check the oil level of the fuel engine reading the relevant manual. Before powering on the compressor, make sure the fuel tank is full. **Never refuel the engine's fuel tank while the compressor is running.**
- Every time you turn on the compressor follow these steps and if something is not working properly, do not turn on the compressor, and run a maintain check or contact a technician to solve the problem.

6.02 STARTING THE COMPRESSOR:Electric compressor without automatic control system:

This model requires a completely manual work cycle.

The machine must not work alone but must be continuously monitored and manipulated by a skilled person.

The compressor is powered by a simple switch (not supplied) and its march is stopped by staff through the switch itself.

The condensation that forms on the inside of the two or three filters of air / oil separation / water must be drained manually through two condensate discharge valve every 8/10 minutes.

The maximum pressure is indicated by the overload valve through the air outlet.

CAUTION: The pressure relief valve is calibrated and sealed by Nardi compressors. Any modification or sabotage will void all warranties of the compressor.

Compressor driven by an electric motor with Automatic Control System:

This model is provided with an electronic control panel which controls the compressor in all its functions.

Before starting the compressor, follow all the steps in 6.01 above and after press the START button. Automatic condensate drain cycles will begin to execute the opening of the valve every 6 minutes.

At maximum pressure, the machine will automatically shut down.

Press the STOP / emergency button to stop the compressor (once pressed the emergency button needs to be reset).

Gasoline compressor with manual or electric start:

For the ignition of the combustion engine must first download the pressure from the whips load and condensate separators.

Executed this maneuver you can proceed once the engine through the rope pull (manual start) or the key (electric start).

The compressors with manual condensate drains each 8/10 minutes ranging taps open to drain the water and the oil that form inside the filter separation by a competent operator, while if the compressor has the automatic unloading transaction will take place on its own.

6.03 USE OF FILLING VALVES:

CAUTION: Filling valves are very delicate components that allow you to connect the cylinders to the compressor. Filling valves must be used with care, should not be hit, should not be cleaned with solvents or harmful products and most importantly do not exceed the pressure for which they are designed.

Normally 225 bar filling valves are attached to a compressor.

To attach the filling valve to the cylinder you must follow these steps:

- Make sure that the compressor is turned off and that the filling valve and the cylinder valve are closed.
- Attach the filling valve to the cylinder.
- Open completely the cylinder valve.
- Open the filling valve.
- Start the compressor and fill the cylinder.
- At maximum pressure, close the cylinder valve and the filling valve.
- Blow-off any residual air between the cylinder and the filling valve and disconnect the cylinder valve.



If you need to use the compressor at a pressure higher than 225 bar Nardi Compressori can provide the material required to refill at higher pressure with different filling valves, connectors and safety valves with higher calibration.

7.01 MAINTENANCE OPERATIONS:

Your compressor needs regular maintenance and service over time. In addition to stretching the life of the machine, regular maintenance keeps it performing consistently and running efficiently.

During its work cycles the compressor requires regular maintenance that must be performed by technicians trained by Nardi Compressori.

In case maintenance is not performed by our technicians, it is very important to follow the guidelines of the maintenance checklist in all its parts.

In the maintenance checklist you will find all the maintenance operations scheduled that should be performed based on the hours of operation of the compressor.

It is very important to register any and all maintenance operations performed on the compressor, in order to keep a historical record of the parts that have been replaced, the date maintenance was done, the hours of operation of the machine up to the date maintenance is done and the signature of the qualified technician who serviced the machine.



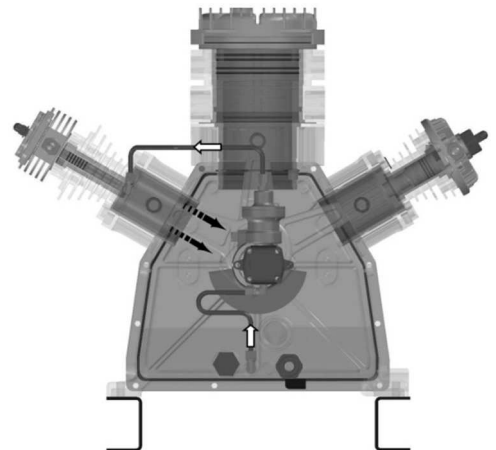
IMPORTANT: All maintenance operations must be performed by the technical staff of NARDI COMPRESSORI or by qualified technical staff.

IMPORTANT: All maintenance operations must be performed with the machine switched off and the power cable disconnected.

7.02 LUBRICATION SYSTEM:

NARDI compressors have two different lubrication systems:

- **Splash Lubrication:** This method of lubrication is done mechanically with the movement of the connecting rod. With every rotation, a dipper, at the bottom of the connecting rod is submerged in oil at high speed. When the dipper emerges from the oil sump in the lower part of the crankcase, the oil is thrown upward as droplets or fine mist, providing adequate lubrication to the cylinders and the crankshaft.
- **Force-feed Lubrication:** This type of lubrication is done through an oil gear pump that force-feeds oil and that is driven by the shaft. Oil sucked from the sump is pumped to the piston of the last stage and filtered by a micron filter. In its movement the oil pump sprays oil to all moving parts.



7.03 OIL:

Oil is a very important component for the life of the compressor over time. Nardi Compressori has studied in detail the compressor so that it has a large capacity oil sump and oil filter. A magnet has been fixed on the case to attract all metallic impurities that settle at the bottom of the case.

Nardi Compressori recommends using our oil that has been designed and tested specifically for this machine. The compressor is usually supplied with oil to be used only with non-mixed air (21% O²).

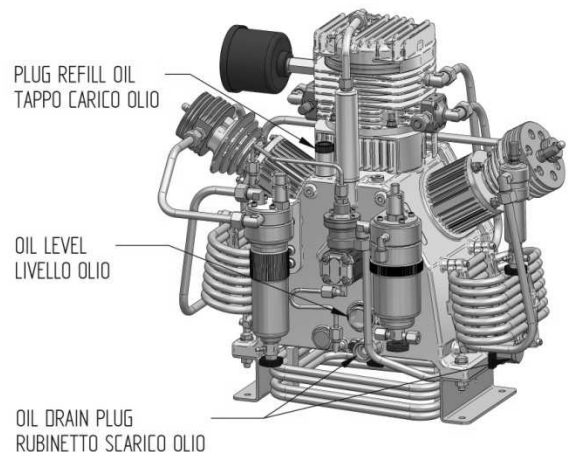
Oil Characteristics:

- Low carbon deposit
- No carbonizing effect
- Good anticorrosive properties
- Physiological and toxicological suitability

7.04 OIL CHANGE:

The steps for changing the oil of the compressor are as follows:

- Make sure you have enough oil on hand to make the change.
- Switch the compressor on for 15 - 20 minutes to heat the oil and make it more fluid.
- Remove the oil refill plug along with the oil breather extension.
- Remove the oil drain plug and before opening the tap make sure you have a container to catch the exhausted oil.
- Close the tap and replace the oil drain plug.
- Pour the new oil slowly down the oil filler neck.
- Make sure that it reaches the maximum level (MAX).
Do not exceed this level.
- Close the oil refill plug.

**7.05 CHANGE TYPE OF OIL:**

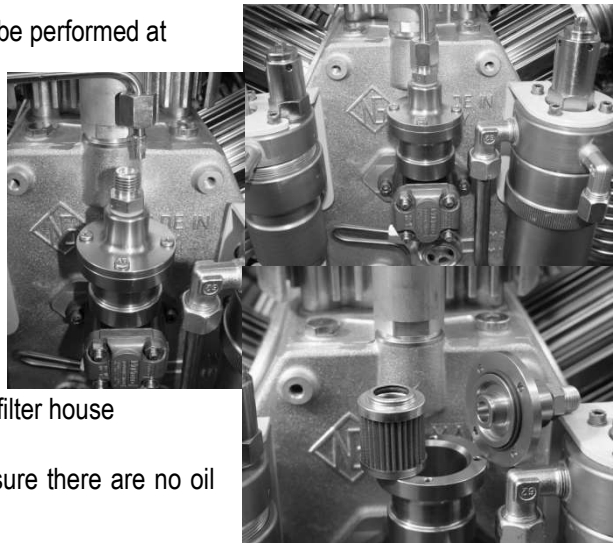
To avoid serious damage to the compressor when changing the type of oil, you must strictly follow the following steps:

- Follow the steps on the oil change Chapter 7.04.
- Change or clean all parts that have old oil.
- After 10 hours of operation of the compressor check if there is contamination.
- If the oil has been contaminated change it again.
- Do not mix different types of oil and always use the same type of oil.

7.06 CHANGE OIL FILTER (Only for compressors with oil pump):

The steps for changing the oil filter are as follows (this is to be performed at every oil change) :

- Unscrew the nut of the fitting that holds the tube that delivers the oil to the last cylinder using a 14mm wrench and disconnect it.
- Unscrew the four screws of the oil filter housing using a Phillips screwdriver.
- Lift the oil filter housing cap with the tube attached to it and remove the filter.
- Check if it is necessary to change the O-ring on the oil filter house housing.
- Close everything, turn on the compressor and make sure there are no oil leaks.



7.07 ALARM OIL LEVEL:

When the oil level drops below the minimum threshold, an alarm (visible and acoustic), is triggered, with a message on the display that shows the scarcity of oil in the compressor

OIL LEVEL

It is necessary to do a top up of oil to the compressor, as described above, up to the maximum level. Press "RESET" on the front of the electronic control panel, so as to reset the alarm and then "START" to start the compressor. In the event that, within a short time, the oil level alarm is triggered again, you need to call a technician to check any possible anomaly.

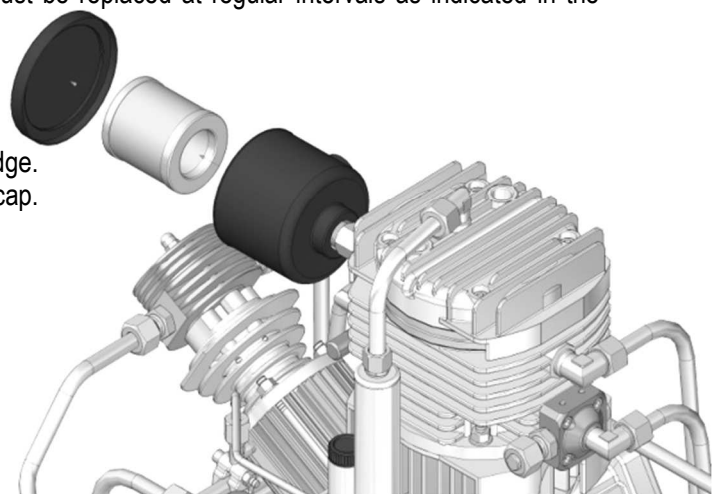
7.08 CHANGE INTAKE FILTER:

The filter traps any impurities present in the environment. It must be replaced at regular intervals as indicated in the maintenance checklist.

It should not be washed but replaced.

The steps for changing the filter are as follows:

- Release the latches on the lid and remove the filter cartridge.
- Clean with a damp cloth inside the filter housing and the cap. Insert the new filter cartridge and close the lid.



7.09 MAINTENANCE OF INTERMEDIATE SEPARATORS:

In the compression phase the air undergoes a temperature increase that from one stage and the other is cooled by a series of cooling coils (intercooler). This sudden thermal change produces condensation which is eliminated by intermediate separators. Within the intermediate separators there are filtering elements that need to be changed periodically.

The steps for changing the filtering elements are as follows:

- With the compressor switched off, depressurize the separators using the condensate drain tap.
- Unscrew the bottom part of the separators.
- Unscrew the filtering element and replace it with a new one.
- Wipe the bottom of the separator housing with a damp cloth and make sure there is no corrosion.
- Replace the O-rings.
- Close the separator securely.

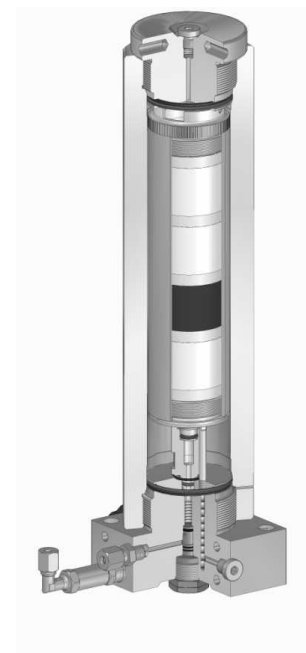
When used at a pressure exceeding 300 bars, intermediate separators must be replaced after 10000 hours.

7.10 CARBON FILTER FOR BREATHING AIR:

The carbon filter is used to remove the water and oil residues that have passed the intermediate separators. The filter operates in a chemical fashion, not mechanical, with materials that absorb water and oil particles, making the compressed air breathable in compliance with European Standard DIN EN 12021

The filter has two safety features. The first consists of a hole in the filter body (safety cartridge bore) that is closed when the cartridge is inserted. Its importance is that it makes it impossible to fill the cylinders if the cartridge is missing. The second safety feature is a milling cut on the thread of the filter body (safety de-pressure filter). In the case the filter head came accidentally unscrewed without depressurizing the compressor; this milling cut provides a discharge path for the air that is contained inside the filter to be released.

The life of the components of the filter is determined by the number of work cycles since the filter base and the filter head are subjected to dynamic loads due to pressurization and depressurization of the filter. Nardi Compressori recommends that a technical inspection be performed every 500 hours of operation. The filter cartridge should be replaced once exceeded the 8000 cycles at 300 Bar or 21000 cycles at 225 Bar. With a rough estimate of 4 cycles per hour at 300 bar, the filter cartridge must be replaced after 2000 hours of operation. At 225 Bar, the filter cartridge must be replaced after 5000 hours of operation.



7.11 CARBON FILTER CARTRIDGE:

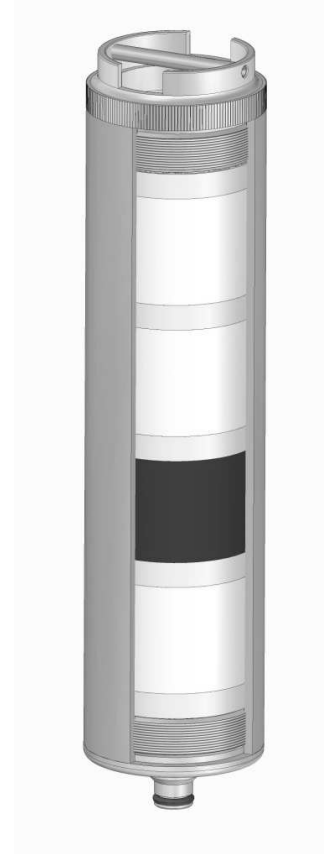
There are two types of cartridges : for electrical compressors (picture on the left) the filter removes water and oil residues. For compressors driven by fuel engines (picture on the right), in addition to water and oil, the filter removes CO.

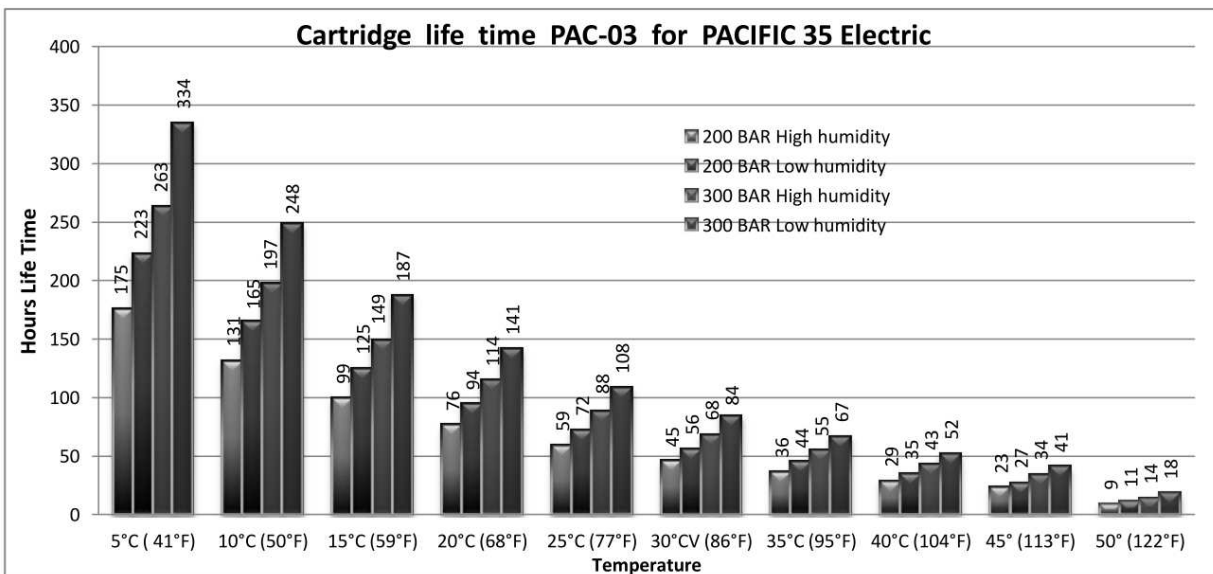
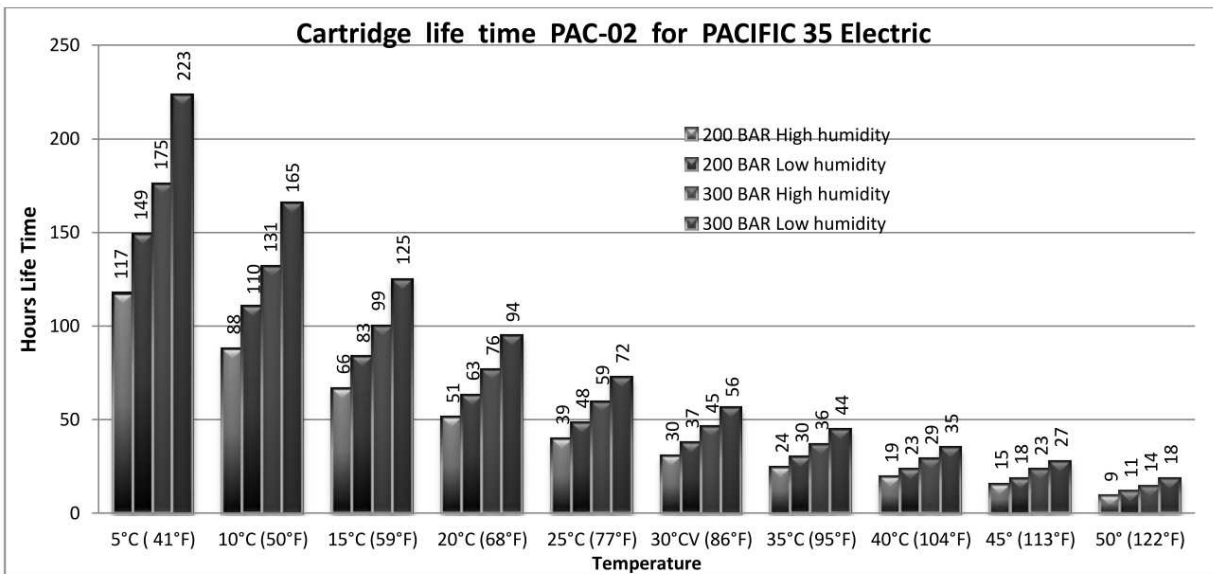
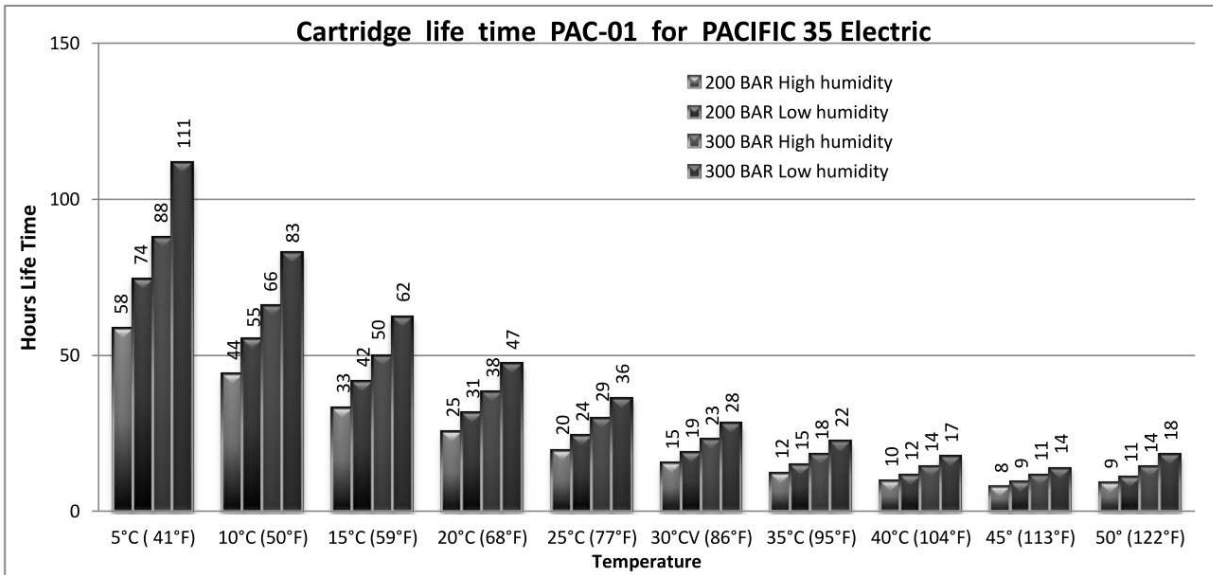
The steps for the replacement of the cartridges are as follows:

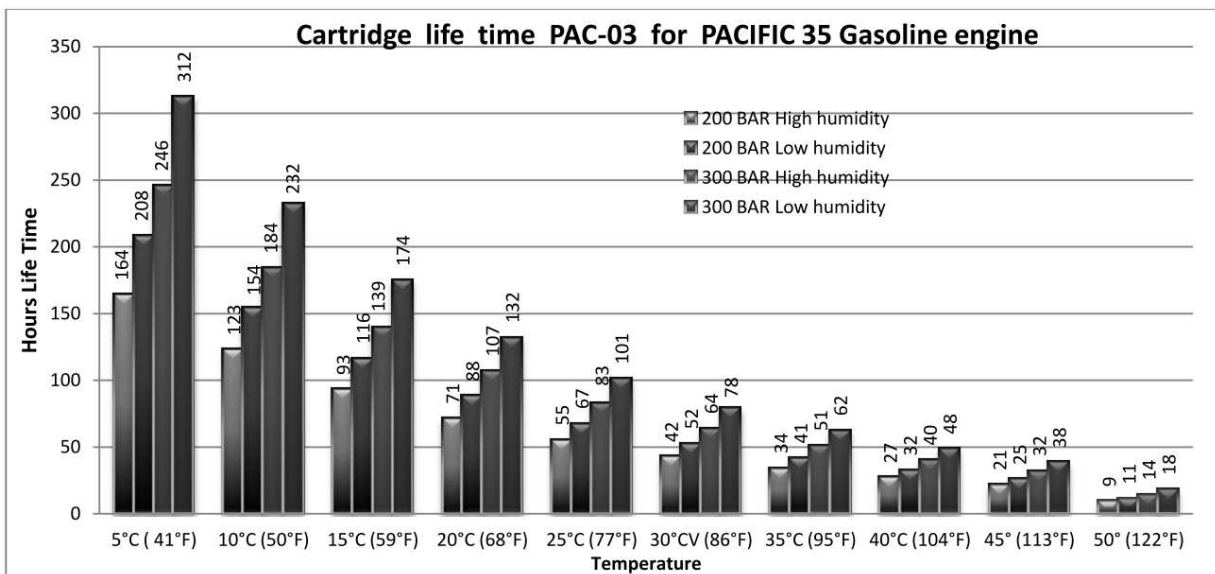
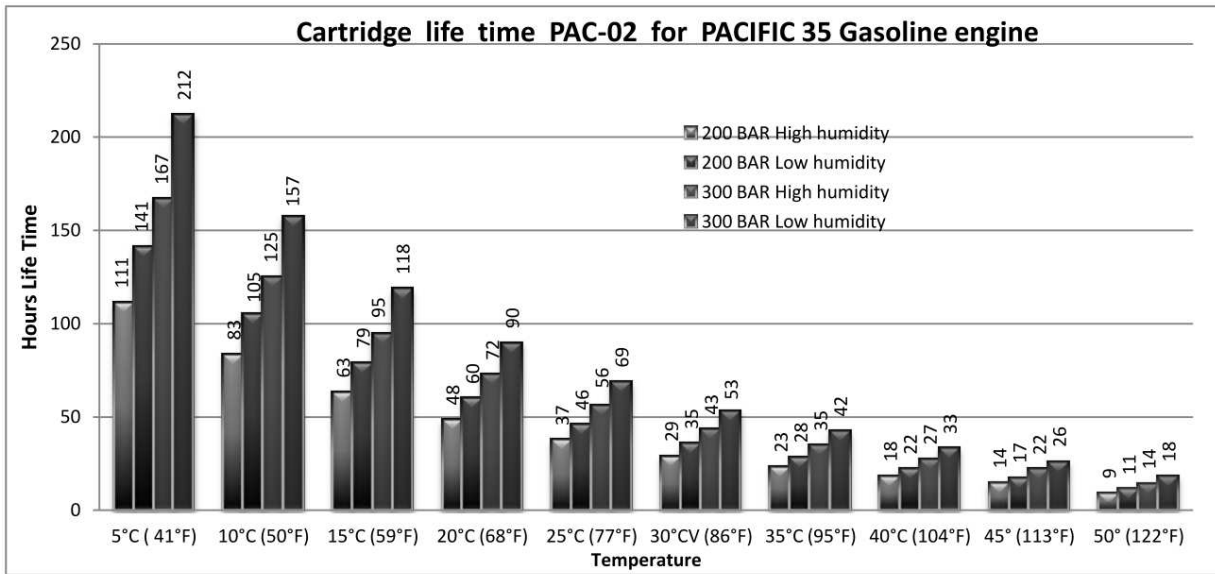
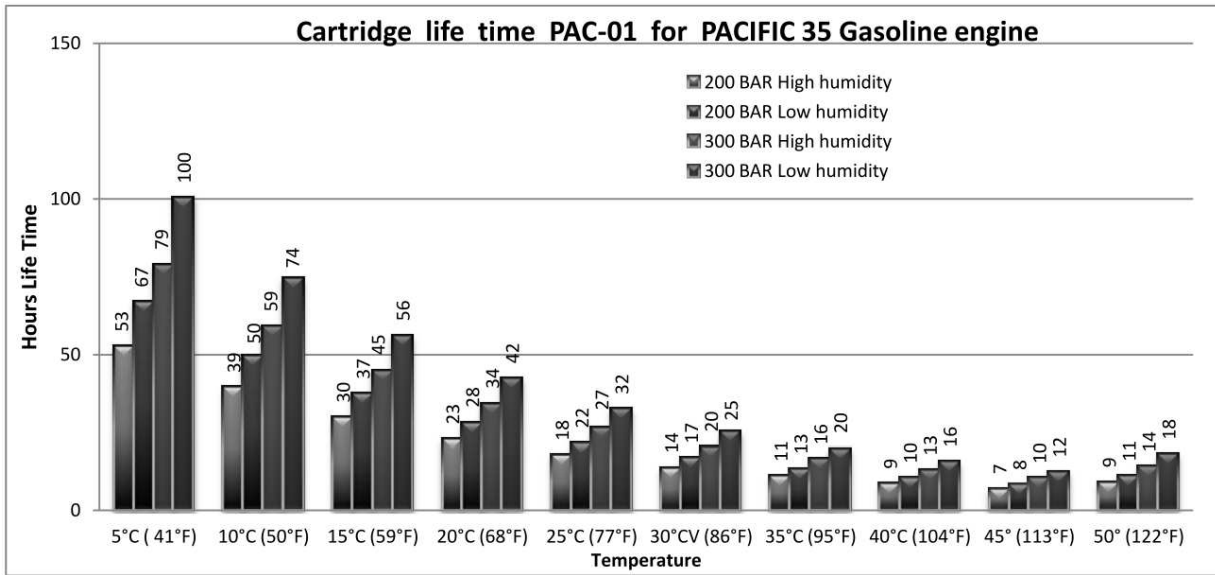
- Depressurize the entire system before performing any operation.
- Unscrew the filter head and handle it carefully to avoid damaging it.
- Unscrew the cartridge.
- Wipe with a clean cloth the inside of the filter.
- Insert the new cartridge inside the filter housing.
- Check the condition of the O-ring of the filter and change it with an original O-ring, if damaged.
- Screw the filter head by hand (do not use any tools).

The life of a cartridge depends upon many factors including environmental conditions, ambient air humidity, temperature, air flow rate of the compressor, the size of the cartridge itself, etc.

The new cartridge should be kept in dry environments. Cartridges are vacuum packed to maintain reliability and the package must remain closed until the cartridge is ready to use. The cartridge should always be changed if it has exceeded an idle time of 2 months mounted on the compressor without being used. It is recommended you use only original materials supplied by Nardi Compressori. The users who wish to regenerate their cartridges have to be well prepared to do this and should use only materials from Nardi Compressori. The tables provided by us have been developed using constant parameters and apply to new cartridges, not regenerated, as supplied by Nardi Compressori.







7.13 PRESSURE MAINTAINING VALVE:

This type of valve has the purpose of maintaining constant pressure in the final filter. In this way, it is possible to eliminate a greater volume of water, improving the air quality and the life of the cartridge. When the compressor is switched on, the valve stays closed until the entire system reaches 150 bar, and subsequently it opens.

This valve is set by NARDI COMPRESSORI. No further calibration is required.

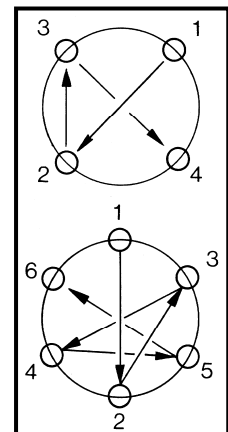
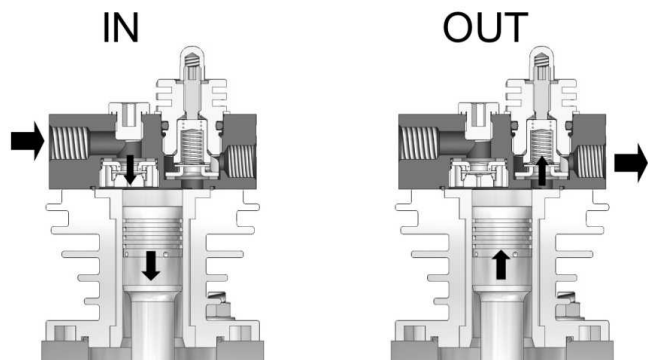
7.14 HEADS AND COMPRESSION VALVES:

The intake or exhaust compression valves are either reed type or plate type. Normally in the first stage there is a reed valve which opens and closes according to the flow of air that is created by the piston motion. The system operation is the same in all the various stages. The only thing that changes is the type and size of the valves and the plates.

It is important that the valve replacement and cleaning is performed by trained personnel.

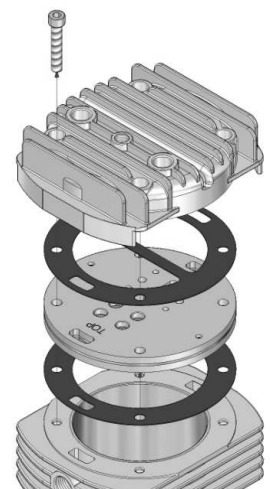
The steps for replacement of the valves are the following:

- Replace all the parts of the valve and not just some elements.
- Carefully clean the valves and remove all carbon deposits without scratching the valve.
- Be careful when reassembling the valves to follow the right sequence of the components.
- If the valve show scratches due to wear, it must be replaced.
- Replace the O-rings.
- Pay close attention to the image on the right, which shows the tightening sequence of the head screws.
- After performing the maintenance of the valves, switch on the compressor for 30 - 40 minutes, then switch it off and check again the closing of the screws and the dowels that compress the discharge/outlet valve of the lateral cylinders.
- The valves must be checked every 500 hours of operation.
- After 1000 hours of operation the valves and all of their components must be replaced.



7.15 VALVE REPLACEMENT – FIRST STAGE:

Look carefully at the image below for the exact positioning of the valve and make sure that the written word "TOP" or the letter "T" is facing upwards. If seals or O-rings are not in good condition, they must be replaced.

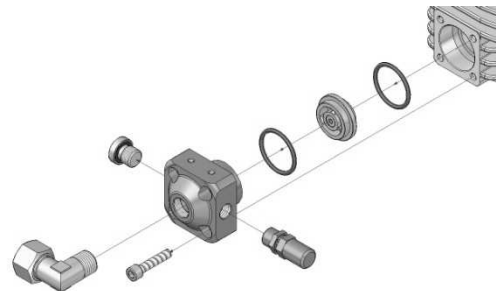


7.16 VALVE REPLACEMENT – SECOND STAGE:

In this stage, the intake and exhaust pressure valves are two separate valves and are located at opposite ends of the cylinder.

To replace the valve, you need to:

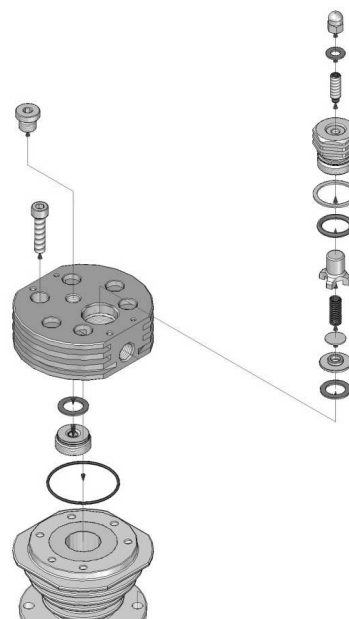
- Disconnect the cooling coils of the intercooler from the fitting.
- Unscrew the four screws that secure the valve cover.
- Remove all parts that are inside of the hole that houses the valve.
- Clean the valve and if you see worn parts replace the entire valve.
- Replace all components following the same sequence and changing the seal rings.
- Tighten the screws and connect the cooling coils of the intercooler.



7.17 VALVE REPLACEMENT – THIRD STAGE:

The steps for replacement or cleaning of the valve are the following:

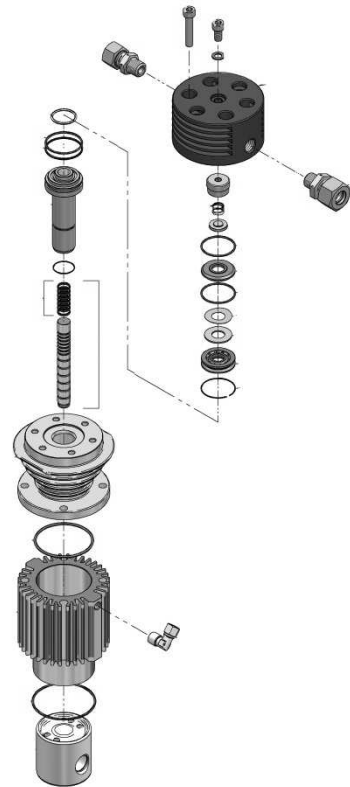
- Disconnect the cooling hoses from the fittings.
- Remove the screws and detach completely the head from the cylinder.
- Put the head in a vice.
- Unscrew the valve bodies (one of these bodies is unscrewed with a special tool that is to be requested to Nardi Compressori).
- Clean and remove all debris.
- If the parts show signs of wear, change the worn parts.
- Mount all the components following the same sequence and changing the seals.
- On the bottom of the head there are three points that need to be engraved with a punch after the valve is set.
- Test the valve by blowing compressed air in the flow direction.
- Check the O-ring seal and replace if damaged.
- Attach the head to the cylinder.
- Secure the cooling tubes.



7.18 VALVE REPLACEMENT – FOURTH STAGE:

The steps for replacement or cleaning of the valve are the following:

- Disconnect the cooling hoses from the fittings.
- Remove the screws and detach completely the head from the cylinder.
- Put the head in a vice.
- Unscrew the valve bodies (one of these bodies is unscrewed with a special tool that is to be requested from Nardi Compressori).
- Clean and remove all debris.
- If the parts show signs of wear, change the worn parts.
- Mount all the components following the same sequence and changing the seals.
- On the bottom of the head there are two points that need to be marked with an awl after the valve is set.
- Test the valve by blowing compressed air in the flow direction.
- Check the O-ring seal and replace if damaged.
- Attach the head to the cylinder.
- Secure the fittings of the cooling coils.



7.19 SAFETY VALVES:

These valves are critical for the safety of the operator and the compressor. The safety valves are calibrated at a certain pressure blowing off the air in the event of a fault or malfunction. Each cylinder is equipped with a safety valve, and each valve is set at a different pressure calibration:

SAFETY VALVE	MAXIMUM PRESSURE
1st STAGE	6 BAR
2nd STAGE	24 BAR
3rd STAGE	80 BAR
4th STAGE	225/330 BAR



IT IS NOT ALLOWED TO CHANGE THE MAXIMUM PRESSURE CALIBRATION OF ANY VALVE. ANY CHANGES CAN CAUSE SERIOUS DAMAGE AND CONSEQUENT VOID OF THE WARRANTY!!



7.20 FILLING VALVES AND FILLING HOSES:

It is very important to keep the filling hoses in optimal condition and to replace them periodically, as required.

We recommend replacing the hoses every two years, or whenever abrasion/scratches are visible on the hoses or whenever there is rust on the fittings.

You must visually inspect the filling hoses before filling cylinders.

Keep the hoses sheltered from direct sunlight in order to avoid premature aging of the hoses and keep them at a temperature between 80/-40 °C.

The minimum radius of curvature must not be less than 400mm.

Do not work on the compressor if it has just been turned off. Wait until the system cools down completely and check carefully that the fittings are tightened properly when replacing the hoses.



The filling valve which is used to fill cylinders with compressed breathing air allows opening and closing the passage of air. This way the pressure in the whole system remains constant, including the hoses, so as to eliminate any infiltration of moisture in the hoses, further optimizing the quality of the breathing air.

Moreover, once the filling operation is completed and you proceed to close the filling valve, the air under pressure in the filling valve is automatically blown-off with no need for additional valves.

When you close the filling valve, fully tighten it until all the air is released.

7.21 AUTOMATIC CONDENSATE DRAIN:

The drain of the condensate and oil of the two intermediate separators and of the residual moisture of the final carbon filter takes place simultaneously and in an automatic manner, through a single exhaust system, which considerably lowers the costs and greatly simplifies the operation. This allows the operators freedom to dedicate themselves to other activities while filling cylinders.

Every 6 minutes (this time interval is the default factory setting but it can be reset by the operators at a more suitable time interval of their choice at any time). The solenoid valve opens the flow of air **for 2 seconds** which serves to trigger the pistons connected to the intermediate separators and the final filter. The solenoid valve is equipped with a display directly located on it.

The default factory settings are:

DRAIN CLOSED = 6 MINUTES (OFF)

DRAIN OPEN = 2 SECONDS (ON)

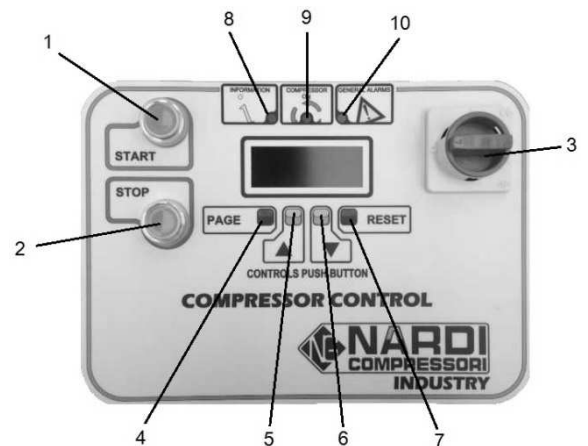
These settings can be changed through the electronic control panel.



7.22 DESCRIPTION FRONT PANEL:

The electronic control system NARDI COMPRESSORI monitors the proper operation of the compressor; manages the pressures and temperatures of one or more compression stages; It manages the inlet pressure of the air or nitrogen; It manages how to use manual or automatic; displayed it keeps the working hours of the compressor and signals the need to perform the service after the hours of work scheduled; management of the electric motor; setting the maximum and minimum pressure during use; Menus available in four languages; Display contrast adjustable; It manages alarms and failures indicating precisely the problem; hardware outputs for interfacing with other operating systems.

1. Start button compressor
2. Stop button or Emergency.
3. Door lock main switch.
4. Button form feed (PAGE)
5. Button up (▲).
6. Button down (▼).
7. Reset button (RESET)
8. Yellow LED information (ALARM NOT BLOCKING)
9. Green led compressor running.
10. Red LED for general alarm (ALARM BLOCKING)



7.23 USE OF ELECTRONIC:



WARNING: The control panel is an advanced component that allows you to monitor the compressor and at the same time change the parameters of use of the same.

The control panel is set by Nardi Compressori at time of production with standard or custom parameters. The control panel is composed of the following buttons:

LINE SWITCH: This switch is used to give power to the electrical panel and all electrical parts. When the "0" no component is powered and it is important pull the plug in the case of service. The switch in position "I" blocks the opening of the control cabinet and the compressor and all its electrical components are supplied.

STOP BUTTON: This switch is reset and turns off the compressor, so once you have pressed to rotate the push-button to get it out and resume the normal position.

START BUTTON: Used to turn on the compressor.

BUTTONS PAGE - ▲ - ▼ - RESET: Used to scroll through the menu of the control panel and to modify parameters

LIGHT INFORMATION: This yellow LED indicates that the compressor has a fault.

COMPRESSOR LIGHT ON: This green LED indicates that the compressor is running.

LIGHT GENERAL ALARMS: This red LED flashing light indicates a problem or an alarm.

SCREEN DISPLAY HOME

The maximum pressure can be changed directly from the HOME screen by side.

From the HOME screen, press the PAGE button to continue with the setup pages compressor.

Press PAGE to proceed.



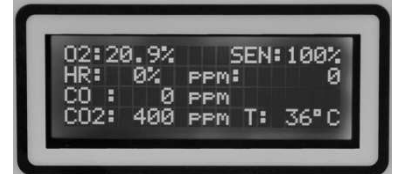
Set the restart pressure of the compressor, in the case of automatic mode. The pressure is adjustable from 0 bar up to 30 bar hysteresis below the set maximum pressure. (eg. press.max. 300 bar; press.min. 270 bar)

Press PAGE to proceed.



In this screen, there are all the gases monitored in real time while charging. The values correspond to the air that at that moment is filling the tank.

Press PAGE to proceed.



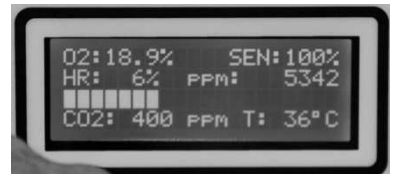
While charging, you can set the offset value of O2, holding down the reset button, until the column does not complete the line, as shown. The setting of the probe, is made by the Nardi Compressori.

Move with the arrow to change the other values.



When the written reference value blinks, it means that we can set the value by holding down the reset button, until the column does not complete the line, as shown. The setting of the probe, is made by the Nardi Compressori.

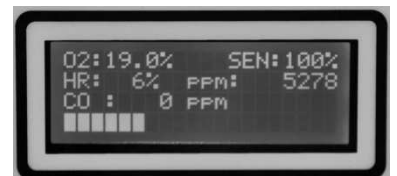
Move with the arrow to change the other values



When the written reference value blinks, it means that we can set the value by holding down the reset button, until the column does not complete the line, as shown. The setting of the probe, is made by the Nardi Compressori.

Move with the arrow to change the other values.

Press PAGE to proceed.



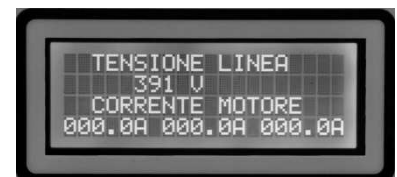
Displays in real time the pressure of the various stages of compression.

Press PAGE to proceed



Display the consumption in amperes of the electric motor.(OPTION)

Press PAGE to proceed



See the temperatures in the various stages of compression, only if enabled. They are called: A (stage 1), B (stage 2), C (stage 3), D (stage 3 or 4), E (option), F (option).

Press PAGE to proceed



View the time remaining to the service.

Press PAGE to return to the HOME page.



Use and change parameters:

Initial startup screen software

To enter parameters, press the ARROWS and press PAGE.



Adjustment of the backlight

Press PAGE to proceed



Adjusting the display contrast

Press PAGE to proceed



Select your preferred language: ITALIAN, ENGLISH, FRENCH, GERMAN

Press PAGE to proceed



Set the seconds for time automatic condensate discharge open.

(default 5 seconds)

Press PAGE to proceed



Set the seconds relative to time automatic condensate discharge closed.

(default 6 minutes)

Press PAGE to proceed



Select the unit of measurement for pressure: BAR, PSI, MPA

Press PAGE to proceed



Set the maximum current absorbed by the electric motor. If absorption Ampere too high, the picture shows the corresponding alarm and stops the compressor.(option)

Press PAGE to proceed

Set limits of amount of air humidity in ppm (default 50 ppm), and enter the time after which, after the start, can begin to give the error of high humidity. This dark time, serves to the sensor to stabilize (default 300 seconds)

Press PAGE to proceed

Set the limit amount of CO in the air (default 5 ppm)

Press PAGE to proceed

Set the limit of the amount of CO2 in the air (500 ppm default)

Press PAGE to proceed

Enter a code for the protection of the set parameters.

Press PAGE to proceed

Enables management control of CO gas.

Press PAGE to proceed.

Defines the offset of the CO sensor. This parameter is set by Nardi Compressors.

Press PAGE to proceed.

Enables management control CO2 gas.

Press PAGE to proceed

Defines the offset of the CO2 sensor. This parameter is set by Nardi Compressors.

Press PAGE to proceed.



Enables management of humidity control.
Press PAGE to proceed.



Defines the offset of the humidity sensor. This parameter is set by Nardi Compressors.
Press PAGE to proceed



It defines the reaction of the humidity sensor. This parameter is set by Nardi Compressors.
Press PAGE to proceed



Enables management control O2 gas.
Press PAGE to proceed.



Defines the offset of the O2 sensor. This parameter is set by Nardi Compressors.
Press PAGE to proceed



Setting management filter. The management of the filter calculates the life of the cartridge, and displays an alarm on the display, when the cartridge is full.
Set "TEMPERATURE SENSOR"
Press PAGE to proceed



Set the code according to the type of filter used, according to the table below
Then press PAGE.



PACIFIC ELECTRIC CODE CARTRIDGE										
	PACIFIC 16		PACIFIC 23		PACIFIC 28		PACIFIC 30		PACIFIC 35	
	200	300	200	300	200	300	200	300	200	300
PAC-01	9100	13500	6300	9500	5200	7800	4800	7200	4100	6200
PAC-02	15900	23800	11000	16600	9000	13600	8400	12700	7200	10900
PAC-03	23100	34700	16100	24100	13200	19800	12300	18500	10500	15800

	PACIFIC MX 48		PACIFIC MX 60		PACIFIC MX 68		PACIFIC MX 85			
	200	300	200	300	200	300	200	300		
PAC-03	8100	12100	6100	9200	5400	8000	4400	6600		
PAC-06	16200	24200	12200	18400	10800	16000	8800	13200		

Written on the FILTER, press the RESET button until the white bar does not complete the progression.



The total corresponds below and above.
Press PAGE to proceed



Set the voltage of the power line.
Press PAGE to proceed.



Enable or disable the automatic oil level. In case of the presence sensor, the display displays the warning of the presence oil, in case of too low level of oil.
Press PAGE to proceed.



Setting to enable soft-start. And is possible to integrate the module soft-start, the soft start of the electric motor. You have to enable the function to enable the start of the module.
Press PAGE to proceed



Set the mode AUTOMATIC or MANUAL to use the compressor. In automatic mode, the compressor will restart automatically under some pressure.
Press PAGE to proceed



Select the pressure transducers optional, and eventual alarm threshold pressure. Up to 4 sensors simultaneously.
(standard without transducers optional)
Press PAGE to proceed



Set the pressure di'allarme of each transducer, which generates an alarm in case of over pressure. An alarm is generated even in case of accidental breakage of the cable or of the transducer.
4 STAGES COMPRESSOR: 1st = 5 BAR; 2nd = 20 BAR, 3rd = 80 BAR
3 STAGES COMPRESSOR: 1st = 12 BAR; 2nd = 80 BAR



Press PAGE to proceed.

Select the temperature display: CELSIUS, FAHRENHEIT

Press PAGE to proceed



Enable the temperature sensor or temperature sensors. There are up to 6 temperature sensors: A, B, C, D, E, F. In case of accidental breakage of the cable connection, you receive a warning indicating the probe temperature that causes the problem.

Press PAGE to proceed



Set the alarm threshold temperature applied. you may see this screen, only if the probes are enabled. Otherwise you will not see any pages. If you reach the maximum temperature, the compressor stops and the display shows HIGH TEMPERATURE ALARM.

A: 180°C ; B: 180°C; C: 180°C; D: 160°C

Press PAGE to proceed



Service time is intended to alert the operator that the machine needs a service, and when there is 20% of the time after the service, the display alerts the operator with a message, without blocking the compressor

Press PAGE to proceed



Once the service, you enter this page and hold the RESET button to reset the hours of service and restarting the count.

Press PAGE to proceed



We check the number of total condensate, to monitor cycles
Depressurization of the filter and of the components under pressure

Press PAGE to proceed



Set the maximum pressure set by the user. Above this pressure you can not go from the pages of initial view.

This pressure should only be changed by specialists Nardi Compressors.

Press PAGE to proceed



Now all the parameters are set.

TO SAVE THE PARAMETERS HOLD THE KEY PAGE UNTIL YOU COMPARE THIS SCREEN.

SELECT AND PRESS THE PAGE.



Now the parameters are saved.
Now set user parameters.



7.24 ALARMS VISIBLE AND ACTIONS:



The panel can generate various alarms, normally when generating these are due to the passing of set values by NARDI COMPRESSORI (limits) or to a signal sent by the various components positioned at key points of the compressor. For each alarm, the display will show the message that indicates the problem, the red LED will light up to "GENERAL ALARMS", will send a beep and the compressor turns off automatically.

Because of the high precision of the control panel can generate an alarm very easy for example to a power surge, then you should press the "RESET" button and check if the alarm persists for a second time.

In the case where the same alarm persists, you should contact your local dealer and report the problem.

The alarms that may be generated are the following:

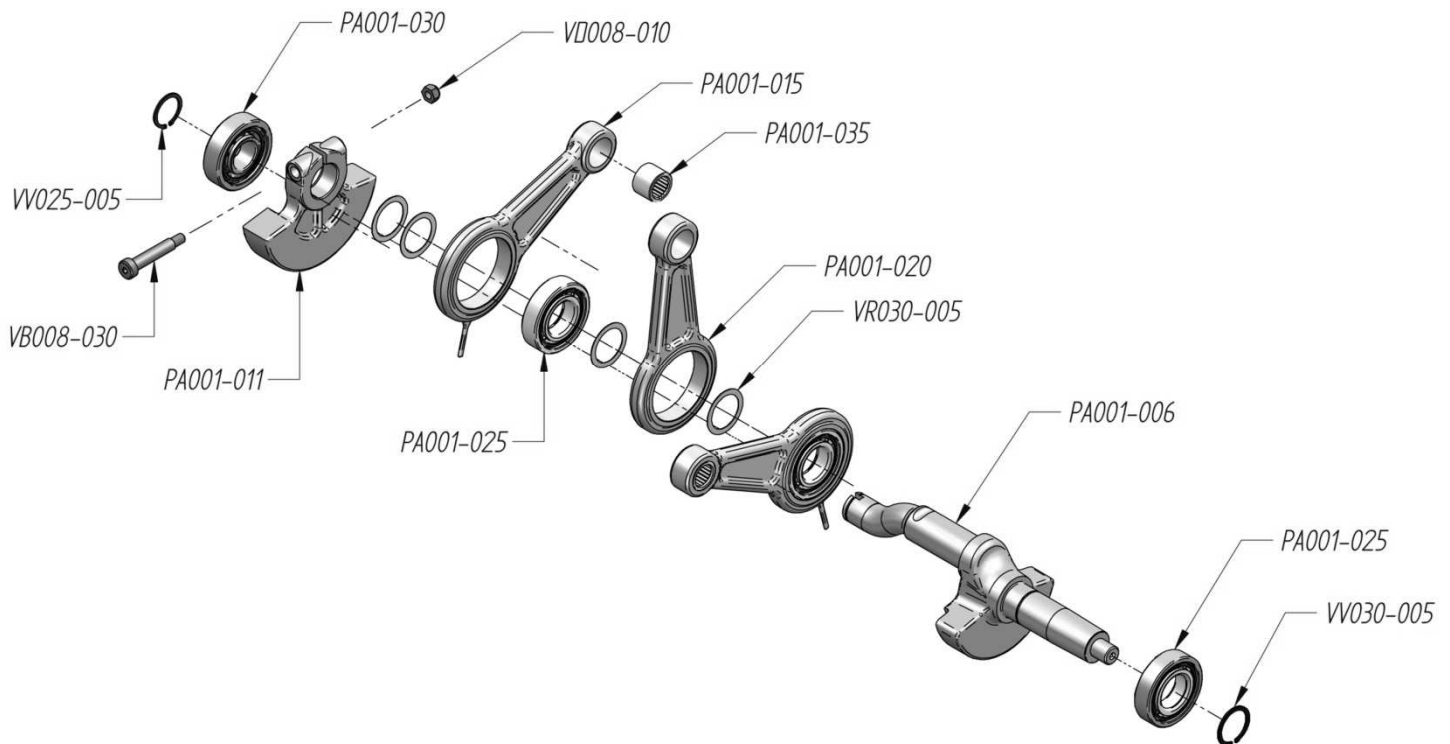
SEQUENCE OR PLASE FAILURE:	It indicates the engine and connected wrong (running backwards)
OVER CURRENT MOTOR:	It indicates an abnormal electrical current draw.
UNDER CORRENT MOTOR:	It indicates that the engine does not respond (no lights).
SERVICE TIME ALERT:	It used to indicate that makes 200 or 100 hours must be done a service.
SERVICE TIME / NEED MAINTENANCE:	It indicates that you need to do maintenance.
OVER TEMPERATURE COMPRESSOR:	It indicates that the temperature of the compressor is too high.
TEMPERATURA SENSOR BROCKEN ON NOT CONNECTED:	It indicates that the temperature sensor is damaged or not connected.
PRESSURE SENSOR BROCKEN ON NOT CONNECTED:	It indicates that the pressure sensor is damaged or not connected.
OIL LEVEL:	This alarm indicates that the oil level is low.

7.25 SPECIAL WASTE DISPOSAL:

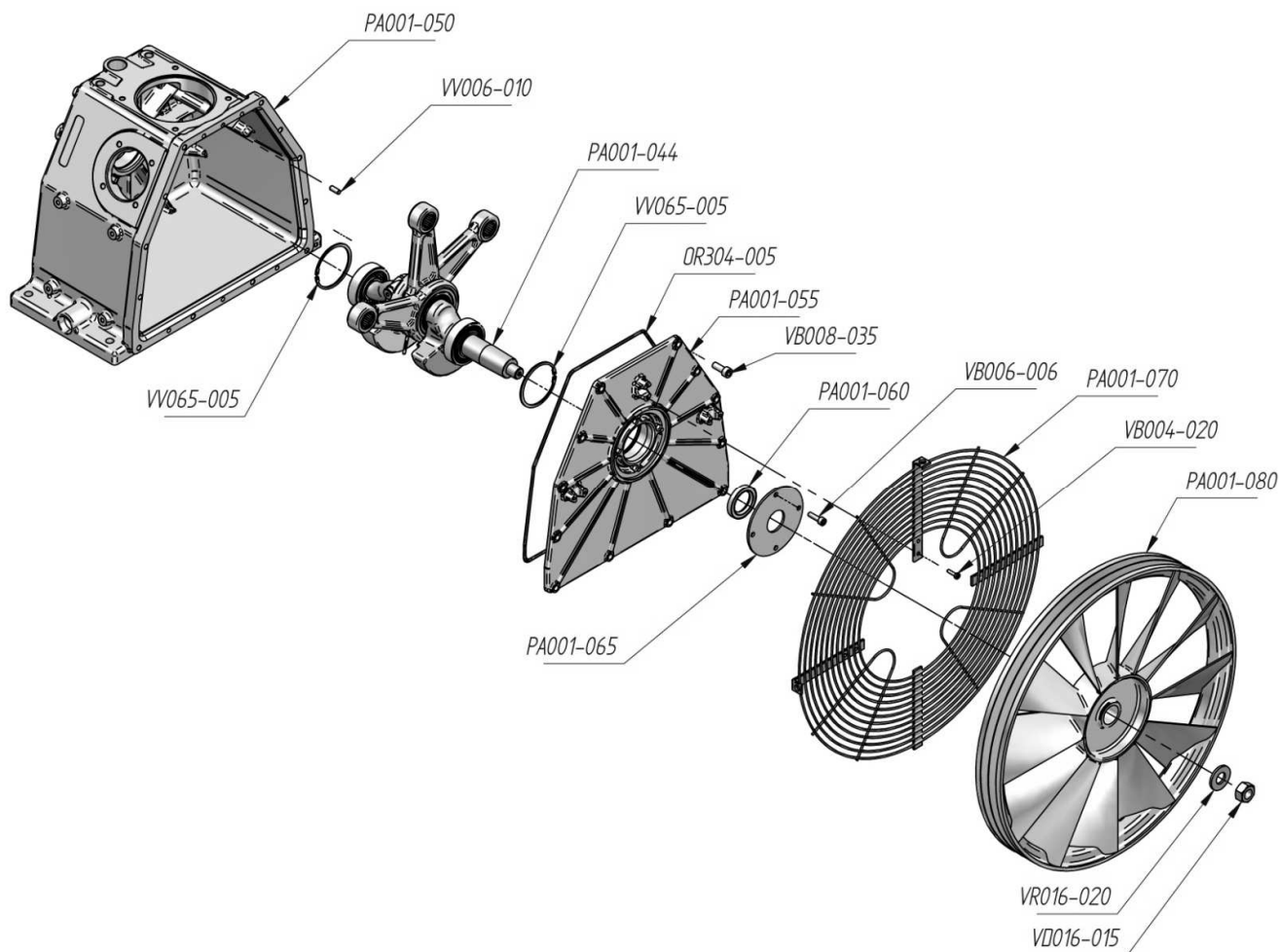
Disposal of the compressor or components must be done in accordance with the rules in force in the country of installation.

7.26 TROUBLE-SHOOTING:

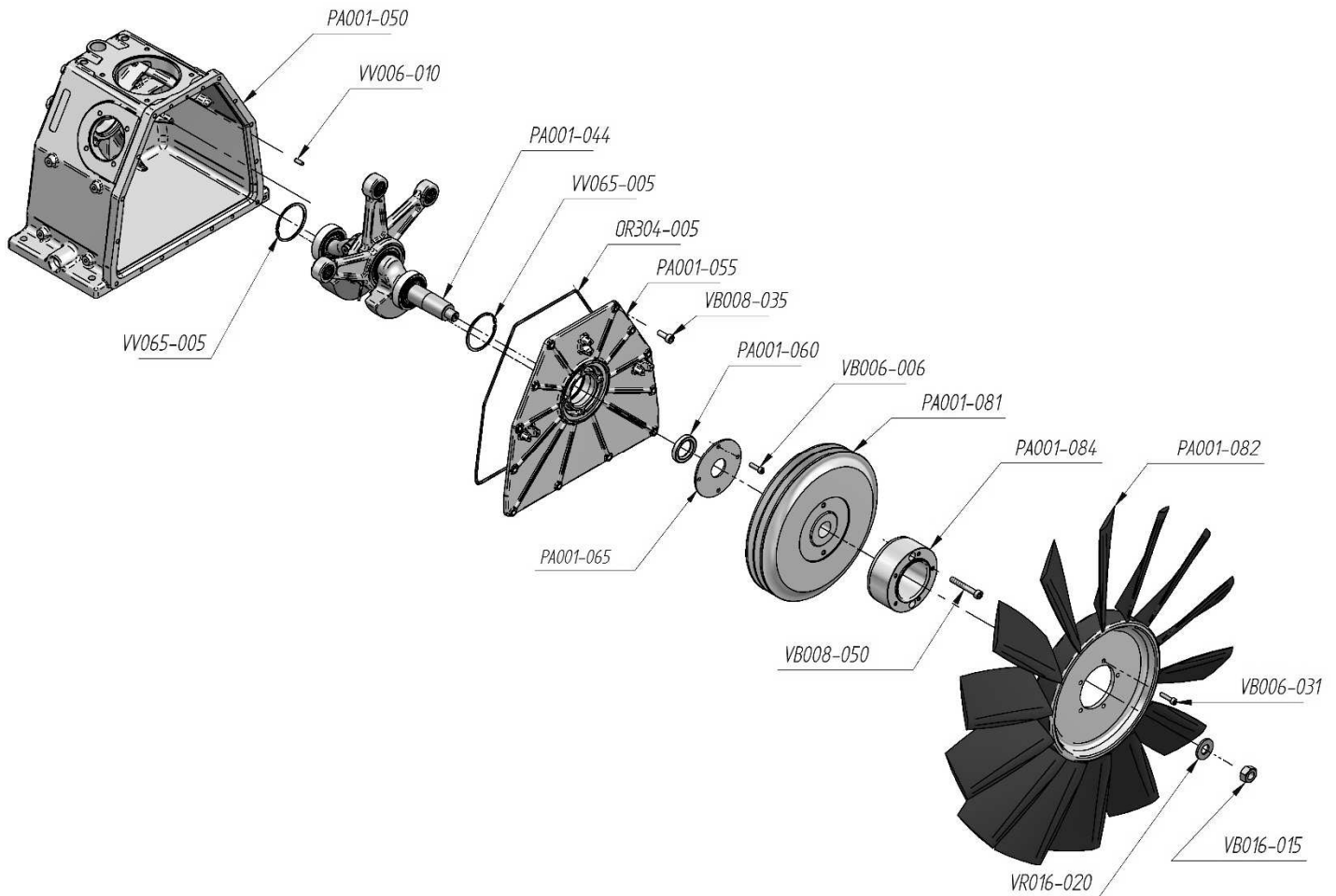
PROBLEM	CAUSE	REMEDY
The compressor does not start	<ul style="list-style-type: none"> • Electric current missing • Bad fuse • Electric current too low 	<ul style="list-style-type: none"> • Check electric line • Replace bad fuse • Check electric line
Motor thermal protection kicks in	<ul style="list-style-type: none"> • Current consumption too high • Thermal protection setting too low 	<ul style="list-style-type: none"> • Check the pumping unit • Correct the thermal protection setting
The electric motor does not work	<ul style="list-style-type: none"> • Problems with the electric circuits 	<ul style="list-style-type: none"> • Invert the phase leads of the motor • Check the fuses • Make sure there is enough electric current • Make sure the electric current reaches the motor
The rotation speed and the air delivery decrease	<ul style="list-style-type: none"> • The electric current that arrives at the motor is insufficient • The belt slips 	<ul style="list-style-type: none"> • Make sure there is enough electric current • Check the electric motor • Check the tension of the belt • Replace the belt
The air delivery decreases (without lowering the rotation speed)	<ul style="list-style-type: none"> • Loose fittings • Worn gaskets • Intake filter clogged • Worn piston rings • Intake extension clogged • Valves not working 	<ul style="list-style-type: none"> • Tighten fittings • Replace the gaskets • Replace or clean filter • Replace piston rings • Check intake extension tube • Replace or clean valves
Compressor does not reach maximum pressure	<ul style="list-style-type: none"> • Worn piston rings • Excessively worn pistons • Premature opening of safety valve 	<ul style="list-style-type: none"> • Replace worn piston rings • Replace worn pistons • Clean safety valve • Check and correct calibration of safety valve • Replace safety valve
The safety valve of an intermediate stage has a leak	<ul style="list-style-type: none"> • Stage pressure too high • Premature opening of safety valve 	<ul style="list-style-type: none"> • Pressure problems in next stage • Clean safety valve • Check and correct calibration of safety valve • Replace safety valve
Compressor overheating	<ul style="list-style-type: none"> • Wrong sense of rotation of motor • Poor air intake • Valves not closed properly 	<ul style="list-style-type: none"> • Invert the phase of the electric motor • Increase air intake in the room • Check, clean and replace valve • Ambient temperature too high (+45 °C Max)
Breathing air smells of oil	<ul style="list-style-type: none"> • Final filter cartridge exhausted 	<ul style="list-style-type: none"> • Replace final filter cartridge
Excessive oil consumption	<ul style="list-style-type: none"> • Worn piston rings • Excessively worn piston • Intake filter clogged 	<ul style="list-style-type: none"> • Replace worn piston rings • Replace worn piston • Clean intake filter • Replace intake filter
The compressor does not switch off automatically	<ul style="list-style-type: none"> • Solenoid valve calibration too high • Safety valve of last stage not working 	<ul style="list-style-type: none"> • Correct the calibration of the solenoid valve • Clean safety valve • Calibration safety valve • Replace safety valve



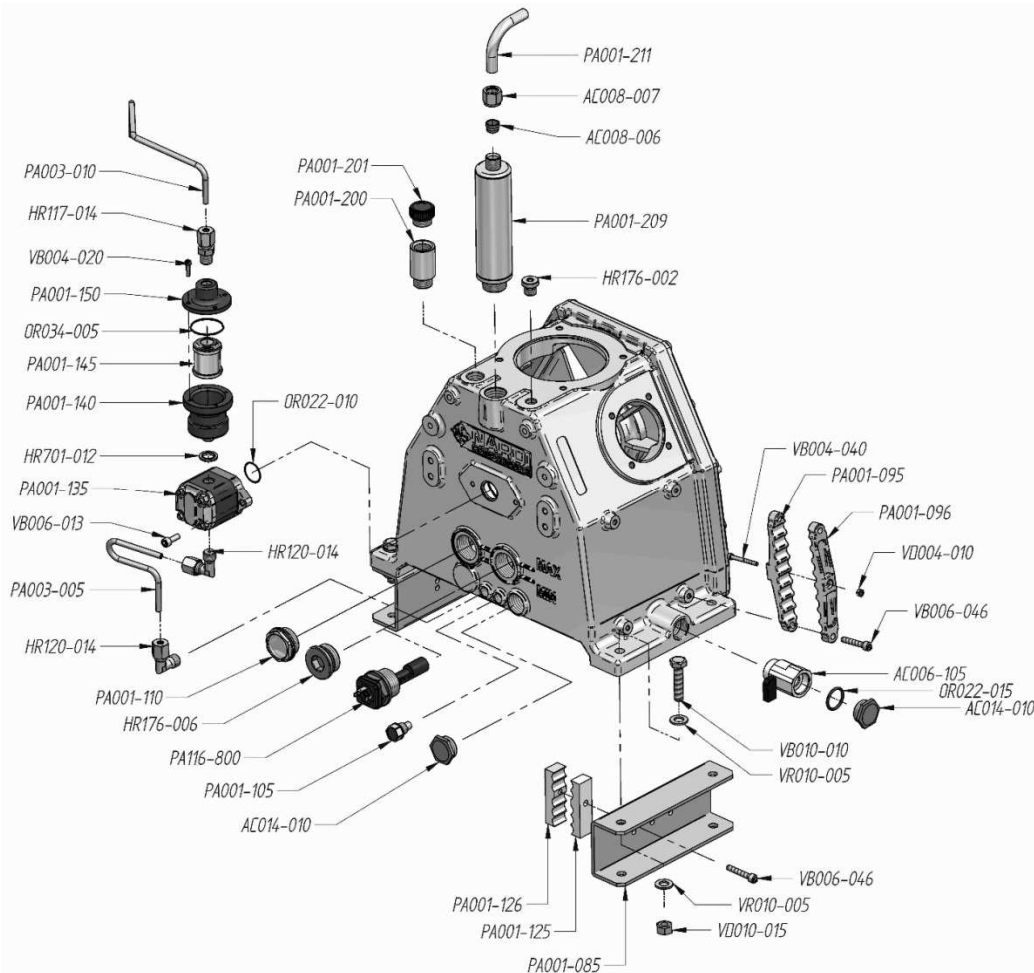
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
PA001-006	Shaft	PA001-025	Roller bearing	VD008-010	Nut
PA001-011	Counterbalance	PA001-030	Roller bearing	VR030-005	Washer
PA001-015	Connecting rod with oil thrower pin	PA001-035	Roller bearing	VV025-005	Safety ring
PA001-020	Connecting rod	VB008-030	Screw	VV030-005	Safety ring



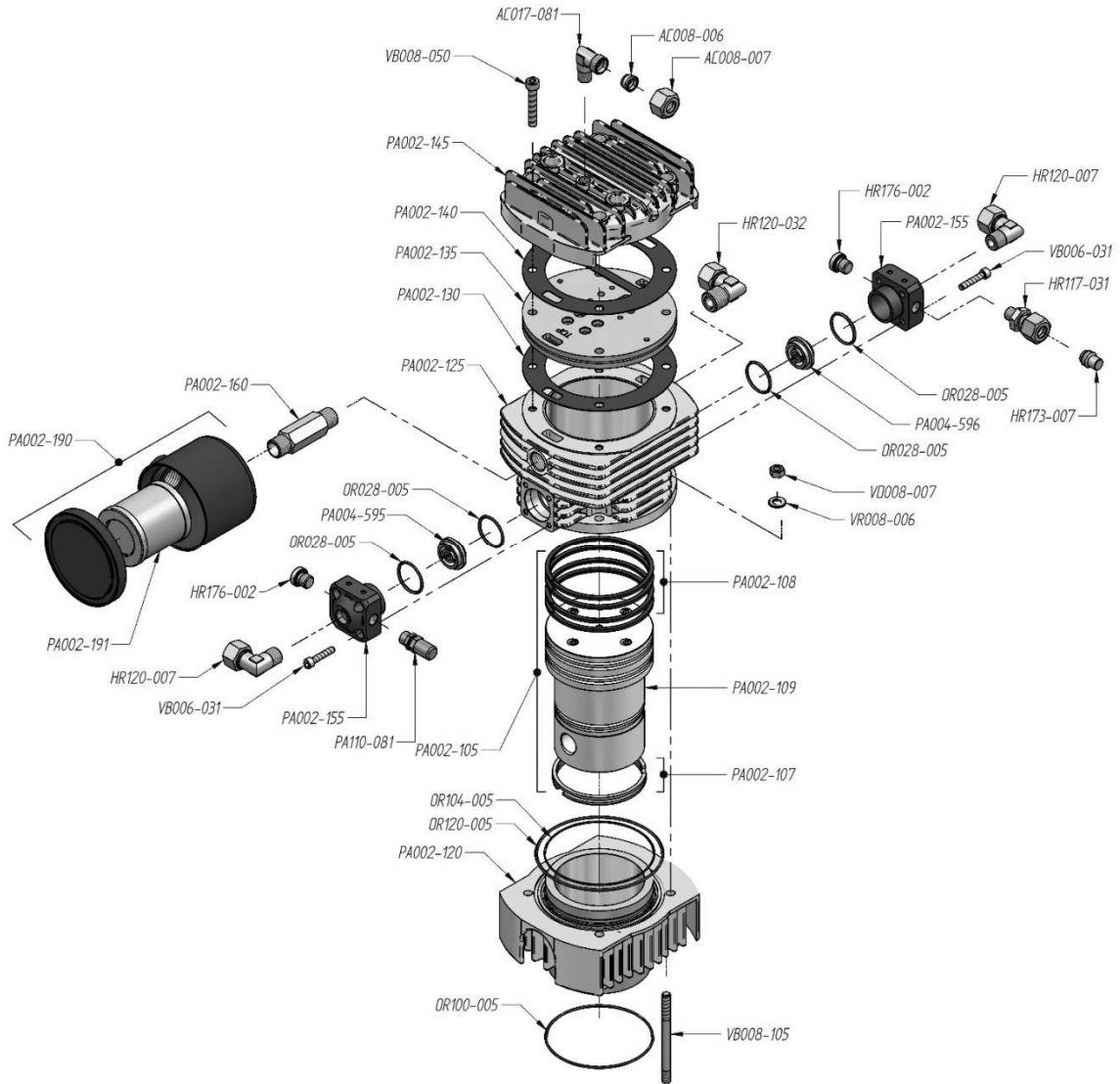
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR304-005	O-ring	PA001-065	Oil seal flange	VB008-035	Screw
PA001-044	Shaft complete of connecting rod	PA001-070	Metal protection	VD016-015	Nut
PA001-050	Compressor crankcase	PA001-080	Pulley-fan compressor	VR016-020	Washer
PA001-055	Closing crankcase flange	VB004-020	Screw	VV006-010	Pin
PA001-060	Oil seal	VB006-006	Screw	VV065-005	Safety ring



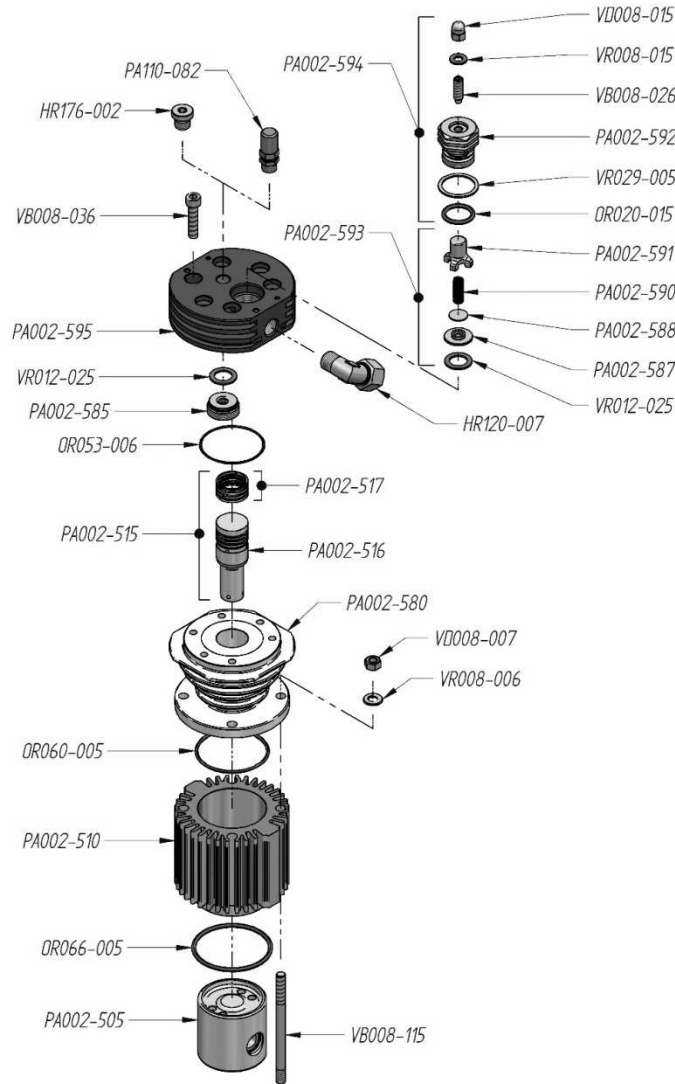
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR304-005	O-ring	PA001-065	Oil seal flange	VB008-035	Screw
PA001-044	Shaft complete of connecting rod	PA001-081	Pulley	VD016-015	Nut
PA001-050	Compressor crankcase	PA001-082	Fan	VR016-020	Washer
PA001-055	Closing crankcase flange	VB006-006	Screw	VV006-010	Pin
PA001-060	Oil seal	VB006-031	Screw	VV065-005	Safety ring



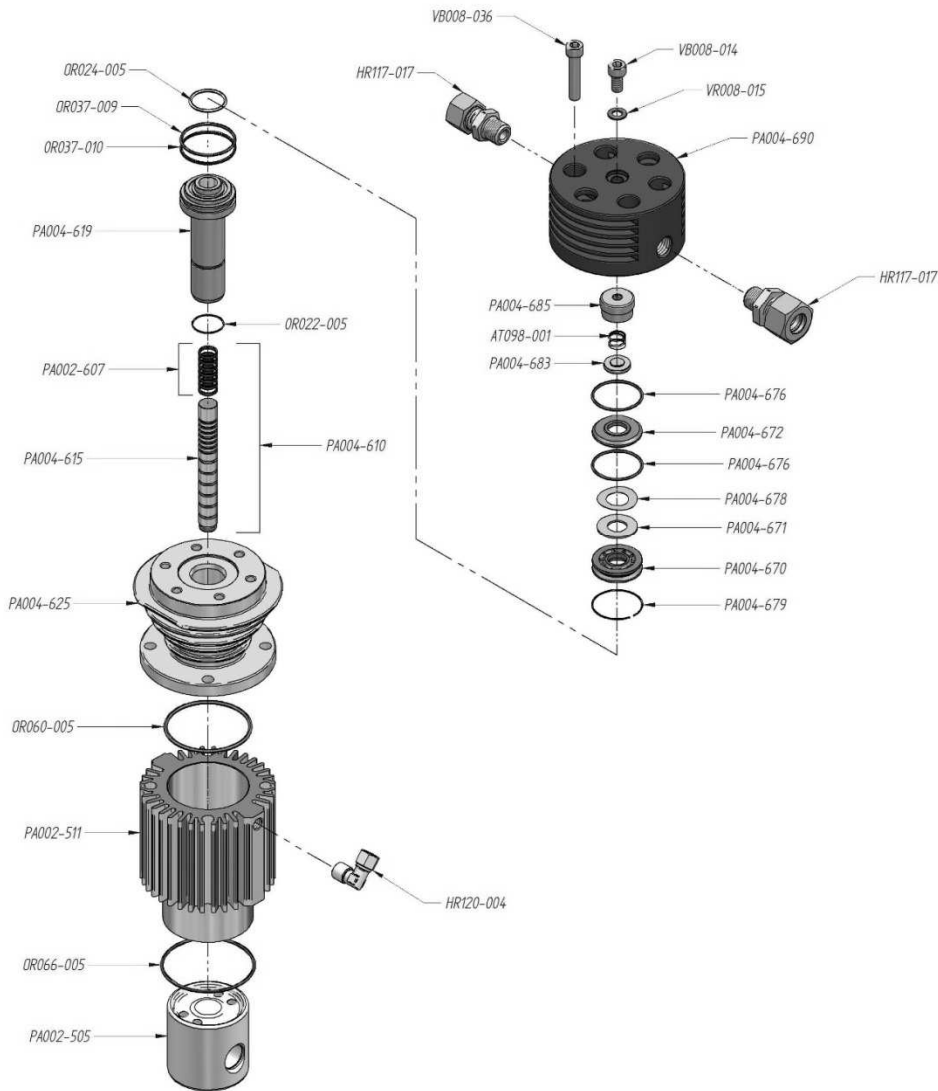
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC006-105	Ball valve	PA001-096	Support cooling tube	PA003-010	Tube oil pump
AC008-006	Ogive for tube 12mm	PA001-105	Magnetic plug	PA116-800	Oil alert
AC008-007	Nut for tube 12 mm	PA001-110	Visual oil level plug	VB004-020	Screw
AC014-010	Closure plug	PA001-125	Support cooling tube	VB004-046	Screw
HR117-014	Pipe fitting	PA001-126	Support cooling tube	VB006-013	Screw
HR120-014	Pipe fitting "L"	PA001-135	Oil pump	VB006-046	Screw
HR176-002	Closure plug	PA001-140	Oil filter holder chamber	VB010-010	Screw
HR176-006	Closure plug	PA001-145	Oil filter	VD004-010	Nut
HR701-012	Washer gasket	PA001-150	Closure oil filter chamber	VD010-015	Nut
OR022-010	O-ring	PA001-200	Oil fitting pipe	VR010-005	Washer
OR022-015	O-ring	PA001-201	Plug		
OR034-005	O-ring	PA001-209	Oil separator		
PA001-085	Support compressor	PA001-210	Tube		
PA001-095	Support cooling tube	PA003-005	Tube oil pump		



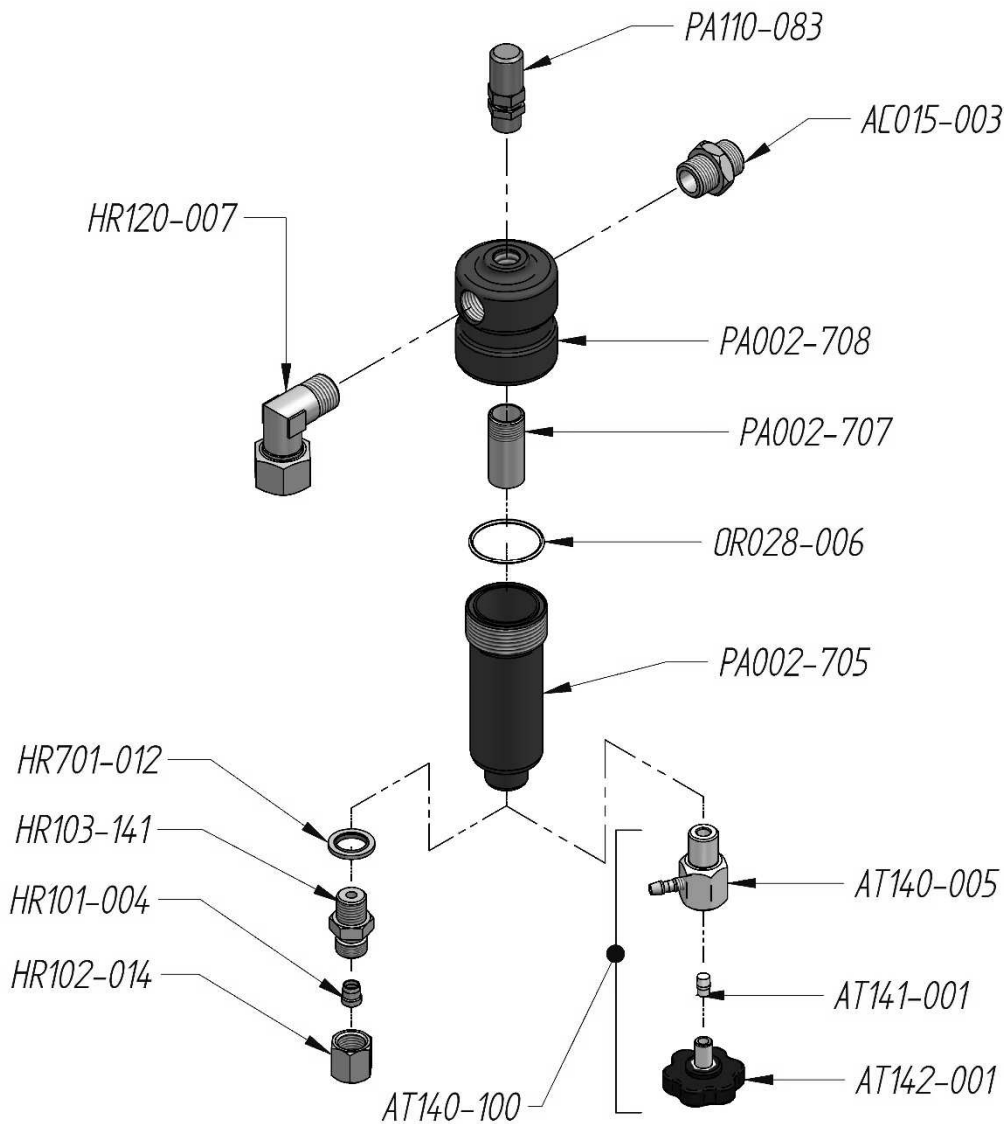
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC017-130	Pipe fitting "L"	OR120-005	O-ring	PA002-150	Plate valve 2 nd stage
AC008-006	Ogive	PA002-105	Complete piston	PA002-155	Cover valve 2 nd stage
AC008-007	Nut	PA002-107	Set Piston rings	PA002-160	Connection
HR120-007	Pipe fitting "L" 3/8"G for tube 12 mm	PA002-108	Set Piston rings	PA002-190	Complete intake filter
HR117-031	Pipe fitting 1/4"G for tube 12 mm	PA002-109	Piston	PA002-191	Intake filter cartridge
HR120-032	Pipe fitting "L" 1/2"G for tube 12 mm	PA002-120	Cylinder 2 nd stage	PA110-081	Safety valve 1 st stage
HR173-007	Closure connection tube 12 mm	PA002-125	Cylinder 1 st stage	VB006-031	Screw
HR176-002	Closure plug 1/4"	PA002-130	Gasket	VB008-050	Screw
OR028-005	O-ring	PA002-135	Plate valve 1 st stage	VB008-105	Screw
OR100-005	O-ring	PA002-140	Gasket	VD008-007	Nut
OR104-005	O-ring	PA002-145	Head 1 st stage	VRO08-006	Washer



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR120-007	Pipe fitting "L" 3/8"G for tube 12 mm	PA002-580	Cylinder	VB008-026	Screw
HR176-002	Closure plug 1/4"	PA002-585	Suction valve	VB008-036	Screw
OR020-015	O-ring	PA002-587	Valve seat	VB008-115	Screw
OR053-006	O-ring	PA002-588	Valve plate	VD008-007	Nut
OR060-005	O-ring	PA002-590	Valve spring	VD008-015	Nut
OR066-005	O-ring	PA002-591	Pressure valve insert	VR008-006	Washer
PA002-505	Piston guide	PA002-592	Valve coupling	VR008-015	Washer
PA002-510	Cylinder	PA002-593	Pressure valve insert	VR012-025	Washer
PA002-515	Complete piston with rings	PA002-594	Complete coupling pressure valve	VR029-005	Washer
PA002-516	Piston	PA002-595	Valve head		
PA002-517	Set piston rings	PA110-082	Safety valve		

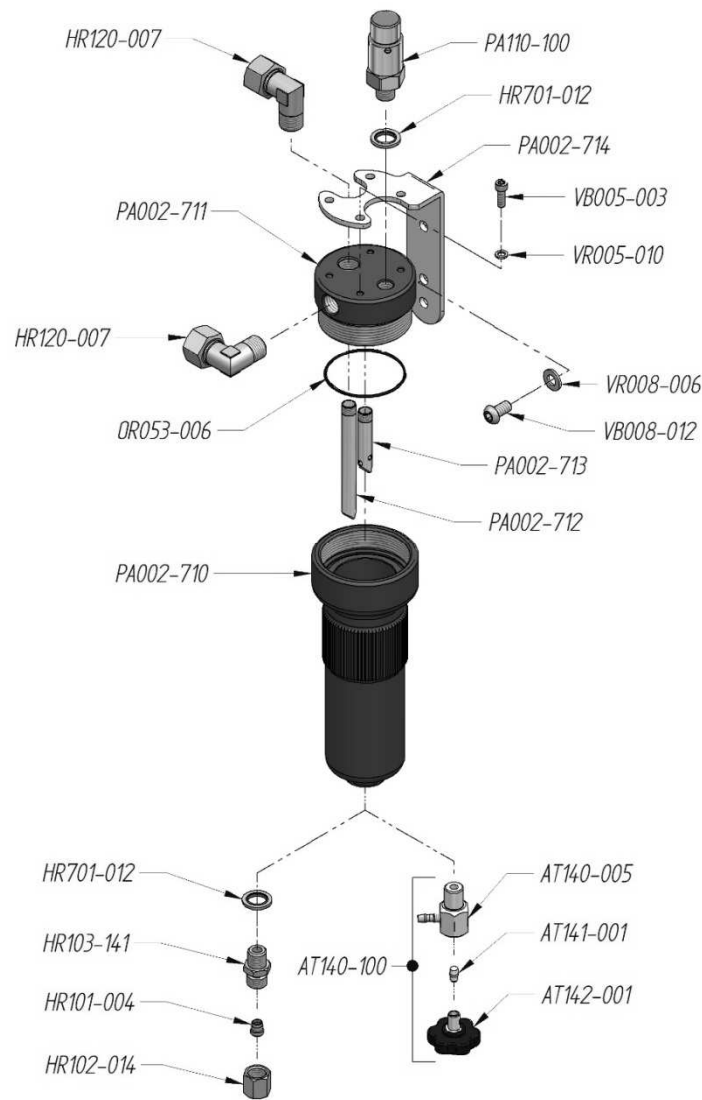


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT098-001	Spring	PA004-610	Complete piston with rings	PA004-683	Valve top
HR117-017	Pipe fitting direct	PA004-615	Piston	PA004-685	Suction valve
HR120-004	Pipe fitting "L"	PA002-607	Set piston rings	PA004-690	Valve head
OR037-009	O-ring	PA004-619	Cylinder's pipe	VB008-014	Screw
OR037-010	O-ring	PA004-625	Cylinder	VB008-036	Screw
OR022-005	O-ring	PA004-670	Coupling pressure valve	VR008-015	Washer
OR024-005	O-ring	PA004-671	Pressure valve		
OR060-005	O-ring	PA004-672	Top valve		
OR066-005	O-ring	PA004-676	Special O-Ring		
PA002-505	Piston guide	PA004-678	Special spring		
PA002-511	Cylinder	PA004-679	Setger valve		

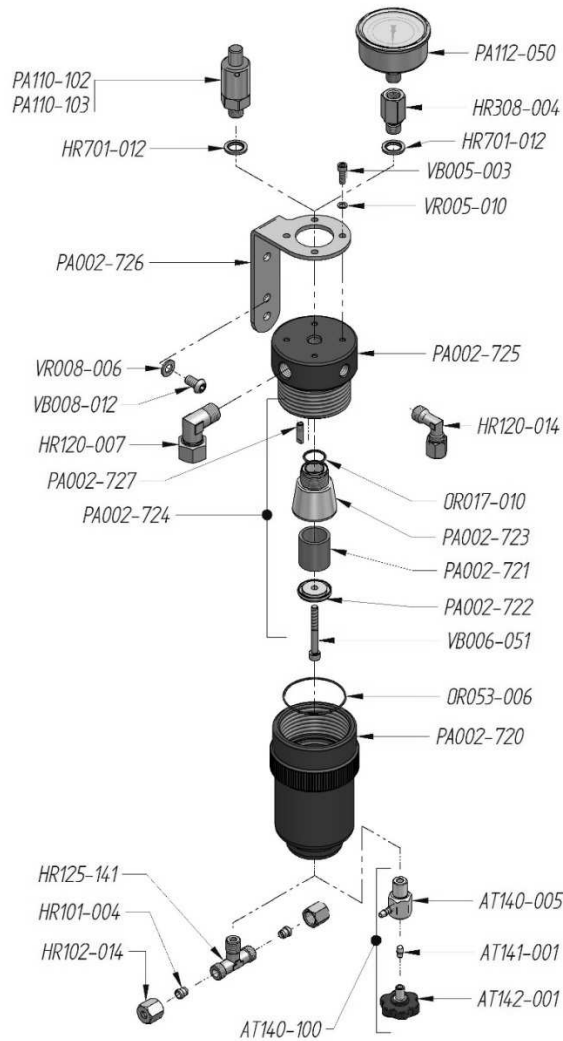


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC015-005	Nipple	HR101-004	Nut fitting pipe	OR028-006	O-ring
AT140-005	Body drain valve complete	HR102-014	Nut fitting pipe	PA002-705	Body filter separator
AT140-100	Condensate drain valve complete	HR120-007	Pipe fitting "L" 3/8"G for tube 12 mm	PA002-707	Tube
AT141-001	Rilsan nut	HR125-141	Body pipe fitting "T" 1/4"G for tube 6 mm INOX	PA002-708	Head filter separator
AT142-001	Black screw of discharge	HR701-012	Washer gasket	PA110-083	Intermedial safety valve

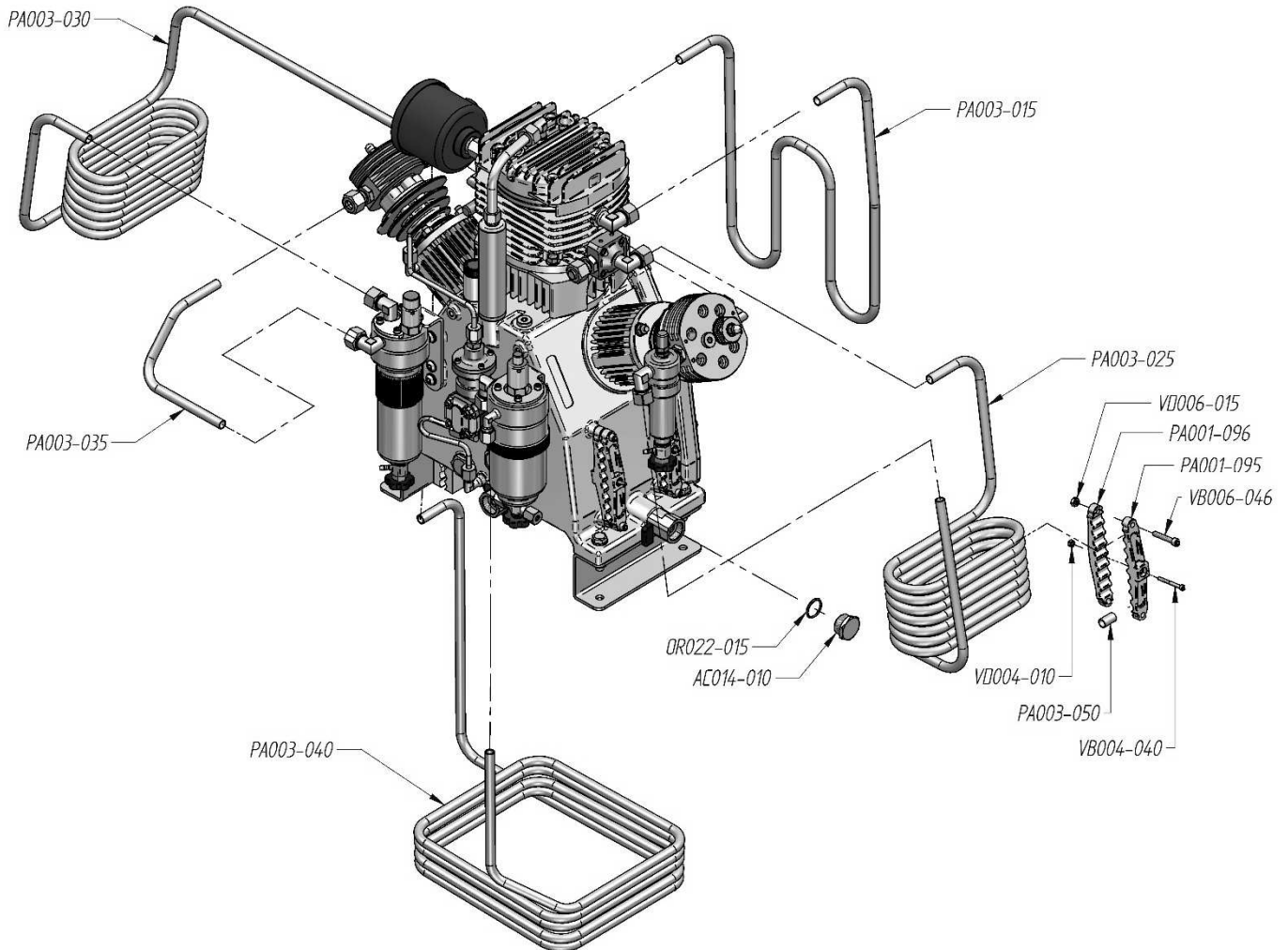
	SPARE PARTS PACIFIC 35 <i>Separator 3rd STAGE</i>	PA002-210 Rev.00
		2015 Rev. 00



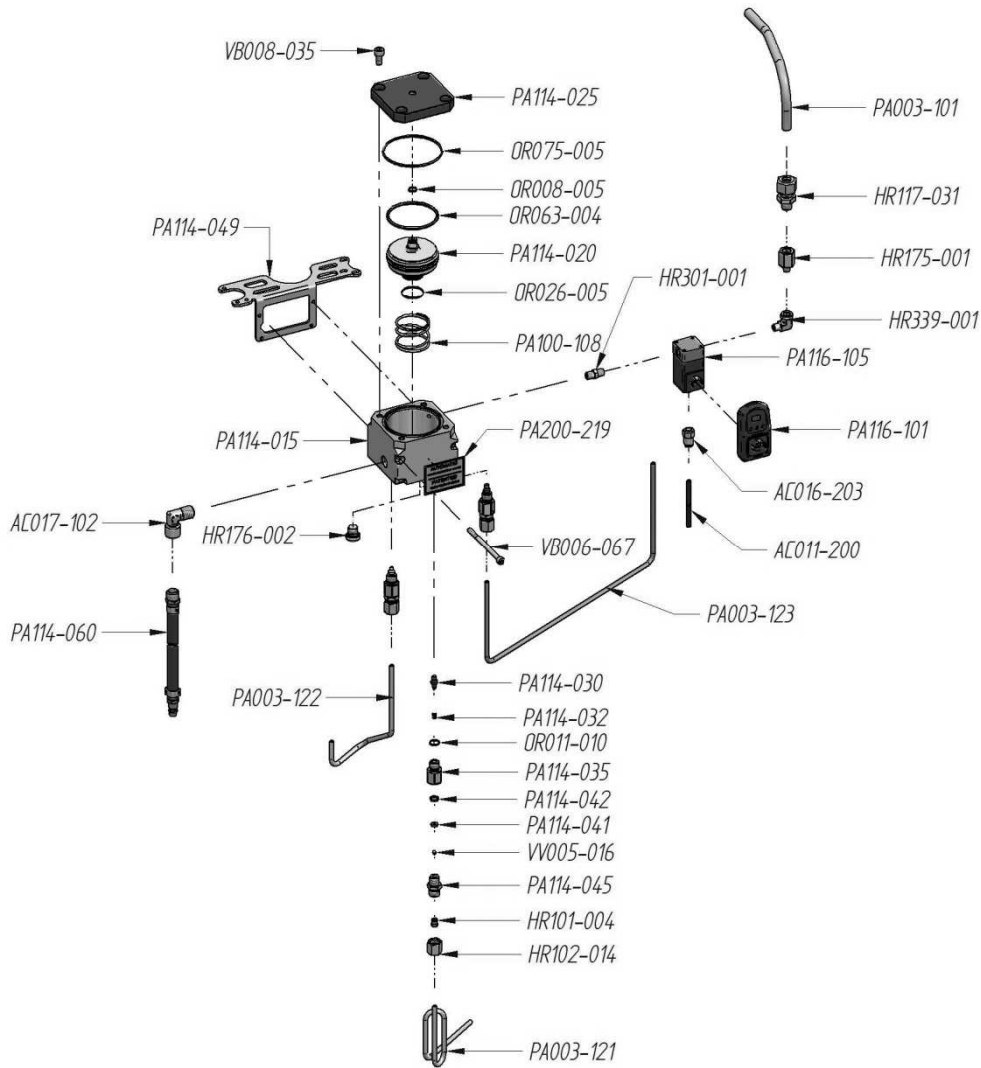
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT140-005	Body drain valve complete	HR120-007	Pipe fitting "L"	PA002-714	Support filter separator
AT140-100	Condensate drain valve complete	HR701-012	Washer gasket	PA110-100	Safety valve
AT141-001	Rilsan nut	OR053-006	O-ring	VB004-021	Screw
AT142-001	Black screw of discharge	PA002-710	Body filter separator	VB008-012	Screw
HR101-004	Ogive	PA002-711	Head filter separator	VR004-010	Washer
HR102-014	Nut fitting pipe	PA002-712	Tube separator	VR008-006	Washer
HR103-141	Body pipe fitting	PA002-713	Tube separator		



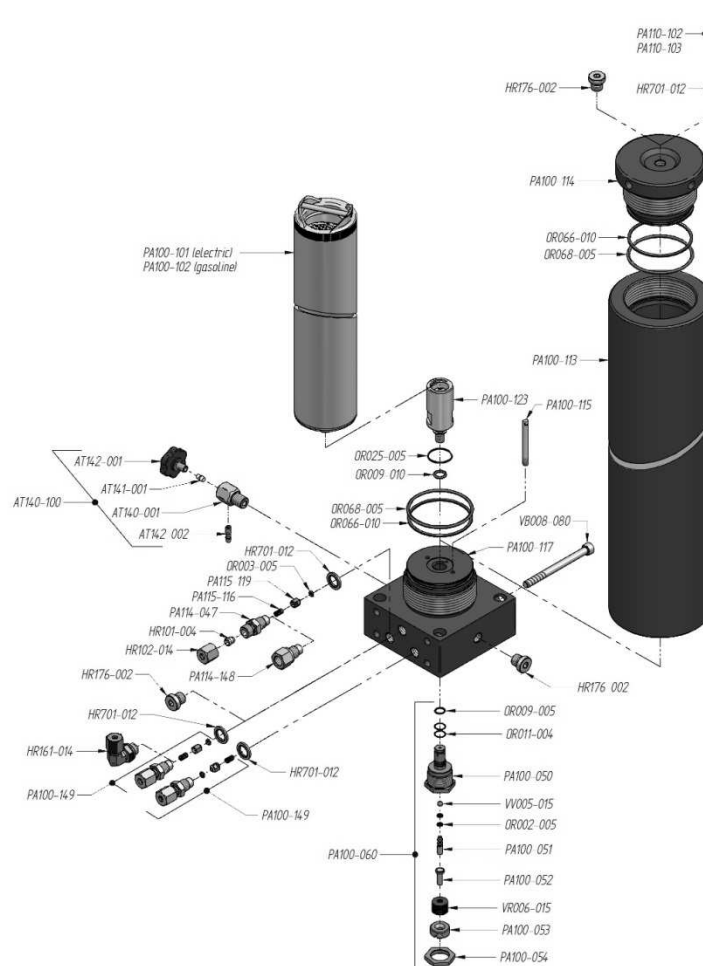
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT140-005	Body drain valve complete	OR017-010	O-ring	PA110-103	Safety valve PN 300 bar
AT140-100	Condensate drain valve complete	OR053-006	O-ring	PA112-050	Manometer
AT141-001	Rilsan nut	PA002-720	Body filter separator	VB005-003	Screw
AT142-001	Black screw of discharge	PA002-721	Sintered filter	VB006-051	Screw
HR101-004	Ogive	PA002-722	Flange	VB008-012	Screw
HR102-014	Nut filling pipe	PA002-723	Flange	VR005-010	Washer
HR120-007	Pipe fitting "L"	PA002-724	Complete filter separator cartridge	VR008-006	Washer
HR120-014	Pipe fitting "L"	PA002-725	Head filter separator		
HR125-141	Body pipe fitting "T"	PA002-726	Support filter separator		
HR308-004	Connection	PA002-727	Tube separator		
HR701-012	Washer gasket	PA110-102	Safety valve PN 200 bar		



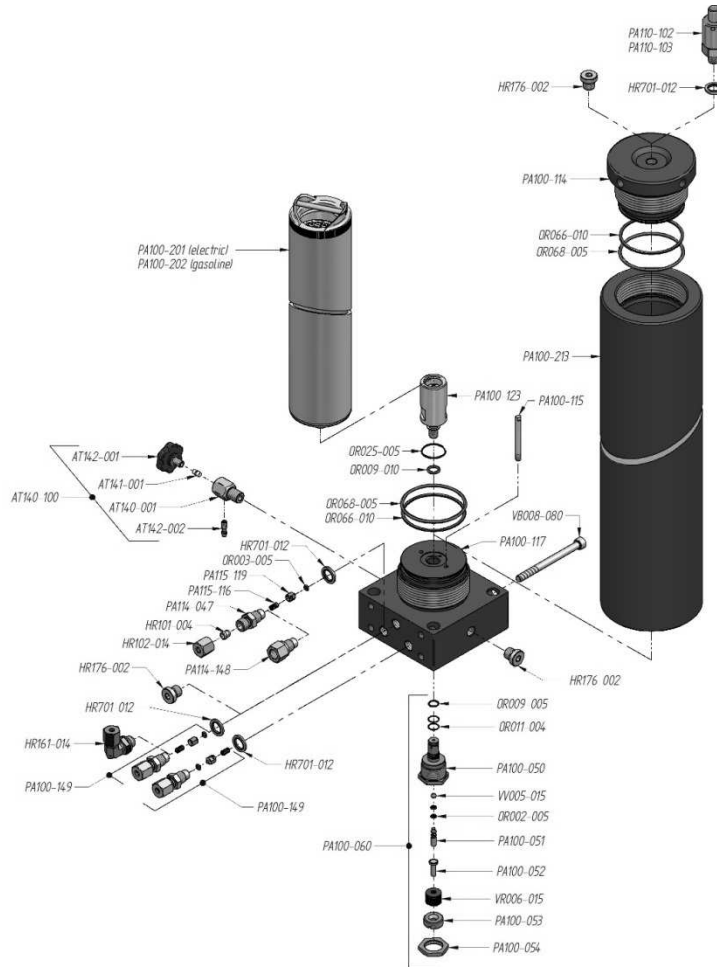
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC014-010	Tappo	PA003-025	Serpentina di raffreddamento	VB004-040	Vite
OR022-015	O-ring	PA003-030	Serpentina di raffreddamento	VB006-046	Vite
PA001-095	Staffa bloccaggio serpentine	PA003-035	Tube di collegamento	VD004-010	Dado
PA001-096	Staffa bloccaggio serpentine	PA003-040	Serpentina di raffreddamento	VD006-015	Dado
PA003-015	Serpentina di raffreddamento	PA003-050	Tube		



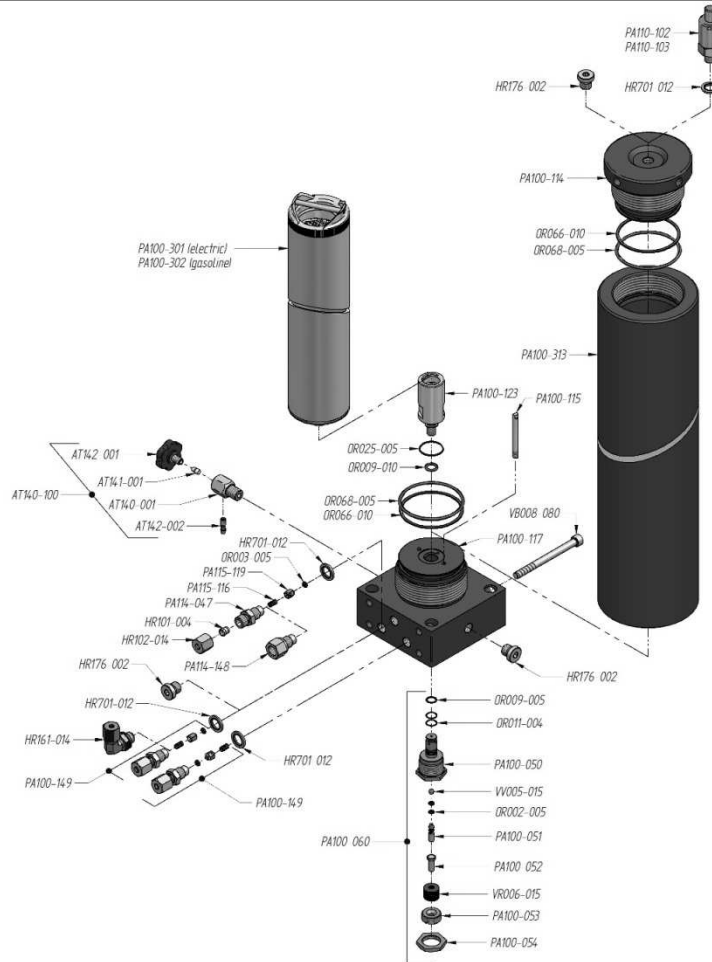
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC011-200	Rilsan tube	OR026-005	O-ring	PA114-032	Spring
AC016-203	Connection	OR063-004	O-ring	PA114-035	Drain valve connection
AC017-102	Pipe fitting "L"	OR075-005	O-ring	PA114-041	Sealing Ring
HR101-004	Ogive	PA003-100	Tube	PA114-042	Reducer
HR102-014	Nut fitting pipe	PA003-121	Tube	PA114-045	Connection INOX
HR117-031	Pipe fitting	PA003-122	Tube	PA114-049	Support condensate drain
HR175-001	Connection	PA003-123	Tube	PA114-060	Hose with fittings for collecting vessel
HR176-002	Closure plug	PA110-010	Spring	PA116-101	Timer
HR301-001	Nipple	PA114-015	Drain valve body	PA116-105	Solenoid valve 12 Volt DC
HR339-001	Connection "L"	PA114-020	Drain valve piston	VV005-016	Sphere
OR008-005	O-ring	PA114-025	Top flange		
OR011-010	O-ring	PA114-030	Piston		



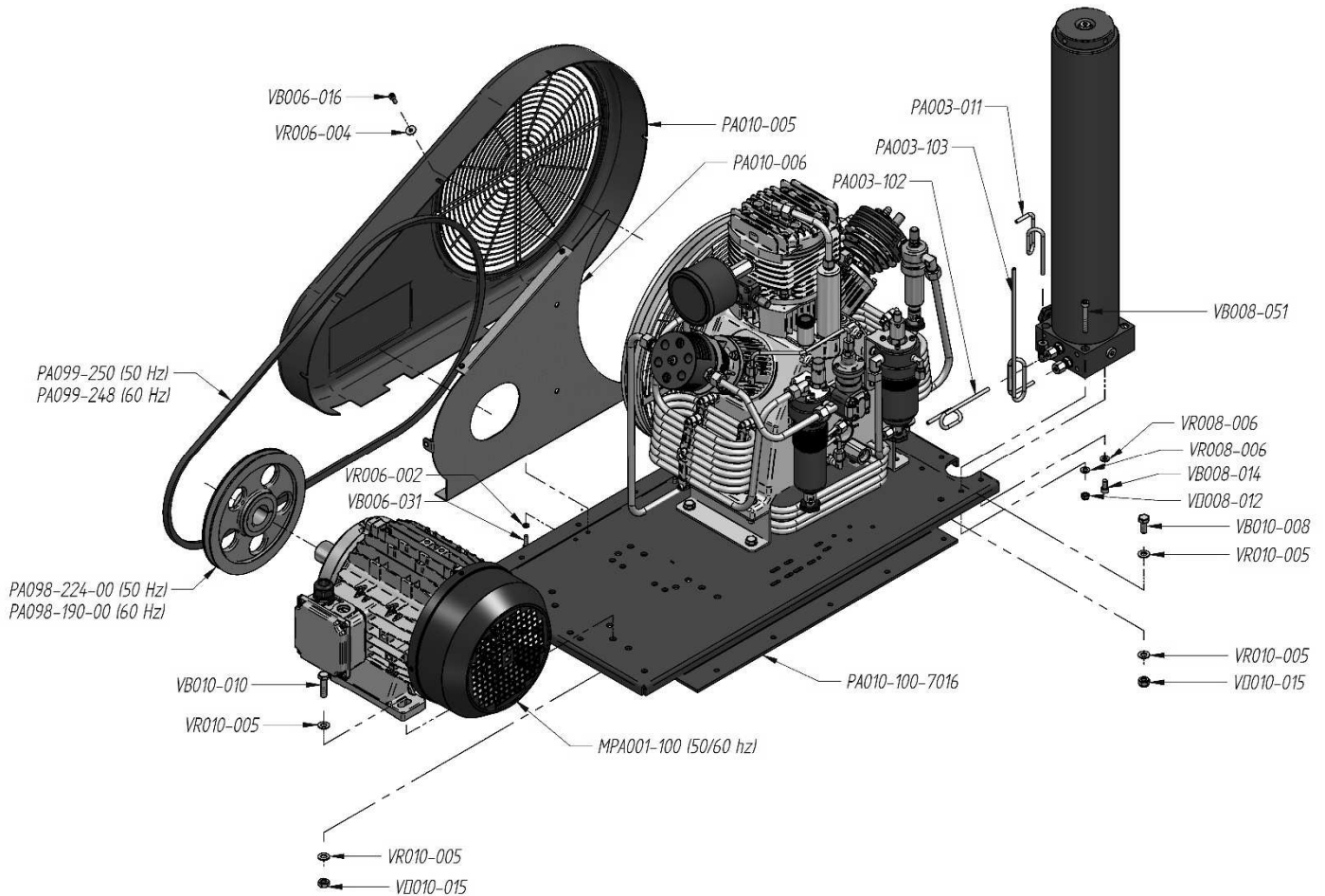
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT140-001	Drain valve housing	OR025-005	O-ring	PA100-123	Extension filter
AT140-100	Condensate drain valve complete	OR066-010	O-ring	PA100-149	Pipe fitting whit not return valve
AT141-001	Rilsan nut	OR068-005	O-ring	PA110-102	Safety valve PN 200 bar
AT142-001	Black screw of discharge	PA100-050	Maintaining valve insert	PA110-103	Safety valve PN 300 bar
AT142-002	Drain out	PA100-051	Piston maintaining valve	PA114-047	Connection
HR101-004	Oqive	PA100-052	Spring guide	PA114-148	Connection
HR102-014	Nut fitting pipe	PA100-053	Closure plug	PA115-116	Spring no return valve
HR161-014	Pipe fitting "L"	PA100-054	Nut	PA115-119	Piston no return valve
HR176-002	Closure plug	PA100-060	Maintaining valve complete	VB008-080	Screw
HR701-012	Washer	PA100-101	Filter cartridge - electric	VR006-015	Washer spring
OR002-005	O-ring	PA100-102	Filter cartridge - gasoline	VV005-015	Sphere
OR003-005	O-ring	PA100-113	Filter housing		
OR009-005	O-ring	PA100-114	Head filter housing		
OR009-010	O-ring	PA100-115	Nozzle		
OR011-004	O-ring	PA100-117	Base filter		



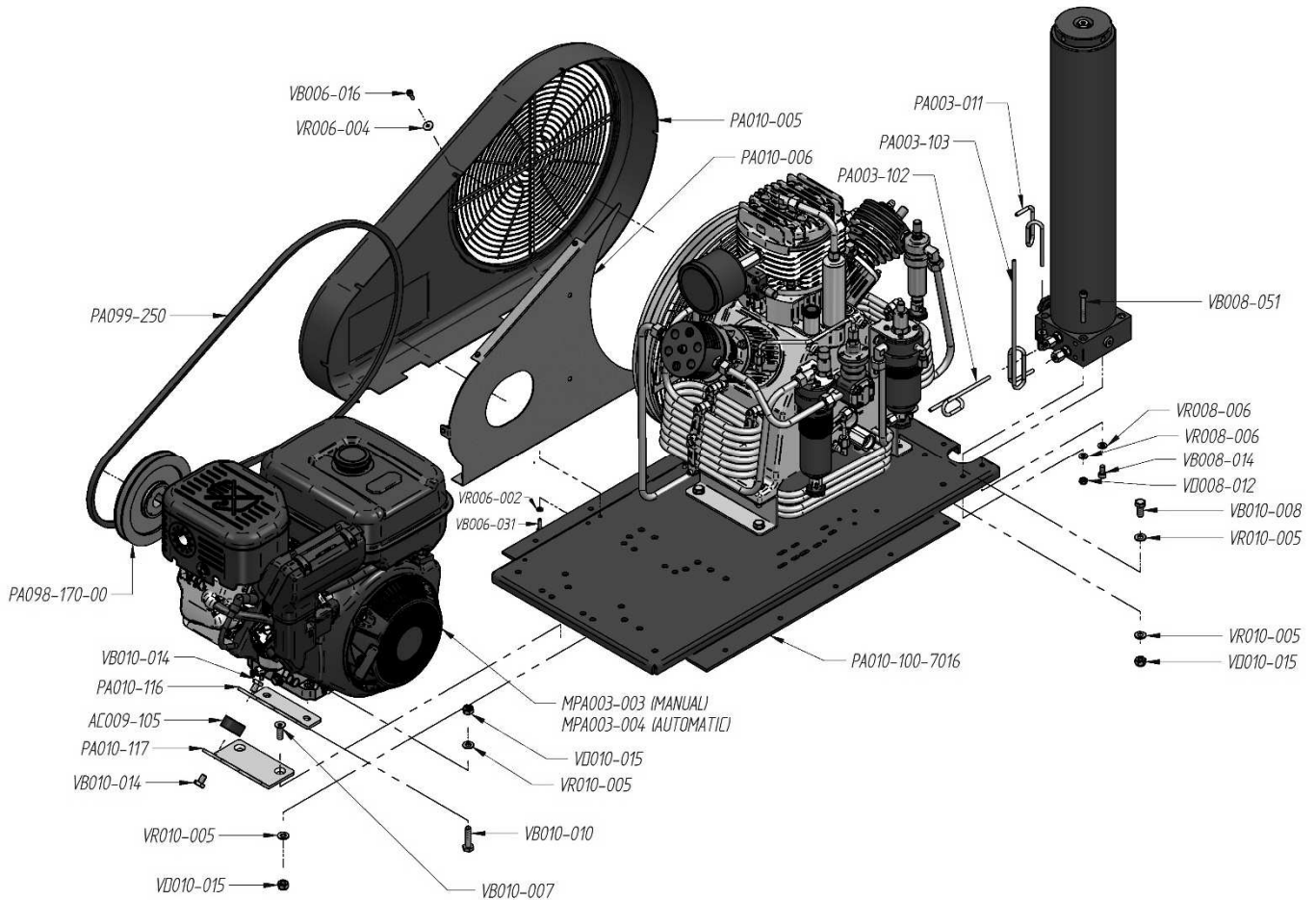
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT140-001	Drain valve housing	OR025-005	O-ring	PA100-123	Extension filter
AT140-100	Condensate drain valve complete	OR066-010	O-ring	PA100-149	Pipe fitting whit not return valve
AT141-001	Rilsan nut	OR068-005	O-ring	PA110-102	Safety valve PN 200 bar
AT142-001	Black screw of discharge	PA100-050	Maintaining valve insert	PA110-103	Safety valve PN 300 bar
AT142-002	Drain out	PA100-051	Piston maintaining valve	PA114-047	Connection
HR101-004	Ogive	PA100-052	Spring guide	PA114-148	Connection
HR102-014	Nut fitting pipe	PA100-053	Closure plug	PA115-116	Spring no return valve
HR161-014	Pipe fitting "L"	PA100-054	Nut	PA115-119	Piston no return valve
HR176-002	Closure plug	PA100-060	Maintaining valve complete	VB008-080	Screw
HR701-012	Washer	PA100-201	Filter cartridge - electric	VR006-015	Washer spring
OR002-005	O-ring	PA100-202	Filter cartridge - gasoline	VV005-015	Sphere
OR003-005	O-ring	PA100-213	Filter housing		
OR009-005	O-ring	PA100-114	Head filter housing		
OR009-010	O-ring	PA100-115	Nozzle		
OR011-004	O-ring	PA100-117	Base filter		



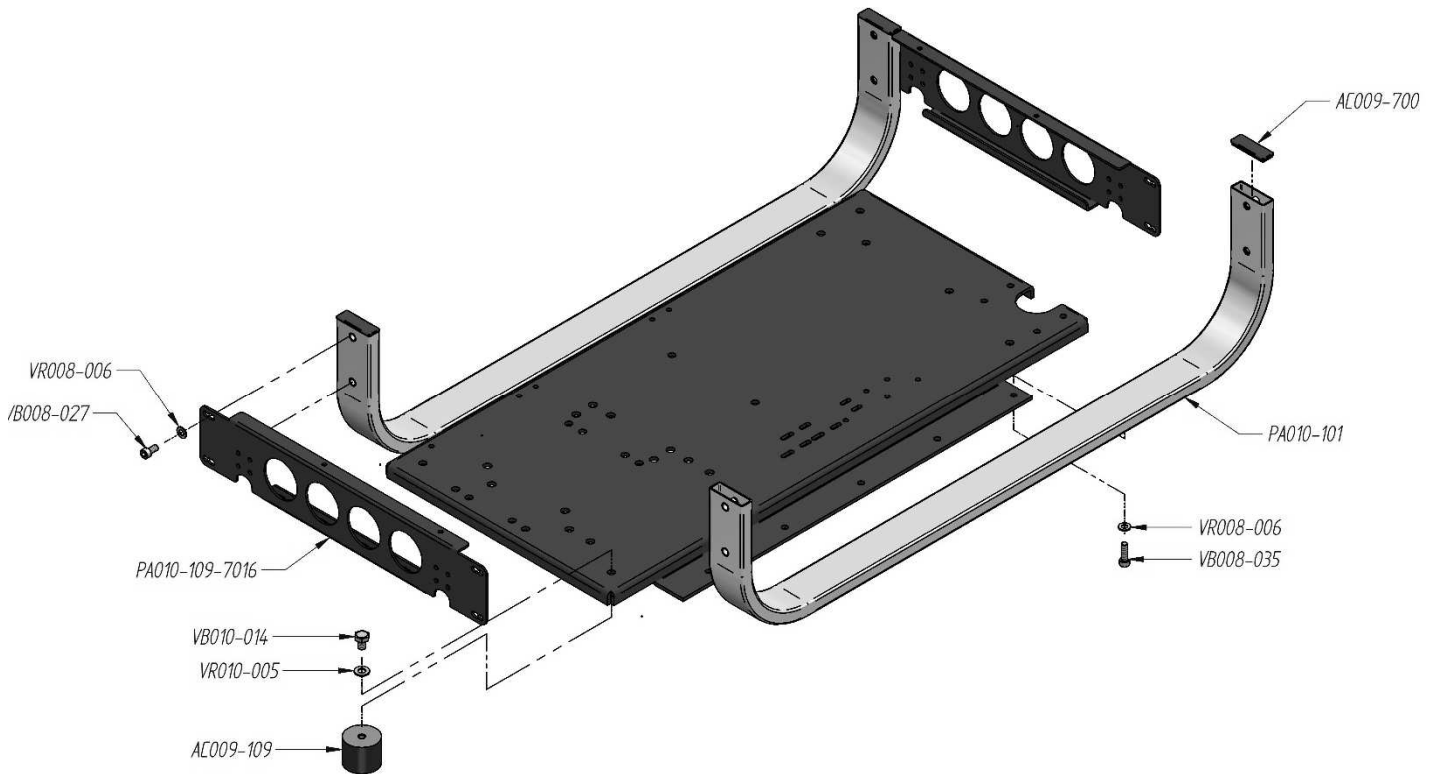
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AT140-001	Drain valve housing	OR025-005	O-ring	PA100-123	Extension filter
AT140-100	Condensate drain valve complete	OR066-010	O-ring	PA100-149	Pipe fitting whit not return valve
AT141-001	Rilsan nut	OR068-005	O-ring	PA110-102	Safety valve PN 200 bar
AT142-001	Black screw of discharge	PA100-050	Maintaining valve insert	PA110-103	Safety valve PN 300 bar
AT142-002	Drain out	PA100-051	Piston maintaining valve	PA114-047	Connection
HR101-004	Ogive	PA100-052	Spring guide	PA114-148	Connection
HR102-014	Nut fitting pipe	PA100-053	Closure plug	PA115-116	Spring no return valve
HR161-014	Pipe fitting "L"	PA100-054	Nut	PA115-119	Piston no return valve
HR176-002	Closure plug	PA100-060	Maintaining valve complete	VB008-080	Screw
HR701-012	Washer	PA100-301	Filter cartridge - electric	VR006-015	Washer spring
OR002-005	O-ring	PA100-302	Filter cartridge - gasoline	VV005-015	Sphere
OR003-005	O-ring	PA100-313	Filter housing		
OR009-005	O-ring	PA100-114	Head filter housing		
OR009-010	O-ring	PA100-115	Nozzle		
OR011-004	O-ring	PA100-117	Base filter		



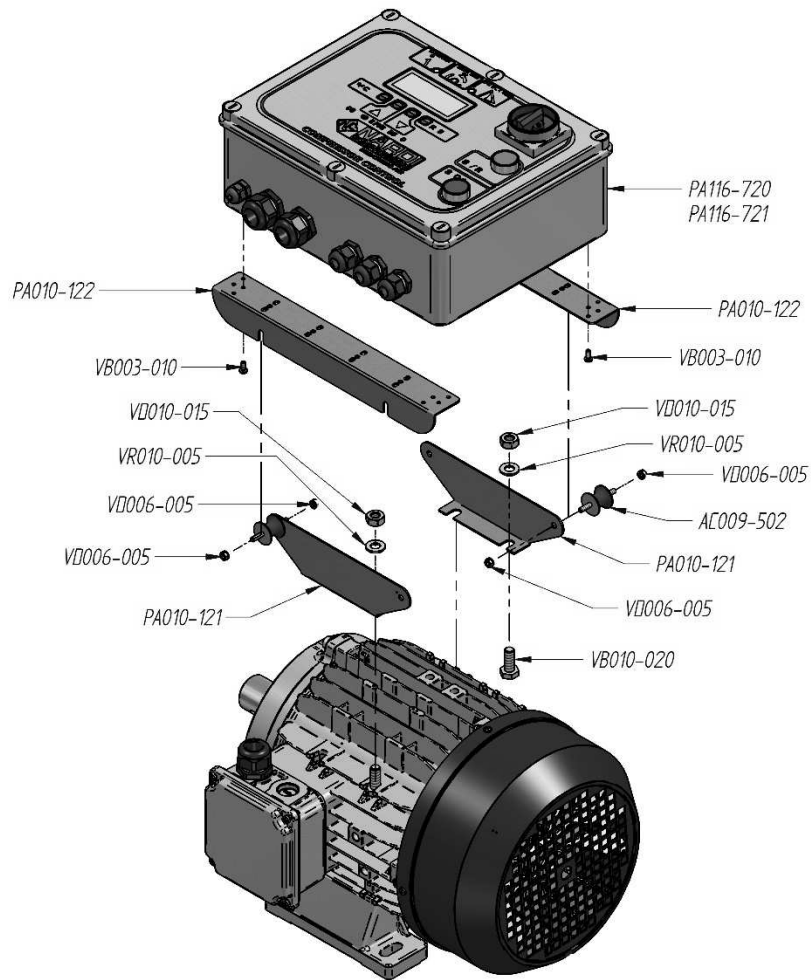
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
MPA001-100	Electric motor 10,0 Hp	PA098-224-00	Pulley	VB010-010	Screw
PA003-011	Tube	PA099-248	Belt	VD008-012	Nut
PA003-102	Tube	PA099-250	Belt	VD010-015	Nut
PA003-101	Tube	VB006-016	Screw	VR006-002	Washer
PA010-005	Cover fan	VB006-031	Screw	VR006-004	Washer
PA010-006	Metal Cover fan	VB008-014	Screw	VR008-006	Washer
PA010-100-7016	Frame	VB008-051	Screw	VR010-005	Washer
PA098-190-00	Pulley	VB010-008	Screw		



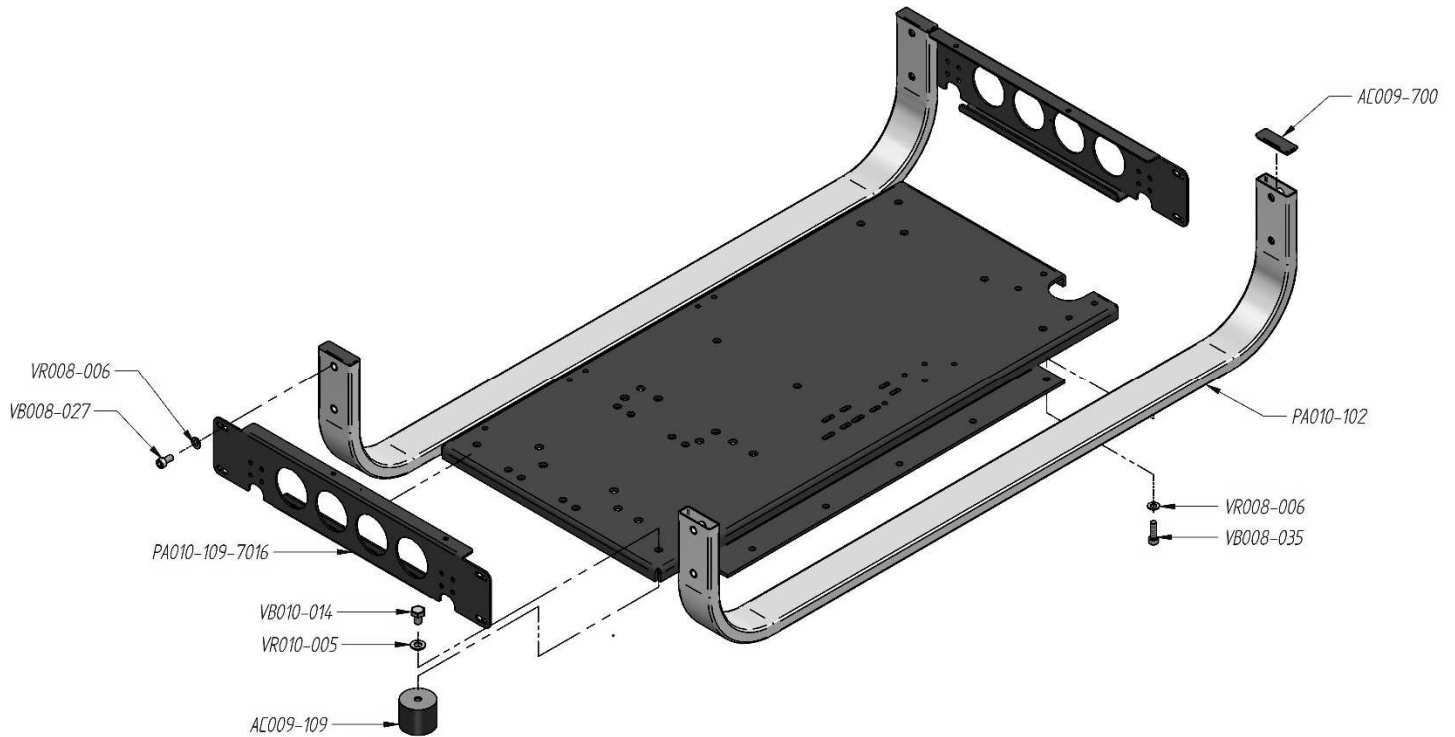
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-105	Antivibration	PA010-116	Support	VB010-010	Screw
MPA003-003	Gasoline engine manual	PA010-117	Support	VB010-014	Screw
MPA003-004	Gasoline engine automatic	PA098-170-00	Pulley	VD008-012	Nut
PA003-011	Tube	PA099-250	Belt	VD010-015	Nut
PA003-101	Tube	VB006-016	Screw	VR006-002	Washer
PA003-102	Tube	VB006-031	Screw	VR006-004	Washer
PA010-005	Cover fan	VB008-014	Screw	VR008-006	Washer
PA010-006	Metal Cover fan	VB008-051	Screw	VR010-005	Washer
PA010-100-7016	Frame	VB010-007	Screw		



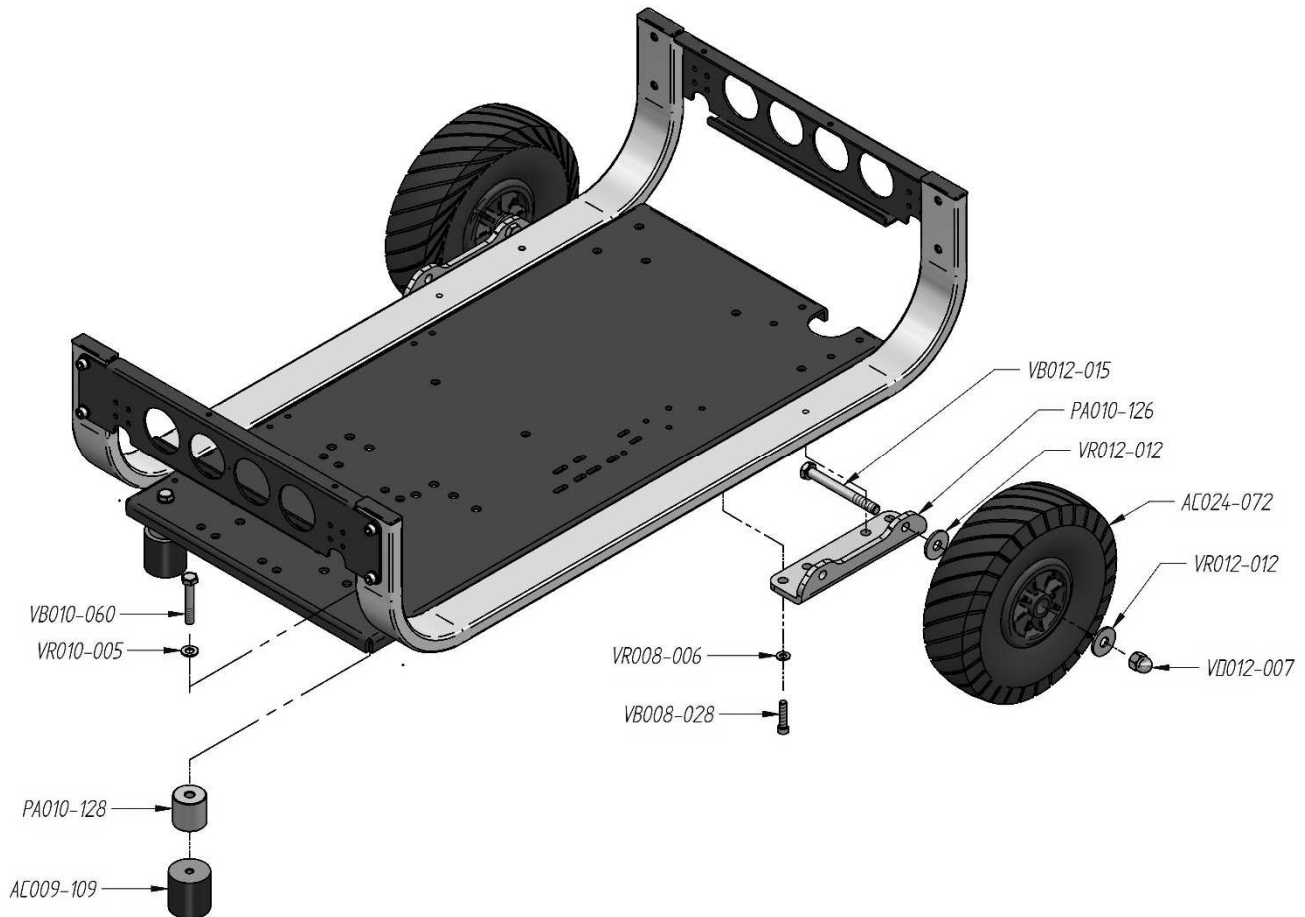
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-109	Plug with thread	PA010-109-7016	Frame	VB010-014	Screw
AC009-700	Closure	VB008-027	Screw	VR008-006	Washer
PA010-101	Frame	VB008-035	Screw	VR010-050	Washer



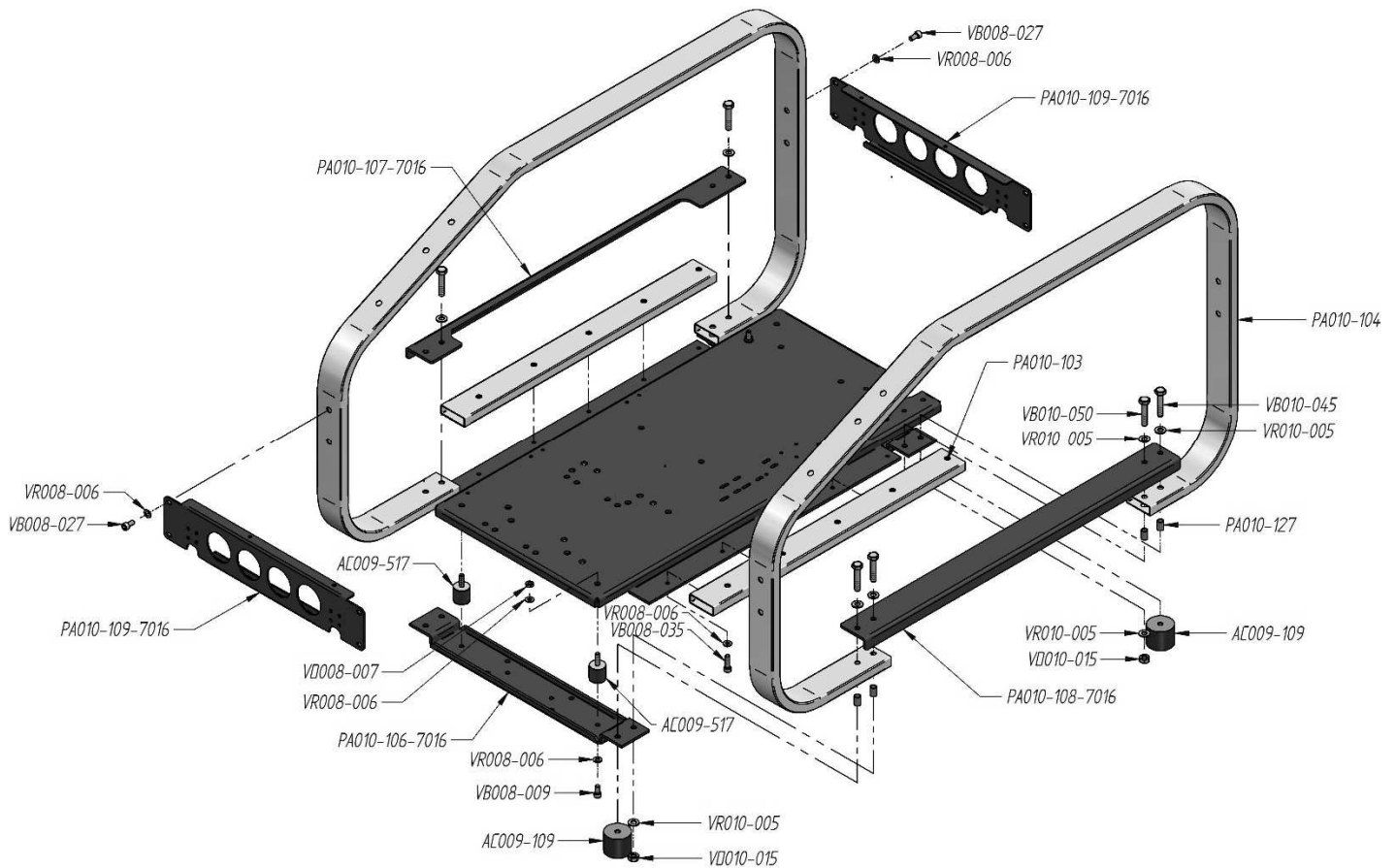
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-502	No-vibration rubber	PA116-721	Electrical box with soft-start	VR008-006	Washer
PA010-119	Support	VB003-010	Screw		
PA010-121	Support	VB008-013	Screw		
PA010-122	Support	VD006-005	Nut		
PA116-720	Electrical box	VD008-011	Nut		



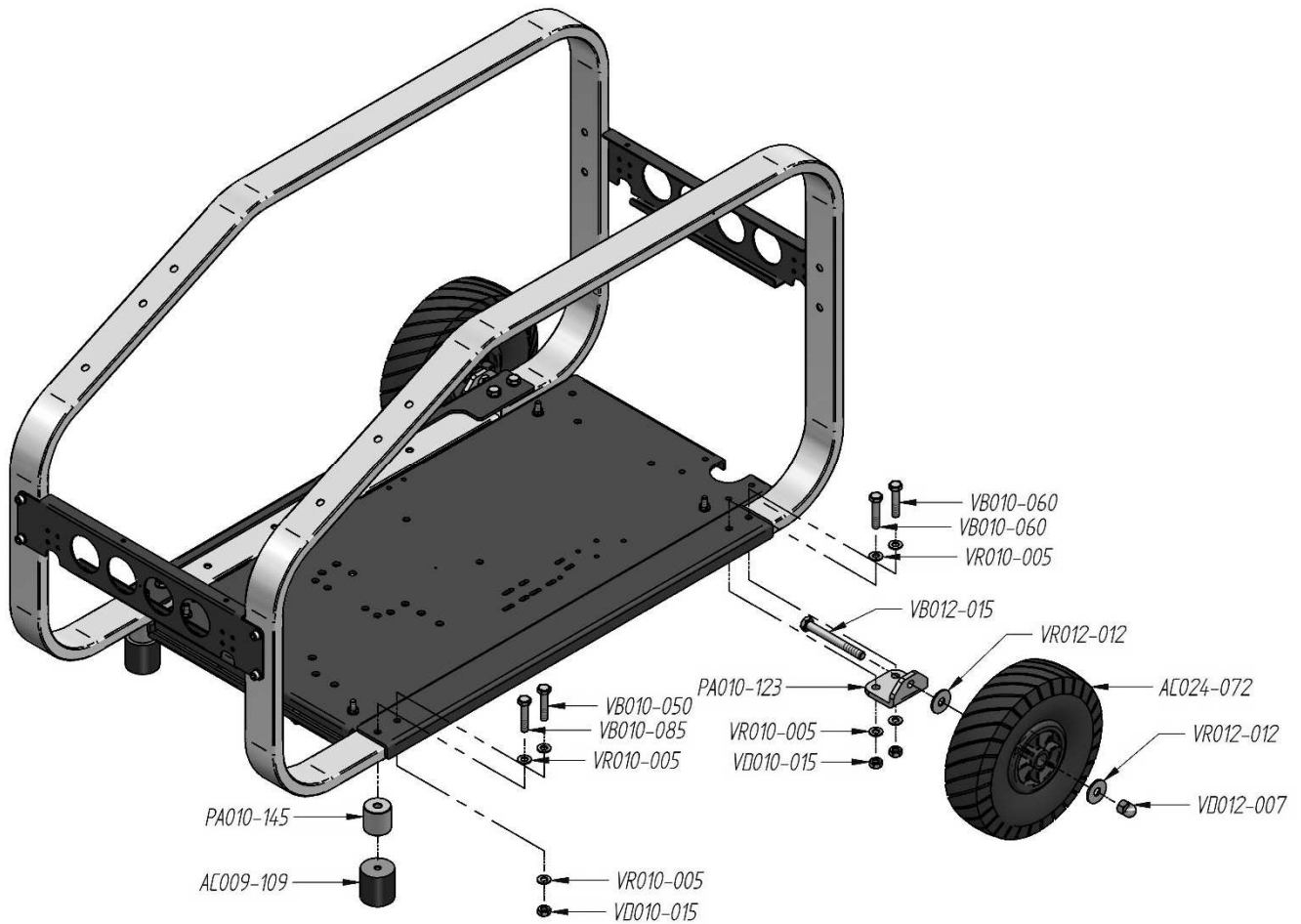
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-109	Plug whith thread	PA010-109-7016	Frame	VB010-014	Screw
AC009-700	Closure	VB008-027	Screw	VR008-006	Washer
PA010-102	Frame	VB008-035	Screw	VR010-050	Washer



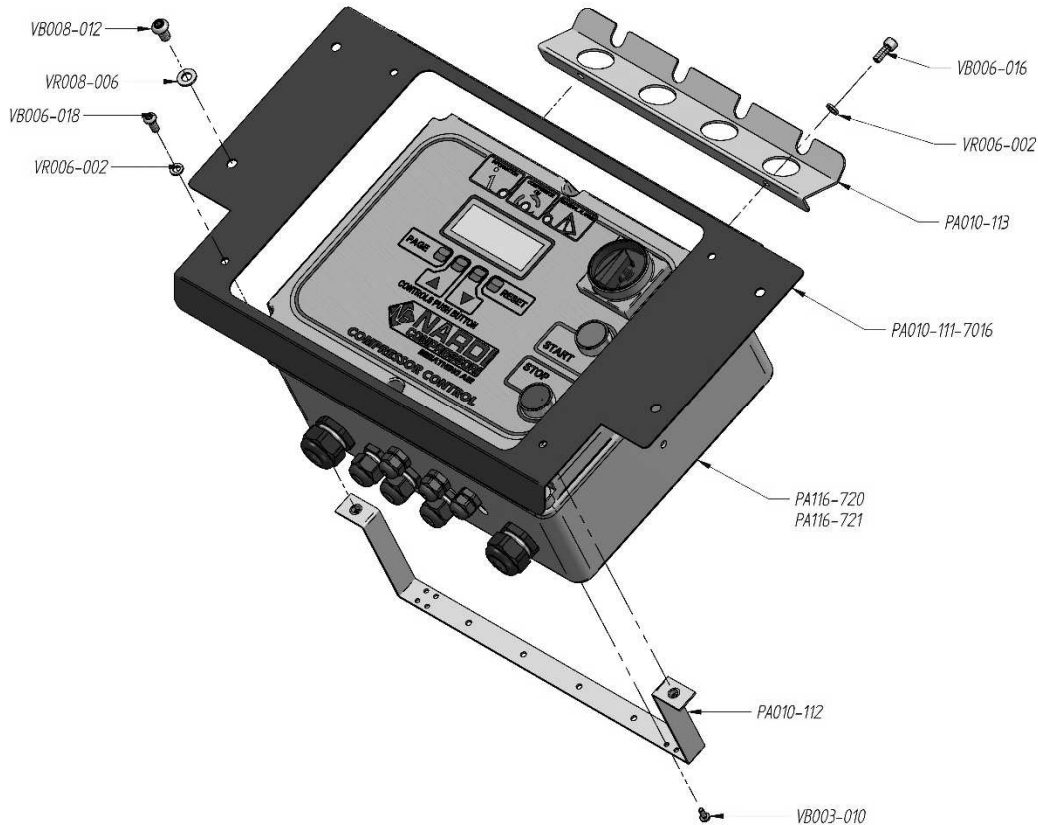
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-109	Plug whith thread	VB008-028	Screw	VR008-006	Washer
AC024-072	Wheel	VB010-060	Screw	VR010-005	Washer
PA010-126	Support	VB012-015	Screw	VR012-012	Washer
PA010-128	Washer	VD012-007	Nut		



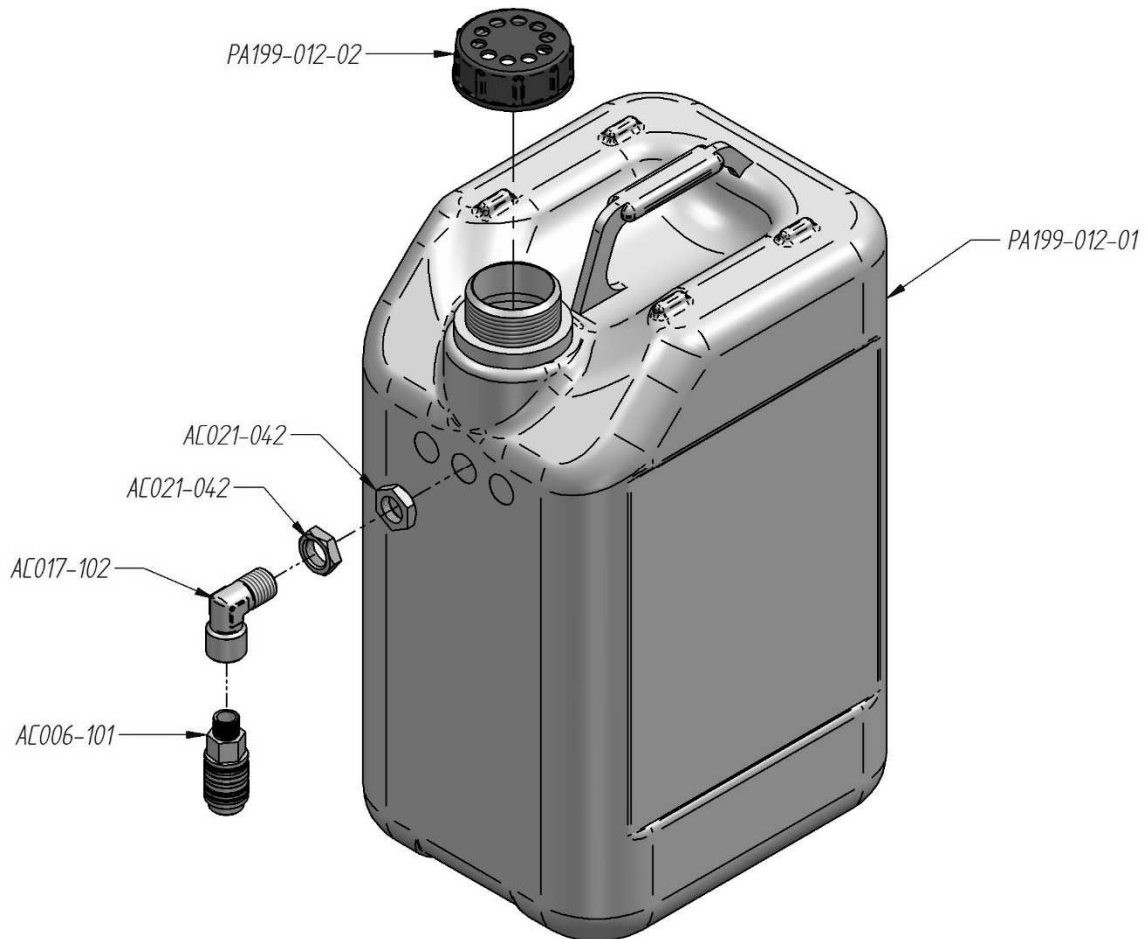
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-109	Plug with thread	PA010-109-7016	Frame	VD008-007	Nut
AC009-517	No-vibration rubber	PA010-127	Washer	VD010-015	Nut
PA010-103	Frame	VB008-009	Screw	VR008-006	Washer
PA010-104	Frame	VB008-027	Screw	VR010-009	Washer
PA010-106-7016	Frame	VB008-035	Screw		
PA010-107-7016	Frame	VB010-045	Screw		
PA010-108-7016	Frame	VB010-050	Screw		



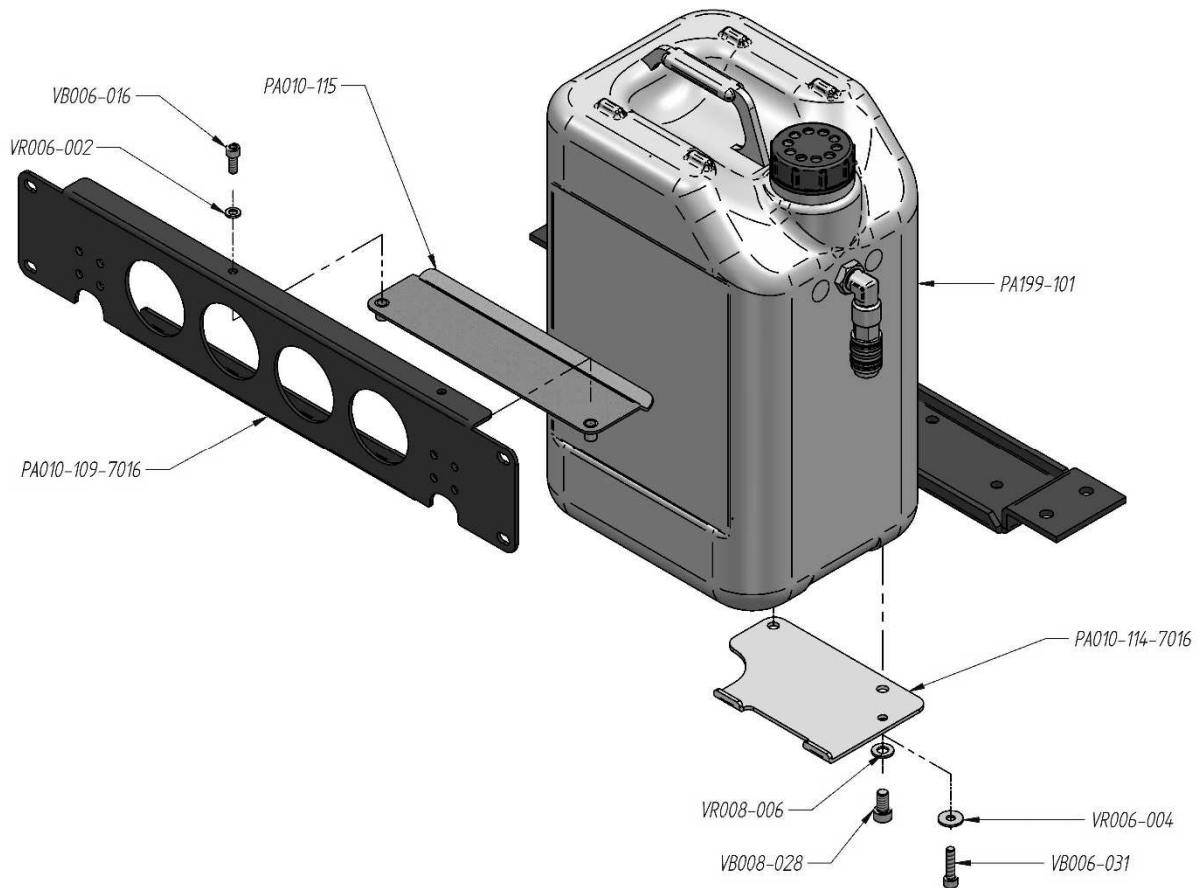
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-109	Plug with thread	VB010-050	Screw	VD012-007	Nut
AC024-072	Wheel	VB010-060	Screw	VR010-005	Washer
PA010-123	Support	VB010-085	Screw	VR012-012	Washer
PA010-145	Washer	VB012-015	Screw		



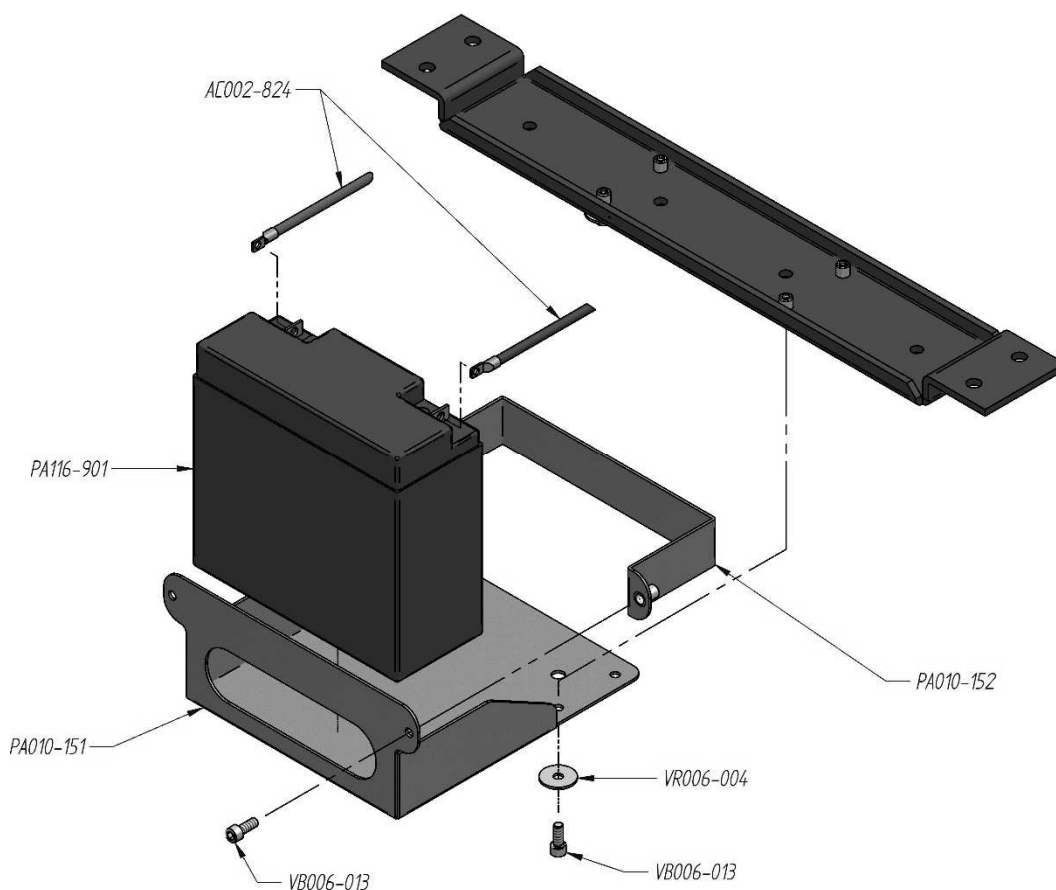
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
PA010-111	Support	VB003-010	Screw	VR008-006	Washer
PA010-112	Support	VB006-016	Screw		
PA010-113	Support	VB006-018	Screw		
PA116-721	Electrical box	VB008-012	Screw		
PA116-721	Electrical box whit soft-start	VR006-002	Washer		



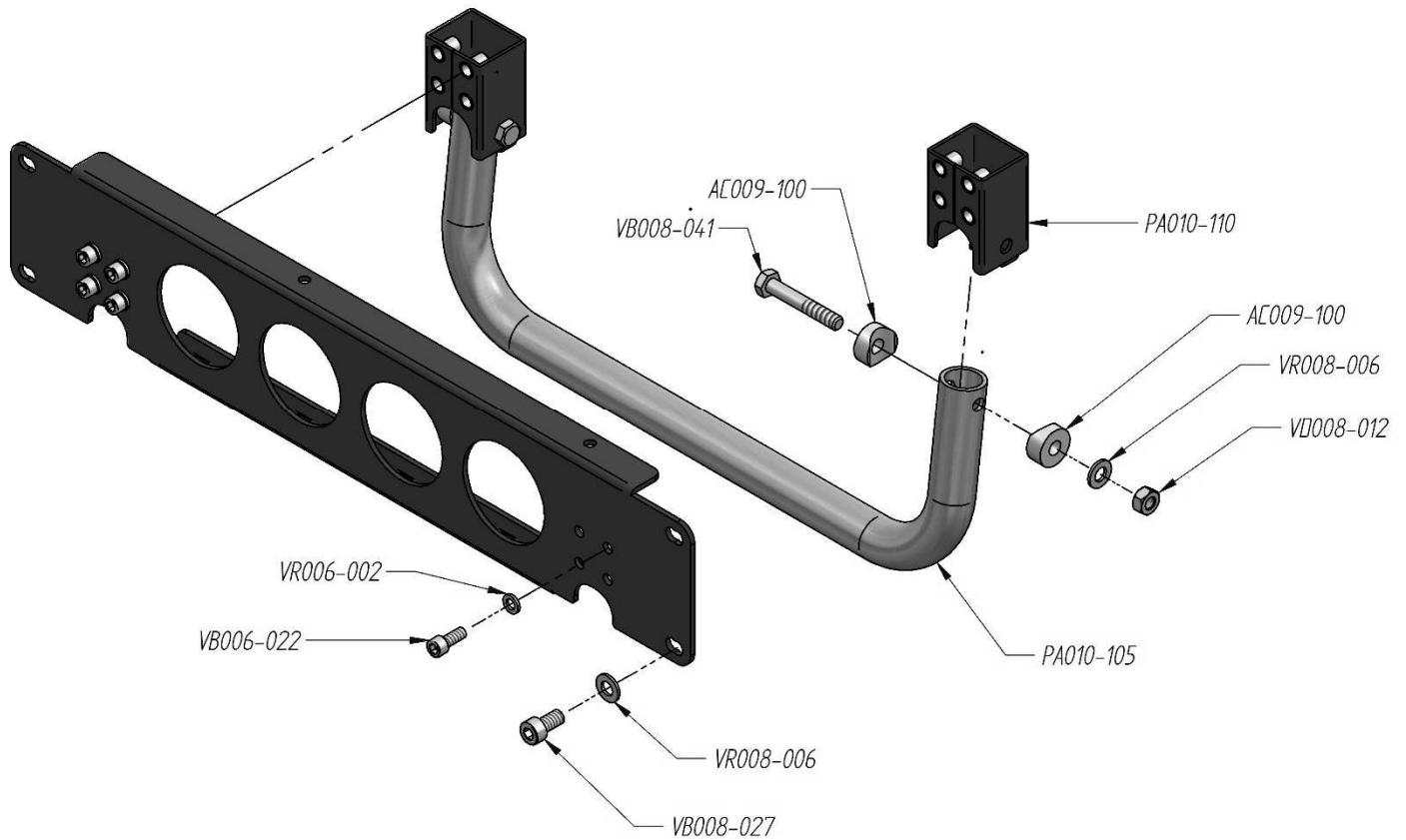
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC006-101	Universal Coupler	AC021-042	Nut	PA199-012-02	Cover
AC017-102	Pipe fitting "L"	PA199-012-01	Tank		



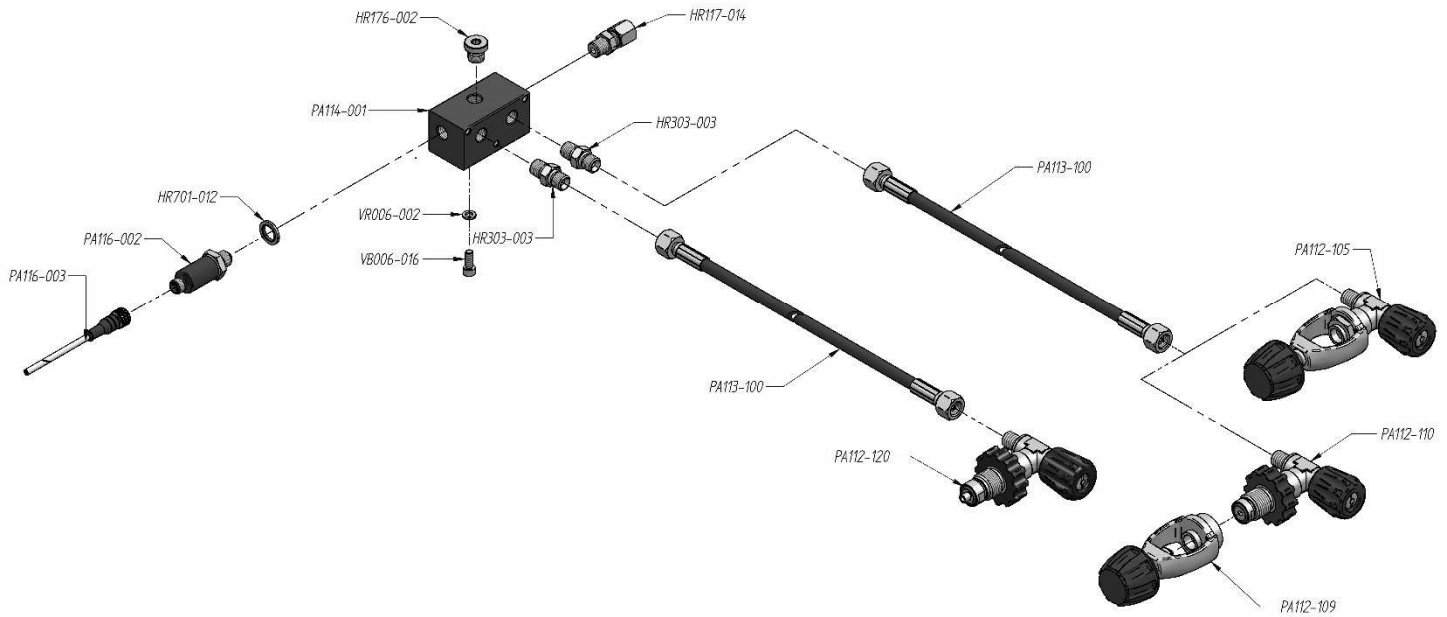
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
PA010-109-7016	Frame	VB006-031	Screw	VR008-006	Washer
PA010-114-7016	Frame	VB008-028	Screw		
PA199-101	Eco-friendly – Tank	VR006-002	Washer		
VB006-016	Screw	VR006-004	Washer		



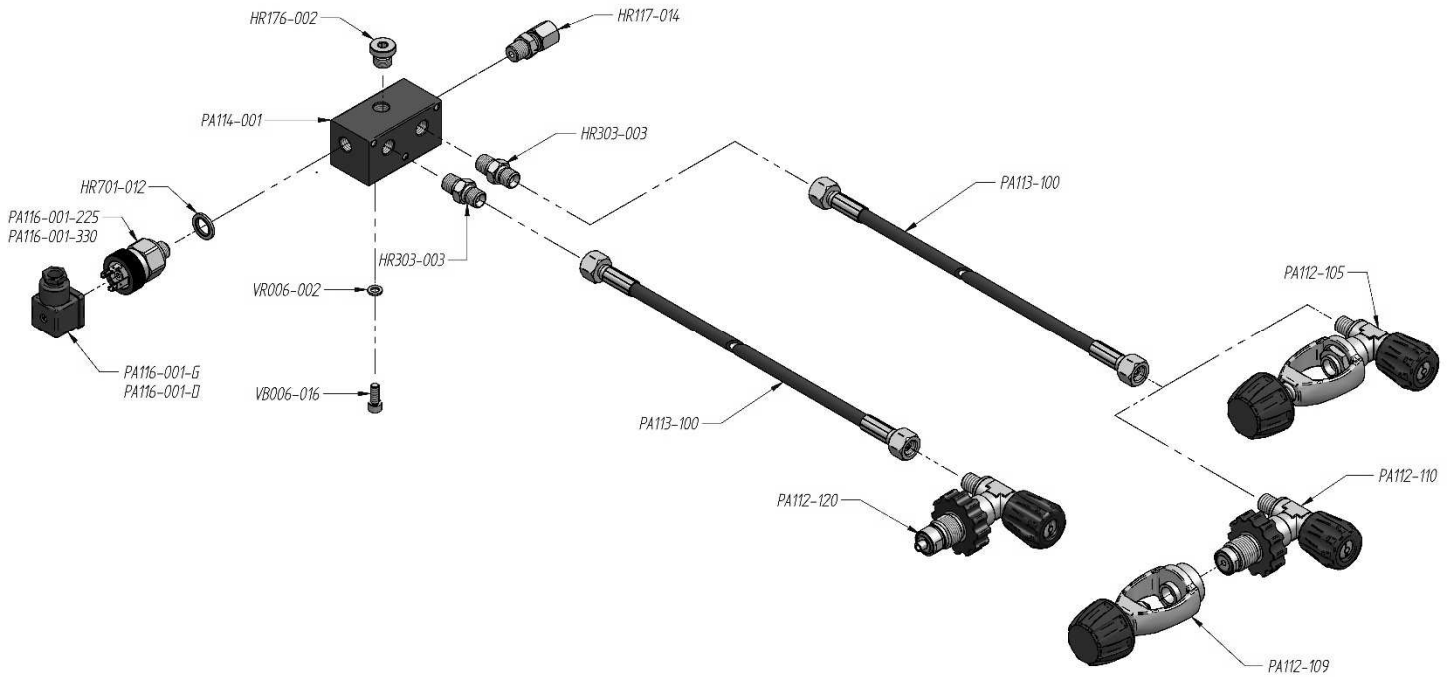
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC002-824	Cable	PA010-152	Frame	VB006-013	Screw
PA010-151	Frame	PA116-901	Frame	VR006-004	Washer



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-100	Flange	VB008-027	Screw	VR008-006	Washer
PA010-105	Handle	VB008-041	Screw		
PA010-110	Support	VD008-012	Nut		
VB006-022	Screw	VR006-002	Washer		

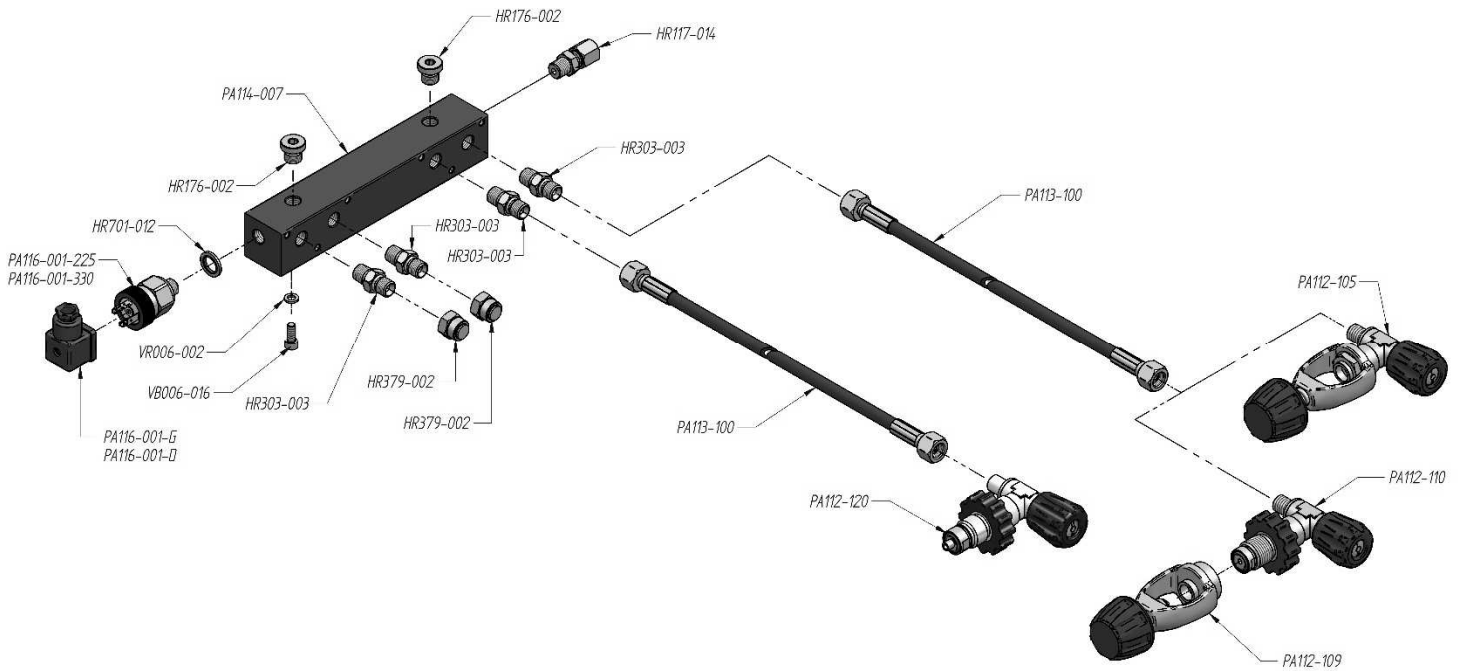


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-105	Fitting valve INT 200	PA116-002	Trasductor
HR176-002	Closing plug	PA112-110	Fitting valve DIN 200	PA116-003	Cable for trasductor
HR303-003	Connection	PA112-120	Fitting valve DIN 300	VB006-016	Screw
HR701-012	Washer	PA113-100	Fitting hose		
PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA114-001	Distridutor 2 exit		

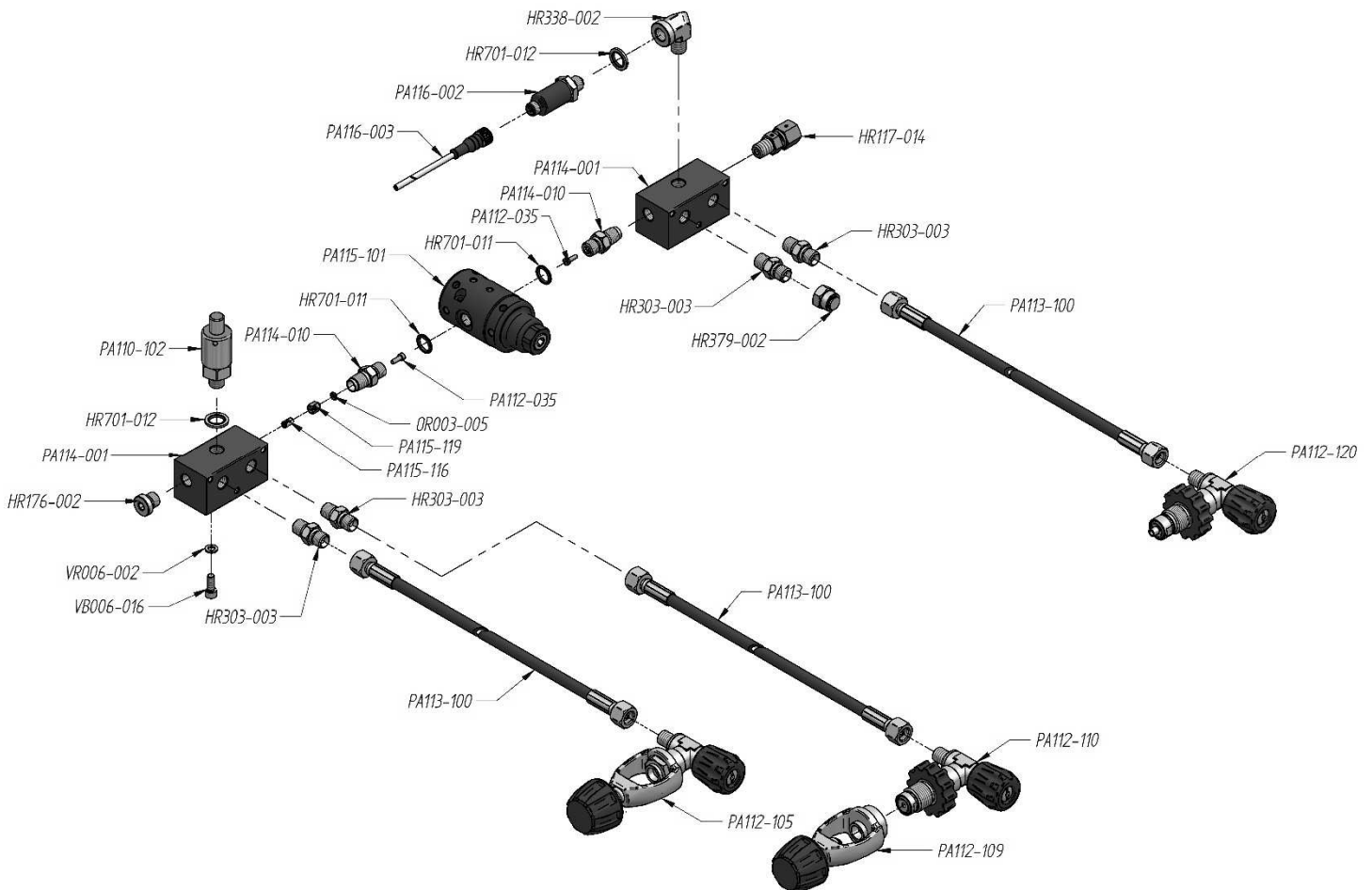


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-105	Fitting valve INT 200	PA116-001-225	Pressure swich 225 bar
HR176-002	Clousing plug	PA112-110	Fitting valve DIN 200	PA116-001-330	Pressure swich 225 bar
HR303-003	Connection	PA112-120	Fitting valve DIN 300	PA116-001-D	Connector with cable for Diesel
HR701-012	Washer	PA113-100	Fitting hose	PA116-001-G	Connector with cable for Gasoline
PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA114-001	Distridutor 2 exit	VB006-016	Screw

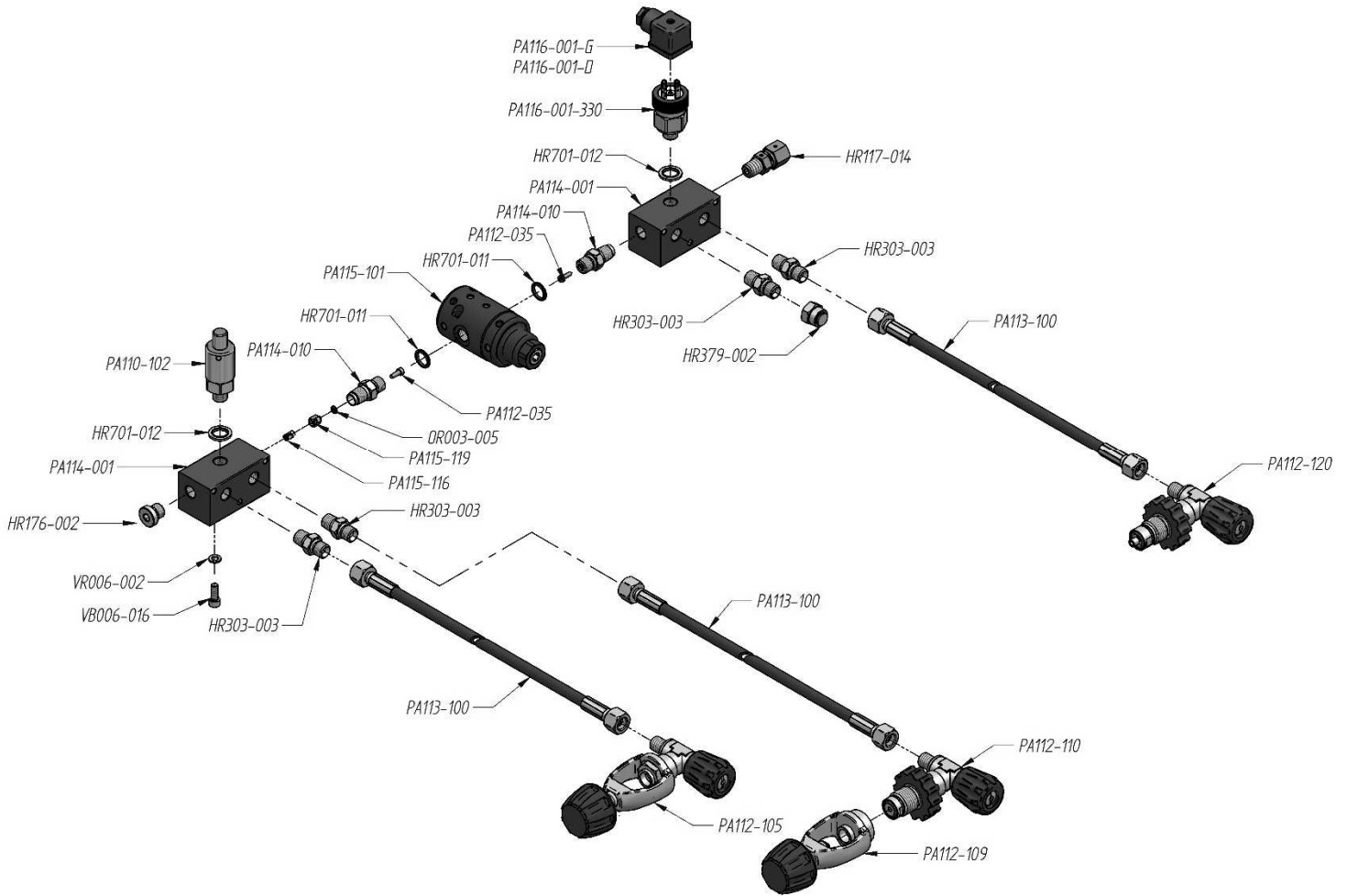
	SPARE PARTS PACIFIC EG - PG - DY <i>Fitting and connection</i>	PA202-024 Rev.00
		2015 Rev. 00



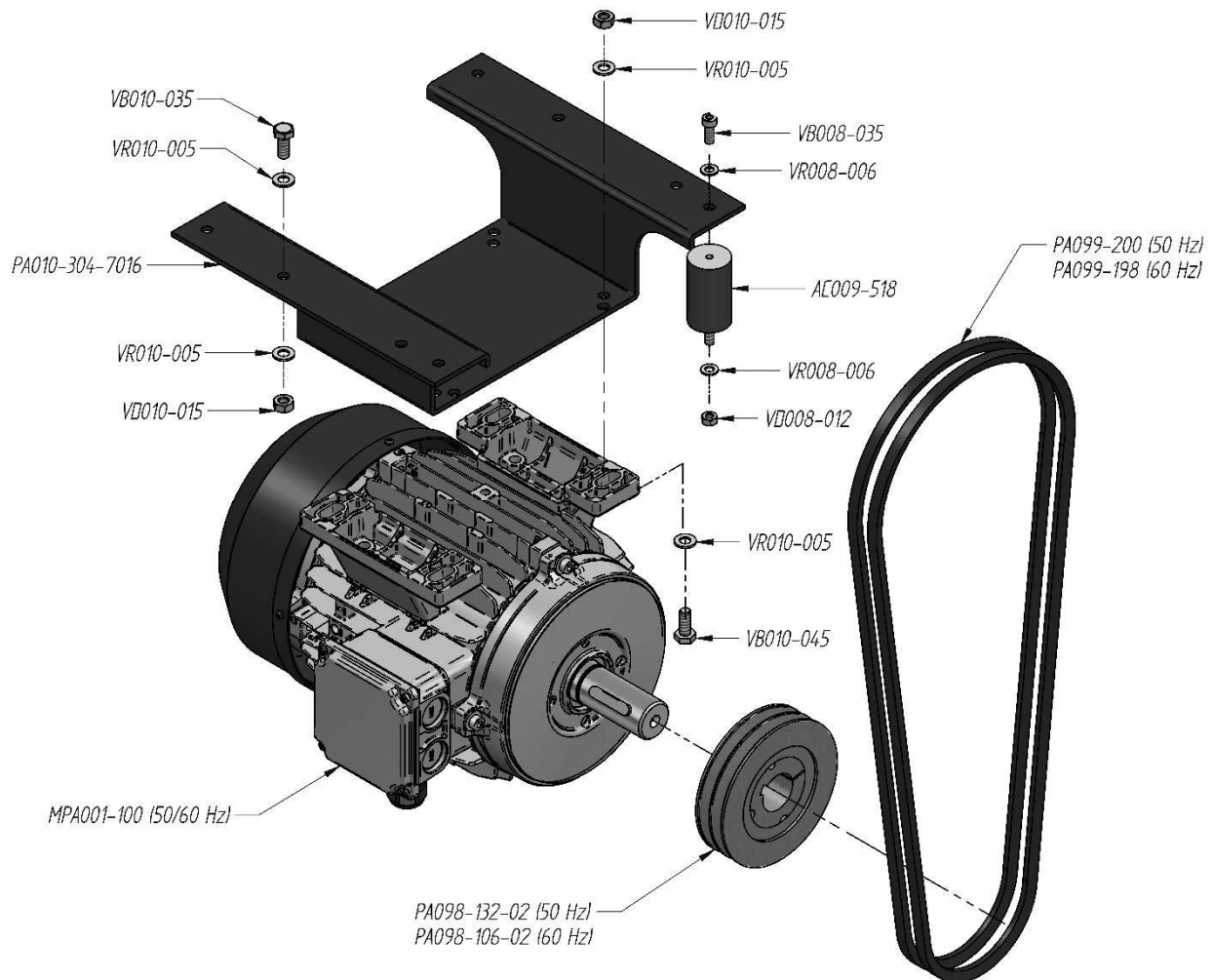
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-105	Fitting valve INT 200	PA116-001-330	Pressure swich 225 bar
HR176-002	Closing plug	PA112-110	Fitting valve DIN 200	PA116-001-D	Connector with cable for Gasoline
HR303-003	Connection	PA112-120	Fitting valve DIN 300	PA116-001-G	Connector with cable for Diesel
HR379-002	Closing plug	PA113-100	Fitting hose	VB006-016	Screw
HR701-012	Washer	PA114-007	Distridutor 4 exit		
PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA116-001-225	Pressure swich 225 bar		



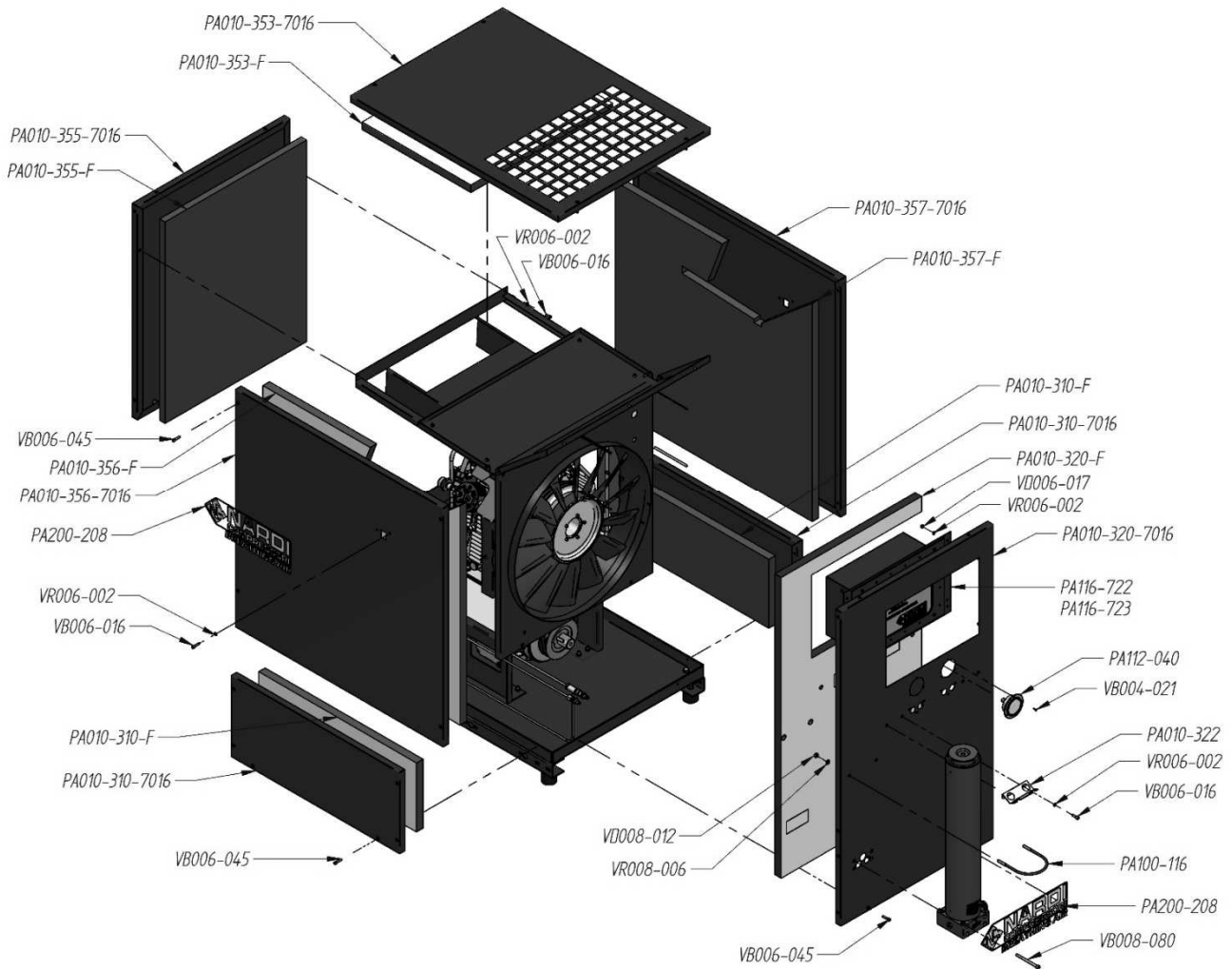
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-035	Filter	PA115-101	Reductor high pressure
HR176-002	Closing plug	PA112-105	Fitting valve INT 200	PA115-116	Spring no return valve
HR303-003	Connection	PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA115-119	Piston no return valve
HR338-002	Pipe fitting "L"	PA112-105	Fitting valve INT 200	PA116-002	Trasductor
HR379-002	Closing plug	PA112-110	Fitting valve DIN 200	PA116-003	Cable for trasductor
HR701-011	Washer	PA112-120	Fitting valve DIN 300	VB006-016	Screw
HR701-012	Washer	PA113-100	Fitting hose		
OR003-005	O-ring	PA114-001	Distridutor 2 exit		
PA110-102	Safety valve PN 200 bar	PA114-010	Connection		



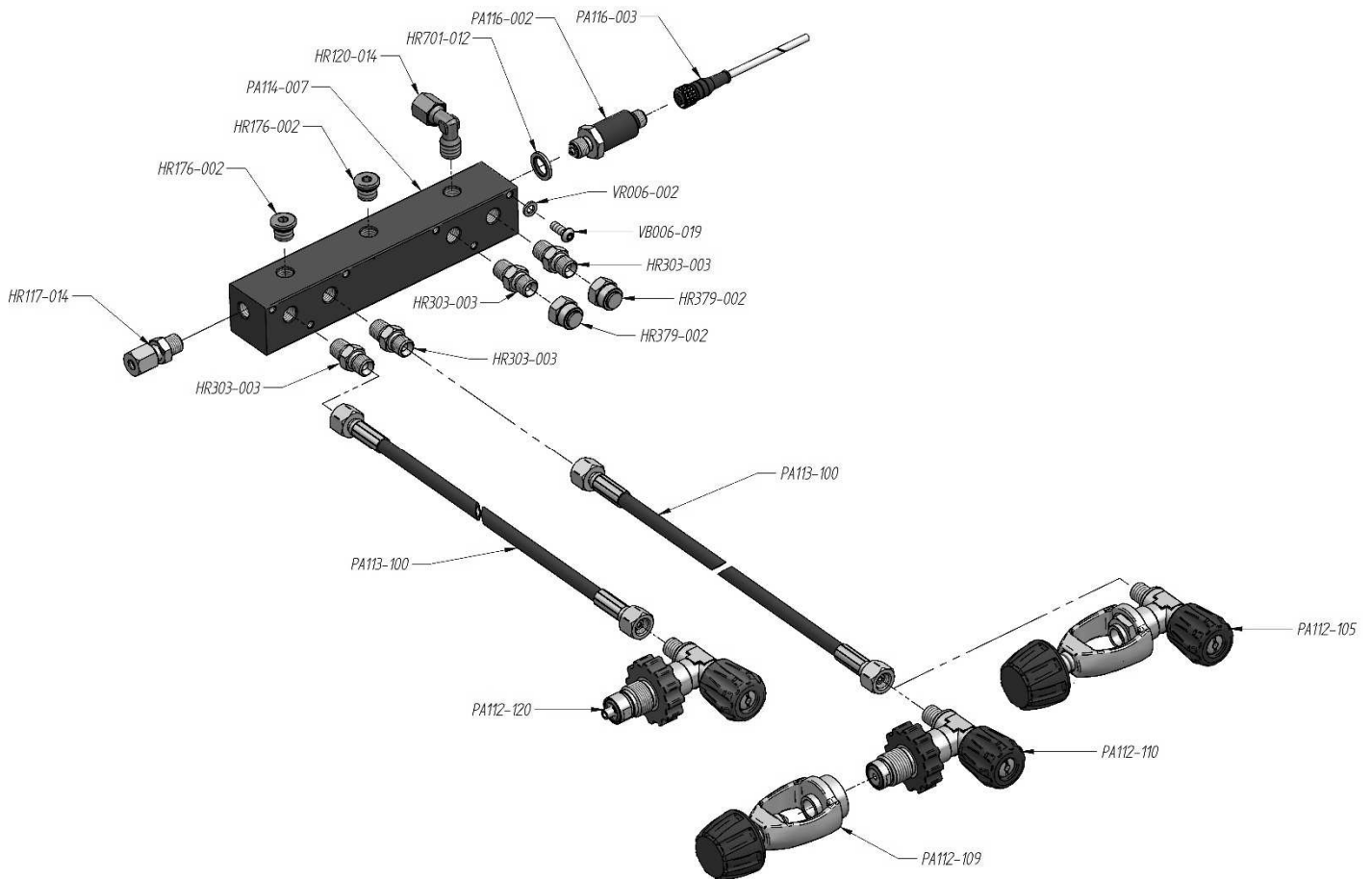
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-035	Filter	PA115-101	Reductor high pressure
HR176-002	Closing plug	PA112-105	Fitting valve INT 200	PA115-116	Spring no return valve
HR303-003	Connection	PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA115-119	Piston no return valve
HR338-002	Pipe fitting "L"	PA112-105	Fitting valve INT 200	PA116-001-330	Pressure swich 225 bar
HR379-002	Closing plug	PA112-110	Fitting valve DIN 200	PA116-001-D	Connector with cable for Diesel
HR701-011	Washer	PA112-120	Fitting valve DIN 300	PA116-001-G	Connector with cable for Gasoline
HR701-012	Washer	PA113-100	Fitting hose	VB006-016	Screw
OR003-005	O-ring	PA114-001	Distridutor 2 exit		
PA110-102	Safety valve PN 200 bar	PA114-010	Connection		



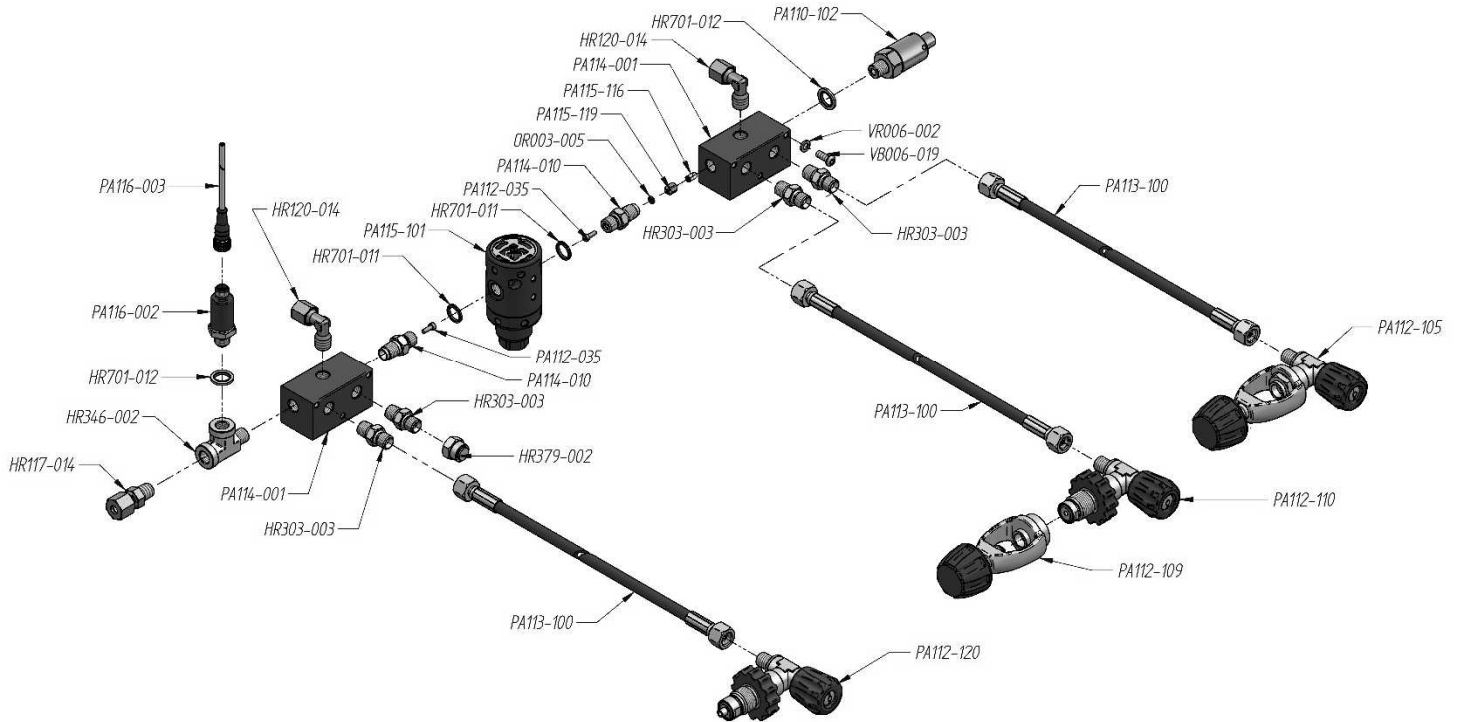
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC009-518	Antivibration	PA099-200	Belt	VD008-012	Nut
PA010-304-7016	Support	MPA001-100	Electric motor 7,5 Hp	VD010-015	Nut
PA098-106-02	Pulley	VB008-035	Screw	VR008-006	Washer
PA098-132-02	Pulley	VB010-035	Screw	VR010-005	Washer
PA099-198	Belt	VB010-045	Screw		



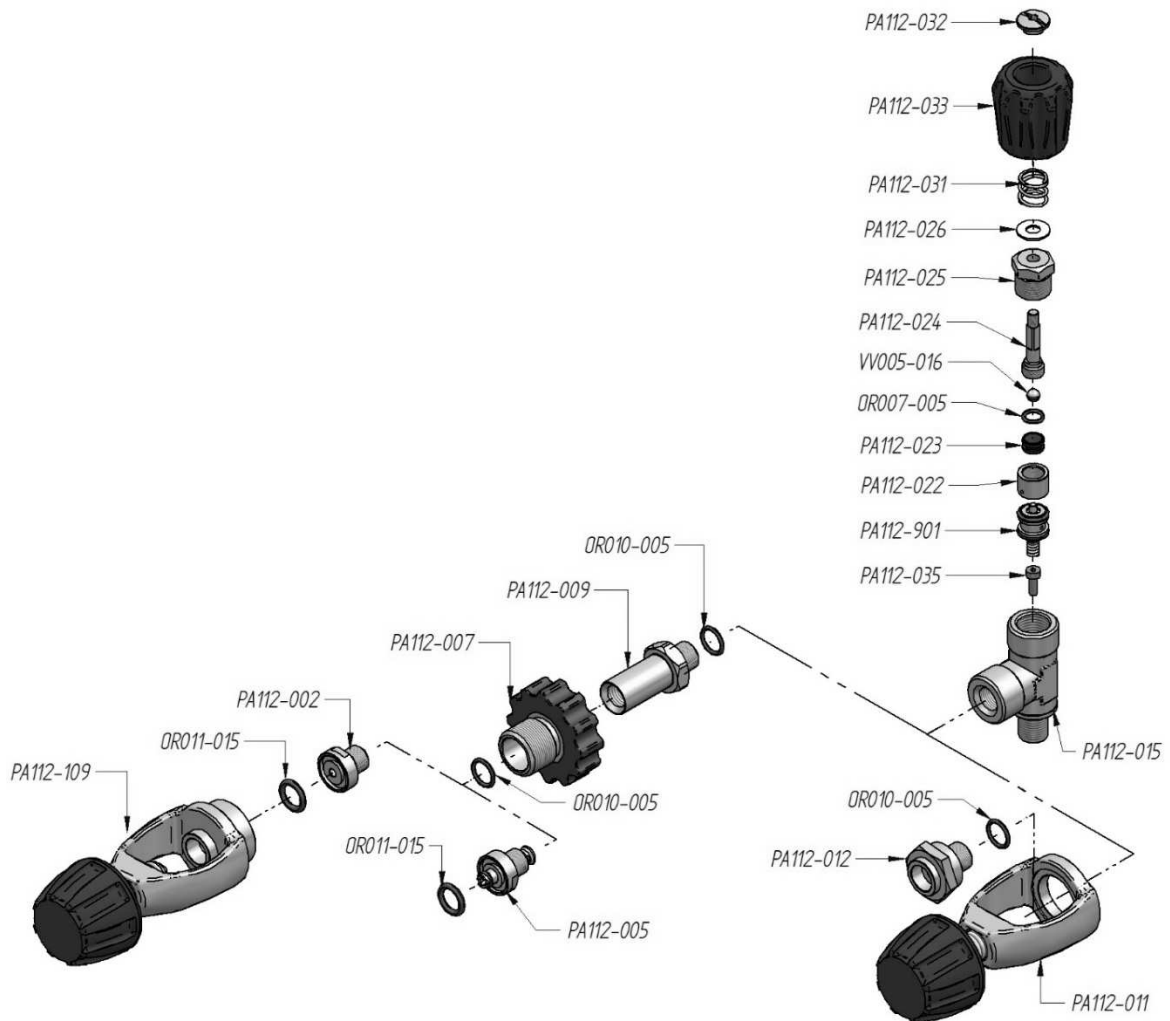
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
PA010-310-7016	Panel	PA010-356-F	Sound-absorbing	VB006-045	Screw
PA010-310-F	Sound-absorbing	PA010-357-7016	Panel	VB008-080	Screw
PA010-320-7016	Panel	PA010-357-F	Sound-absorbing	VD006-017	Nut
PA010-320-F	Sound-absorbing	PA100-116	Mounting bracket	VD008-012	Nut
PA010-322	Support	PA112-040	Manometer	VR006-002	Washer
PA010-353-7016	Panel	PA116-722	Switchboard	VR008-006	Washer
PA010-353-F	Sound-absorbing	PA116-722	Switchboard whit soft start		
PA010-355-7016	Panel	PA200-208	Stiker		
PA010-355-F	Sound-absorbing	VB004-021	Screw		
PA010-356-7016	Panel	VB006-016	Screw		



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA116-002	Trasductor
HR176-002	Closing plug	PA112-105	Fitting valve INT 200	PA116-003	Cable for trasductor
HR120-014	Pipe fitting	PA112-110	Fitting valve DIN 200	VB006-019	Screw
HR303-003	Connection	PA112-120	Fitting valve DIN 300		
HR379-002	Closing plug	PA113-100	Fitting hose		
HR701-012	Washer	PA114-007	Distridutor 4 exit		

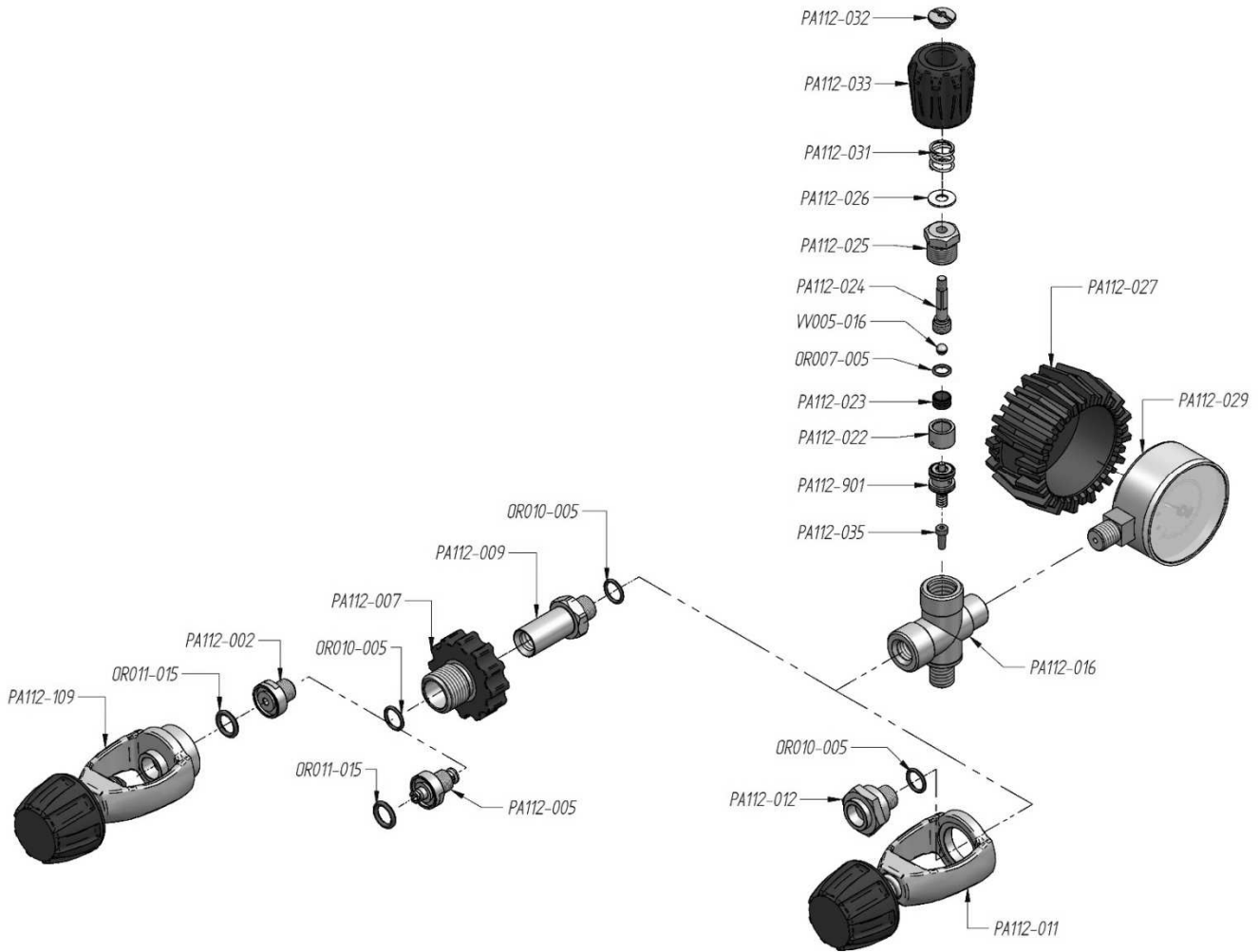


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR117-014	Pipe fitting	PA112-035	Filter	PA115-101	Reductor high pressure
HR120-014	Pipe fitting "L"	PA112-105	Fitting valve INT 200	PA115-116	Spring no return valve
HR303-003	Connection	PA112-109	Adapter DIN 200 / INT-CGA 200 Bar - YOKE	PA115-119	Piston no return valve
HR346-002	Pipe fitting "T"	PA112-110	Fitting valve DIN 200	PA116-002	Trasductor
HR379-002	Closing plug	PA112-120	Fitting valve DIN 300	PA116-003	Cable for trasductor
HR701-011	Washer	PA113-100	Fitting hose	VB006-016	Screw
HR701-012	Washer	PA114-001	Distridutor 2 exit		
OR003-005	O-ring	PA114-010	Connection		
PA110-102	Safety valve PN 200 bar				

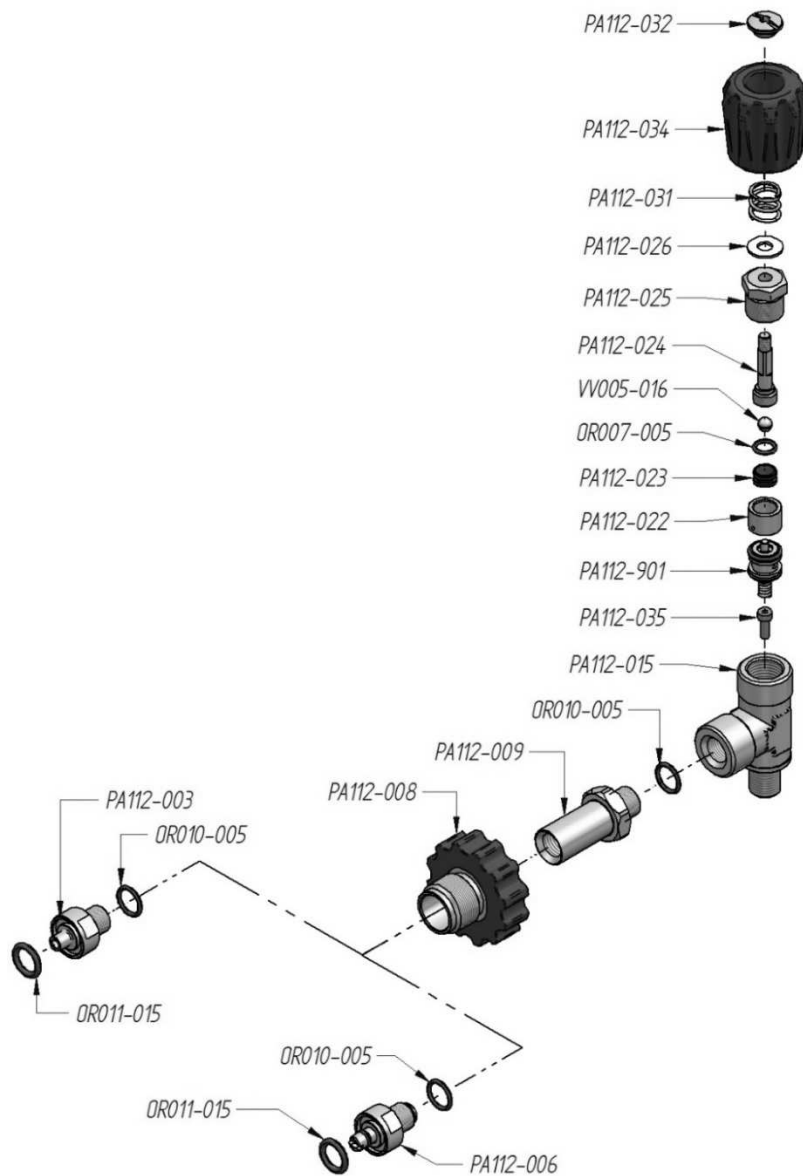


CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR007-005	O-ring	PA112-012	Bracket blocks INT-CGA	PA112-032	Nut
OR010-005	O-ring	PA112-015	Body valve	PA112-033	Rubber knob black 200 bar
OR011-015	O-ring	PA112-022	Cylindrical guide	PA112-035	Filter
PA112-002	Fitting connection 200 BAR	PA112-023	Piston valve insert	PA112-109	International connection INT-CGA
PA112-005	Fitting connection 200 BAR flow stop	PA112-024	Valve shaft	PA112-901	Kit pressure valve
PA112-007	Knob DIN 200 black	PA112-025	Closure nut	VV005-015	Sphere
PA112-009	Knob guide DIN 200	PA112-026	Washer		
PA112-011	International connection INT-CGA	PA112-031	Spring		

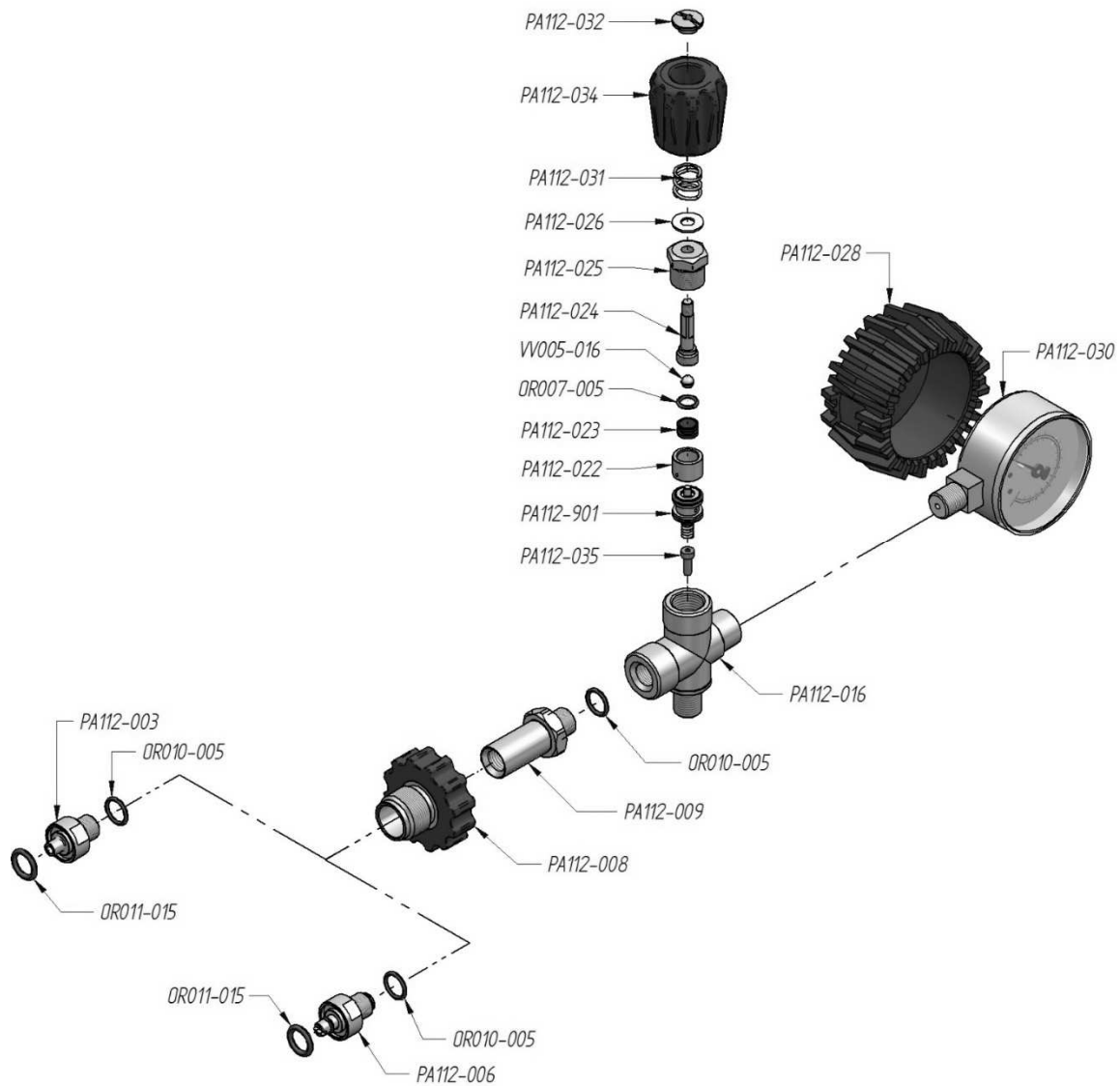
	SPARE PARTS PACIFIC Fitting valve 200 BAR	PA112-001 Rev.00
		2015 Rev. 00



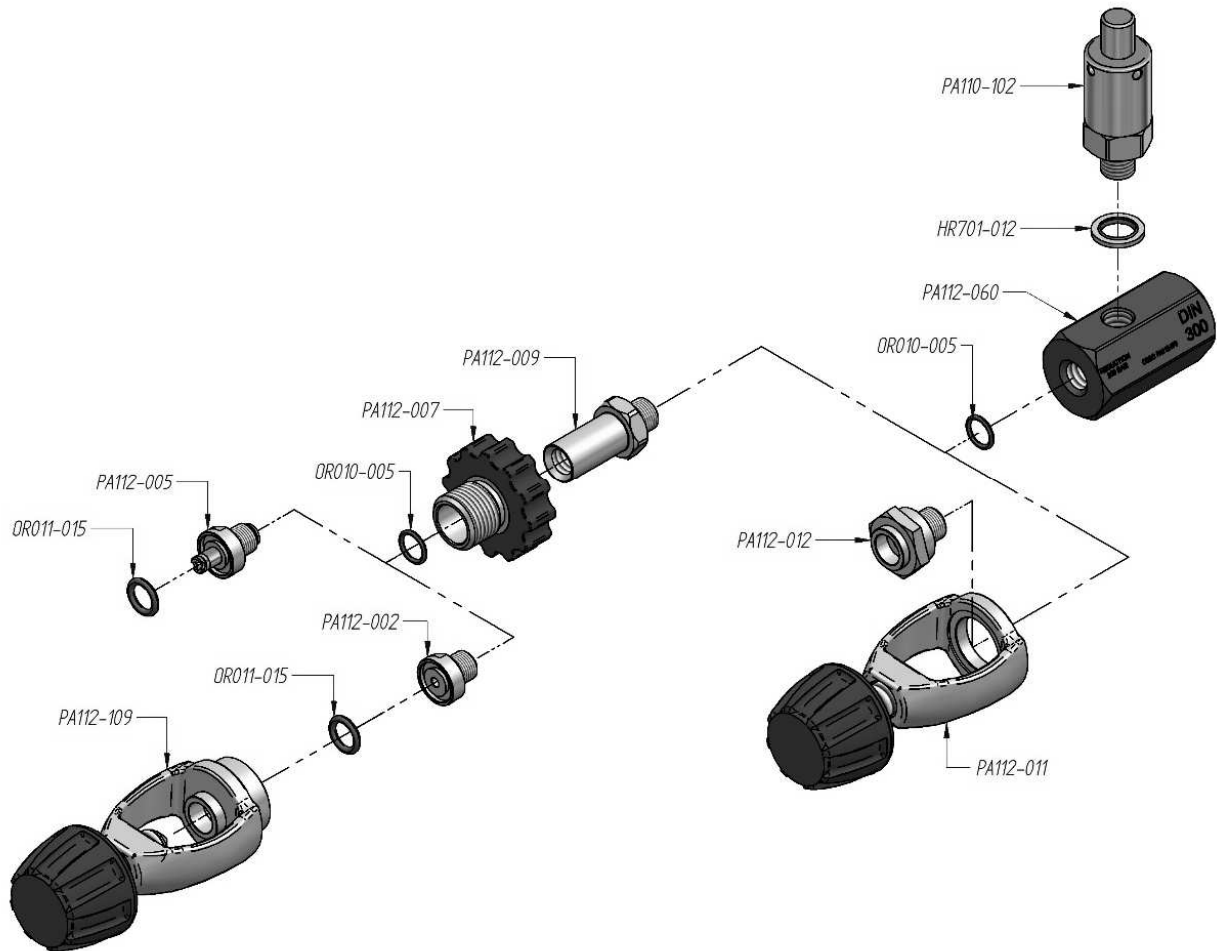
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR007-005	O-ring	PA112-016	Body valve	PA112-032	Nut
OR010-005	O-ring	PA112-022	Cylindrical guide	PA112-033	Rubber knob black 200 bar
OR011-015	O-ring	PA112-023	Piston valve insert	PA112-035	Filter
PA112-002	Fitting connection 200 BAR	PA112-024	Valve shaft	PA112-109	International connection INT-CGA
PA112-005	Fitting connection 200 BAR flow stop	PA112-025	Closure nut	PA112-901	Kit pressure valve
PA112-007	Knob DIN 200 black	PA112-026	Washer	VV005-015	Sphere
PA112-009	Knob guide DIN 200	PA112-027	Protection rubber black 200 BAR		
PA112-011	International connection INT-CGA	PA112-029	Pressure gauge 200 BAR		
PA112-012	Bracket blocks INT-CGA	PA112-031	Spring		



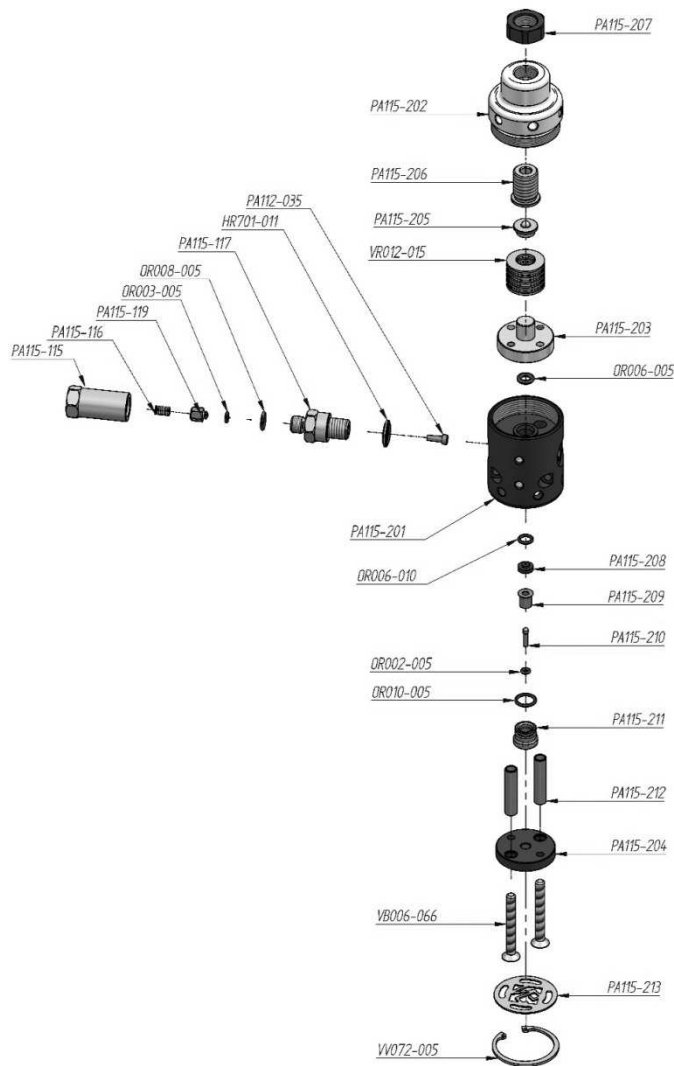
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR007-005	O-ring	PA112-015	Body valve	PA112-032	Nut
OR010-005	O-ring	PA112-022	Cylindrical guide	PA112-034	Rubber knob red 300 bar
OR011-015	O-ring	PA112-023	Piston valve insert	PA112-035	Filter
PA112-003	Fitting connection 300 BAR	PA112-024	Valve shaft	PA112-901	Kit pressure valve
PA112-006	Fitting connection 300 BAR flow stop	PA112-025	Closure nut	VV005-015	Sphere
PA112-008	Knob DIN 300 red	PA112-026	Washer		
PA112-009	Knob guide DIN	PA112-031	Spring		



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
OR007-005	O-ring	PA112-016	Body valve	PA112-030	Pressure gauge 300 BAR
OR010-005	O-ring	PA112-022	Cylindrical guide	PA112-031	Spring
OR011-015	O-ring	PA112-023	Piston valve insert	PA112-032	Nut
PA112-003	Fitting connection 300 BAR	PA112-024	Valve shaft	PA112-034	Rubber knob red 300 bar
PA112-006	Fitting connection 300 BAR flow stop	PA112-025	Closure nut	PA112-035	Filter
PA112-008	Knob DIN 300 red	PA112-026	Washer	PA112-901	Kit pressure valve
PA112-009	Knob guide DIN	PA112-028	Protection rubber red 300 BAR	VV005-015	Sphere



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR701-012	Washer	PA112-005	Fitting connection 200 BAR flow stop	PA112-060	Reduction Body
OR010-005	O-ring	PA112-007	Knob DIN 200 black	PA112-109	International connection INT-CGA
OR011-015	O-ring	PA112-009	Knob guide DIN 200		
PA110-102	Safety valve PN 200 Bar	PA112-011	International connection INT-CGA		
PA112-002	Fitting connection 200 BAR	PA112-012	Bracket blocks INT-CGA		



CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
HR701-011	Washer	PA115-119	Piston no return valve	PA115-211	Flange
OR002-005	O-ring	PA115-201	Body	PA115-212	Cylinder
OR003-005	O-ring	PA115-202	Flange	PA115-213	Flange
OR006-005	O-ring	PA115-203	Flange	VB006-066	Screw
OR006-010	O-ring	PA115-204	Flange	VR012-015	Washer
OR008-005	O-ring	PA115-205	Spring support	VV072-005	Safety ring
OR010-005	O-ring	PA115-206	Screw		
PA112-035	Filter	PA115-207	Nut		
PA115-115	Body no return Valve	PA115-208	Washer		
PA115-116	Spring no return valve	PA115-209	Cylinder		
PA115-117	Body no return valve	PA115-210	Piston		

9

MAINTENANCE SCHEDULE TABLE

EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		

Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		
Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 25 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Clean intake filter of the compressor		
Check oil level of compressor (ideally MAX)		
Check the performance of the filling hoses		

Check the performance of the cooling hoses		
Check instruments (zero on the gauge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE

Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 50 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Filter cartridge activated carbon/molecular sieve (PAC FILTER 2)		
Check O-Rings (Filters and cartridge)		
EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		
EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		

EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		
EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		
EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		
EVERY 250 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Replace cartridge of intake filter		
Inspection of body and base of filter activated carbon		

EVERY 500 HOURS OF OPERATION OR ANNUALLY	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Inspection and replacement of filter of last separator		
Oil change		
Check setting of safety valve		
EVERY 500 HOURS OF OPERATION OR ANNUALLY	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Inspection and replacement of filter of last separator		
Oil change		
Check setting of safety valve		
EVERY 1,000 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Replacement of valves		
EVERY 1,000 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Replacement of valves		

EVERY 1,000 HOURS OF OPERATION	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Replacement of valves		
ANNUALLY OR AS REQUESTED	DATE	TECHNICIAN'S SIGNATURE
Contact the technician of Nardi Compressori		
Test the quality of the air with aero-test kit or similar		
Oil change		
Check setting of automatic stop system and safety valve		
AFTER REPAIRS	DATE	TECHNICIAN'S SIGNATURE
Check performance of filling connectors		
Clean intake filter		
Check hoses and fittings of intercooling		
AFTER A LONG PERIOD OF INACTIVITY	DATE	TECHNICIAN'S SIGNATURE
Check performance of filling connectors		
Clean intake filter		
Check instruments (zero on the gauge)		

